

TABLE 3.
MATERIAL PROPERTIES
 CLIENT: Pollution Solution Inc.
 PROJECT: Geotextile Testing

Date Received: 11/25/2015
 Date Reported: 12/7/2015
 Client Sample ID: **HRN34 (Applies to all Hornet's Nest sizes)**
 Material Description: **Hornet's Nest Filter 3'x4' (Non Woven Geotextile Component tested)**

QC'd By: *Maria Espitia*
 TRI Job No.: **R15048**
 TRI Control No.: **00843**

		SPECIMENS										Avg.	Std. Dev.	Min	Max	Proj. Specs.
		1	2	3	4	5	6	7	8	9	10					
METHOD	DESCRIPTION															
ASTM D5261	Mass per Unit Area (oz/ yd. ²) <i>Test Specimen Size: 4" x 8"</i>	6.87	6.71	6.92	6.84	6.82						6.83	0.08	6.71	6.92	
ASTM D4632	Grab Tensile <i>Test was performed as directed in D4632, dry condition. Instron Tensile Testing Machine with hydraulic action grips and 1 in x 2 in rubber faces was used. Maximum load used for testing: 400 lbs</i>															
	Grab Breaking Load (lbs)															
	Direction A	246	238						242	6	238	246				
	Direction B	251	242						246	6	242	251				
	Apparent Breaking Elongation (percent)															
	Direction A	114	110						112	3	110	114				
	Direction B	88	80						84	5	80	88				
ASTM D4533	Trapezoid Tear Strength (lbs) <i>Specimens were tested as directed in Test Method D4533, dry condition.</i>															
	Direction A	102	106						104	3	102	106				
	Direction B	94	90						92	3	90	94				
ASTM D4491	Permittivity (sec. ⁻¹)															
Constant Head	<i>Four specimens were tested by holding the head constant at 50 mm. The corresponding water volume passing through the specimen was collected at the discharge side and the amount and time recorded. Five readings were taken for each specimen. BT Technology permittivity testing apparatus compliant to ASTM D4491 requirements was used.</i>															
		1.44	1.53	1.57	1.59						1.53	0.07	1.44	1.59		
	Permeability (cm./ sec.)															
		0.25	0.24	0.22	0.21						0.23	0.02	0.21	0.25		
	Flow Rate (gpm/ ft. ²)															
		108	114	118	119						115	5	108	119		

Continued on next page

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		SPECIMENS										Avg.	Std. Dev.	Min	Max	Proj. Specs.
METHOD	DESCRIPTION	1	2	3	4	5	6	7	8	9	10					
ASTM D6241	Static Puncture Strength (lbs) <i>The specimens were tested in accordance with ASTM D6241. Specimens were conditioned for 1 hr in the laboratory at 21+/-5° C (75+/-3.6oF) and at 60%+/-10 Relative Humidity. Specimens were secured between the holding plates ensuring that they extended to or beyond the outer edges of the clamping plates.</i>															
		652	657									655	3	652	657	
	Deflection @ Maximum Force (in)															
		2.2	2.2									2.2	0.0	2.2	2.2	

(End of Table 3)

(Sheet 2 of 2)

By accepting the data and results presented on this report, the Client agrees to limit the liability of TRI Environmental Inc from Client and all other parties for claims on issues, due to the use of this data, to the cost for the respective tests presented in this report; and the Client agrees to indemnify and hold harmless TRI Environmental, Inc. from and against all liabilities in excess of the aforementioned limit.