



66 Glen Avenue
Glen Rock, NJ 07452
Telephone: 201-301-1045
Fax: 201-857-8002
Email: info@johnsonsoils.com

June 18, 2025

AUSTIN SIBONI
PO Box 696
Alpine, NJ 07620

Re: 44 Pine Terrace
Demarest, NJ
JSC Job #25-529

To whom it may concern:

Attached are the results of the permeability tests performed in accordance with the NJDEP BMP Manual, Chapter 12. Samples were delivered to our office on June 12, 2025.

Attached is the Permeability Test:

Very truly yours,
JOHNSON SOILS COMPANY

A handwritten signature in blue ink, appearing to read "Lisa V. Mahle-Greco", is written over a horizontal line.

Lisa V. Mahle-Greco, P.E.
Engineering Manager
NJ Lic. No. 43197

JG/AG



Client: Austin Siboni
 Site: 44 Pine Terrace, Demarest, NJ

JOB# 25-529
 DATE: 6/16/2025

Permeability Rate Determination:

Test Pit	Depth (ft)	Length of Soil Core (in)	Time required for the water level to drop from H ₁ to H ₂ (min)	Height of the water above test basin H ₁ (in)	Water loss (in)	Height of water above test basin at end of run H ₂ (in)	Permeability of the soil sample. K (in/hr)
1 (3.09)	8'	3	2.25	4.6875	0.25	4.4375	4.38
1 (3.09)	8'	3	4.5	4.6875	0.5	4.1875	4.51
1 (3.09)	8'	3	6.33	4.6875	0.75	3.9375	4.96
						AVERAGE	4.62

Note:

- 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;
- 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.
- r = Radius of the stand pipe, in centimeters or inches;
- R = Radius of the soil core, in the same units as "r"

[When the standpipe is not used, the term r^2/R^2 is omitted from the equation]

Prepared By: JG



Client: Austin Siboni
 Site: 44 Pine Terrace, Demarest, NJ

JOB# 25-529
 DATE: 6/16/2025

Permeability Rate Determination:

Test Pit	Depth (ft)	Length of Soil Core (in)	Time required for the water level to drop from H ₁ to H ₂ (min)	Height of the water above test basin H ₁ (in)	Water loss (in)	Height of water above test basin at end of run H ₂ (in)	Permeability of the soil sample. K (in/hr)
2 (3.09)	8'	3	4.857	4.375	0.25	4.125	2.18
2 (3.09)	8'	3	9.75	4.375	0.5	3.875	2.24
2 (3.09)	8'	3	13.917	4.375	0.75	3.625	2.43
						AVERAGE	2.28
2 (3.08)	8'	3	5	4.25	0.25	4	2.18
2 (3.08)	8'	3	10	4.25	0.5	3.75	2.25
2 (3.08)	8'	3	14	4.25	0.75	3.5	2.50
						AVERAGE	2.31

Note:

- 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;
- 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.
- r = Radius of the stand pipe, in centimeters or inches;
- R = Radius of the soil core, in the same units as "r"

[When the standpipe is not used, the term r^2/R^2 is omitted from the equation]

Prepared By: JG