



GEOSYNTHETICS TEST RESULTS

TRI Client: Airfield Systems

Project: Aldrain Project

Material: Aldrain

Sample Identification: C#00932

TRI Log #: 22857

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.																																																																																																												
	1	2	3	4	5	6	7	8	9	10																																																																																																														
Hydraulic Transmissivity (ASTM D 4716) <div style="border: 1px solid black; padding: 2px; display: inline-block;">Plate / Expanded Polystyrene / 4.5 oz NWGT / Aldrain / 10 oz NWGT / Plate</div>																																																																																																																								
Direction Tested: Machine Direction Normal Load (psf): <table border="1" style="display: inline-table;"><tr><td>125</td></tr></table> Hydraulic Gradient: <table border="1" style="display: inline-table;"><tr><td>0.75</td></tr></table> Test Length (in): <table border="1" style="display: inline-table;"><tr><td>12</td></tr></table> Test Width (in): <table border="1" style="display: inline-table;"><tr><td>12</td></tr></table> Seat Time, hrs: <table border="1" style="display: inline-table;"><tr><td>0.25</td></tr></table>													125	0.75	12	12	0.25																																																																																																							
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<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;">Characteristic Equation Extrapolation</p> <p style="text-align: center;">Flow Rate, GPM/ft</p> </div> <div style="width: 45%;"> <p>C2 3.41E-04 Extrapolated</p> <p>C1 2.21E-03 i= 0.75</p> </div> </div>																																																																																																																								
											Flow Rate (GPM/ft width)	43.8																																																																																																												
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											Transmissivity (m ² /s)	4.53E-01																																																																																																												
<table border="0" style="width: 100%;"> <tr> <td style="width: 20%;">Hydraulic Gradient:</td> <td style="width: 10%;"><table border="1"><tr><td>0.1</td></tr></table></td> <td style="width: 10%;">Volume (cc)</td> <td style="width: 10%;"><table border="1"><tr><td>6000</td></tr></table></td> <td style="width: 10%;"><table border="1"><tr><td>6000</td></tr></table></td> <td style="width: 10%;"><table border="1"><tr><td>6000</td></tr></table></td> <td colspan="5"></td> <td></td> </tr> <tr> <td>Test Length (in)</td> <td><table border="1"><tr><td>12</td></tr></table></td> <td>Time (s)</td> <td><table border="1"><tr><td>6.7</td></tr></table></td> <td><table border="1"><tr><td>6.7</td></tr></table></td> <td><table border="1"><tr><td>6.7</td></tr></table></td> <td colspan="5"></td> <td><table border="1"><tr><td>14.2</td></tr></table></td> </tr> <tr> <td>Test Width (in)</td> <td><table border="1"><tr><td>12</td></tr></table></td> <td>Flow Rate (GPM/ft width)</td> <td><table border="1"><tr><td>14.18</td></tr></table></td> <td><table border="1"><tr><td>14.18</td></tr></table></td> <td><table border="1"><tr><td>14.18</td></tr></table></td> <td colspan="5"></td> <td><table border="1"><tr><td>176.2</td></tr></table></td> </tr> <tr> <td>Seat Time, hrs</td> <td><table border="1"><tr><td>0.25</td></tr></table></td> <td>Flow Rate (LPM/m width)</td> <td><table border="1"><tr><td>176.16</td></tr></table></td> <td><table border="1"><tr><td>176.16</td></tr></table></td> <td><table border="1"><tr><td>176.16</td></tr></table></td> <td colspan="5"></td> <td><table border="1"><tr><td>2.94E-02</td></tr></table></td> </tr> <tr> <td colspan="2"></td> <td>Transmissivity (m²/s)</td> <td><table border="1"><tr><td>2.94E-02</td></tr></table></td> <td><table border="1"><tr><td>2.94E-02</td></tr></table></td> <td><table border="1"><tr><td>2.94E-02</td></tr></table></td> <td colspan="5"></td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Test Temp (C)</td> <td colspan="3"><table border="1"><tr><td>20.2</td></tr></table></td> <td colspan="5"></td> <td></td> </tr> <tr> <td colspan="2"></td> <td>Temp. Corr. Factor</td> <td colspan="3"><table border="1"><tr><td>0.999</td></tr></table></td> <td colspan="5"></td> <td></td> </tr> </table>													Hydraulic Gradient:	<table border="1"><tr><td>0.1</td></tr></table>	0.1	Volume (cc)	<table border="1"><tr><td>6000</td></tr></table>	6000	<table border="1"><tr><td>6000</td></tr></table>	6000	<table border="1"><tr><td>6000</td></tr></table>	6000							Test Length (in)	<table border="1"><tr><td>12</td></tr></table>	12	Time (s)	<table border="1"><tr><td>6.7</td></tr></table>	6.7	<table border="1"><tr><td>6.7</td></tr></table>	6.7	<table border="1"><tr><td>6.7</td></tr></table>	6.7						<table border="1"><tr><td>14.2</td></tr></table>	14.2	Test Width (in)	<table border="1"><tr><td>12</td></tr></table>	12	Flow Rate (GPM/ft width)	<table border="1"><tr><td>14.18</td></tr></table>	14.18	<table border="1"><tr><td>14.18</td></tr></table>	14.18	<table border="1"><tr><td>14.18</td></tr></table>	14.18						<table border="1"><tr><td>176.2</td></tr></table>	176.2	Seat Time, hrs	<table border="1"><tr><td>0.25</td></tr></table>	0.25	Flow Rate (LPM/m width)	<table border="1"><tr><td>176.16</td></tr></table>	176.16	<table border="1"><tr><td>176.16</td></tr></table>	176.16	<table border="1"><tr><td>176.16</td></tr></table>	176.16						<table border="1"><tr><td>2.94E-02</td></tr></table>	2.94E-02			Transmissivity (m ² /s)	<table border="1"><tr><td>2.94E-02</td></tr></table>	2.94E-02	<table border="1"><tr><td>2.94E-02</td></tr></table>	2.94E-02	<table border="1"><tr><td>2.94E-02</td></tr></table>	2.94E-02									Test Temp (C)	<table border="1"><tr><td>20.2</td></tr></table>			20.2									Temp. Corr. Factor	<table border="1"><tr><td>0.999</td></tr></table>			0.999						
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GEOSYNTHETICS TEST RESULTS

