

**SITE INVESTIGATION FOR A SEWAGE DISPOSAL SYSTEM**

Property Owner : Kellie Gosselin and Carl Gustafson  
 Location : 27 Flanders Road

**DEEP TEST PIT DATA/SOIL DESCRIPTIONS**

DATE: 5/9/19

(Record all Test Pits)

TEST PIT: TP-1	TEST PIT: TP-2	TEST PIT:	TEST PIT:
0-2" Topsoil 2-19" Light brown loamy fill with gravel (VOC odor) 19-30" Organic layer 30-42" Red brown loamy sand with gravel 42-67" Brown fine sandy loam with gravel (loose) 67-93" Orange brown loamy fine sand (original?)	0-5" Process gravel 5-24" Brown sand and gravel fill (loose) 24-40" Black sand, gravel and organic fill w/ash 40-55" Miscellaneous brown loamy sand fill w/ash (loose) 55-93" Light brown silty fine sandy loam (damp) Note: large rocks at bottom		
Mottles: None	Mottles: None	Mottles:	Mottles:
GW: None	GW: None	GW:	GW:
Ledge: None	Ledge: None	Ledge:	Ledge:
Roots: 93"	Roots: 93"	Roots:	Roots:
Restrictive: None	Restrictive: None	Restrictive:	Restrictive:

COMMENTS: Mostly fill but apparently well drained

GROUNDWATER TABLE (Near max., below max., etc.) Near maximum

**PERCOLATION TEST DATA**

(Record all Perc Tests)

DATE: 5/20/19

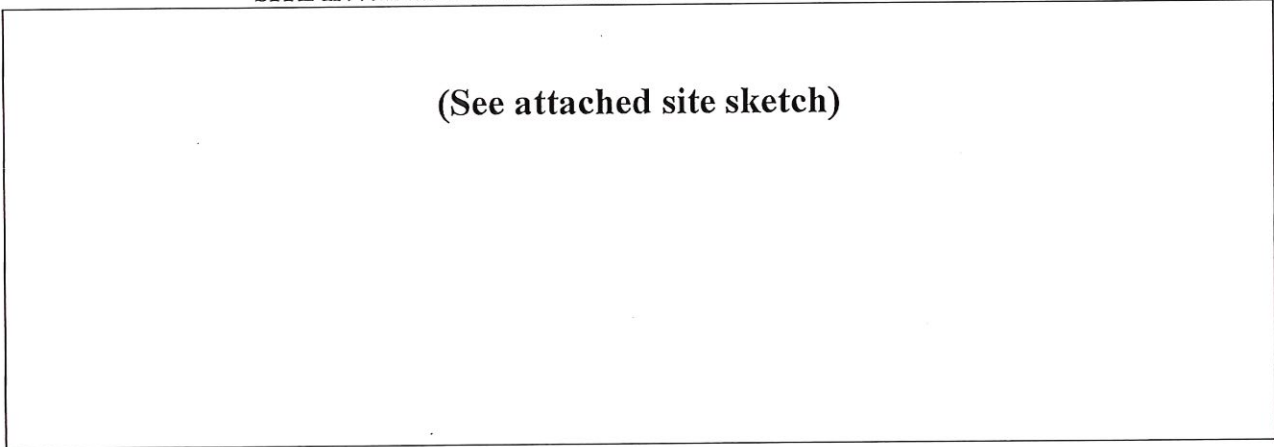
PERC: P1	PERC:	PERC:	PERC:
DEPTH: 18"	DEPTH:	DEPTH:	DEPTH:
PRESOAK: 10:17 AM	PRESOAK:	PRESOAK:	PRESOAK:
Time	Reading	Time	Reading
11:12	<4" left		
11:13	5 1/4"		
11:18	6 1/8"		
11:23	6 7/8"		
11:32	7 7/8"		
11:41	9"		
11:50	10 1/8"		
11:59	11 1/4"		

Perc Rate: mi	Perc Rate: 9.0	Perc Rate:	Perc Rate:	Perc Rate:	Perc Rate:	Perc Rate:	Perc Rate:
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COMMENTS: hole was large on one side until 11:50 reading (rock was on one side deep)\_\_\_  
 SOIL MOISTURE (High, medium, low, etc): \_\_High\_\_

**FORM #2(Cont'd)** State of Connecticut Department of Public Health 1/1/04

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**LOCATION DRAWING INCLUDING ALL TEST PITS AND PERCOLATION HOLES**

<b>SPECIAL CONDITIONS</b>	<b>CONCLUSIONS</b>
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Design Flow > 2000 GPD		Suitable for Sewage Disposal	Yes
Public Water Supply Watershed		Unsuitable for Sewage Disposal	
Probable High Groundwater		Additional Investigation Req'd	
Slope > 25 percent	Some	Wet Season Monitoring Req'd	
Perc Rate < 1 mm/inch		Retest During Wet Season	
Perc Rate > 30 mm/inch		Licensed Engineer Plan Reg'd	
Ledge < 5 feet below grade		Other:	
Limited Suitable Area	Yes		
Open Watercourse or Wetlands			
Flood Plain / Seasonal Flooding			
G.W. 36 inches below grade			

**DESIGN RECOMMENDATIONS/COMMENTS:**

Existing cesspool on site. Want a new septic system for a 2 bedroom house and one bedroom accessory apartment. 3 bedrooms with 9.0 min./inch perc rate requires 495 SF of effective leaching area. Need new 2-compartment 1000 gallon tank (suggest HD as it will be in or near driveway. Installer to propose new system. Any system should have a sand "T" wick into original grade through any original topsoil. "T" wick sketch enclosed. No restrictive layer encountered but soil near TP-1 had a strong hydrocarbon odor...suggest testing well for VOC's (Volatile Organic Compounds).

**FORM COMPLETED BY:** Don Mitchell, MPH, RS

**OTHERS PRESENT FOR SITE INVESTIGATION** Lee Stolz and son, Carl Gustafson, Mr. Gosselin