Township of Howick

Application for a Septic System This form is authorized under subsection 8(1.1) of the Building Code Act.

	For use by	Principa	l Authority			
Application number:		Permit r	number (if differen	t):		
Date received: Roll		Roll nur	nber:			
Application submitted to:To	ownship c	of Howi	ck			
(Name of municipali	- 5			servatio	n authority)	
A. Project information						
Building number, street name	9				Unit number	Lot/con.
Municipality	Postal code		Plan number/oth	ner des	cription	
Project value est. \$	L		Area of work (m	²)		
B. Purpose of application						
☐ New construction ☐ Addition to existing b		☐ Altera	ation/repair		Demolition	☐ Conditional Permit
Proposed use of building	Curi	rent use of	building			
Description of proposed work						
C. Applicant Applicant is:	Owner or	[☐ Authorized a	gent o	of owner	
Last name	First name		Corporation or p			
Street address	<u> </u>				Unit number	Lot/con.
Municipality	Postal code		Province		E-mail	
Telephone number ()	Fax ()				Cell number	
D. Owner (if different from applicant)						
Last name	First name		Corporation or p	partners	ship	
Street address				1910-09-00	Unit number	Lot/con.
Municipality	Postal code		Province		E-mail	
Telephone number ()	Fax ()				Cell number	

E. Builder (optional)						
Last name	First name	Corporation or partners	ship (if applicable	e)		
Street address	L		Unit number	Lo	t/con.	
Municipality	Postal code	Province	E-mail			
Telephone number ()	Fax ()		Cell number			
F. Tarion Warranty Corporation (Ontari	o New Home Warr	anty Program)				
 i. Is proposed construction for a new hone Plan Act? If no, go to section G. 	me as defined in the	Ontario New Home Warranti	es 🗖	Yes		No
ii. Is registration required under the Onta	rio New Home Warra	nties Plan Act?		Yes		No
iii. If yes to (ii) provide registration numbe	er(s):		_:			
G. Required Schedules						
i) Attach Schedule 1 for each individual who rev	views and takes respo	onsibility for design activities				
ii) Attach Schedule 2 where application is to con	struct on-site, install	or repair a sewage system.				
H. Completeness and compliance with	applicable law					
 This application meets all the requirements of Building Code (the application is made in the applicable fields have been completed on the schedules are submitted). 	correct form and by t	he owner or authorized age		Yes		No
Payment has been made of all fees that are regulation made under clause 7(1)(c) of the bis made.				Yes		No
ii) This application is accompanied by the plans resolution or regulation made under clause 7			y-law,	Yes	0	No
iii) This application is accompanied by the inform law, resolution or regulation made under clau the chief building official to determine whether contravene any applicable law.	ise 7(1)(b) of the Buil	ding Code Act, 1992 which e	enable	Yes		No
iv) The proposed building, construction or demo	lition will not contrave	ne any applicable law.		Yes		No
I. Declaration of applicant						
*						
I(print name)				_declar	e that:	
(print name)						
The information contained in this application.		dules, attached plans and sp	ecifications, and	other a	ittached	
documentation is true to the best of my		rity to hind the corporation o	r nortnorobin			
If the owner is a corporation or partners	mp, i have the author	my to bind the corporation o	i paririersnip.			
Date	Signatur	e of applicant				
. 6 (8)	o.gatur					

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act*, 1992, and will be used in the administration and enforcement of the *Building Code Act*, 1992. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

Schedule 1: Designer Information

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project A. Project Information Unit no. Lot/con. Building number, street name Plan number/ other description Municipality Postal code B. Individual who reviews and takes responsibility for design activities Firm Name Street address Unit no. Lot/con. E-mail Province Municipality Postal code Telephone number Fax number Cell number C. Design activities undertaken by individual identified in Section B. [Building Code Table 3.5.2.1. of Division C1 ☐ House ☐ HVAC - House Building Structural ☐ Small Buildings Building Services ☐ Plumbing - House □ Large Buildings Detection, Lighting and Power ☐ Plumbing – All Buildings Complex Buildings ☐ Fire Protection On-site Sewage Systems Description of designer's work D. Declaration of Designer declare that (choose one as appropriate): (print name) ☐ I review and take responsibility for the design work on behalf of a firm registered under subsection 3.2.4.of Division C, of the Building Code. I am qualified, and the firm is registered, in the appropriate classes/categories. Individual BCIN: _____ Firm BCIN: ☐ I review and take responsibility for the design and am qualified in the appropriate category as an "other designer" under subsection 3.2.5.of Division C, of the Building Code. Individual BCIN: Basis for exemption from registration: ☐ The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification:

NOTE:

I certify that:

1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d), of Division C, Article 3.2.5.1. of Division C, all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.

Signature of Designer

1. The information contained in this schedule is true to the best of my knowledge. 2. I have submitted this application with the knowledge and consent of the firm.

Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of practice, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

Schedule 2: Sewage System Installer Information

A. Project	Information					
Building num	per, street name			Unit number	Lot/con.	
Municipality	·	Postal code Plan number/ other of		description		
B. Sewag	e system installer					
emptying sev	of the sewage system engrage systems, in accordance (Continue to Section C)	e with Building Co	ess of constructing on-site ode Article 3.3.1.1, Division (Continue to Section E)	n C?	servicing, cleaning or unknown at time of on (Continue to Section E)	
C. Regist	ered installer informati	on (where ansv	ver to B is "Yes")			
Name				BCIN		
Street addres	S			Unit number	Lot/con.	
Municipality		Postal code	Province	E-mail		
Telephone nu	ımber	Fax ()	2	Cell number		
D. Qualifi	ed supervisor informat	ion (where ans	wer to section B is "Y	es")		
E. Declar	ation of Applicant:					
1					declare that:	
	(print name)				Constitution Labora	
	the applicant for the permi nit a new Schedule 2 prior			taller is unknown at ti	me of application, I shall	
<u>OR</u>						
☐ lam kno	70	construct the sew	age system, and am subr	mitting a new Schedul	e 2, now that the installer is	
I certify that:						
1. The	information contained in th	is schedule is true	e to the best of my knowled	dge.		
2. If th	e owner is a corporation or	partnership, I hav	e the authority to bind the	corporation or partne	rship.	
Di	ate		Signature of applicant			

Schedule 3: Soil Design Criteria and Site Evaluation

A. Percolation Rate of Design Soil (T	- Time)	
Percolation Rate of Design Soil	Percolation Rate of Mantle Sand	☐ Laboratory Analysis
T =min/cm	T =min/cm	☐ Lab Report Attached
☐ Native	□ Native	
☐ Imported	☐ Imported	

Note: Documented laboratory reports verifying percolation rate for all soils proposed to be used in a septic bed is required.

3. Percolation Ra	ate and Classificatio	n of Native Soil			
☐ Laboratory Analy	rsis (Attached Report)	☐ Test on Site (Test Pit)		☐ Estimated (Unified System)	
		TEST PIT	SOIL DATA		
	TEST PIT #1			TEST PIT	#2
Rock or Ground Water Table	Depth (metres)	Description of Soil	Rock or Ground WaterTable	Depth (met	res) Description of Soil
-	-0-			-0-	
,	-0.25-			-0.25-	
* .	-0.50-		-	-0.50-	
	-0.75-			-0.75-	
	-1.00-			-1.00-	
4. 2	-1.25-			-1.25-	
	-1.50-			-1.50-	
	-1.80-			-1.80-	
Depth to Groun	dwater	m	Depth to Groun	ndwater	m
Seasonal High Gro	oundwater	m	Seasonal High Gr	oundwater	m
Depth to Bed	rock _	m	Depth to Be	drock	m

For fill based beds and mantle, attach gradation test report for the material proposed to be used in addition to the report for the existing native soil.

