

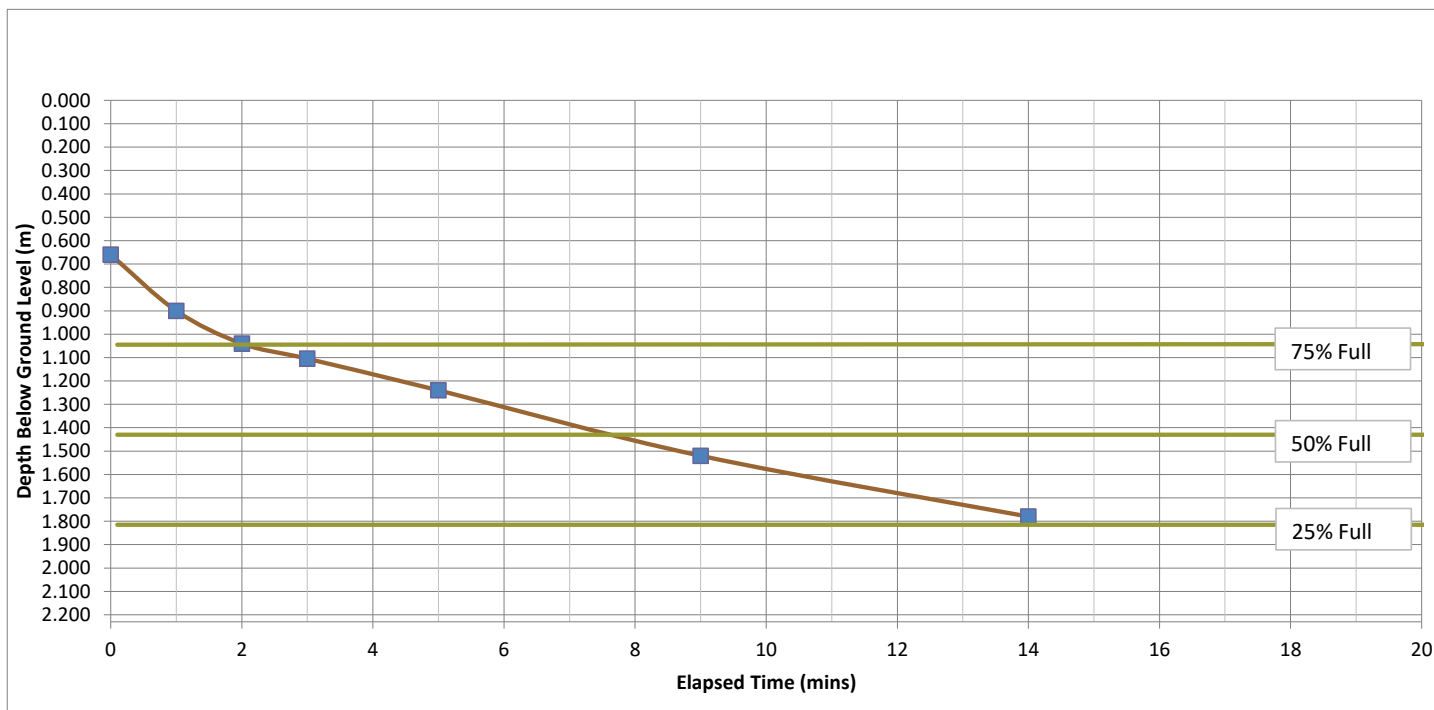


SOAKAWAY TEST

Job No:	A2352
Site:	Ruabon Park
Client:	ALDI Stores UK Ltd

[illegible]