TRI Client: Airfield Systems

Project: Aldrain Project

Material: Aldrain

Sample Identification: C#00932

TRI Log #: 22857

PARAMETER	TEST REPLICATE NUMBER										MEAN	STD. DEV.		
	1	2	3	4	5	6	7	8	9	10				
Hydraulic Gradient:	0.03	Volume (cc)			6000	6000	6000							
Test Length (in)	12	Time (s)			14.2	14.1	14.1							
Test Width (in)	12	Flow Rate (GPM/ft width)			6.69	6.74	6.74						6.7	
Seat Time, hrs	0.25	Flow Rate (LPM/m width)			83.12	83.71	83.71						83.5	
		Transmissivity (m ² /s)			4.62E-02	4.65E-02	4.65E-02						4.64E-02	
		Test Temp (C)			20.2									
		Temp. Corr. Factor			0.999									
Hydraulic Gradient:	0.01	Volume (cc)			6000	6000	6000							
Test Length (in)	12	Time (s)			32.1	32.0	31.8							
Test Width (in)	12	Flow Rate (GPM/ft width)			2.96	2.97	2.99						3.0	
Seat Time, hrs	0.25	Flow Rate (LPM/m width)			36.77	36.88	37.12						36.9	
		Transmissivity (m ² /s)			6.13E-02	6.15E-02	6.19E-02						6.15E-02	
		Test Temp (C)			20.2									
		Temp. Corr. Factor			0.999									
Hydraulic Gradient:	0.005	Volume (cc)			2253	2255	2250							
Test Length (in)	12	Time (s)			20.0	20.0	20.0							
Test Width (in)	12	Flow Rate (GPM/ft width)			1.78	1.79	1.78						1.8	
Seat Time, hrs	0.25	Flow Rate (LPM/m width)			22.16	22.18	22.13						22.2	
		Transmissivity (m ² /s)			7.39E-02	7.39E-02	7.38E-02						7.38E-02	
		Test Temp (C)			20.2									
		Temp. Corr. Factor			0.999									

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