

SITE INVESTIGATION FOR A SUBSURFACE SEWAGE DISPOSAL SYSTEM

Property Address: Holmes Rd (57.0 30) Town: East Lyme

DEEP TEST PIT DATA/SOIL DESCRIPTIONS

DATE: 2-7-2025

(Record all Test Pits)

TEST PIT: 1A	TEST PIT: 1B	TEST PIT: 2A	TEST PIT: 2B
0-4" TS -18" Lt Br fine sandy loam -61" Tan f-med sand w/gravel few cobbles	0-7" TS -30" Br fine sandy loam w/rocks -57" Gray-br fine sand w/gravel; some cobbles	0-5" TS -24" Br fine sandy loam, some silt, lg rocks -54" Gray-br fine sand w/gravel	0-6" TS -24" Br fine sandy loam -55" Tan -Gray fine-med sand w/gravel; few cobbles
Mottles: 32"	Mottles: 25"	Mottles: 26"	Mottles: 28"
GW: 61" (ice)	GW: 57" (ice)	GW: 54" (ice)	GW: 55" (ice)
Ledge: none to 61"	Ledge: none to 57"	Ledge: none to 54"	Ledge: none to 55"
Roots: to 20"	Roots: to 17"	Roots to: 15"	Roots to: 19"
Restrictive: poss ledge at 61"	Restrictive: GW 25"	Restrictive: poss ledge at 54"	Restrictive: poss ledge at 55"

TEST PIT: 3A	TEST PIT: 3B	TEST PIT: 4A <i>unsuitable</i>	TEST PIT: 4B <i>unsuitable</i>
0-6" TS -34" Br fine sandy loam, some silt, few rocks -55" Br-gray f-med sand w/gravel;	0-7" TS -23" Lt Br fine sandy loam -54" Lt br - gray med sand w/gravel; some cobbles	0-5" TS -26" Br fine sandy loam, some silt, lg rocks -45" Gray-br fine sand w/gravel	0-7" TS -23" Br fine sandy loam -38" Tan -Gray fine sand w/gravel
Mottles: 35"	Mottles: 28"	Mottles: 25"	Mottles: 22"
GW: 55" (ice)	GW: 54" (ice)	GW: 45" (ice)	GW: 38" (ice)
Ledge: none to 55"	Ledge: none to 54"	Ledge: none to 45"	Ledge: none to 38"
Roots: to 27"	Roots: to 12"	Roots to: 10"	Roots to: 7"
Restrictive: poss. ledge 55"	Restrictive: poss ledge at 54"	Restrictive: poss ledge at 45"	Restrictive: poss ledge at 38"

TEST PIT: 5A <i>unsuitable</i>	TEST PIT: 5B <i>unsuitable</i>	TEST PIT: 6A	TEST PIT: 6B <i>unsuitable</i>
0-6" TS -20" Br fine sandy loam -29" Lt Br fine sand; some gravel	0-5" TS -34" Br fine sandy loam, some silt	0-7" TS -30" Br fine sandy loam -67" Gray-br fine sand some gravel	0-7" TS -21" Lt Br fine sandy loam -65" Gray-br fine sand mottled
Mottles: 24"	Mottles: 27"	Mottles: 25"	Mottles: 17"
GW: 29" (ice)	GW: 34" (ice)	GW: 67" (ice)	GW: 65" (ice)
Ledge: none to 29"	Ledge: none to 34"	Ledge: none to 67"	Ledge: none to 65"
Roots: to 6"	Roots: to 9"	Roots to: 34"	Roots to: 14"
Restrictive: poss. ledge 29"	Restrictive: poss ledge at 34"	Restrictive: GW at 25"	Restrictive: unsuitable

TEST PIT: 7A <i>unsuitable</i>	TEST PIT: 7B <i>unsuitable</i>	TEST PIT: 8A <i>unsuitable</i>	TEST PIT: 8B <i>unsuitable</i>
0-5" TS -23" Lt Br – yellow fine sandy loam -43" Br-gray fine sand w/silt	0-5" TS -36" Lt Br fine - med sandy loam, some gravel	0-7" TS -34" Br fine-med sandy loam, some gravel	0-6" TS -29" Br fine sandy loam
Mottles: 20"	Mottles: 24"	Mottles: 25"	Mottles: 24"
GW: 43" (ice)	GW: 36" (ice)	GW: 34" (ice)	GW: 29" (ice)
Ledge: none to 43"	Ledge: none to 36"	Ledge: none to 34"	Ledge: none to 29"
Roots: to 26"	Roots: to 13"	Roots to: 12"	Roots to: 18"
Restrictive: poss. ledge 43"	Restrictive: poss ledge at 36"	Restrictive: poss ledge at 34"	Restrictive: poss ledge at 29"

TEST PIT: 9A <i>unsuitable</i>	TEST PIT: 9B <i>unsuitable</i>	TEST PIT: 10A <i>unsuitable</i>	TEST PIT: 10B <i>unsuitable</i>
0-9" TS -35" Br fine-med sandy loam, some gray silt	0-9" TS -32" Yellow- Br fine-med sandy loam; some gray silt approx. 28"	0-4" TS -25" Lt Br fine sandy loam, few rocks -30" Org-tan fine-med sand	0-7" TS -32" yellow-br fine sandy loam; little gravel
Mottles: 23"	Mottles: 28"	Mottles: 24"	Mottles: 28"
GW: 35" (ice)	GW: 32" (ice)	GW: 30" (ice)	GW: 32" (ice)
Ledge: none to 35"	Ledge: none to 32"	Ledge: none to 30"	Ledge: none to 32"
Roots: to 12"	Roots: to 12"	Roots to: 12"	Roots to: 8"
Restrictive: poss. ledge 35"	Restrictive: poss ledge at 32"	Restrictive: poss ledge at 30"	Restrictive: poss ledge at 32"

