Location:

6 Tennent Road

Block 123, Lot 33

Marlboro, New Jersey

Date:

July 1, 2020

Soil log 1

0"-8"

Organic layer/Topsoil

8" - 72"

Loamy sand, strong brown (7.5YR 4/6), single grain, loose, moist

72" - 114"

Loamy sand, very pale brown (10YR 7/3), single grain, loose, moist with light

grey (10YR 7/1) mottles at 78"

No ground water encountered Seaonsal high water table encountered at 78"

Soil log 2

0"-8"

Organic layer/Topsoil

8" - 60"

Loamy sand, strong brown (7.5YR 4/6), single grain, loose, moist

60" - 120"

Loamy sand, very pale brown (10YR 7/3), single grain, loose, moist with light

grey (10YR 7/1) mottles at 84"

No ground water encountered Seaonsal high water table encountered at 84"

Soil log 3

0"-12"

Organic layer/Topsoil

12" - 108"

Loamy sand, yellowish brown (10YR 7/6), single grain, loose, moist with light

grey (10YR 7/1) mottles at 78"

No ground water encountered

Seaonsal high water table encountered at 78"

Soil log 4

0"-18" Organic layer/Topsoil

12" - 114" Loamy sand, yellowish brown (10YR 7/6), single grain, loose, moist with light grey (10YR 7/1) mottles at 84"

No ground water encountered Seaonsal high water table encountered at 84"

Soil log 5

0"-14" Organic layer/Topsoil

14" - 108" Loamy sand, yellowish brown (10YR 7/6), single grain, loose, moist with light

grey (10YR 7/1) mottles at 80"

No ground water encountered Seaonsal high water table encountered at 80"

Soil log 6

0"-14" Organic layer/Topsoil

14" - 108" Loamy sand, yellowish brown (10YR 7/6), single grain, loose, moist with light

grey (10YR 7/1) mottles at 78"

No ground water encountered Seaonsal high water table encountered at 78"

Cara L. Smith, P.E. Lic. 37929



1,111, 12-4	1 une Ferineameter 1 est Data
Lot: _	33 Block: 123 50il 60#1
1.	Test Number: Number: Replicate (letter): A+B Date collected: 7-1-20
2.,	Material Tested: Fill: Tested in native soil: Indicate Depth:
3.	Type of Sample: Undisturbed: Disturbed:
4.	Sample dimensions: Inside radius of sample tube, R, in cm 0.75 Length of sample, L, in inches
5.	Bulk density determination (disturbed samples only): ν \uparrow Sample weight (wt. tube containing sample-wt. of empty tube), grams Sample volume (L x 2.54cm./inch x 2.24 ²), cc Bulk density (sample Wt./Sample Volume), grams/cc
6.	Standpipe used: No: Yes: Indicate internal radius, cm:
7.	Height of water level above rim of test basin, in inches: At the beginning of each test interval, H1 3 At the end of each test interval, H2 3 At the end of each test interval, H2 3
8.	Rate of water level drop (add additional lines if needed):
	Time, start of test interval, t1 Time, end of test, interval t2 Length of test interval, t, minutes
	2 min
	1.00 0.
	Calculation of permeability: K, (in/hr) = 60 min/hr x r^2/R^2 x L(in)/t(min) x in (H1/H2) = 60 min/hr x / x 3 / 5 x in (3 / 2.135) = 12.41 in/hr Defects in the Sample (Check appropriate items): None Cracks Worm Channels Root Channels Soil/Tube Contact Large Gravel Large Roots Dry Soil Smearing Compaction
	Other (specify):
acci and Sign	I hereby certify that the information furnished on Form 3b of this application (and the attachments thereto) is true and arrate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) is subject to penalties as prescribed in N.J.A.C. 7:14-8. The particular of Soil Evaluator: Date: 7-1-30 License #: 37939
County:	Municipality:



ot: _	33 Block:	123	i wa wa wa wa		
1.	Test Number: 501 6 # 2	Replicate (letter):	1+ B Da	te collected: 7-1-	90
2.		ll: Tested in nati			
3.	Type of Sample: Ur	ndisturbed:	Disturbed:		
4.	Sample dimensions: Inside rac	dius of sample tube, R, in cm	Length of sample	e, L, in inches 3	
5.	Sample weight (wt. tube con	taining sample-wt. of empty tube ./inch x 2.24 ²), cc), grams		
6.	Standpipe used: No:	Yes: Indic	cate internal radius,	cm:	
7.	Height of water level above rin At the beginning of each test At the end of each test interv	interval, H1 3 "			
8.	Rate of water level drop (add a	dditional lines if needed):			On A
	Time, start of test interval, t1	Time, end of test, interval to		st interval, t, minutes	1.10
	Defects in the Sample (Check a		m Channels	evinlar Bainlar	
	Other (specify):				



