



**MATERIALS TEST REPORT FOR**  
Ecospaces, LLC

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

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**Maximum Media Density for Dead Load Analysis of Green Roof Systems †**

Lab ID#	Sample Name	Water Permeability (Saturated Hydraulic Conductivity)		Initial Media Density (Application Density)		Maximum Media Density (Saturated Density)		Maximum Media Water Retention (%)	Air-filled Porosity**	Dry Media Density	
		(in/hr)	(mm/min)	(lb/ft <sup>3</sup> )	(g/cm <sup>3</sup> )	(lb/ft <sup>3</sup> )	(g/cm <sup>3</sup> )			(lb/ft <sup>3</sup> )	(g/cm <sup>3</sup> )
46622-2	Extensive	91.6	38.8	61.4	0.98	77.5	1.24	45	16	47.7	0.77

Lab ID#	Sample Name	Initial Sample Wt.	Sample Volume	Initial Sample Height	Final Sample Height	Sample Wt. After Draining	Total Pore Space	pH <sup>†††</sup>	Electrical Conductivity	Organic Matter**	Organic Matter**
		(Kg)	(m <sup>3</sup> )	(cm)	(cm)	(Kg)	(%)		mmhos/cm	(%)	g/L
46622-2	Extensive	1.892	0.0019	10.5	10.6	2.4	61	7.1	0.2	10.4	79.9

**Particle Size Evaluation\***

Lab ID#	Sample Name	% Sand 2.0 - 0.063 mm	% Silt 0.063-0.002 mm	% Clay < 0.002mm	% Passing US sieve (mm)					
					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)
46622-2	Extensive	27.7	7.5	1.5	98.3	41.7	36.8	29.9	13.2	9.1

† ASTM E2399 †† At Maximum Media Density (Water-holding Capacity) ††† 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 \_\_\_\_\_