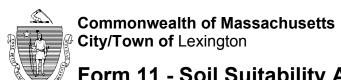


	Meridian Lexington Owner, LLC c/o John Cappella Owner Name	ino, senior vice Fie	SIUCIII, LIIICUIII P	Toperty Company			
	91 Hartwell Avenue			80// 10C//			
	Street Address			Map/Lot #			
	Lexington	MA		02421			
	City	State		Zip Code			
	•						
R	. Site Information						
, و							
1.	(Check one) New Construction U	pgrade 🗌 R	Repair				
2.	Soil Survey Available?	If yes:			NRCS	6	03
		11 you.			Source		oil Map Unit
	Urban Land, wet substratum						·
	Soil Name	Soil Limitations					
	Fill						
	Soil Parent material	Landform					
3.	Surficial Geological Report Available? ☐ Yes ☐ N	o If yes:	1958/USGS		Fine Depos	sits	
	•	•	Year Published/S	Source	Map Unit		
	Fine deposits include very fine sand, silt, and clay sand and silt	occurring as well-so	rted, thin layers	of alternating silt a	and clay (varv	es), or as thic	cker layers of very fine
1.	Flood Rate Insurance Map Within a regulat	ory floodway?	Yes 🛛 No				
	,	, , _	_				
5.	Within a velocity zone?						
3.	Within a Mapped Wetland Area? Yes	☑ No	If yes, Masso	GIS Wetland Data	Layer:		
						Wetland Type	
7.	Current Water Resource Conditions (USGS):	April 15, 2020 Month/Day/ Year		Range: 🛛 Abo	ove Normal	☐ Normal	☐ Below Normal
		Wichiti Day/ Toui					

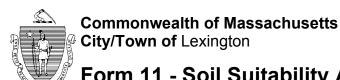


	Form	11 - Soi	l Suitabilit	y Ass	sessmer	nt for	On-Si	te Sew	age Dis _l	posal			
C. On-	Site Revi	ew (minim	um of two hole	es requi	ired at ever	у ргоро	sed prim	ary and r	eserve disp	osal area)			_
Deep	Observation	Hole Numb			6, 2020	7:15ar	m		now, 35°				
	Lawn		Hole #	Date	Grass	Time		Weather None		Latitude		Longitude: 1%	
1. Land		oodland, agricultu	ural field, vacant lot, e	etc.)	Vegetation				s (e.g., cobbles,	stones, boulder	s, etc.)	Slope (%)	-
Des	scription of Lo	-		,						·		, , ,	
	arent Materia		alluvium					SU					
2. 00111	archi Materie	<u>- 1111 OVOI C</u>	anaviam		Laı	ndform			tion on Landscap	e (SU, SH, BS,	FS, TS)		_
3. Distar	nces from:	Oper	n Water Body	fee	et	D	rainage W	ay	feet	We	tlands	<u>51</u> feet	
		i	Property Line 6	64 feet		Drinking	g Water W	/ell	feet	(Other	feet	
4. Unsuita	able Materials	s Present: 🗵] Yes \square No	If Yes:	☑ Disturbed S	Soil 🛛 I	Fill Material		Weathered/Fra	ctured Rock	□Bec	lrock	
5. Grour	ndwater Obse	erved: X Yes	s □ No		If yes	6: <u>54</u> Dep	oth Weeping	from Pit	<u>6</u>	0 Depth Standi	ing Water	in Hole	
						Soil Log	l						
Donth (in)	Soil Horizon	Soil Texture	Soil Matrix: Color-	Redo	oximorphic Fea	tures		ragments Volume	Soil Structure	Soil Consistence		Other	_
Depth (in)	/Layer	(USDA	Moist (Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	Son Structure	(Moist)		Other	
0-52	A(Fill)	Loam	10R 2.5/1				5	10	Massive	Friable	Fill lay	er from original site construction	
52-76	С	Silt Loam	Gley 2 6/5BG	56	5YR 5/6	60	2	5	Platy	Friable	Appear	rs to be wetland soil]

Donath (im)	Soil Horizon	Soil Texture	Soil Matrix: Color-	Redo	oximorphic Fea	tures		ragments Volume	Call Churchina	Soil	Othor
Depth (in)	/Layer	(USDA	Moist (Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	Soil Structure	(Moist)	Other
0-52	A(Fill)	Loam	10R 2.5/1				5	10	Massive	Friable	Fill layer from original site construction
52-76	С	Silt Loam	Gley 2 6/5BG	56	5YR 5/6	60	2	5	Platy	Friable	Appears to be wetland soil

Additional Notes:

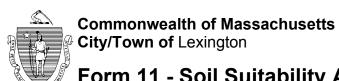
Sloughing and groundwater weeping at 54 inches, pit had filled to 60 inches before backfilling. Estimate SHGW at 54. ~ elevation 113.