Assumes pit is not filled





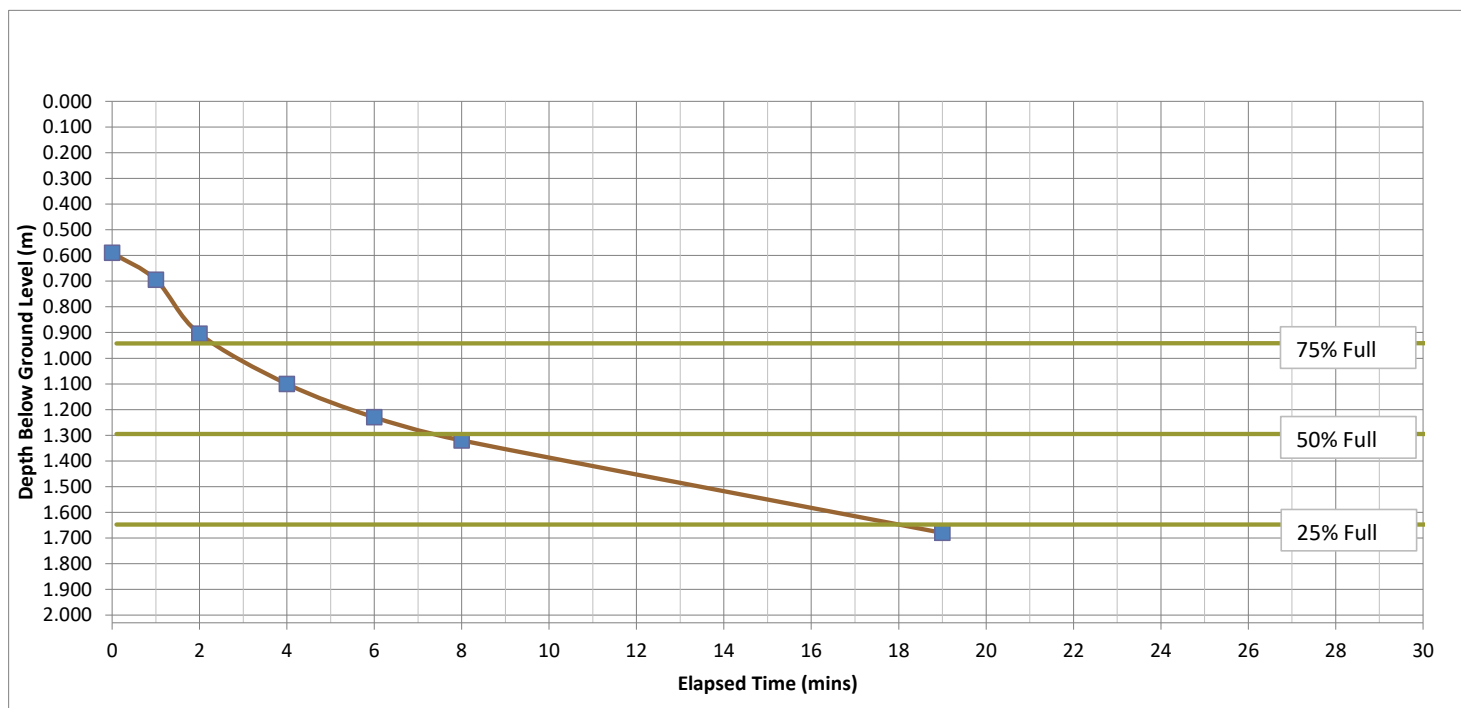
Tel / Fax: 0161 2824518
Web: www.earthenvironmental.co.uk
Email: adam@earthenvironmental.co.uk

(To: BRE 365 1991)

Job No:	A2352
Site:	Ruabon Park
Client:	ALDI Stores UK Ltd

SA01 - Test 2	
10/01/2019	
Sand and Gravel	
2	m
1.41	m
0.75	m
1.9	m
0.59	m
1.68	m
1.06	m
0.94	m
0.71	m
1.30	m
0.35	m
1.65	m
0.705	m3
1.00	m3
2.50	mins
18.00	mins
16	mins
930	secs
5.16	m2
2.09E-04	m/s

Assumes pit is not filled

[illegible]