	Table 0.2.1.3.A				
C.	Septic System Design Flow				
Des	sign Criteria:				
•	Total Finished area: Number of Bedrooms: Fixture Units (O.B.C. Table 7.4.9.3):				
	Description Bathroom Group Watercloset (with flush tank)	6	Х	Number	Fixture Units
	Watercloset (with direct flush)	8	Χ		
	Urinal (wall hung)	3	X		
	Domestic Sink	1 ½	X		
	Shower (one head)	1 ½	Х		
	Bathtub (with or without shower)	1 ½	X		
	Laundry Tub	1 ½	X		
	Clothes Washer (domestic)	1 ½	X		
	Dishwasher	1 ½	X		
	Toilets	4	X	<u> </u>	111
	Kitchen Sink	1 ½	X		
	KILCHEN SINK	1 /2	^		
	Additional items (not listed above)				
					
					-
	TOTAL FIXTURE UNITS				
	nidential Occupancy ming Part of Sentence 8.2.1.3.(1)				
D	vellings				
(a	1 bedroom dwelling				50
(b				11	100
(c)					600
(d					000
(e			0	25	500
(f)	Additional flow for 2				00
-	i) Each bedroom over 5.	to 400	m ²		00
-	ii) A) each 10m² (or part of it) over 200m² up B) each 10m² (or part of it) over 400m² up				75
-	C) each 10m² (or part of it) over 600m², or		iii, aii		50
-	iii) each fixture unit over 20 fixtures units			· · · · · · · · · · · · · · · · · · ·	50
	, , , , , , , , , , , , , , , , , , , ,				
Sev	vage System Design Flow (O.B.C. 8.2.1.3 – Table	s 8.2.	1.3.A 8	B):	
	culations:			th.	

Q -____litres per day.

N	
D. System Design	
Treatment Unit:	
Septic Tank to conform to O.B.C. 8.2.2.2. Tanks and O.B. Minimum tank is larger of 2 X Residential Design Flow or 3 documentation for other treatment units.	C. 8.2.2.3 Septic Tanks X non-residential design flow or 3600 L or provide BMEC approval
Calculations:	
Size:litres or	imp. gal.
Absorption Trench Construction:	
General description: (e.g. pipe and stone or model of cham	nbers etc.)
Length of Distribution Pipe – formula from O.B.C. 8.7.3.1:	L = <u>Q1</u> 200
L=	
Propose usingruns Xm (ft.) =	=m (ft.)
Proposed spacing of runsm	
For Fill Based Absorption trenches (O.B.C. 8.7.4)	
15 m mantle required in any direction the effluent will flow	horizontally (O.B.C. 8.7.4.2 (1)(b)).
All side slopes to be no greater than 1 unit vertically to 4 un	nits horizontally (O.B.C. 8.7.4.2 (8)).
Minimum clearances to be increased by (O.B.C. 8.7.4.2.(9) increased by twice the height that the leaching bed is raise)). The distances as set out in Column 2 of Table 8,2,1,6, B) shall be ed above the original grade.
If leaching bed is being dosed by pump (>150 m)	
Dosing Volume =	Litres
200mg Volume	
High Float Elev =	Cm Above Tank Bottom
Low Float Elev =	Cm Above Tank Bottom
Pump Model =	

Table 8.2.1.6.A
Minimum Clearances for Treatment Units
Forming Part of Sentence 8.2.1.6.(1)

Forming Part of Sentence 8.2.1.6.(1)		
Object	Minimum Clearance, m	
Structure	1.5	
Well	15	
Lake	15	
Pond	15	
Reservoir	15	
River	15	
Spring	15	
Stream	15	
Property Line	3	

Column 1

2

Table 8.2.1.6.B Minimum Clearances for Distribution Piping Forming Part of Sentence 8.2.1.6.(2)

Object	Minimum Clearance, m
Structure	5
Well with a watertight casing to a depth of 6 m	15
Any other well	30
Lake	15
Pond	15
Reservoir	15
River	15
Spring not used as a source of potable water	15
Stream	15
Property Line	3
Column 1	2

Loading rate for filter bed = L.R. per OBC 8.7.5.2. =	L/m²/day
	m2
Loading Area for filter bed (>3,000L) $A = Q$ 50 =	m2
Expanded Contact Area of Filter = QT 850=	m²
Base area per loading rate OBC 8.7.4.1. A =	m²
Source/Supplier of Filter Media	(Attach graduation chart)

Table 8.7.4.1.A.