400												
C. On-	Site Revi	ew (minin	num of two	holes re	equired	at every p	roposed	primary and	reserve disp	posal area)		
Deep	Observation	n Hole Numb	ber: <u>TP-2</u> Hole #	A	pril 16,			ght Snow, 35°			_	
			Hole #	20	020	Time	W	eather	Latitude			Longitude:
1. Land	Ise. Law					Grass		None				5%
i. Lana	(e.g.	, woodland, agr	icultural field, va	cant lot, etc	:.)	Vegetation		Surface Stor	nes (e.g., cobbles,	stones, boulders,	, etc.)	Slope (%)
Descr	iption of Loca	ation:										-
0 0-11 D	1 N	, Fill ove	r alluvium							SU		
2. Soli P	arent Materia	ai: ———					Landform			Position on Land	scape	(SU, SH, BS, FS, TS)
3. Distan	ces from:	Open Wate	r Body	feet		Drair	nage Way	feet	Wetla	nds <u>127</u> feet		
		Propert	ty Line 218	feet		Drinking W	/ater Well	feet	Ot	her fe	eet	
4. Unsuita	ble	·				· ·				<u> </u>		
Materia	ls Present: [🛛 Yes 🔲 I	No If Yes:	□ Distu	rbed Soil		erial	☐ Weathered/	Fractured Rock	☐ Bedrock		
5 Groun	dwater Obse	erved X Ye	s 🗌 No			ı	lf ves:	Depth Weepin	a from Pit	26" Depth Star	ndina \	Nater in Hole
							-		g	<u>=</u> 20pa: 01a.		
	1	1	I	1		So	il Log		1		1	
	Soil Horizon	Soil Texture	Soil Matrix:	Redo	ximorphic	Features		Fragments Volume		Soil		
Depth (in)	/Layer	(USDA)	Color-Moist (Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	Soil Structure	Consistence (Moist)		Other
0-24	A (Fill)	Loam	10R 2.5/1				5	10	Massive	Friable	Fill I	ayer from original site construction
24-26	В	Silt Loam	10YR 5/6				20		Massive	Friable		
	1]		1	I				l .		1	
V =1=1:T:	I NI - 4											

Additional Notes:

B Layer on the edge of Loam/Silt Loam. Unable to dig deeper due to groundwater conditions. SHGW estimated at 26" ~ elevation 115.6.

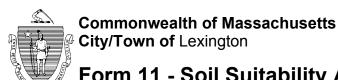


	Form	11 - 501	i Suitabilit	y Ass	sessmer	it for	On-51	te Sew	age Dis	posai		
C. On-	Site Revi	ew (minim	um of two hole	es requi	red at ever	y propo	sed prim	ary and r	eserve disp	osal area)		
Deep	Observation	Hole Numb			6, 2020	8:05ar	m		now, 35°			
	Lawn		Hole #	Date	Grass	Time	1	Weather None		Latitude		Longitude: 1%
I. Land		oodland, agricultu	ural field, vacant lot, e	tc.)	Vegetation				es (e.g., cobbles,	stones, boulder	rs, etc.)	Slope (%)
De	scription of Lo	cation:										,
2. Soil F	Parent Materia	al: Fill over a	alluvium					SU				
		<u></u>			Lar	ndform			tion on Landscap	e (SU, SH, BS,	FS, TS)	
3. Dista	nces from:	Oper	n Water Body	fee	et	D	rainage W	ay	feet	We	tlands	<u>35</u> feet
		I	Property Line 1	63 feet		Drinking	g Water W	ell	feet	(Other	feet
I. Unsuita	able Materials	s Present: 🗵	Yes No	If Yes:	☑ Disturbed S	Soil 🛛 I	Fill Material		Weathered/Fra	ctured Rock	☐ Bed	drock
5. Groui	ndwater Obse	erved: X Yes	s □ No		If yes	:: <u></u> Depti	h Weeping fr	om Pit	<u>2</u>	4" Depth Stand	ding Wate	er in Hole
						Soil Log						
Danth (in)	Soil Horizon	Soil Texture	Soil Matrix: Color-	Redo	oximorphic Fea	tures		ragments Volume	Call Ctm. atum	Soil		Other
Depth (in)	/Layer	(USDA	Moist (Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	Soil Structure	Consistence (Moist)		Other
0-~36	A(Fill)	Loam	10R 2.5/1				5	10	Massive	Friable	Fill lay	rer from original site construction
	1								1		Similar	to material found in