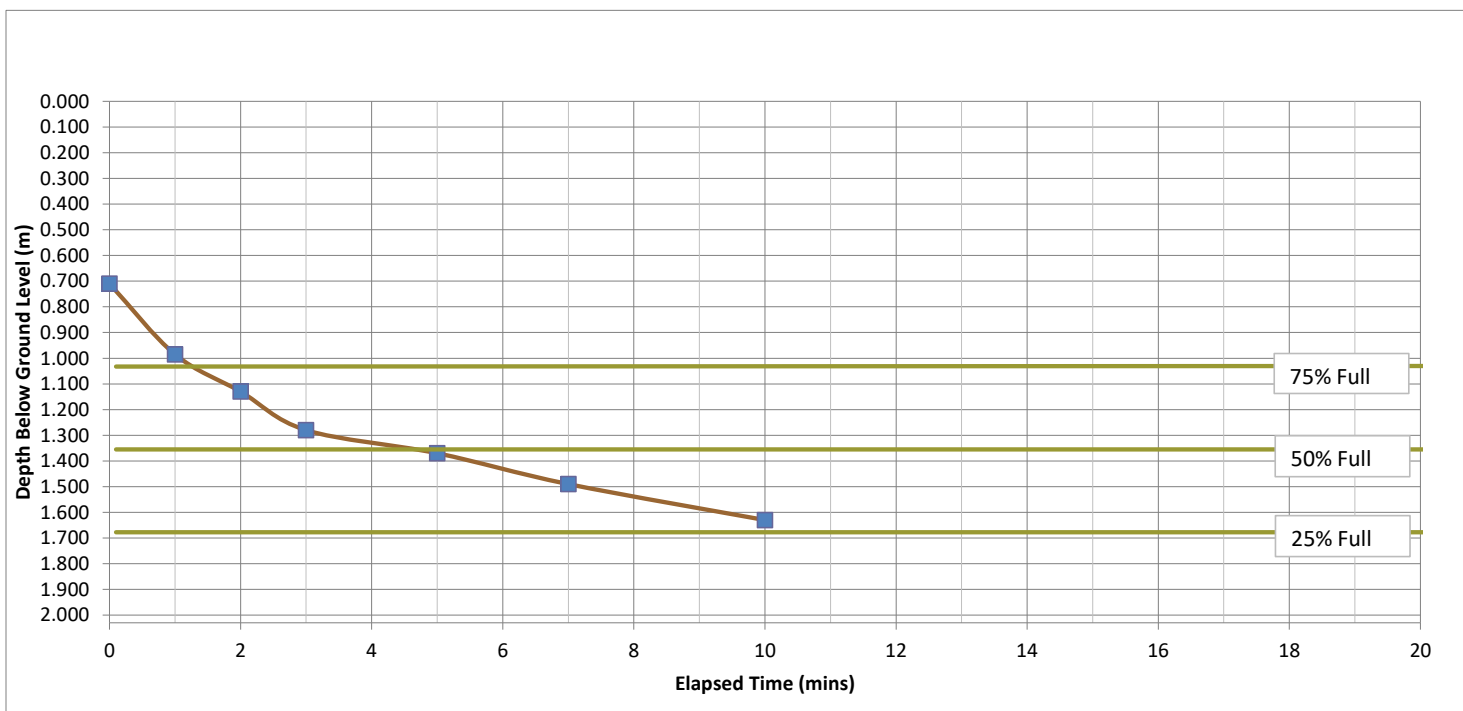
SOAKAWAY TEST

Job No:	A2352
Site:	Ruabon Park
Client:	ALDI Stores UK Ltd

[illegible]

Location Reference:	SA01 - Test 3	
Date	10/01/2019	
Geology in test section	Sand and Gravel	
Depth to Base of Hole	2	m
Effective Depth	1.29	m
Hole width	0.8	m
Hole length	1.9	m
Depth to water at start of test below ground level	0.71	m
Depth to water at end of test below ground level	1.63	m
Effective storage depth to 75% full	0.97	m
(Depth below GL)	1.03	m
Effective storage depth to 50% full	0.65	m
(Depth below GL)	1.36	m
Effective storage depth to 25% full	0.32	m
(Depth below GL)	1.68	m
Height to 50% depth	0.645	m3
Effective Storage Volume Vp75-25	0.98	m3
Time tp25 at which water is 75% of effective depth (minutes)	1.00	mins
Time tp25 at which water is 25% of effective depth (minutes)	11.00	mins
Time for water level to fall between Vp75 -25	10	mins
Time for water level to fall between Vp75 -25	600	secs
Internal surface area of hole up to 50% depth including base	5.00	m2
Soil Infiltration Rate, f	3.27E-04	m/s

Assumes pit is not filled





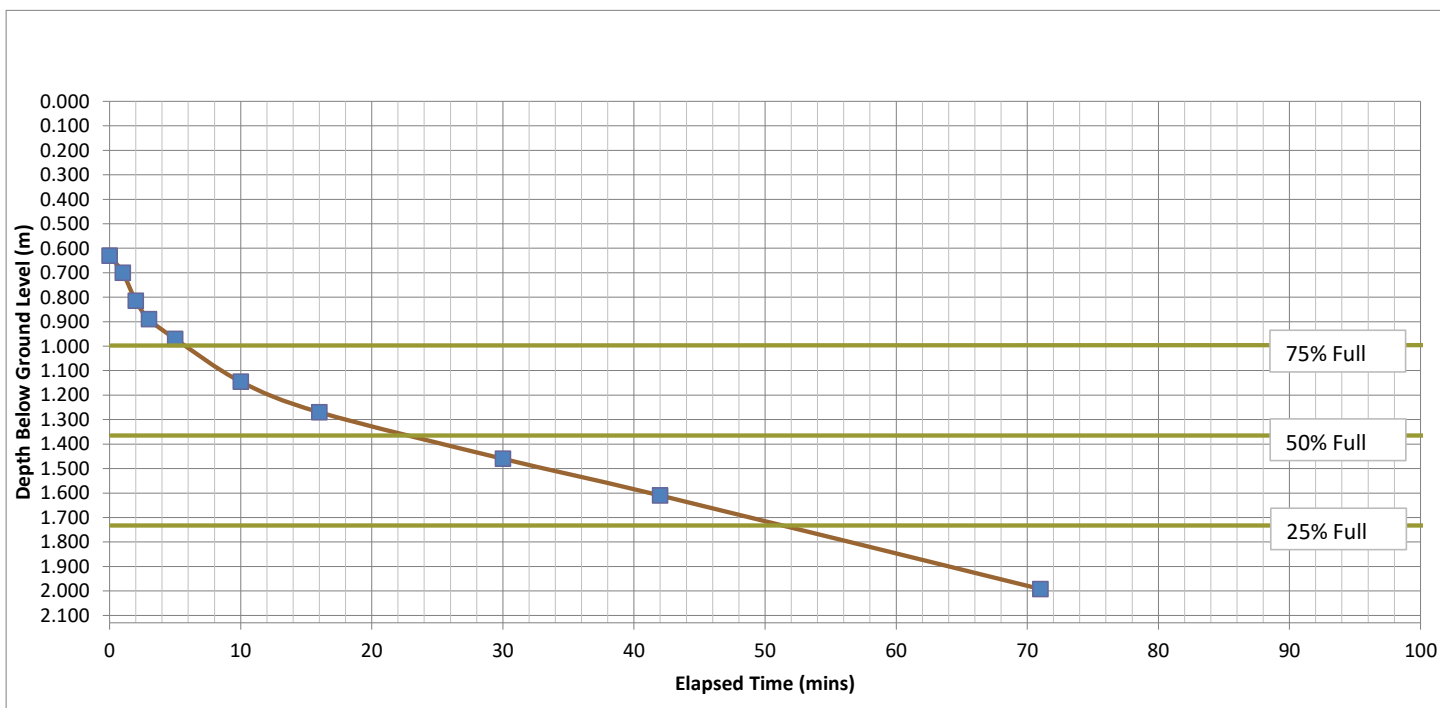
Tel / Fax: 0161 2824518
Web: www.earthenvironmental.co.uk
Email: adam@earthenvironmental.co.uk

SOAKAWAY TEST

(To: BRE 365 1991)

Job No:	A2352
Site:	Ruabon Park
Client:	ALDI Stores UK Ltd

Location Reference:	SA02 - Test 1		
Date	10/01/2019		
Geology in test section	Sand and Gravel		
Depth to Base of Hole	2.1	m	
Effective Depth	1.47	m	
Hole width	0.76	m	
Hole length	1.9	m	
Depth to water at start of test below ground level	0.63	m	
Depth to water at end of test below ground level	1.78	m	
Effective storage depth to 75% full	1.10	m	
(Depth below GL)	1.00	m	
Effective storage depth to 50% full	0.74	m	
(Depth below GL)	1.37	m	
Effective storage depth to 25% full	0.37	m	
(Depth below GL)	1.73	m	
Height to 50% depth	0.735	m3	
Effective Storage Volume Vp75-25	1.06	m3	Assumes pit is not filled
Time tp25 at which water is 75% of effective depth (minutes)	6.00	mins	
Time tp25 at which water is 25% of effective depth (minutes)	52.00	mins	
Time for water level to fall between Vp75 -25	46	mins	
Time for water level to fall between Vp75 -25	2760	secs	
Internal surface area of hole up to 50% depth including base	5.35	m2	
Soil Infiltration Rate, f	7.18E-05	m/s	

[illegible]