TEST PIT: 11A	TEST PIT: 11B	TEST PIT: 12A	TEST PIT: 12B
Depth 93"	Depth 88"	Depth 68"	Depth 72"
0-8" Leaf litter & topsoil	0-6" Leaf litter & topsoil	0-8" Leaf litter & topsoil	0-6" Leaf litter & topsoil
8-24" Orange brown fine sandy loam, mottled at layer change (24")	6-20/24" Orange brown fine sandy loam. Mottles?	8-24" Orange brown fine to medium sandy loam, mottled at layer change (24")	6-32" Orange brown sandy loam, mottled at 32"
24-93" Compact gray sandy till w/cobbles	20-43" Compact yellow brown sandy till w/cobbles GW?	24-43" Compact yellow to gray brown sandy till GW?	32-45" Yellow to gray brown compact sandy till GW?
	43-88" Snow & frozen	43-68" Snow & frozen	45-72" Snow & frozen
Mottles: 24"	Mottles: ?	Mottles: 24"	Mottles: 32"
GW: None	GW: ?	GW: ?	GW: ?
Ledge: None to 93"	Ledge: None to 88"	Ledge: None to 68"	Ledge: None to 72"
Roots: 38"	Roots: 36"	Roots: 20"	Roots: 38"
Restrictive: 24"	Restrictive: 43"	Restrictive: 24"	Restrictive: 32"

TEST PIT: 13A	TEST PIT: 13B	TEST PIT: 14A	TEST PIT: 14B
Depth 68"	Depth 70"	Depth 71"	Depth 65"
0-6" Topsoil	0-7" Topsoil	0-7" Topsoil	0-5" Topsoil
6-24" Orange brown sandy loam, mottled at layer change (24")	7-17" Orange brown sandy loam, trace cobbles	7-23" Orange brown sandy loam w/cobbles	5-22" Orange brown sandy loam w/cobbles
24-58" Yellow to gray brown compact till	17-40" Yellow to gray brown compact till	23-42" Yellow to gray brown sandy till, compact	22-55" Yellow to gray brown compact sandy till
GW?	GW?	GW?	GW?
58-68" Snow & frozen	40-70" Snow & frozen	42-71" Snow & frozen	55-65" Snow & frozen
Mottles: 24"	Mottles: 28"	Mottles: none	Mottles: none
GW: ?	GW: ?	GW: ?	GW: ?
Ledge: None to 68"	Ledge: None to 70"	Ledge: None to 71"	Ledge: None to 65"
Roots: 24"	Roots: 27"	Roots: 36"	Roots: 30"
Restrictive: 24"	Restrictive: 28"	Restrictive: 42"	Restrictive: 55"

TEST PIT: 15A	TEST PIT: 15B	TEST PIT: 20B	TEST PIT:
Depth 72" 0-5" Leaf litter & topsoil 5-20" Yellow to orange brown sandy loam, trace cobbles 20-39" Gray brown medium coarse sand & gravel, large rocks GW? 39-72" Snow & frozen	Depth 64" 0-7" Topsoil 7-23" Frozen/could not read 23-48" Yellow brown sand & gravel (35%) GW? 48-64" Snow/frozen NOTE: suitability unknown; test hole was in low area w/ponded water and snowmelt, extensively frozen	Depth 65" 0-4" Leaf litter & topsoil 4-20" Orange brown fine sandy loam 20-36" Yellow brown sand & gravel (30%) 36-65" Snow/frozen GW?	
Mottles: None	Mottles: ?	Mottles: None	Mottles:
GW: ?	GW: ?	GW: ?	GW:
Ledge: None to 72"	Ledge: None to 64"	Ledge: None to 65"	Ledge:
Roots: 20"	Roots: 35"	Roots:	Roots:
Restrictive: 39"	Restrictive: ?	Restrictive: 36"	Restrictive:

GROUNDWATER TABLE (Near max., below max., etc.): below max
 SOIL MOISTURE (High, medium, low, etc.): high

PERCOLATION TEST DATA

(Record all Perc Tests)

DATE:

Percs to be conducted by PE

PERC:	PERC:
DEPTH:	DEPTH:

PRESOAK:			PRESOAK:		
TIME	READING	Min/in	TIME	READING	Min/in
PERC RATE:			PERC RATE:		

COMMENTS: _____

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

LOCATION DRAWING INCLUDING ALL TEST PITS AND PERCOLATION HOLES



DESIGN RECOMMENDATIONS/COMMENTS

Test pits should be dug and logged on same day _____

Form completed by: Wendy K. Brown-Arnold, RS, REHS, Katie Baldwin, Danielle Holmes, REHS/RS
(Certified Local Health Agent or P.E.)

Accuracy assured by (If P.E. completed form): _____



Promoting
healthy
communities

(Certified Local Health Agent)

Others present for site investigation (Engineer, developer, installer etc.): Katie Baldwin, REHS; Danielle Holmes, REHS