Loading Rates for Fill Based Absorption Trenches and Filter Beds

Forming Part of Sentences 8.7.4.1.(1) and 8.7.5.2.(2)

Percolation Time (T) of Soil, min.cm	Loading Rates, (L/m²)/day
1 < T ≤ 20	10
20 < T ≤ 35	8
35 < T ≤ 50	6
T > 50	4
Column 1	2

For other OBC approved treatment units listed in OBC SB-5 please specify the unit make and model plus attach a copy of the approval documentation to support the design of the system.

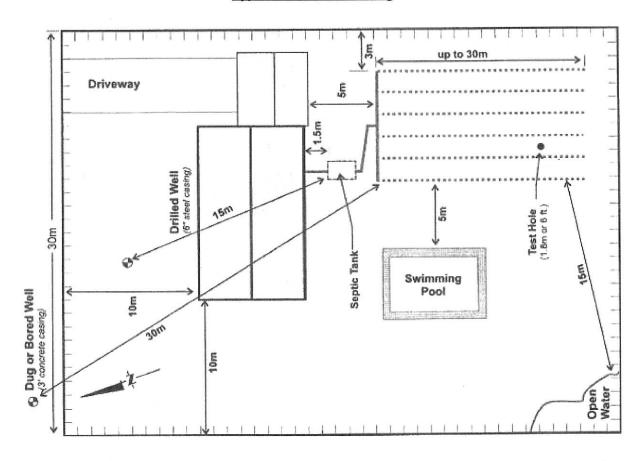
E. Site Plan Requirements

As part of your application you are required to provide a site plan which must be an accurate scaled or proportioned drawing. This diagram must be completed in detail and be presented as part of your application.

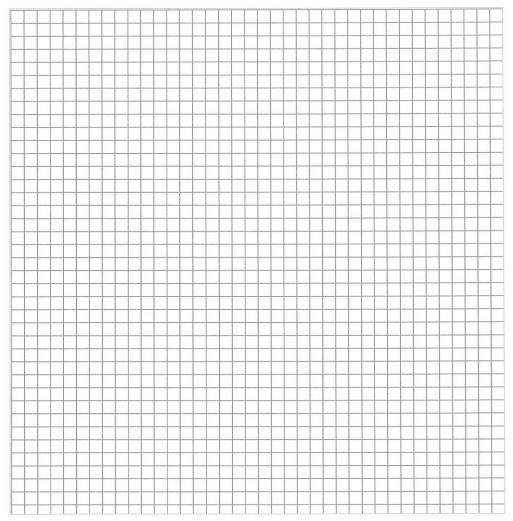
Site Plan and Typical Section – please attach copy with the following information:

- Date site evaluation was completed
- Name, address, telephone number of Owner and Designer
- Legal description of property, property lines and easements
- Show utility corridors (as applicable).
- Proposed location of sewage system
- Location of items in Column 1 of Tables 8.2.1.6.A & B
- Location of any unsuitable, disturbed or compacted areas.
- Access route for tank maintenance
- Depth to bedrock, high water table or unacceptable soil
- List soil properties and conditions
- Outline any potential for flooding (as applicable)

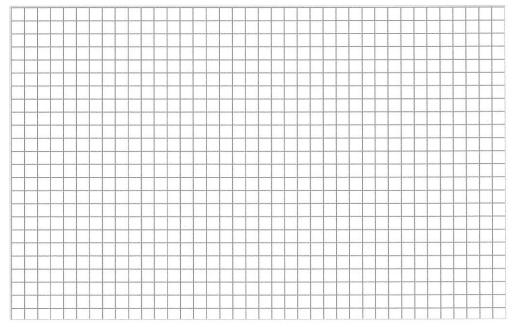
Typical Site Plan Drawing



Sewage System Site Plan



Sewage System Cross Section (house,tank and tile bed elevations with existing and proposed grades)



Inspector's Comments _____