	E&LP			140 V High T : 90 Clinton	West Main Street Bridge, NJ 08829)8.238.0544 F: 908.238.9572 Asbury Park Denville Philadelp
Martin			40		_
	Clinton	BIOCK:	18	_Lot:	5
Soil Log and Interp	pretation				
1 Soil Log #: 2 Log:	SL-1 Date of Soil Log: <u>12</u>	/ <u>22/20_</u> Method:	Profile	e Pit	
Depth (inches) 0 - 11"	Munsell Color Name & Sym Fragments; Structure; Cons Topsoil	ibol; Estimated Text sistence; Mottling Ab	ural Class; bundance, S	Estimated Size and Co	Volume % Coarse ontrast
11 - 48"	7.5YR 5/6; Loam Sand Coarse, Prominent; SA	; 5% Gravel; Mot B, Moist, Friable	tling @ 4	6-66" 7.5	YR4/2 in Color, Many,
/8 - 120"	7 5YR 4/4 [.] Sandy Clay	Loam: 5% Grav	el 2% Co	bble 1%	Stone SAB Moist Fr
3 Ground Water Seepage Pit Flood	Observations: e Observed - Depth (inches): ded - Depth (inches):	afterhours	of observa	tion	
3 Ground Water Seepage Pit Flood 4 Soil Limiting Z Fr. Ma Ex Ex Ex Hy Hy Pe Re	Observations: Observed - Depth (inches): ded - Depth (inches): ones (Check ALL applicable ca actured Rock Substratum - Dept assive Rock Substratum - Dept cessively Coarse Horizon - Dept cessively Coarse Substratum - vdraulically Restrictive Horizon - rdraulically Restrictive Substratu erched Zone of Saturation - Dept agional Zone of Saturation - Dept	after hours tegories): oth to Top: h to Top: oth Top to Bottom: Depth to Top: Depth Top to Botto um - Depth to Top: oth Top to Bottom: oth Top to Bottom: oth to Top:	of observa	tion	
3 Ground Water Seepage Pit Flood 4 Soil Limiting Z 4 Soil Limiting Z 5 I hereby certify falsification of subject to pen- Signature of S	Observations: a Observed - Depth (inches): ded - Depth (inches): ones (Check ALL applicable ca actured Rock Substratum - Dept assive Rock Substratum - Dept assive Rock Substratum - Dept cessively Coarse Horizon - Dep accessively Coarse Substratum - vdraulically Restrictive Horizon - vdraulically Restrictive Substrature erched Zone of Saturation - Dep agional Zone of Saturation - Dep action of Saturation - Dep action of Saturation - Dep action of the Water alties as prescribed in N.J.A.C. ite Evaluator:	afterhours tegories): oth to Top: h to Top: oth Top to Bottom: Depth to Top: Depth Top to Botto um - Depth to Top: oth Top to Bottom: oth Top to Bottom: oth to Top: oth to Top: on this form is true a Pollution Control Ac 7:14-8.	of observa	tion e. I am aw 58:10A-1 e e: 12/22	are that t seq.) and is

<u>Clinton</u>	Rlock			
Clinton	Block			
etation	DIUCK.	<u>18</u> Lot:	5	
<u>L-2</u> Date of Soil Log: <u>12/2</u>	2/20 Method:	Profile Pit	-	
Munsell Color Name & Symbo Fragments; Structure; Consis Topsoil	ol; Estimated Textu stence; Mottling Abu	ral Class; Estima Indance, Size and	ted Volume % Coarse d Contrast	
7.5YR 4/4; Sandy Clay;	5% Gravel, 5% (Cobble, 2% St	one; SAB, Moist, Friab	le
7.5YR 3/4; Sandy Clay; ² Machine Refusal @ 106'	10% Gravel, 209	% Cobble, 30%	6 Stone; SAB, Saturate	ed, Friable;
Observations: Observed - Depth (inches): d - Depth (inches): mes (Check ALL applicable cate ctured Rock Substratum - Depth sive Rock Substratum - Depth essively Coarse Horizon - Depth essively Coarse Substratum - D raulically Restrictive Horizon - D raulically Restrictive Substratun ched Zone of Saturation - Depth ional Zone of Saturation - Depth	after hours gories): n to Top: <u>50"</u> to Top: h Top to Bottom: Depth to Top: Depth Top to Bottom n - Depth to Top: n Top to Bottom: h to Top:	of observation		
hat the information furnished or ata is a violation of the Water Po ies as prescribed in N.J.A.C. 7:	n this form is true ar ollution Control Act 14-8.	nd accurate. I am (N.J.S.A. 58:10A	a aware that -1 et seq.) and is 12/20/2020	
	Observations: Observed - Depth (inches): d - Depth (inches): mes (Check ALL applicable cate ctured Rock Substratum - Depth sive Rock Substratum - Depth essively Coarse Horizon - Depth essively Coarse Substratum - D raulically Restrictive Horizon - D raulically Restrictive Substratum ched Zone of Saturation - Depth ional Zone - D	Observations: Observed - Depth (inches): d - Depth (inches): after	Observations: Observed - Depth (inches): d - Depth (inches): gatter	Observations: Observed - Depth (inches): d - Depth (inches):

