Apparatus Diameter (cm) Area = $(pi*(35/200)^2)$

0.0962

Experiment #	Test #	Area (m^2)
1	1	0.0962
	2	0.0962
	3	0.0962
	4	0.0962
	5	0.0962
	6	0.0962
	7	0.0962
	8	0.0962
	9	0.0962
	10	0.0962
raulic Conductivity of Exp 1		
2	1	0.0962
	2	0.0962
	3	0.0962
	4	0.0962
	5	0.0962
	6	0.0962
raulic Conductivity of Exp 2		
3	1	0.0962
	2	0.0962
	3	0.0962
	4	0.0962
raulic Conductivity of Exp 3		
4	1	0.0962
	2	0.0962
	3	0.0962
raulic Conductivity of Exp 4		

5	1	0.0962
	2	0.0962
	3	0.0962
	4	0.0962
	5	0.0962
	6	0.0962
	7	0.0962
	8	0.0962
	9	0.0962
	10	0.0962
	11	0.0962
	12	0.0962

Hydraulic Conductivity of Exp 5

Experiment	Hydrau	lic Conductivity (mm/s)	Hydraulic Conductivity (m/day)
	1	0.29	24.83
	2	0.17	14.40
	3	0.22	18.85
	4	0.21	17.96
	5	0.27	23.04

There is a change in **hydraulic conductivity (K)** from expe

Darcy Data

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Packed sand length (m)	Flow (L/min)	Inlet head (m)	Hydraulic Gradien
0.58	3.6	1.11	1.11
0.58	7.65	2.36	2.36
0.58	12	4	4
0.58	14.28	4.9	4.9
0.58	15.2	5.02	5.02
0.58	21.8	7.63	7.63
0.58	23.41	8.13	8.13
0.58	24.5	8.58	8.58
0.58	27.8	9.86	9.86
0.58	29.4	10.89	10.89
1.14	2.66	2.6	2.6
1.14	4.28	4.7	4.7
1.14	6.26	7.71	7.71
1.14	8.6	10.34	10.34
1.14	8.9	10.75	10.75
1.14	10.4	12.34	12.34
1.71	2.13	2.57	2.57
1.71	3.9	5.09	5.09
1.71	7.25	9.46	9.46
1.71	8.55	12.35	12.35
1.7	5.25	6.98	6.98
1.7	7	9.95	9.95
1.7	10.3	13.93	13.93

1.1	18.8	9.48	13.08
1.1	18.3	12.88	12.88
1.1	18	9.8	12.58
1.1	17.4	12.87	12.41
1.1	18.1	12.8	12.31
1.1	14.9	8.86	9.69
1.1	12.1	12.84	8.44
1.1	9.8	6.71	6.71
1.1	7.9	12.81	5.78
1.1	8.65	5.58	5.58
1.1	4.5	2.98	2.98
1.1	4.15	12.86	2.98

eriment to experiment because of the change in Height (H) and also the flow (Q) since Area (A) a

Discharge (m/s)	Outlet head (m)	Hydraulic Conductivity (mm/s)	Hydraulic Conductivity (m/day)
0.000623701	0	0.325897623	28.15755464
0.001325364	0	0.325725008	27.14375066
0.002079002	0	0.301455301	25.12127512
0.002474012	0	0.292842293	24.4035244
0.002633403	0	0.304257675	25.35480623
0.003776854	0	0.287100287	23.92502393
0.004055787	0	0.289342706	24.11189219
0.004244629	0	0.286932979	23.9110816
0.004816355	0	0.283314989	23.60958243
0.005093555	0	0.271282089	22.60684079
			24.8345332
0.000460845	0	0.20206301	16.83858415
0.000741511	0	0.179855797	14.98798307
0.001084546	0	0.1603609	13.36340831
0.001489951	0	0.164269313	13.68910943
0.001541927	0	0.163515931	13.62632758
0.001801802	0	0.166454948	13.87124564
			14.3961097
0.000369023	0	0.245536617	20.46138476
0.000675676	0	0.226995168	18.916264
0.001256064	0	0.227047465	18.92062212
0.001481289	0	0.205101551	17.09179594
			18.84751671
0.000909563	0	0.221526905	18.46057541
0.001212751	0	0.207203725	17.26697707
0.001784477	0	0.217775343	18.14794528
			17.95849925

0.003257103	-3.6	0.273915412	22.82628429
0.003170478	0	0.270770651	22.56422093
0.003118503	-2.78	0.272683103	22.72359188
0.003014553	0.46	0.267204538	22.26704483
0.003135828	0.49	0.2802121	23.35100832
0.002581428	-0.83	0.293041315	24.42010956
0.002096327	4.4	0.273217986	22.76816554
0.001697852	0	0.278336344	23.19469533
0.001368676	7.03	0.260474741	21.70622845
0.001498614	0	0.295425699	24.61880822
0.000779626	0	0.287781328	23.98177734
0.000718988	9.88	0.265398336	22.11652799
			23.04487189

and length(L) do not change per experiment since we using the same bottle and same length of pack



