TABLE 2.

MATERIAL PROPERTIES

CLIENT: Pollution Solution Inc.

PROJECT: Geotextile Testing

Date Received: **11/25/2015**
Date Reported: **12/7/2015**
Client Sample ID: **YJ23** **(Applies to all YellowJacket sizes)**
Material Description: **Yellow Jacket Model 23**

QC'd By: Maria Espitia
TRI Job No.: **R15048**
TRI Control No.: **00842**

METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D5261	Mass per Unit Area (oz/ yd.^{2})															
	Test Specimen Size: 4" x 8"															
		5.55	5.60	5.57	5.50	5.54						5.55	0.04	5.50	5.60	
ASTM D4632	Grab Tensile															
	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															
	Grab Breaking Load (lbs)															
	Direction A	321	300									311	15	300	321	
	Direction B	303	319									311	11	303	319	
	Apparent Breaking Elongation (percent)															
	Direction A	33	34									34	0	33	34	
	Direction B	32	33									32	0	32	33	
ASTM D4533	Trapezoid Tear Strength (lbs)															
	Specimens were tested as directed in Test Method D4533, dry condition.															
	Direction A	137	140									139	2	137	140	
	Direction B	130	137									133	5	130	137	
ASTM D4491	Permittivity (sec.$^{-1}$)															
Constant Head	*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.*															
		6.45	6.89	6.60	6.98							6.73	0.24	6.45	6.98	
	Permeability (cm./ sec.)															
		0.43	0.47	0.45	0.47							0.45	0.02	0.43	0.47	
	Flow Rate (gpm/ ft.^{2})															
		483	515	493	522							503	18	483	522	

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Precision Geosynthetic Laboratories International dba TRI Environmental, Inc.

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METHOD	DESCRIPTION	SPECIMENS 1	2	3	4	5	6	7	8	9	10	Avg.	Std. Dev.	Min	Max	Proj. Specs.
ASTM D4751	Apparent Opening Size (U.S. standard sieve size)															
	Specimens were tested as directed in Test Method D4751.Type of sieve shaker used is W.S. Tyler Rotap.															
		30-45										**30-45**	**N/A**	**N/A**	**N/A**	
ASTM D4751	Apparent Opening Size (mm)															
	Specimens were tested as directed in Test Method D4751.Type of sieve shaker used is W.S. Tyler Rotap.															
		0.578										**0.578**	**N/A**	**N/A**	**N/A**	
ASTM D6241	Static Puncture Strength (lbs)															
	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.															
		763	**782**									**772**	**14**	**763**	**782**	
	Deflection @ Maximum Force (in)															
		1.3	**1.5**									**1.4**	**0.1**	**1.3**	**1.5**	

(End of Table 2)