	140 West Main Street High Bridge, NJ 08829 T: 908.238.0544 F: 908.238.9572 Clinton Asbury Park Denville Philadelp
Municipality:	Clinton Block: 18 Lot: 5
Soil Log and Interp	pretation
1 Soil Log #: 2 Log:	SL-3 Date of Soil Log: <u>12/22/20</u> Method: Profile Pit
Depth (inches)	Munsell Color Name & Symbol; Estimated Textural Class; Estimated Volume % Coarse Fragments; Structure; Consistence; Mottling Abundance, Size and Contrast
0 - 8"	Topsoil
8 - 68"	7.5YR 5/6; Sandy Loam; 2% Gravel; SAB, Moist, Friable; Seepage @ 33"
68 - 120"	7.5YR 4/4; Sandy Clay Loam; 5% Gravel, 5% Cobble, 2% Stone; Mottling @ 76-78 7.5YR 5/8 in Color, Common, Medium, Distinct; SAB, Moist, F
3 Ground Water Seepage Pit Floor	r Observations: ge Observed - Depth (inches): <u>33"</u> oded - Depth (inches): after hours of observation
4 Soil Limiting Z Fr M E	Zones (Check ALL applicable categories): ractured Rock Substratum - Depth to Top: lassive Rock Substratum - Depth to Top: excessively Coarse Horizon - Depth Top to Bottom:
E> H H	xcessively Coarse Substratum - Depth to Top: lydraulically Restrictive Horizon - Depth Top to Bottom: lydraulically Restrictive Substratum - Depth to Top: 'erched Zone of Saturation - Depth Top to Bottom:
R	egional Zone of Saturation - Depth to Top:
⁵ I hereby certify falsification of subject to pen	fy that the information furnished on this form is true and accurate. I am aware that f data is a violation of the Water Pollution Control Act (N.J.S.A. 58:10A-1 et seq.) and is nalties as prescribed in N.J.A.C. 7:14-8.

	E&LP	140 West Main Street High Bridge, NJ 08829 T: 908.238.0544 F: 908.238.9572 Clinton Asbury Park Denville Philadel
Municipality:	Clinton Block:	18Lot:5
Soil Log and Interp	pretation	
1 Soil Log #: 2 Log:	SL-4 Date of Soil Log: <u>12/22/20</u> Method:	Profile Pit
Depth (inches)	Munsell Color Name & Symbol; Estimated Tex Fragments; Structure; Consistence; Mottling A	atural Class; Estimated Volume % Coarse
0 - 7"	Topsoil	
7 - 56"	7.5YR 5/6; Sandy Loam; 5% Gravel, 10	0% Cobble, 5% Stone; SAB, Moist, Friat
56 - 120"	7.5YR 5/8; Sandy Clay Loam; 10% Gra Mottling @ 67-78 10YR 5/8 in Color, M	avel, 20% Cobble, 15% Stone; lany, Coarse, Prominent; SAB, Moist, Fri
3 Ground Water Seepag Pit Flood 4 Soil Limiting Z Fr M Ex Ex Ex Ex H H H H H	Observations: e Observed - Depth (inches): ded - Depth (inches):afterhour ones (Check ALL applicable categories): actured Rock Substratum - Depth to Top: assive Rock Substratum - Depth to Top: ccessively Coarse Horizon - Depth Top to Bottom: accessively Coarse Substratum - Depth to Top: ydraulically Restrictive Horizon - Depth Top to Bottom: ydraulically Restrictive Substratum - Depth to Top: erched Zone of Saturation - Depth Top to Bottom:	s of observation
⁵ I hereby certify falsification of subject to pen Signature of S Signature and	y that the information furnished on this form is true data is a violation of the Water Pollution Control A alties as prescribed in N.J.A.C. 7:14-8. Seal of Professional Engineer:	and accurate. I am aware that ct (N.J.S.A. 58:10A-1 et seq.) and is 12/20/2020 Date:



License #: 24GB04258200

Date:

140 West Main Street High Bridge, NJ 08829 T: 908.238.0544 F: 908.238.9572 Clinton Asbury Park Denville Philadelphia

/lunicipality:	Clinton	Block:	18Lot:	5
Soil Log and Inte	rpretation			
1 Soil Log #: _ 2 Log:	SL-5 Date of Soil Log:	12/22/20 Method:	Profile Pit	
Depth (inches)	Munsell Color Name & S Fragments; Structure; C	Symbol; Estimated Text consistence; Mottling Ab	ural Class; Estimated V oundance, Size and Cor	olume % Coarse htrast
0 - 7"	Topsoil			
7 - 45"	7.5YR 4/4; Clay Loa	m; 10% Gravel; SA	B, Moist, Friable	
45 - 120"	7.5YR 5/4; Clay Loa	m; 15% Gravel, 10 ⁰	% Cobble, 5% Ston	e; SAB, Moist, Friable
3 Ground Wat	er Observations:).		
Pit Flo	oded - Depth (inches):	afterhours	of observation	
4 Soil Limiting	Zones (Check ALL applicable	e categories):		
	Practured Rock Substratum - Massive Rock Substratum - D	pepth to Top:	_	
	Excessively Coarse Horizon -	Depth Top to Bottom:		
	Excessively Coarse Substratu	im - Deptn to Top: on - Depth Top to Botto		
	Hydraulically Restrictive Subs	tratum - Depth to Top:		
	Perched Zone of Saturation -	Depth Top to Bottom:		
	Regional Zone of Saturation -	Depth to Top:	-	
-				
⁵ I hereby cert falsification	tify that the information furnish of data is a violation of the Wa	ed on this form is true a ter Pollution Control Ac	and accurate. I am awa	re that seg) and is
subject to pe	enalties as prescribed in N.J.A	.C. 7:14-8.		
Signature of	Site Evaluator:	$1 \sqrt{n}$	Date:	12/20/2020
Signature ar	d Seal of Professional Engine	er:		

APPLICATION FOR PERMIT TO CONSTRUCT/ALTER
AN INDIVIDUAL SUBSURFACE SEWAGE DISPOSAL SYSTEM

E&LP

	AN INDIVIDUA	L SUBSURFACE	SEWAG	E DISF	OSAL SYSTE	:M
Municipality:	Clinton		Block:	18	Lot:	5
Form 3g - Ba	sin Flooding Test [Data				
1 Test #	BF-1	Reference Soil Log	SL	-2	Date Tested	12/22/20
2 Depth of	vit (ft) <u>8.83</u>					
3 Area of pi	t (ft ²) <u>50</u>					
4 Description	n of rock substratur	n within test zone: Stone			-	
Name of I	ormation				-	
Average F	racture Spacing				_	
Type of Fr	actures					
0	ɔen (wide), clean - w	vidth of openings (m	m)		_	
<u> </u>	pen (wide), infilled v	vith fines - width of o	opening (m	ım)		
Ti	ght (closed)					
Orientatio	on of Fractures:					
H	orizontal (parallel to	pit bottom) or near	ly so			
<u> </u>	clined					
Ve	ertical (parallel to sig	les of pit) or nearly s	50			
Hardness	of Rock:					
Ri	ppable with hand to	ols				
<u>X</u> N	ot rippable with han	d tools, rippable by	machine			
N	ot rippable by machi	ne				
5 Time/Dat	e of 1st basin floodir	ng <u>11:03 am</u>	<u>12/22</u> V	olume of	water added, gal	. 375
6 Result of	Lst basin flooding:					
х Ва	sin drained within 2	4 hours - indicate ti	me/date		11:50 am 12	/22
Ba	sin not drained with	nin 24 hours				
7 Time/Dat	e of 2nd basin floodi	^{ng} <u>12:00 pm</u>	<u>12/22</u> V	olume of	water added, gal	375
8 Result of	2nd basin flooding:					
<u> </u>	isin drained within 2	4 hours - indicate ti	me/date		12:45 pm 12	2/22
Ba	isin not drained with	nin 24 hours				
9 I hereby c	ertify that the information	ation furnished on Fo	orm 3g of th	nis applica	ation (and the atta	achments thereto)
(N.J.S.A.	58:10A-1 et seq.) an	d is subject to penalt	ies as pres	scribed in	N.J.A.C. 7:14-8.	
Signature of S	ite Evaluator	MA.	$1 \rho $	Da	te	
Signature and	Seal of Professiona	I Engineer	MA			
License #	24GB042582		\mathcal{O}	Da	te	

	Engi	neering &	Land Plar	ning Associa	tes
Project: Location: Test By:	1	Puleo Interna 13 Moebus Place Joey McGir	tional e, Clinton nis	Date: Sample:	12/22/2020 IN PLACE SL-1 @ 48"
				Distu	urbed
L=	6.000	T1=	186	Tube Weight	734
H1=	6.000	T2=	187	Gross Weight	1,074
H2=	5.000	T3=	186	Net Weight	340
r=	1.000	T4=	187		
R=	1.000	T5=	188	Sample Vol. (in ³)	18.84
		T(sec.)=	188	(cm³)	308.7876
		I (min.)=	3.13	Bulk Density	1.101080484
					min. 1.2 gr/cm ³
Soil Permeability:			<u>20.95</u>		
Soil Class:		<u>K5</u>			

$$K(in/hr) = 60 \min/hr \times \frac{L(in)}{T(\min)} \times \frac{r^2}{R^2} \times \ln\left(\frac{H_1}{H_2}\right) \quad \text{[Equation 4]}$$

- K = permeability of the soil sample, in inches per hour;
- L = length of the soil core, in inches;
- T = time required for the water level to drop from H₁ to H₂ during the final test interval, in minutes,;
- r = radius of the standpipe, in centimeters or inches;
- R = radius of the soil core, in the same units as "r";
- H₁ = height of the water level above the rim of the test basin at the beginning of each test interval, in inches; and
- H₂ = height of the water level above the rim of the test basin at the end of each test interval, in inches.

	Engi	neering &	Land Plan	ining Associa	tes
Project: Location: Test By:	1	Puleo Interna 13 Moebus Place Joey McGir	tional e, Clinton nnis	Date: Sample:	12/22/2020 IN PLACE SL-1 @ 80"
				Distu	urbed
L=	6.000	T1=	265	Tube Weight	695
H1=	6.000	T2=	263	Gross Weight	1,036
H2=	4.500	T3=	266	Net Weight	341
r=	1.000	T4=	264		
R=	1.000	T5=	263	Sample Vol. (in ³)	18.84
		T(sec.)=	263	(cm³)	308.7876
		1 (mm. <i>)</i> =	4.30	Bulk Density	1.104318956
					min. 1.2 gr/cm ³
Soil Perm	eability:		<u>23.63</u>		
Soil Class:		<u>K5</u>			

$$K(in/hr) = 60 \min/hr \times \frac{L(in)}{T(\min)} \times \frac{r^2}{R^2} \times \ln\left(\frac{H_1}{H_2}\right) \quad \text{[Equation 4]}$$

- K = permeability of the soil sample, in inches per hour;
- L = length of the soil core, in inches;
- T = time required for the water level to drop from H₁ to H₂ during the final test interval, in minutes,;
- r = radius of the standpipe, in centimeters or inches;
- R = radius of the soil core, in the same units as "r";
- H₁ = height of the water level above the rim of the test basin at the beginning of each test interval, in inches; and
- H₂ = height of the water level above the rim of the test basin at the end of each test interval, in inches.

	Engi	neering &	Land Plar	ning Associa	tes
Project: Location: Test By:	Puleo International 13 Moebus Place, Clintor Joey McGinnis		tional e, Clinton inis	Date: Sample:	12/22/2020 IN PLACE SL-3 @ 60"
				Distu	urbed
L=	6.000	T1=	196	Tube Weight	695
H1=	6.000	T2=	198	Gross Weight	1,154
H2=	5.000	T3=	199	Net Weight	459
r=	1.000	T4=	202		
R=	1.000	T5=	200	Sample Vol. (in ³)	18.84
		T(sec.)=	200	(cm ³)	308.7876
		T(min.)=	3.33	. ,	
				Bulk Density	1.486458653
					min. 1.2 gr/cm ³
Soil Permeability:			<u>19.69</u>		
Soil Class:		<u>K5</u>			

$$K(in/hr) = 60 \min/hr \times \frac{L(in)}{T(\min)} \times \frac{r^2}{R^2} \times \ln\left(\frac{H_1}{H_2}\right) \quad \text{[Equation 4]}$$

- K = permeability of the soil sample, in inches per hour;
- L = length of the soil core, in inches;
- T = time required for the water level to drop from H₁ to H₂ during the final test interval, in minutes,;
- r = radius of the standpipe, in centimeters or inches;
- R = radius of the soil core, in the same units as "r";
- H₁ = height of the water level above the rim of the test basin at the beginning of each test interval, in inches; and
- H₂ = height of the water level above the rim of the test basin at the end of each test interval, in inches.

	Engi	neering &	Land Plar	nning Associa	tes
Project: Location: Test By:	Puleo International 13 Moebus Place, Clinton Joey McGinnis		Date: Sample:	12/22/2020 IN PLACE SL-3 @ 100"	
L= H1= H2= r= R=	6.000 6.000 5.450 1.000 1.000	T1= T2= T3= T4= T5= T(sec.)= T(min.)=	220 224 223 223 222 222 3.70	<u>Distu</u> Tube Weight Gross Weight Net Weight Sample Vol. (in ³) (cm ³) Bulk Density	<u>urbed</u> 700 1,152 452 18.84 308.7876 1.463789349 min. 1.2 gr/cm ³
Soil Permeability:			<u>9.35</u>		
Soil Class: <u>K4</u>			<u>K4</u>		

$$K(in/hr) = 60 \min/hr \times \frac{L(in)}{T(\min)} \times \frac{r^2}{R^2} \times \ln\left(\frac{H_1}{H_2}\right) \quad \text{[Equation 4]}$$

- K = permeability of the soil sample, in inches per hour;
- L = length of the soil core, in inches;
- T = time required for the water level to drop from H₁ to H₂ during the final test interval, in minutes,;
- r = radius of the standpipe, in centimeters or inches;
- R = radius of the soil core, in the same units as "r";
- H₁ = height of the water level above the rim of the test basin at the beginning of each test interval, in inches; and
- H₂ = height of the water level above the rim of the test basin at the end of each test interval, in inches.

	Engi	neering &	Land Plan	ning Associa	tes
Project: Location: Test By:	1	Puleo Interna 13 Moebus Place Joey McGir	tional e, Clinton nnis	Date: Sample:	12/22/2020 IN PLACE SL-4 @ 55"
				Distu	urbed
L=	6.000	T1=	321	Tube Weight	700
H1=	6.000	T2=	326	Gross Weight	1,140
H2=	4.500	T3=	326	Net Weight	440
r=	1.000	T4=	323		
R=	1.000	T5=	325	Sample Vol. (in ³)	18.84
		T(sec.)=	325 5 42	(cm ³)	308.7876
		1 (mm. <i>)</i> =	0.42	Bulk Density	1.424927685
					min. 1.2 gr/cm ³
Soil Permeability:			<u>19.12</u>		
Soil Class:			<u>K4</u>		

$$K(in/hr) = 60 \min/hr \times \frac{L(in)}{T(\min)} \times \frac{r^2}{R^2} \times \ln\left(\frac{H_1}{H_2}\right) \quad \text{[Equation 4]}$$

- K = permeability of the soil sample, in inches per hour;
- L = length of the soil core, in inches;
- T = time required for the water level to drop from H₁ to H₂ during the final test interval, in minutes,;
- r = radius of the standpipe, in centimeters or inches;
- R = radius of the soil core, in the same units as "r";
- H₁ = height of the water level above the rim of the test basin at the beginning of each test interval, in inches; and
- H₂ = height of the water level above the rim of the test basin at the end of each test interval, in inches.

	Engi	neering &	Land Plar	nning Associa	tes	
Project: Location: Test By:	Puleo International 13 Moebus Place, Clinton Joey McGinnis			Date: Sample:	12/22/2020 IN PLACE SL-4 @ 110"	
				<u>Dist</u>	urbed	
L=	6.000	T1=	265	Tube Weight	700	
H1=	6.000	T2=	263	Gross Weight	1,109	
H2=	5.450	T3=	264	Net Weight	409	
r=	1.000	T4=	266			
R=	1.000	T5=	265	Sample Vol. (in ³)	18.84	
		T(sec.)= T(min.)=	265 4 42	(cm ³)	308.7876	
		r (mm.)–	7.72	Bulk Density	1.324535053	
					min. 1.2 gr/cm ³	
Soil Permeability:			<u>7.84</u>			
Soil Class:			<u>K4</u>			

$$K(in/hr) = 60 \min/hr \times \frac{L(in)}{T(\min)} \times \frac{r^2}{R^2} \times \ln\left(\frac{H_1}{H_2}\right) \quad \text{[Equation 4]}$$

- K = permeability of the soil sample, in inches per hour;
- L = length of the soil core, in inches;
- T = time required for the water level to drop from H₁ to H₂ during the final test interval, in minutes,;
- r = radius of the standpipe, in centimeters or inches;
- R = radius of the soil core, in the same units as "r";
- H₁ = height of the water level above the rim of the test basin at the beginning of each test interval, in inches; and
- H₂ = height of the water level above the rim of the test basin at the end of each test interval, in inches.

	Engi	neering &	Land Plan	ning Associa	tes
Project: Location: Test By:	Puleo International n: 13 Moebus Place, Clinton r: Joey McGinnis			Date: Sample:	12/22/2020 IN PLACE SL-5 @ 40"
				Distu	urbed
L=	6.000	T1=	197	Tube Weight	700
H1=	6.000	T2=	199	Gross Weight	1,144
H2=	5.000	T3=	196	Net Weight	444
r=	1.000	T4=	198		
R=	1.000	T5=	198	Sample Vol. (in ³)	18.84
		T(sec.)=	198	(cm ³)	308.7876
		T(min.)=	3.30		
				Bulk Density	1.437881573
					min. 1.2 gr/cm ³
Soil Permeability:			<u>19.89</u>		
Soil Class:			<u>K4</u>		

$$K(in/hr) = 60 \min/hr \times \frac{L(in)}{T(\min)} \times \frac{r^2}{R^2} \times \ln\left(\frac{H_1}{H_2}\right) \quad \text{[Equation 4]}$$

- K = permeability of the soil sample, in inches per hour;
- L = length of the soil core, in inches;
- T = time required for the water level to drop from H₁ to H₂ during the final test interval, in minutes,;
- r = radius of the standpipe, in centimeters or inches;
- R = radius of the soil core, in the same units as "r";
- H₁ = height of the water level above the rim of the test basin at the beginning of each test interval, in inches; and
- H₂ = height of the water level above the rim of the test basin at the end of each test interval, in inches.

	Engi	neering &	Land Plan	ining Associa	tes
Project: Location: Test By:	Puleo International 13 Moebus Place, Clinton Joey McGinnis			Date: Sample:	12/22/2020 IN PLACE SL-5 @ 100"
				<u>Distu</u>	<u>urbed</u>
L=	6.000	T1=	245	Tube Weight	700
H1=	6.000	T2=	243	Gross Weight	1,145
H2=	5.450	T3=	242	Net Weight	445
r=	1.000	T4=	245		
R=	1.000	T5=	245	Sample Vol. (in ³)	18.84
		T(sec.)=	245	(cm ³)	308.7876
		T(min.)=	4.08		
				Bulk Density	1.441120045
					min. 1.2 gr/cm ³
Soil Permeability: <u>8.48</u>			<u>8.48</u>		
Soil Class:			<u>K4</u>		

$$K(in/hr) = 60 \min/hr \times \frac{L(in)}{T(\min)} \times \frac{r^2}{R^2} \times \ln\left(\frac{H_1}{H_2}\right) \quad \text{[Equation 4]}$$

- K = permeability of the soil sample, in inches per hour;
- L = length of the soil core, in inches;
- T = time required for the water level to drop from H₁ to H₂ during the final test interval, in minutes,;
- r = radius of the standpipe, in centimeters or inches;
- R = radius of the soil core, in the same units as "r";
- H₁ = height of the water level above the rim of the test basin at the beginning of each test interval, in inches; and
- H₂ = height of the water level above the rim of the test basin at the end of each test interval, in inches.