



Earth Environmental & Geotechnical Ltd

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FALLING HEAD TEST

(To: BS5930 :1999 Page 50)

Job No: A3939
Site: Kingsley Road, Northenden
Client: Karl Illingworth

Location Reference:	WS106 Test 1	
Date	02 August 2022	
Geology in test section	Clay and Sand	
Depth of test section	1.80	metres
Depth to Standing Water Level (or base of well)	1.70	metres
Height of Casing	0.00	metres
Height of Casing above water level	1.70	metres
Depth to water at start of test below casing level (or base of well)	1.28	metres
Depth to water at end of test below casing level	1.70	metres
Response zone length	1.00	metres
Standpipe diameter in test section	0.05	metres
Cross sectional area of standpipe	1.96E-03	metres
Intake Factor (BS5930 p50) Figure d	1.70	
Basic Time Lag at $H/H_o = 0.37$	90.00	sec
Coefficient of Permeability	1.28E-05	m/s

Time Elapsed (secs)	Depth of water below top of casing (m)	h(m)	h1/ho
0	1.28	0.42	1.00
30	1.43	0.27	0.64
60	1.53	0.17	0.40
90	1.55	0.15	0.36
120	1.57	0.13	0.31
150	1.58	0.12	0.29
180	1.58	0.12	0.29
210	1.59	0.11	0.26
300	1.60	0.10	0.24
600	1.64	0.06	0.14
900	1.66	0.04	0.10
1200	1.66	0.04	0.10
1800	1.67	0.03	0.07
2700	1.69	0.01	0.02
3600	1.69	0.01	0.02
5400	1.70	0.00	0.00
7200	1.70	0.00	0.00

