



March 6, 2014

Mail To:
Mr. Marat Goldenberg, P.E.
CETCO
2870 Forbs Avenue
Hoffman Estates, IL 60192

Bill To:

<= Same

email: marat.goldenberg@cetco.com

Dear Mr. Goldenberg

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

Project: **JED Landfill**
TRI Job Reference Number: E2388-15-01
Material(s) Tested: Three Bentomat ST GCL
Test(s) Requested: Index Flux (ASTM D 5887)

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

Sincerely,

John M. Allen, P.E.
Division Director
Geosynthetic Services Division
www.GeosyntheticTesting.com



GCL TEST RESULTS
TRI Client: Hoffman Estates, IL 60192
Project: JED Landfill

Material: Bentomat ST GCL
TRI Log #: E2388-15-01

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.	PROJ. SPEC.
	1	2	3	4	5	6	7	8	9	10			
Index Flux (ASTM D 5887) Sample Identification: 696 Lot: 201409LO													
Index Flux (m³/m²/sec)		3.2E-09									3.2E-09		1.0E-08 max
Hydraulic Conductivity (cm/sec)		2.5E-09									2.5E-09		5.0E-09 max
Index Flux (ASTM D 5887) Sample Identification: 740 Lot: 201409LO													
Index Flux (m³/m²/sec)		3.5E-09									3.5E-09		1.0E-08 max
Hydraulic Conductivity (cm/sec)		2.8E-09									2.8E-09		5.0E-09 max
Index Flux (ASTM D 5887) Sample Identification: 784 Lot: 201409LO													
Index Flux (m³/m²/sec)		3.2E-09									3.2E-09		1.0E-08 max
Hydraulic Conductivity (cm/sec)		2.7E-09									2.7E-09		5.0E-09 max
MD Machine Direction	TD Transverse Direction				NA Not Available								