Donth (in)	Soil Horizon	Soil Texture	Soil Matrix: Color-	Red	oximorphic Fea	tures		Fragments Volume	Soil Structure	Soil	Other
Depth (in)	/Layer	(USDA	Moist (Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	Son Structure	Consistence (Moist)	Other
0-~36	A(Fill)	Loam	10R 2.5/1				5	10	Massive	Friable	Fill layer from original site construction
~36-39	В	Silt Loam	10YR5/6				20	0	Massive	Friable	Similar to material found in TP-2 B Layer

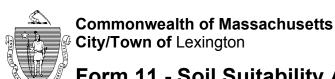
Additional Notes:

Estimated bottom of A layer from material in bucket. Unable to observe B layer in-situ as water was above it. Estimate SHGW at 24" ~elevation 116.7



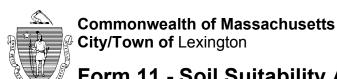
Observatior	า Hole Numi	oer: 1P-4	Αı	oril 16,	8:35am	O۱	/ercast, 35°			
		Hole #	20		Time			Latitude		Longitude:
							None			1%
(e.g.	, woodland, agr	icultural field, va	cant lot, etc	Ve	getation		Surface Stor	nes (e.g., cobbles,	stones, boulders,	etc.) Slope (%)
ption of Loca	ation:									
arant Mataria	. Fill ove	r alluvium							SU	
arent Materia	ai. ———					Landform			Position on Land	scape (SU, SH, BS, FS, TS)
ces from:	Open Wate	r Body	feet		Drain	age Way	feet	Wetla	nds <u>48</u> feet	
	Propert	v Line 92 f	eet	I	Drinking W	ater Well	feet	Ot	her fe	et
	·	<u> </u>			_					
s Present: [🛛 Yes 🗌 I	No If Yes:	□ Distu	rbed Soil		erial	☐ Weathered/	Fractured Rock	☐ Bedrock	
dwater Obse	erved: 🛛 Ye	s 🗌 No			Ī	f yes: <u>48"</u> เ	Depth Weeping fro	om Pit	50" Depth Star	nding Water in Hole
					So	il Log				
Soil Horizon	Soil Texture	Soil Matrix:	Redo	ximorphic Fe	eatures			Sail Structure	Soil	Other
/Layer	(USDA)	Color-Moist (Munsell)	Depth	Color	Percent	Gravel	Cobbles & Stones	Son Structure	(Moist)	
A (Fill)	Loam	10R 2.5/1				5	10	Massive	Friable	Fill layer from original site construction
В	Silt Loam	10YR 5/3	54	5YR4/6	50	2	5	Platy	Friable	
i	Jse: Law (e.g. ption of Local arent Material ces from: ble s Present: [adwater Observation of Local A (Fill)]	Jse: Lawn (e.g., woodland, agrillation of Location: arent Material: Fill over ces from: Open Wate Propertials ble s Present: Yes Usen Ves dwater Observed: Yes Soil Horizon /Layer (USDA) A (Fill) Loam	Jse: Lawn (e.g., woodland, agricultural field, value) ption of Location: arent Material: Ces from: Open Water Body Property Line 92 field ble Is Present: Yes No If Yes: dwater Observed: Yes No Soil Horizon /Layer Soil Texture (USDA) Soil Matrix: Color-Moist (Munsell) A (Fill) Loam 10R 2.5/1	Jse: Lawn Jse: Lawn Ge.g., woodland, agricultural field, vacant lot, etc.	Jse: Lawn (e.g., woodland, agricultural field, vacant lot, etc.) ption of Location: arent Material: Ces from: Open Water Body feet Property Line 92 feet ble S Present: Yes No If Yes: Disturbed Soil dwater Observed: Yes No Soil Horizon /Layer (USDA) Soil Texture (USDA) Soil Matrix: Color-Moist (Munsell) Color A (Fill) Loam 10R 2.5/1	Jse: Lawn Grass Grass	Jse: Lawn	Lawn Grass None Surface Store Surfac	Secondary Seco	Lawn Grass None Surface Stones (e.g., cobbles, stones, boulders, position of Location: arent Material: Fill over alluvium Eandform Fill over alluvium Eandform Position on Landsces from: Open Water Body feet Drainage Way feet Other feet Septemble Fresent: Yes No If Yes: Disturbed Soil Fill Material Weathered/Fractured Rock Bedrock dwater Observed: Yes No If Yes: Disturbed Soil Fill Material Weathered/Fractured Rock Bedrock Soil Log Soil Texture (USDA) Soil Matrix: Color-Moist (Munsell) Depth Color Percent Gravel Cobbles & Stones Soil Structure Soil Structure Consistence (Moist) Consistence (Moist) Color Percent Gravel Cobbles & Stones Friable Friable Color Friable Color Friable Color Friable Color Friable Color Color

