

City/Town of Westport

	Westport Land Conservation Trust Owner Name					
	Adjacent to 122 Blossom Road				Map 1-Lot 10C	
	Street Address				Map/Lot #	
	Westport			MA	02790	
	City			State	Zip Code	
В.	Site Information					
1.	(Check one) New Const	truction	☐ Upgrade	☐ Repair		
2.	Soil Survey Available?		☐ No	If yes: NRCS		255B
	•			Source		Soil Map Unit
	Windsor Loamy Sand			None		
	Soil Name			Soil Limitations		
	Glacial Till			Till Plain		
_	Geologic/Parent Material	- -		Landform		
3.	Surficial Geological Report Available	?∐ Yes	⊠ No	If yes: Year Published/Source	Publication Scale	Map Unit
4.	Flood Rate Insurance Map					
	Above the 500-year flood boundary? If Yes, continue to #5.		☐ No	Within the 100-year flood bour	ndary?	⊠ No
5.	Within a velocity zone?	☐ Yes	⊠ No			
6.	Within a Mapped Wetland Area?	☐ Yes	⊠ No	MassGIS Wetland Data Laye	er: N/A Wetland Type	
7.	Current Water Resource Conditions	s (USGS):	Jan 2018 Month/Year	Range: Above Normal		w Normal
3.	Other references reviewed:					



City/Town of Westport

C.	On-Site Revie	w (minimum of	two holes red	quired at ev	ery propos	sed primary	and reserve dis	posal area)
	Deep Observation I	Hole Number:	TP-1	1/19/18	9:4	5	Partly Cloudy 3	35 Degrees
				Date	Time	9	Weather	
1.	Location							
	Ground Elevation at	Surface of Hole:	Not surveyed feet	ed	Latitude/l	_ongitude:		
	Description of Locati	ion: Northea	st Corner of Lot					
2.		ant Lot			Sor	ne Stones and	d Boulders	0-5%
	(e.g.,	woodland, agricultural	field, vacant lot, etc.	.)	Surf	ace Stones (e.g.,	cobbles, stones, boulde	rs, etc.) Slope (%)
	Gras	SS		Rolling Till F	Plain	TS		
	Vege	etation		Landform		Posi	tion on Landscape (SU,	SH, BS, FS, TS)
3.	Distances from:	Open Water Body	>100 feet	Drainag	e Way	>100 feet	Wetlands	>100 feet
		Property Line	40	Drinking	Water Well	>100	Other	
			feet		,	feet	_	feet
4.	Parent Material:	Glacial Till			Unsuitable	Materials Pres	sent: Yes	⊠ No
	If Yes: Distu	rbed Soil	Fill Material	☐ Impervious	Layer(s)	☐ Weath	nered/Fractured Rock	Bedrock
5.	Groundwater Observ	ved: X Yes	☐ No		If yes:	N/A	N/A	
J.	Groundwater Observ	veu. 🖂 res			ıı yes.	Depth Weeping		th Standing Water in Hole
	Estimated Depth to I	High Groundwater:	30" (Mottles)				пошти Верг	ar standing water in riole
			inches		elevation			



City/Town of Westport

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continue

Donth (in)	Soil Horizon/	Soil Matrix: Color-	Red	loximorphic Featu	ıres	Soil Texture		ragments /olume		Soil	Other
Depth (in.)	Layer	Moist (Munsell)	Depth	Color	Percent	(USDA)	Gravel	Cobbles & Stones	Soil Structure	Consistence (Moist)	G uiloi
0-12	А	10 YR 4/4	N/A			Sandy Loam	0-5%	0-5%	friable	dry	
12-30	В	10 YR 5/8	N/A			Sandy Loam	0-5%	0-5%	friable	dry	
30-72	C1	2.5 Y 5/3	30"	2.5 Y 5/3 10 YR 5/8	25%	Sandy Loam	0-5%	0-5%	Firm-friable	dry	
72-120	C2	2.5 Y 6/3				Fine Loamy Sand	5-10%	0-5%	Friable	Dry	Some boulders

Au	dditional Notes:			