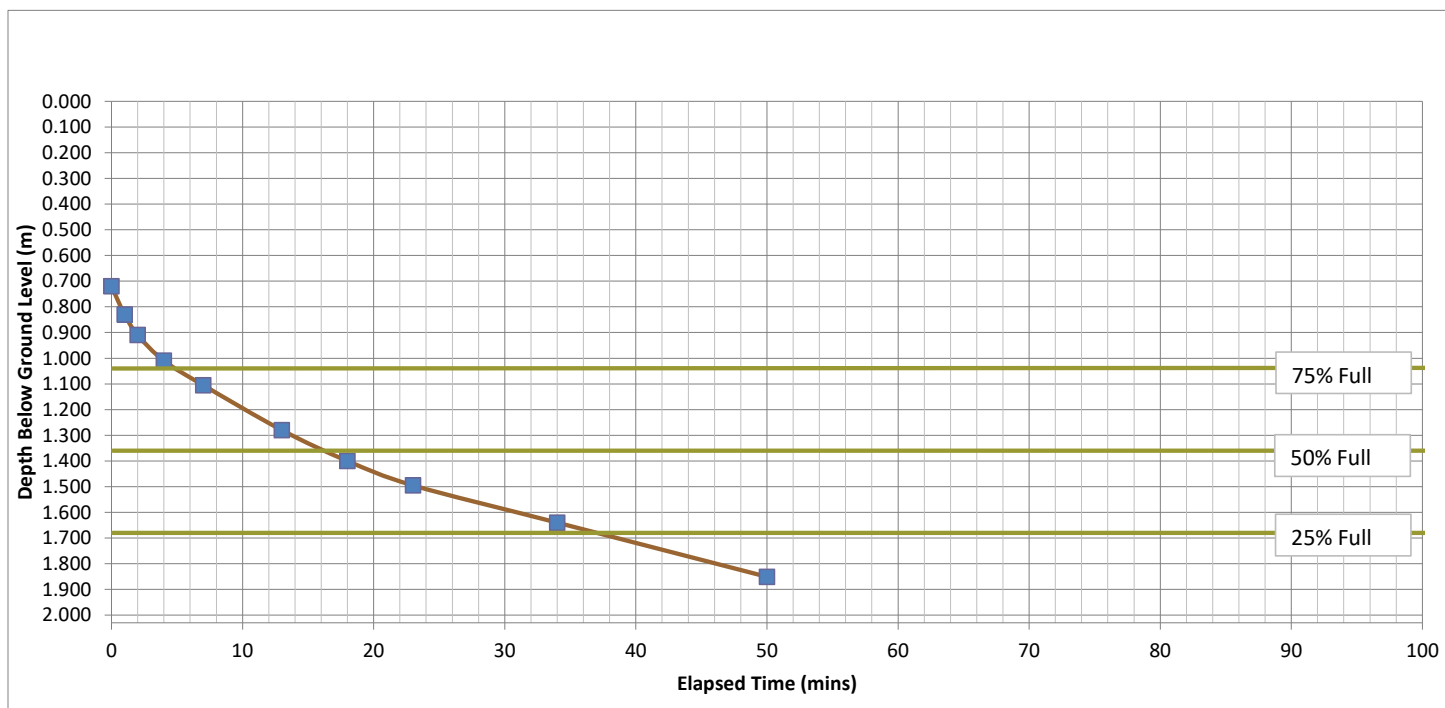
Tel / Fax: 0161 2824518
Web: www.earthenvironmental.co.uk
Email: adam@earthenvironmental.co.uk

(To: BRE 365 1991)

Job No:	A2352
Site:	Ruabon Park
Client:	ALDI Stores UK Ltd

SA02 - Test 2	
10/01/2019	
Sand and Gravel	
2	m
1.28	m
1.15	m
2	m
0.72	m
1.64	m
0.96	m
1.04	m
0.64	m
1.36	m
0.32	m
1.68	m
0.640	m3
1.47	m3
5.50	mins
37.50	mins
32	mins
1920	secs
6.33	m2
1.21E-04	m/s

	Assumes pit is not filled
--	---------------------------

[illegible]



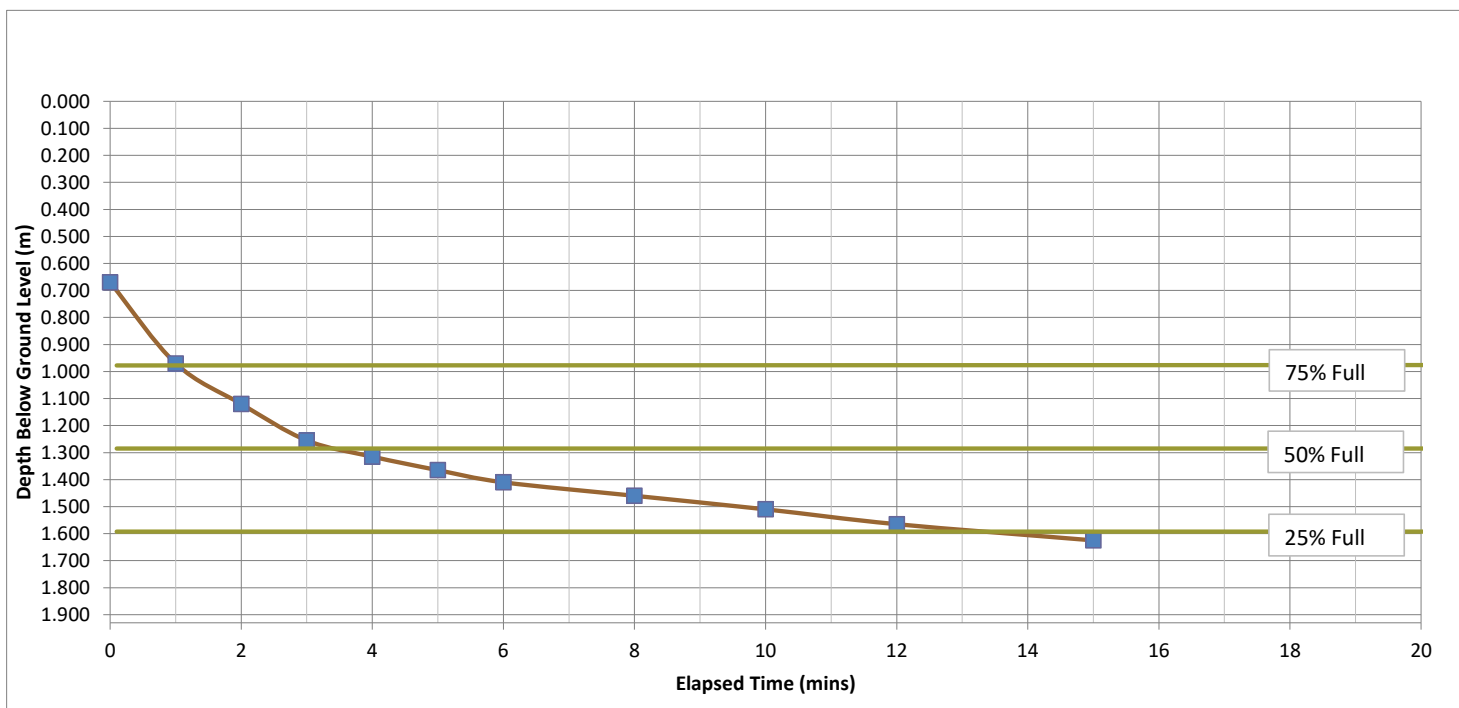
Tel / Fax: 0161 2824518
Web: www.earthenvironmental.co.uk
Email: adam@earthenvironmental.co.uk

(To: BRE 365 1991)

Job No:	A2352
Site:	Ruabon Park
Client:	ALDI Stores UK Ltd

SA02 - Test 3	
10/01/2019	
Sand and Gravel	
1.9	m
1.23	m
0.75	m
1.9	m
0.67	m
1.60	m
0.92	m
0.98	m
0.62	m
1.29	m
0.31	m
1.59	m
0.615	m3
0.88	m3
1.00	mins
13.00	mins
12	mins
720	secs
4.68	m2
2.60E-04	m/s

Assumes pit is not filled

[illegible]



SOAKAWAY TEST

(To: BRE 365 1991)

Tel / Fax: 0161 2824518
Web: www.earthenvironmental.co.uk
Email: adam@earthenvironmental.co.uk

Job No: A2352
Site: Ruabon Park
Client: ALDI Stores UK Ltd

Location Reference:

Date
Geology in test section
Depth to Base of Hole
Effective Depth
Hole width
Hole length
Depth to water at start of test below ground level
Depth to water at end of test below ground level
Effective storage depth to 75% full
(Depth below GL)
Effective storage depth to 50% full
(Depth below GL)
Effective storage depth to 25% full
(Depth below GL)
Height to 50% depth
Effective Storage Volume V_{p75-25}
Time tp_{25} at which water is 75% of effective depth (minutes)
Time tp_{25} at which water is 25% of effective depth (minutes)
Time for water level to fall between V_{p75-25}
Time for water level to fall between V_{p75-25}
Internal surface area of hole up to 50% depth including base
Soil Infiltration Rate, f

SA03 - Test 1

10/01/2019

Gravelly Sand

2.1 m

1.61 m

0.72 m

1.87 m

0.49 m

1.505 m

1.21 m

0.89 m

0.81 m

1.30 m

0.40 m

1.70 m

0.805 m3

1.08 m3

25.00 mins

216.00 mins

191 mins

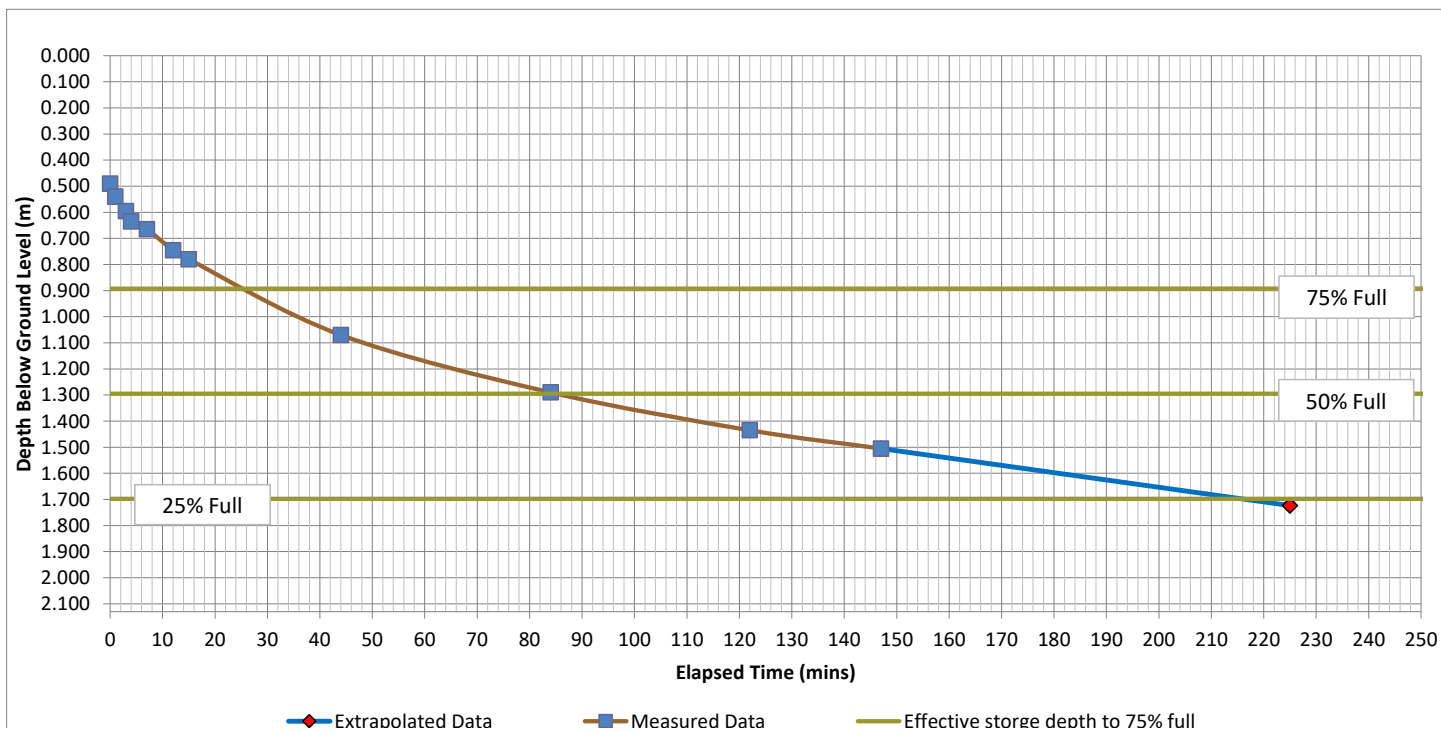
11460 secs

5.52 m2

1.71E-05 m/s

Assumes pit is not filled

Time Elapsed (mins)	Depth of Water below GL (m)	Measured Data
0	0.490	
1	0.540	
3	0.595	
4	0.635	
7	0.665	
12	0.745	
15	0.780	
44	1.070	
84	1.290	
122	1.435	
147	1.505	Extrapolated Data
225	1.723	





SOAKAWAY TEST

(To: BRE 365 1991)

Tel / Fax: 0161 2824518
Web: www.earthenvironmental.co.uk
Email: adam@earthenvironmental.co.uk

Job No: A2352
Site: Ruabon Park
Client: ALDI Stores UK Ltd

Location Reference:

Date
Geology in test section
Depth to Base of Hole
Effective Depth
Hole width
Hole length
Depth to water at start of test below ground level
Depth to water at end of test below ground level
Effective storage depth to 75% full
(Depth below GL)
Effective storage depth to 50% full
(Depth below GL)
Effective storage depth to 25% full
(Depth below GL)
Height to 50% depth
Effective Storage Volume Vp75-25
Time tp25 at which water is 75% of effective depth (minutes)
Time tp25 at which water is 25% of effective depth (minutes)
Time for water level to fall between Vp75 -25
Time for water level to fall between Vp75 -25
Internal surface area of hole up to 50% depth including base
Soil Infiltration Rate, f

SA03 - Test 2

10/01/2019

Gravelly Sand

2.1

m

1.705

m

0.72

m

1.87

m

0.395

m

1.265

m

1.28

m

0.82

m

0.85

m

1.25

m

0.43

m

1.674

m

0.853

m3

1.15

m3

38.00

mins

271.00

mins

233

mins

13980

secs

5.76

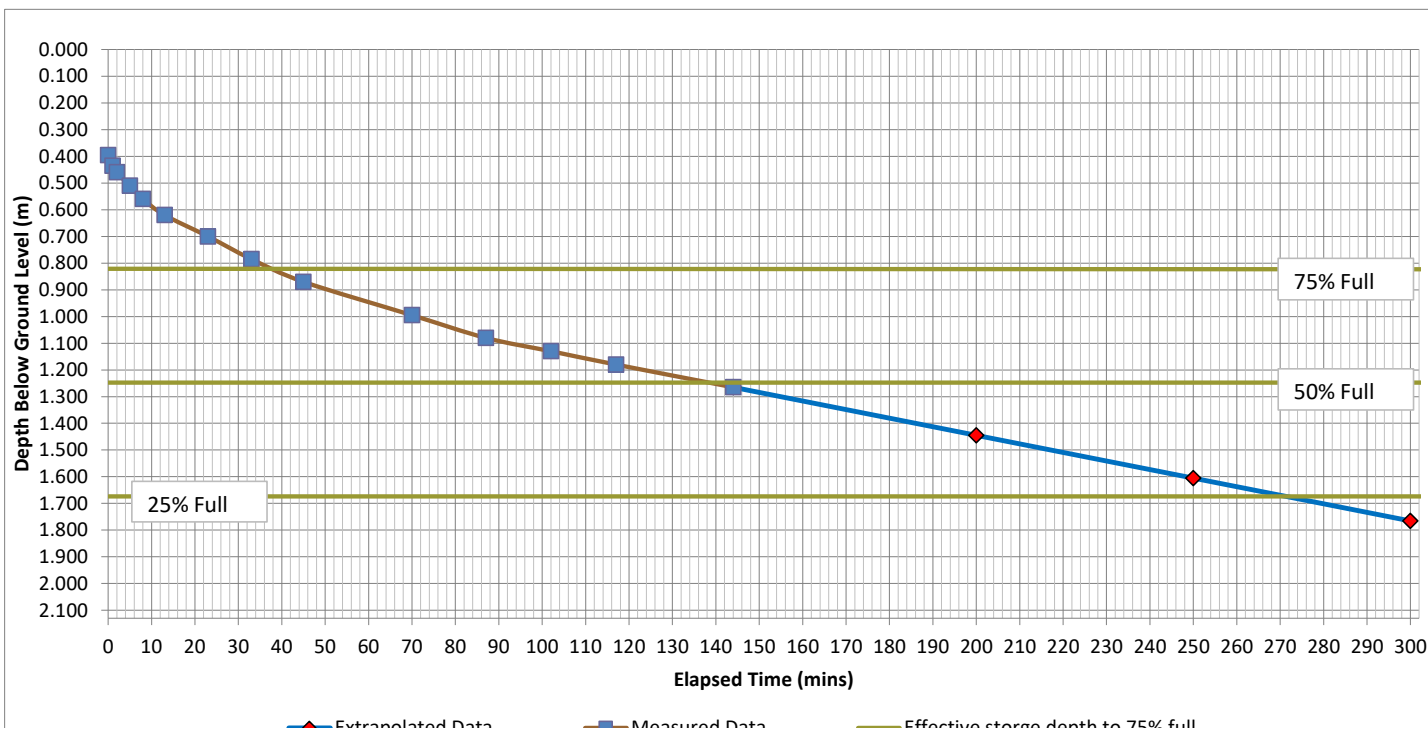
m2

1.42E-05

m/s

Assumes pit is not filled

Time Elapsed (mins)	Depth of Water below GL (m)	Measured Data
0	0.395	
1	0.435	
2	0.460	
5	0.510	
8	0.560	
13	0.620	
23	0.700	
33	0.785	
45	0.870	
70	0.995	
87	1.080	
102	1.130	
117	1.180	
144	1.265	
200	1.445	Extrapolated Data
250	1.605	
300	1.766	





SOAKAWAY TEST

(To: BRE 365 1991)

Tel / Fax: 0161 2824518
Web: www.earthenvironmental.co.uk
Email: adam@earthenvironmental.co.uk

Job No: A2352
Site: Ruabon Park
Client: ALDI Stores UK Ltd

Location Reference:

Date
Geology in test section
Depth to Base of Hole
Effective Depth
Hole width
Hole length
Depth to water at start of test below ground level
Depth to water at end of test below ground level
Effective storage depth to 75% full
(Depth below GL)
Effective storage depth to 50% full
(Depth below GL)
Effective storage depth to 25% full
(Depth below GL)
Height to 50% depth
Effective Storage Volume V_{p75-25}
Time tp_{25} at which water is 75% of effective depth (minutes)
Time tp_{25} at which water is 25% of effective depth (minutes)
Time for water level to fall between V_{p75-25}
Time for water level to fall between V_{p75-25}
Internal surface area of hole up to 50% depth including base
Soil Infiltration Rate, f

SA03 - Test 3

10/01/2019

Gravelly Sand

2.1 m

1.82 m

0.72 m

1.87 m

0.28 m

0.94 m

1.37 m

0.74 m

0.91 m

1.19 m

0.46 m

1.645 m

0.910 m³

1.23 m³

40.00 mins

187.50 mins

148 mins

8850 secs

6.06 m²

2.28E-05 m/s

Assumes pit is not filled

Time Elapsed (mins)	Depth of Water below GL (m)	Measured Data
0	0.280	
1	0.300	
2	0.330	
5	0.365	
8	0.415	
11	0.470	
20	0.560	
30	0.655	
40	0.735	
50	0.810	
60	0.880	Extrapolated Data
70	0.940	
100	1.120	
150	1.420	
200	1.720	