		Adde a comedimental fest bath							
Lot	:	3 Block: 123							
	1.	Test Number: Soil o #3 Replicate (letter): A+B Date collected: 7-1-20							
	2./	Material Tested: Fill: Tested in native soil: Indicate Depth:							
	3.	Type of Sample: Undisturbed: Disturbed:							
	4.	Sample dimensions: Inside radius of sample tube, R, in cm 6.75 Length of sample, L, in inches 3							
	5.	Bulk density determination (disturbed samples only): Sample weight (wt. tube containing sample-wt. of empty tube), grams Sample volume (L x 2.54cm./inch x 2.24 ²), cc Bulk density (sample Wt./Sample Volume), grams/cc							
	6.	Standpipe used: No: Yes: Indicate internal radius, cm:							
	7.	7. Height of water level above rim of test basin, in inches: At the beginning of each test interval, H1 At the end of each test interval, H2 1. 75							
	8.	Rate of water level drop (add additional lines if needed):							
		Time, start of test interval, t1 Time, end of test, interval t2 Length of test interval, t, minutes 5 min 1.25 1.25							
		Calculation of permeability: K, (in/hr) = 60 min/hr x r²/R² x L(in)/t(min) x in (H1/H2) = 60 min/hr x / x 3 / 5 x in (3 /1.75) = 15.40 why Defects in the Sample (Check appropriate items): None Cracks Worm Channels Root Channels Soil/Tube Contact Large Gravel Large Roots Dry Soil Smearing Compaction							
		Other (specify):							
	accu	I hereby certify that the information furnished on Form 3b of this application (and the attachments thereto) is true and trate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) is subject to penalties as prescribed in N.J.A.C. 7:14-8.							
		ature of Soil Evaluator: Date: 7-1-20 License #: 37939							
our	ity:	Municipality:							



t:	33 Block: 12	.3			
1.	Test Number: Soil los #4	Replicate (letter):	A+B D	ate collected: 7-1-3	26
2.,	Material Tested: Fill:	Tested in	native soil:	Indicate Depth: 72	
3.	Type of Sample: Undi	sturbed:	Disturbed:		
4.	Sample dimensions: Inside radiu	as of sample tube, R, in cm	را <u>2.75</u> Length of sampl	_	
5.	Bulk density determination (distributed Sample weight (wt. tube contains Sample volume (L x 2.54cm./in Bulk density (sample Wt./Sam	ining sample-wt. of empty nch x 2.24 ²), cc			
6.	Standpipe used: No: _	Yes:	Indicate internal radius,	cm:	
7.	Height of water level above rim of At the beginning of each test in At the end of each test interval	iterval, H1 3	и		
8.	Rate of water level drop (add add	itional lines if needed):			Orp
Ţ.	Γime, start of test interval, t1	Time, end of test, interv	val t2 Length of to	est interval, t, minutes	1. 25 4
		THE STATE OF THE S			1.00
			ant caracteria de transce en esta en el 🏶 en en en respector en entre en esta el la compansa de la compansa de trans		- I
					135
					1.00
	Calculation of permeability: K, (in/hr) = 60 min/hr x r²/R² x = 60 min/hr x / ;	L(in)/t(min) x in (H1/H2) x 3 /5 x in 3			1.35
	Calculation of permeability: K, (in/hr) = 60 min/hr x r²/R² x = 60 min/hr x Defects in the Sample (Check ap	L(in)/t(min) x in (H1/H2) $x = \frac{3}{3} / \frac{5}{5} x$ in $\frac{3}{5}$ propriate items):	11.75) = 19		1.00
	Calculation of permeability: K, (in/hr) = 60 min/hr x r²/R² x = 60 min/hr x / : Defects in the Sample (Check ap None Root Channels	L(in)/t(min) x in (H1/H2) x = 3 / 5 x in (3) 3 / 5 x [w(2) propriate items): Cracks Soil/Tube Contact			1.35
10.	Calculation of permeability: K, (in/hr) = 60 min/hr x r²/R² x = 60 min/hr x Defects in the Sample (Check ap None Root Channels Large Gravel	L(in)/t(min) x in (H1/H2) x 3 / 5 x in (3) propriate items): Cracks Soil/Tube Contact Large Roots	11.75) = 19		1.33
10. 11. accu	Calculation of permeability: K, (in/hr) = 60 min/hr x r²/R² x = 60 min/hr x Defects in the Sample (Check ap None Root Channels Large Gravel Dry Soil	L(in)/t(min) x in (H1/H2) x 3 / 5 x in (3) propriate items): Cracks Soil/Tube Contact Large Roots Smearing on furnished on Form 3b or of data is a violation of the	(1.75) = 19 $(1.75) = 16.6$ Worm Channels Compaction f this application (and the	e attachments thereto) is tru	



Lot:	33 Block: 123
1.	Test Number: Sail 65 #5 Replicate (letter): A+B Date collected: 7-1-20
2.,	Material Tested: Fill: Tested in native soil: Indicate Depth:
3.	Type of Sample: Undisturbed: Disturbed:
4.	Sample dimensions: Inside radius of sample tube, R, in cm Length of sample, L, in inches 3
5.	Bulk density determination (disturbed samples only): W/A Sample weight (wt. tube containing sample-wt. of empty tube), grams Sample volume (L x 2.54cm./inch x 2.24 ²), cc Bulk density (sample Wt./Sample Volume), grams/cc
6.	Standpipe used: No: Ves: Indicate internal radius, cm:
7.	Height of water level above rim of test basin, in inches: At the beginning of each test interval, H1 3'' At the end of each test interval, H2 1.75"+ 1.625
8.	Rate of water level drop (add additional lines if needed):
T	Time, start of test interval, t1 Time, end of test, interval t2 Length of test interval, t, minutes 5 mm 1.375 1.375 1.375
10.	Calculation of permeability: K, (in/hr) = 60 min/hr x r^2/R^2 x $L(in)/t(min)$ x in (H1/H2) = 60 min/hr x $ / $
accur ; and i	I hereby certify that the information furnished on Form 3b of this application (and the attachments thereto) is true and rate. I am aware that falsification of data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) is subject to penalties as prescribed in N.J.A.C. 7:14-8. ature of Soil Evaluator: Date: 7-1-20 License #: 37939
County: _	Municipality:



Lo	ot:	33	Block:	123		8					
	1.	Test Number: ≤	50:1/05	#6	Replicate (letter):	A+B	Da	te collected:	1-1-2	0	
	2./	Material Tested:		Fill:	Tested i	n native soil:		Indicate Depth	: 72		
	3.	Type of Sample:		Undisturbe	d:	*	Disturbed: _		ſ¢		
	4.	Sample dimension	ns: Inside	radius of sa	mple tube, R, in cn	n o.75 Leng	gth of sample	, L, in inches	3		
	5.	Sample weight Sample volume	(wt. tube of the (L x 2.54)	containing s cm./inch x 2	amples only): ω ample-wt. of empty 2.24 ²), cclume), grams/cc	1 VA tube), gram: —	S				
	6.	Standpipe used:	N	o:	Yes:	Indicate into	ernal radius,	om:			
	7.	Height of water le At the beginning At the end of ea	g of each	test interval,	H1 3						
	8.	Rate of water leve	el drop (ad	d additional	lines if needed):					Prop	: n Fine
						st interval, t, minu	utes	1.0	1.0		
			17 TO 17 TO 18 TO				5)				1
										1.0	1.0
		Calculation of periods K, (in/hr) = 60 m = 60 min/hr x	meability: nin/hr x r²/ _ nple (Che	/R ² x L(in)/t	(min) x in (H1/H2) / x in (3 te items):	り Worm Chan		o inlar	eto ostori prioritate	ŧ	
		Large Grav Dry Soil Other (specify):	_	Large : Smear		Compaction	1.	vi vi			
;	accu	I hereby certify that trate. I am aware the is subject to penalt	hat falsific	ation of data	ished on Form 3b on is a violation of the J.A.C. 7:14-8.	of this application of the Water Poll	ation (and the lution Contro	attachments there l Act (N.J.S.A. 58:	eto) is true :10A-1 et	and seq.)	
		ature of Soil Evalu ature of Profession		er:		38	2	Date: 7 License #: 3	1-20 7929	2	
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