City/Town of Westport

C.	On-Site Rev	view (continued)					
	Deep Observati	on Hole Number:	TP-2		0:00 me	Partly Cloudy 35 Deg Weather	grees
1.	Location						
	Ground Elevation	n at Surface of Hole:	Not surveyed feet	Latitude/Long	gitude:	1	
2.	Land Use	Vacant Lot		Soi	me Stones and E	Boulders	0-5%
		(e.g., woodland, agricultura	I field, vacant lot, etc.) Surf	face Stones (e.g., co	bbles, stones, boulders, etc.)	Slope (%)
	(Grass		Till Plain		TS	
	₹	Vegetation		Landform		Position on Landscape (S	U, SH, BS, FS,
3.	Distances from:	Open Water Boo	ly >100	Drainage Way	>100	Wetlands	>100
		•	feet		feet		feet
		Property Line	40	Drinking Water Wel	ll >100	Other	
			feet		feet		feet
4.	Parent Material:	Glacial Till		Unsuitable	Materials Presei	nt: Yes	⊠ No
	If Yes:	Disturbed Soil	Fill Material	☐ Impervious Layer(s)	☐ Weather	ed/Fractured Rock] Bedrock
5.	Groundwater Ob	served: X Yes	☐ No	If yes:	N/A	N/A	
				•	Depth Weeping fro	m Pit Depth Stand	ling Water in Hole
	Estimated Depth	to High Groundwater	: 36" (Mottles)				
	•	-	inches	elevation			



City/Town of Westport

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Depth (in.)	Soil Horizon/	/ Soil Matrix: Color-	Redoximorphic Features		Soil Texture	Coarse Fragments % by Volume		Soil Structure	Soil Consistence	Other	
Depth (in.)	Layer	Moist (Munsell)	Depth	Color	Percent	(USDA)	Gravel	Cobbles & Stones		(Moist)	C
0-12	А	10 YR 4/4	N/A			Sandy Loam	0-5%	0-5%	friable	dry	
12-36	В	10 YR 5/8	N/A			Sandy Loam	0-5%	0-5%	friable	dry	
36-120	С	2.5 Y 6/3	36"	2.5 Y 5/3 10 YR 5/8	25%	Fine Loamy Sand	5-10%	5-10%	friable	dry	Some boulders

Additio	nal Notes:				
					_
					_



City/Town of Westport

D.	De	eterminatio	n of High Gro	oundwater Elev	ation			
1.	Me	thod Used:			Obs. Hole #	TP-1	Obs. Hole #TP-2	2
	П	Depth observe	d standing water in	observation hole				
			9		inches		inches	
		Depth weeping	from side of observ	ation hole				
					inches		inches	
	\boxtimes	Depth to soil re	doximorphic feature	es (mottles)	30" inches		36"	
		Donth to adjust	end announce bigh a	roundwater (C.)	inches		inches	
	Ш	(USGS method	ted seasonal high g lology)	Touridwater (Sh)	inches		inches	
		Index W	ell Number	Reading Date				
		$S_h = S_c - [S_r x]$	$(OW_c - OW_{max})/OW$	r]				
		Obs. Hole #	S _c	S _r	OW _c	OW _{max}	OW _r	S _h
		Obs. Hole #	S _c	S _r	OW _c	OW _{max}	OW _r	Sh
E.	De	epth of Per	vious Materia	ıl				
1.	De	pth of Naturally	Occurring Pervious	Material				
	a.	Does at least for absorption syst		occurring pervious ma	terial exist in all area	s observed throu	ughout the area propos	ed for the soil
			☐ No					
	b.	If yes, at what	depth was it observ	ed?	Upper boundary		Lower boundary:	120
	_	If no ot what d	onth was impossible.	a matarial abaar a da	Linnar baue dem	inches : N/A	Lower boundary:	inches N/A
	C.	ii iio, at wiiat u	epiii was iiiipeiviou	s material observed?	Upper boundary	inches	Lower boundary.	inches



