



Hydraulic Conductivity

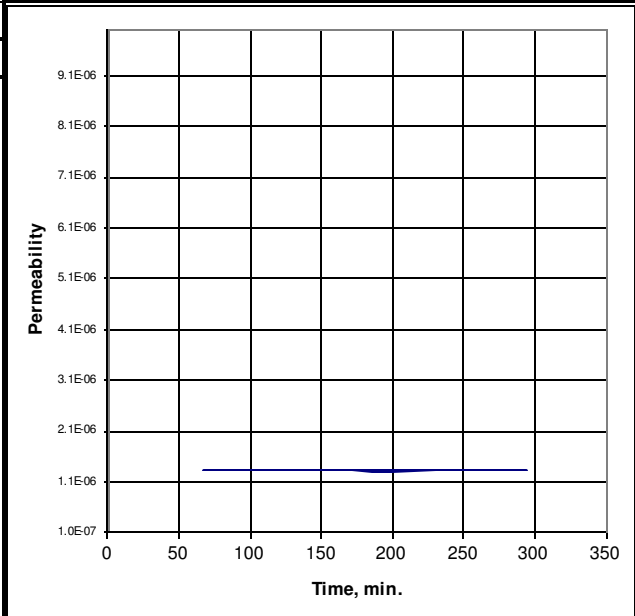
ASTM D 5084

Method C: Falling Head Rising Tailwater

Job No: _____ Boring: Sample 5.2 Date: _____
 Client: _____ Sample: _____ By: MD/PJ
 Project: _____ Depth, ft.: 2.0 Remolded: _____
 Visual Classification: Brown Clayey SAND w/ Gravel/ Sandy CLAY w/ Gravel

Max Sample Pressures, psi:				B: = >0.95 ("B" is an indication of saturation)
Cell:	Bottom	Top	Avg. Sigma3	Max Hydraulic Gradient: = 14
54	49.5	48.5	5	

Date	Minutes	Head, (in)	K, cm/sec
	0.00	42.69	Start of Test
	67.00	40.29	1.3E-06
	123.00	38.29	1.3E-06
	172.00	36.79	1.3E-06
	230.00	34.99	1.3E-06
	294.00	33.09	1.3E-06



Average Hydraulic Conductivity: 1.E-06 cm/sec

Sample Data:	Initial (As-Received)	Final (At-Test)
Height, in	3.00	2.98
Diameter, in	2.36	2.36
Area, in ²	4.37	4.37
Volume in ³	13.10	13.00
Total Volume, cc	214.6	213.0
Volume Solids, cc	119.4	119.4
Volume Voids, cc	95.2	93.6
Void Ratio	0.8	0.8
Total Porosity, %	44.4	44.0
Air-Filled Porosity (θ _a), %	7.0	2.1
Water-Filled Porosity (θ _w), %	37.3	41.9
Saturation, %	84.2	95.3
Specific Gravity	2.70 Assumed	2.70
Wet Weight, gm	402.5	411.6
Dry Weight, gm	322.3	322.3
Tare, gm	0.00	0.00
Moisture, %	24.9	27.7
Wet Bulk Density, pcf	117.0	120.6
Dry Bulk Density, pcf	93.7	94.4
Wet Bulk Dens.pb, (g/cm ³)	1.87	1.93
Dry Bulk Dens.pb, (g/cm ³)	1.50	1.51

Remarks: