



Turf & Soil Diagnostics

**MATERIALS TEST REPORT FOR**  
Ecospaces, LLC

**REPORT TO:** Ecospaces, LLC  
Chase Coard  
800 4th St. SW #S424  
Washington, DC 20024

**DATE RECEIVED:** Feb-24-2021  
**REPORT DATE:** Mar-9-2021



**Maximum Media Density for Dead Load Analysis of Green Roof Systems <sup>‡</sup>**

		Water Permeability (Saturated Hydraulic Conductivity) (in/hr)		Initial Media Density (Application Density) (lb/ft <sup>3</sup> )		Maximum Media Density (Saturated Density) (lb/ft <sup>3</sup> )		Maximum Media Water Retention (%)	Air-filled Porosity <sup>‡‡</sup> (%)	Dry Media Density (lb/ft <sup>3</sup> )	Dry Media Density (g/cm <sup>3</sup> )
Lab ID#	Sample Name										
46622-1	Intensive	24.6	10.4	62.9	1.01	81.6	1.31	48	11	51.5	0.83

		Initial Sample Wt. (Kg)	Sample Volume (m <sup>3</sup> )	Initial Sample Height (cm)	Final Sample Height (cm)	Sample Wt. After Draining (Kg)	Total Pore Space (%)	pH <sup>†††</sup>	Electrical Conductivity mmhos/cm	Organic Matter <sup>**</sup> (%)	Organic Matter <sup>**</sup> g/L
Lab ID#	Sample Name										
46622-1	Intensive	1.929	0.0019	10.5	10.6	2.5	59	6.9	0.2	9.5	78.7

**Particle Size Evaluation\***

		% Passing US sieve (mm)									
Lab ID#	Sample Name	% Sand 2.0 - 0.063 mm	% Silt 0.063-0.002 mm	% Clay < 0.002mm	Gravel 3/8"	Gravel 1/8" (3.17)	Gravel 10 (2.0)	V. Coarse 18 (1.0)	Medium 60 (0.25)	V. Fine 230 (0.063)	
46622-1	Intensive	31.1	11.1	1.9	100.0	50.5	44.1	38.4	17.9	13.1	

<sup>‡</sup> ASTM E2399   <sup>‡‡</sup>At Maximum Media Density (Water-holding Capacity)

<sup>†††</sup> ASTM D4972 w CaCl<sub>2</sub> (not screened)

Electrical Conductivity (1:5)

\*ASTM F1632 Method B

\*\*Ashed at 550° C (FLL Guidelines)

Samples were tested as received and comments pertain only to the samples shown.

This report may not be reproduced in part, but only in full.

Sample condition upon receipt was normal.

Samples were received with a transmittal letter.

Reviewed by \_\_\_\_\_