City/Town of Westport

1.		ion Hole Number:	TP-3	1/19/18	10:30	Partly Cloudy 35 Deg	grees
1.				Date	Time	Weather	
	Location						
	Ground Elevatio	n at Surface of Hole:	Not surveye	ed Latitu	ude/Longitud	e: /	
	Description of Lo	ocation: Northea	st Corner of Lot				
2.	Land Use	Vacant Lot			Some Stone	es and Boulders	0-5%
	- -	(e.g., woodland, agricultural t	ield, vacant lot, etc.	.)	Surface Stone	s (e.g., cobbles, stones, boulders, etc.)	Slope (%)
		Grass		Rolling Till Plain		TS	
		Vegetation		Landform		Position on Landscape (SU, SH, BS	, FS, TS)
3.	Distances from:	Open Water Body	>100	Drainage Way	>100) Wetlands	>100
			feet		feet		feet
		Property Line	40	Drinking Water \		Other	
			feet		feet		feet
4.	Parent Material:	Glacial Till		Unsuita	ble Materials	s Present: Yes	⊠ No
	If Yes:	Disturbed Soil	Fill Material	☐ Impervious Layer(s)		Weathered/Fractured Rock] Bedrock
5.	Groundwater Ob	served: X Yes	☐ No	If yes:	N/A	N/A	
			<u> </u>	,			ling Water in Hole



City/Town of Westport

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

Donth (in)	Soil Horizon/ Layer	/ Soil Matrix: Color- Moist (Munsell)	Redoximorphic Features		Soil Texture	Coarse Fragments % by Volume			Soil Consistence	Other	
Depth (in.)			Depth	Color	Percent	(USDA)	Gravel	Cobbles & Stones		(Moist)	Otner
0-12	А	10 YR 4/4	N/A			Sandy Loam	0-5%	0-5%	friable	dry	
12-34	В	10 YR 5/8	N/A			Sandy Loam	0-5%	0-5%	friable	dry	
34-120	C1	2.5 Y 6/3	36"	2.5 Y 5/3 10 YR 5/8	25%	Fine Loamy Sand	0-5%	0-5%	Firm-friable	dry	Some Boulders

Additional Notes:		



City/Town of Westport

C.	On-Site Rev	view (continued)					
	Deep Observation	on Hole Number:	TP-4		1:00 me	Partly Cloudy 35 Weather	Degrees
1.	Location						
	Ground Elevation	n at Surface of Hole:	Not surveyed feet	Latitude/Long	gitude:	1	
2.	Land Use	Vacant Lot		Soi	me Stones and Bo	oulders	0-5%
	(e.g., woodland, agricultural	field, vacant lot, etc.)	Surf	face Stones (e.g., cobl	bles, stones, boulders,	etc.) Slope (%
	(Grass		Till Plain		TS	
	\overline{}	Vegetation		Landform		Position on Landscap	e (SU, SH, BS, FS,
3.	Distances from:	Open Water Bod	y >100 feet	_ Drainage Way	>100 feet	Wetlands	>100 feet
		Property Line	40 feet	_ Drinking Water Wel	II >100 feet	Other	feet
4.	Parent Material:	Glacial Till		Unsuitable	Materials Present	: Yes	⊠ No
	If Yes:	Disturbed Soil	Fill Material	☐ Impervious Layer(s)	☐ Weathere	d/Fractured Rock	Bedrock
5.	Groundwater Ob	served: X Yes	☐ No	If yes:	N/A	N/A	
				,	Depth Weeping from		tanding Water in Hole
	Estimated Depth	to High Groundwater:	38" (Mottles) inches	elevation	<u> </u>		



City/Town of Westport

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

C. On-Site Review (continued)

Danth (in)	Soil Horizon/	zon/ Soil Matrix: Color-	Redoximorphic Features		Soil Texture	Coarse Fragments % by Volume			Soil	Other	
Depth (in.)	Layer	Moist (Munsell)	Depth	Color	Percent	(USDA)	Gravel	Cobbles & Stones	Soil Structure	Consistence (Moist)	Other
0-12	А	10 YR 4/4	N/A			Sandy Loam	0-5%	0-5%	friable	dry	
12-38	В	10 YR 5/8	N/A			Sandy Loam	0-5%	0-5%	friable	dry	
38-116	С	2.5 Y 6/3	38"	2.5 Y 5/3 10 YR 5/8	25%	Fine Loamy Sand	5-10%	10-20%	friable	dry	Some boulders

Additional Notes:		



City/Town of Westport

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

D. Determination of High Groundwater Elevation

1. Method Used:					Obs. Hole #	TP-3	Obs. Hole #TP-4	Obs. Hole # <u>TP-4</u>			
		Depth observed	l standing water in c	bservation hole	-		_				
	\Box	Donthoning	from oido of observ	ation bala	inches		inches				
	Ш	Depth weeping	from side of observa	ation noie	inches		inches				
	\bowtie	Depth to soil red	doximorphic feature	s (mottles)	36"		38"				
		·	•	,	inches		inches				
		Depth to adjuste (USGS methodo	ed seasonal high gro ology)	oundwater (Sh)	inches	inches					
		Index We	Il Number	Reading Date							
		$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$									
		Obs. Hole #	S _c	S _r	OW _c	OW _{max}	OW _r	S _h			
		Obs. Hole #	S _c	S _r	OW _c	OW _{max}	OW _r	S _h			
Ε.	De	epth of Perv	vious Materia								
1.	De	pth of Naturally C	Occurring Pervious N	Material							
	a.	a. Does at least four feet of naturally occurring pervious material exist in all areas observed throughout the area proposed for the soil absorption system?									
			☐ No								
	b.	If yes, at what d	epth was it observe	ed?	Upper boundary:	34	Lower boundary:	120			
						inches		inches			
	c.	If no, at what de	epth was impervious	material observed?	Upper boundary:		Lower boundary:	N/A			
						inches		inches			



City/Town of Westport

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

F. Board of Health Witness	
John Swartz Name of Board of Health Witness	Westport Board of Health
G. Soil Evaluator Certification	
evaluations and that the above analysis has been performe	Environmental Protection pursuant to 310 CMR 15.017 to conduct soil ed by me consistent with the required training, expertise and experience ults of my soil evaluation, as indicated in the attached Soil Evaluation Form, ugh 15.107.
an lan	1/23/18
/ Signature of Still Evaluator	Date
Richard R. Riccio III, P.E. (Soil Evaluator #2035)	6/30/19
Typed or Printed Name of Soil Evaluator / License #	Expiration Date of License

Note: In accordance with 310 CMR 15.018(2) this form must be submitted to the approving authority within 60 days of the date of field testing, and to the designer and the property owner with <u>Percolation Test Form 12</u>.

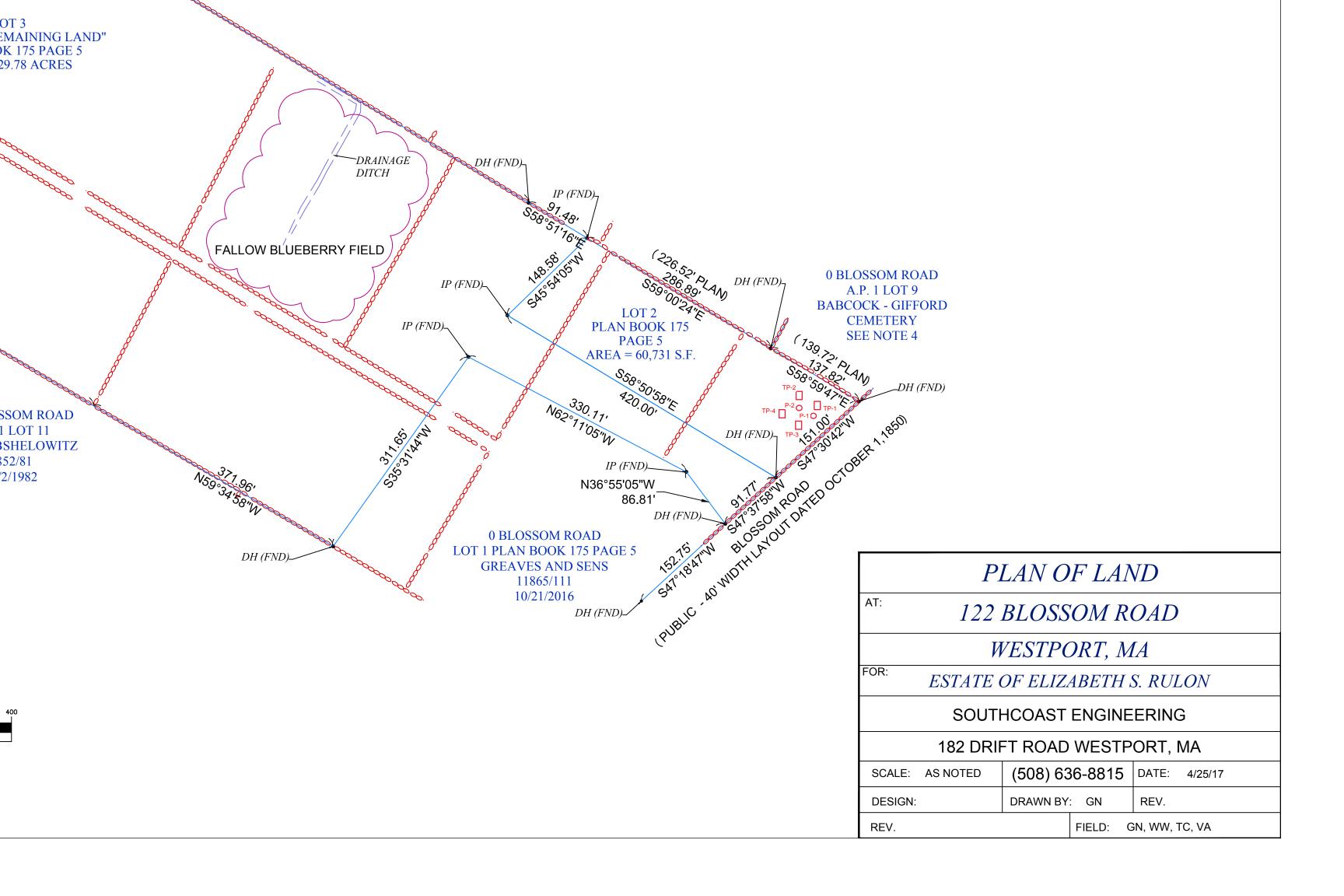


City/Town of Westport

Form 11 - Soil Suitability Assessment for On-Site Sewage Disposal

Field Diagrams

Use this sheet for field diagrams: See attached plan.





Commonwealth of Massachusetts City/Town of Westport Percolation Test Form 12

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.





Percolation test results must be submitted with the Soil Suitability Assessment for On-site Sewage Disposal. DEP has provided this form for use by local Boards of Health. Other forms may be used, but the information must be substantially the same as that provided here. Before using this form, check with the local Board of Health to determine the form they use.

st			
	MA	02790)
	State		
	Telephone Number		
1/19/18	10:00	1/19/18	10:30
Date	Time	Date	Time
TP-1		TP-2	
26 54"		26 E4"	
30-34		30-34	
10:09		10:35	
10:24		10:50	
10:24		10:50	
10:51		11:22	
11.29		12:06	
11.20		12.00	
38 mins		44 mins	
13 m.p.i.		15 m.p.i.	
Test Passed:	\boxtimes	Test Passed:	\boxtimes
Test Failed:		Test Failed:	
∐oalth			
i lealii i			
	1/19/18 Date TP-1 36-54" 10:09 10:24 10:51 11:29 38 mins 13 m.p.i.	MA State Telephone Number 1/19/18 10:00 Time TP-1 36-54" 10:09 10:24 10:51 11:29 38 mins 13 m.p.i. Test Passed: Test Failed:	MA State 02790 Zip Cod Telephone Number 1/19/18 Date TP-1 10:00 Time Date TP-2 36-54" 36-54" 10:09 10:35 10:24 10:50 10:51 11:22 11:29 12:06 38 mins 44 mins 13 m.p.i. Test Passed: Test Failed: Test Failed: Test Failed:

t5form12.doc• 08/15 Perc Test • Page 1 of 1