



TRI / Environmental, Inc.
A Texas Research International Company

April 30, 2008

Mail To:

Mr. Thomas Palmer
Sprayroq, Inc.
4707 Alton Court
Birmingham, AL 35210-3744

phone: 205 957 0020
e-mail: tpalmer@sprayroq.com

Dear Mr. Palmer:

Thank you for consulting TRI/Environmental, Inc. (TRI) for your geosynthetics testing needs. TRI is pleased to submit this final report for laboratory testing.

TRI Job Reference Number: E2280-13-01
Material(s) Tested: 1 Spray Wall Plaque
Test(s) Requested: Mannings "n" Determination

If you have any questions or require any additional information, please call us at 1-800-880-8378.

Sincerely,

A handwritten signature in black ink that reads 'Jarrett A. Nelson'. The signature is written in a cursive, flowing style.

Jarrett A. Nelson
Special Projects Manager
Geosynthetic Services Division



Measure tractive shear and depth during test
 Calculate Velocity = RPM x circumference / 60
 (at 2.0 ft to centerpoint of pot)
 Calculate Slope, S = Shear / (Unit Wt of Water x Water Depth)
 Calculate R = Area / Wetted Perimeter
 (Note: Area and wetted perimeter are based on X-Section above pot)

Large Tank	Tank Radius (ft)	Radius to Pot (ft)	Initial Depth over Pot (in)	Diameter of Pot (in)	Unit Wt of Water (pcf)
	3.00	2.00	22.75	8.00	62.4

Product: **Spray Wall**

RPM	Vel (ft/s)	Shear (psf)	depth (in)	Area over Pot (sf)	S (ft/ft)	S1/2	R2/3	"n"
16.4	3.43	0.26	22.95	1.28	0.0022	0.0467	0.4301	0.009
23.8	4.98	0.65	23.30	1.29	0.0054	0.0732	0.4308	0.009
26.0	5.45	0.76	23.50	1.31	0.0062	0.0789	0.4311	0.009
								0.009