Unable to dig deeper due to groundwater conditions. SHGW estimated at 48" ~ elevation 115.1.



D. Determination of High Groundwater Elevation

1.	Method Used:	Obs. Hole #TP-1	Obs. Hole #TP-2	
	Depth observed standing water in observation hole	60 inches	24 inches	
	Depth weeping from side of observation hole	54 inches	24 inches	
	Depth to soil redoximorphic features (mottles)	56 inches	inches	
	Depth to adjusted seasonal high groundwater (S _h) (USGS methodology)	inches	inches	
	Index Well Number Reading Date			
	$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$			
	Obs. Hole/Well# S _c S _r	OW _c	OW _{max} OW _r	S _h
2. E	stimated Depth to High Groundwater: inches			
Ε.	Depth of Pervious Material			
1.	Depth of Naturally Occurring Pervious Material			
	 Does at least four feet of naturally occurring pervious material e system? 	exist in all areas observed	throughout the area proposed	for the soil absorption
	☐ Yes ☐ No			
	o. If yes, at what depth was it observed (exclude A and O Horizons)?	Upper boundary:	Lower boundary:	inches
	c. If no, at what depth was impervious material observed?	Upper boundary:	Lower boundary:	
			inches	inches



D. Determination of High Groundwater Elevation

1.	Method Used: Depth observed standing water in observation hole Depth weeping from side of observation hole Depth to soil redoximorphic features (mottles)	e	Obs. Hole #TP-3 24 inches inches inches	<u>5</u>	Obs. Hole # <u>TP-4</u> 50 inches 18 inches - inches	
	$S_h = S_c - [S_r \times (OW_c - OW_{max})/OW_r]$	ading Date	inches	OW _{max}	<u>-</u> inches - OWr	Sh
	stimated Depth to High Groundwater: inches Depth of Pervious Material	OI		OVVIII ax		
1.	Depth of Naturally Occurring Pervious Material a. Does at least four feet of naturally occurring pervio	ous material exis	st in all areas observed	l throughou	it the area proposed for	the soil absorption
	system?			3.0		
	b. If yes, at what depth was it observed (exclude A ar Horizons)?c. If no, at what depth was impervious material obser		Upper boundary: Upper boundary:	inches	Lower boundary:	inches
				11101103		IIIOIICO



F. Certification

I certify that I am currently approved by the Department of Environmental Protection pursuant to 310 CMR 15.017 to conduct soil evaluations and that the above analysis has been performed by me consistent with the required training, expertise and experience described in 310 CMR 15.017. I further certify that the results of my soil evaluation, as indicated in the attached Soil Evaluation Form, are accurate and in accordance with 310 CMR 15.100 through 15.107.

Clin Horly	April 16, 2020
Signature of Soil Evaluator	Date
Chris Hodney, PE, 13687	6/30/2022
Typed or Printed Name of Soil Evaluator / License #	Expiration Date of License
Name of Approving Authority Witness	Approving Authority

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>.

Field Diagrams: Use this area for field diagrams: