



**APPENDIX B – TOPOGRAPHICAL SITE SURVEY AND INFILTRATION TEST  
RESULTS**



**ABBREVIATIONS**

ABH	Arch Beam Height	KD	Kerb Outlet
B	Block	LTS	Low Traffic Strip
BA	Battery	LF	Level Foot
BB	Belted Beacon	MH	Manhole
BD	Bed	MB	Manure
BI	Borehole or Beam Height	MWF	Metal Security Fence
BL	Bed Level	OV	Over Flow Pipe
BP	Block Pier	OV	Overhead Cable
BR	Brick Retaining Wall	P	Pipe
BS	Bus Stop	PAL	Palisade Fence
BT	Brick Terrace	PF	Post Fence
BW	Brick New Fence	PL	Plaster Light
CP	Color Pot	PM	Plumbing Manhole
CAB	Cabinet	PF	Post & Rail Fence
CBF	Close Boarded Fence	PP	Propagator Well Height
CBW	Concrete Block Wall	R	Road
CF	Corrugated Iron Fence	RAD	Roadside
CL	Clow Level	RE	Roading Eye
CLF	Clow Line Fence	REH	Ridge Height
COL	Column	RS	Road Sign
CPF	Concrete Panel Fence	RWP	Road Water Pipe
CPS	Concrete Paving Stone	S	Stone
CWR	Concrete Retaining Wall	SP	Stop Valve
CSU	Cable Slopes Slip	SL	Stiff Level or Skylight
CTV	Cable Television	ST	Set Back
CM	Concrete Wall	SR	SERVICES
CTY	Crack Paving	SR	Stone Paving Stone
D	Door	SRW	Stone Retaining Wall
DHL	Door Head Level	SA	Sideway
DBH	Door Beam Height	SW	Surface Water Sewer
EC	Electricity Cover	TJ	Top of Joint
EH	Event Height	T	Tree
EP	Electricity Pole	TL	Traffic Light
FB	Flower Bed	UL	Underneath of Roof Joint
FC	Floor Ceiling	UR	Underneath of Ridge Board
F/S	Fire Escape	UR	Underneath of Wall Plate
FBI	Flat Roof Height	V	Vent
FL	Floor Level	V	Vent Pipe
FMS	Foul Water Sewer	WS	Wooden Sapper
GY	Gully	W	Water Level
GV	Gas Valve	WM	Water Meter
IC	Inspection Cover	WLF	Wire Mesh Fence
L	Level Line	WPF	Wooden Panel Fence
IRF	Iron Retaining Fence	WCL	Wooden Cill Level
IRF	Iron Retaining Fence	WHL	Wooden Head Level
IRF	Iron Retaining Fence	WWR	Wooden Retaining Wall

**STATION CO-ORDINATE TABLE**

Ref.	East	North	Elevation
1	553874.851	237658.095	86.899
2	553868.400	23770.741	83.313
3	553865.123	23770.784	83.814
4	553939.115	23774.895	85.280
5	553931.800	23770.871	87.000
6	553876.229	23766.902	84.826
7	553934.242	23765.281	86.488
8	553935.842	23760.870	87.208
9	553975.683	23762.079	88.253

- NOTES**
1. ALL LEVELS SHOWN ARE RELATED TO ORDNANCE SURVEY DATUM.
  2. TREE TYPES SHOWN ON THIS DRAWING CANNOT BE GUARANTEED AND IF CRITICAL SHOULD BE VERIFIED BY A TREE SPECIALIST. TREE SPREADS ARE AVERAGES UNLESS OTHERWISE INDICATED. TREE HEIGHTS ARE APPROXIMATE.
  3. ALTHOUGH CARE HAS BEEN TAKEN, DUE TO ACCESS LIMITATIONS ALL HIGH LEVEL DETAIL HAS BEEN SURVEYED REMOTELY AND NOT CHECKED BY PHYSICAL MEASUREMENTS.
  4. ALL CRITICAL MEASUREMENTS MUST BE CHECKED / VERIFIED.
  5. ALL CO-ORDINATES AND LEVELS SHOWN RELATE TO AN ORDNANCE SURVEY DERIVED GRID.

**REVISIONS**

NO.	DESCRIPTION	DATE
C.	DRAINAGE SURVEY AMENDED.	02/01/18
B.	SERVICES SURVEY ADDED.	17/01/18
A.	SURVEY ENHANCED FOLLOWING MEASURED BUILDING SURVEY.	04/01/18

**REVISIONS** DATE

SCALE: 1:500 @ A0  
 DATE: MAY 2018  
 DRAWN: JL / GR  
 JOB No:


TITLE: TOPOGRAPHICAL SURVEY SHEET 1 OF 2

JOB: FRIENDS SCHOOL, SAFFRON WALDEN.  
 CLIENT: CHASE NEW HOMES  
 DWG. No: DAT / 9.0C

**ATUW** SURVEY SERVICES LTD  
 BRICKFIELD HOUSE  
 HIGH ROAD  
 THORNWOOD  
 EPPING  
 ESSEX CM16 6TH  
 TEL: 07977 112286  
 OR 07977 11935





Client <b>Chase New Homes</b>	Project <b>Friends School, Playing Fields</b>	Job No <b>CG/39877</b>	
 <b>GEOTECHNICAL &amp; GEOENVIRONMENTAL CONSULTANCY</b> <small>A PHENNA GROUP COMPANY</small>	Title <b>Exploratory Hole Location Plan          – Soakage Pits</b>	<b>Figure 1</b>	
		Drafted by:	JMW
		Checked by:	DRAFT
Approved by:	DRAFT		

<b>DATE:</b>	April 2024	Card Geotechnics Limited, 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW Tel: 01483 310600	 <b>GEOTECHNICAL &amp; GEOENVIRONMENTAL CONSULTANCY</b> <small>A PHENNA GROUP COMPANY</small>
<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA01		
<b>TEST NUMBER:</b>	1		

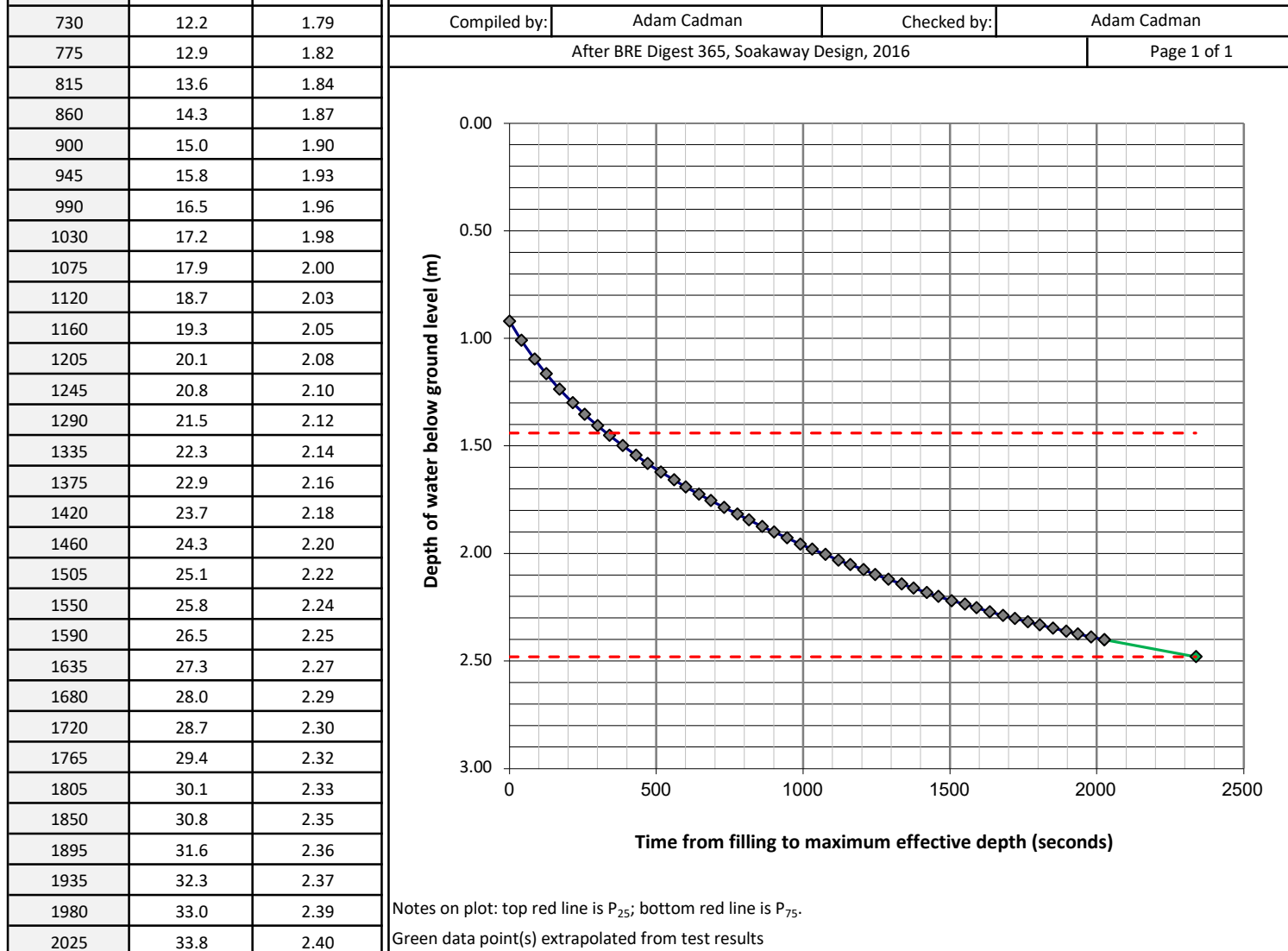
### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):	2.40 m
			Structureless Chalk		PIT WIDTH (W):	0.64 m
		PIT DEPTH (D):			3.00 m	
INPUT PARAMETERS:			P <sub>25</sub> achieved?		Extrapolated	
0	0.0	0.92	Maximum potential volume of water (V)		(m <sup>3</sup> )	3.19
40	0.7	1.01	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ ED		(m <sup>3</sup> )	1.60
85	1.4	1.10	Maximum head of water lost during test (ED) = ED - Water depth @ time 0		(m)	2.08
125	2.1	1.16	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	9.68
170	2.8	1.24	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	1.44
215	3.6	1.30	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.48
255	4.3	1.35	Time at 75% effective depth (T <sub>75</sub> )		(s)	331
300	5.0	1.41	Time at 25% effective depth (T <sub>25</sub> )		(s)	2337
340	5.7	1.45	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	2006
385	6.4	1.50	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25} / (AP_{50} \times T_{75} - T_{25})$		(m/s)	<b>8.2E-05</b>
430	7.2	1.54	<b>Test remarks</b>			
470	7.8	1.58				
515	8.6	1.62	Test measurements taken with data loggers. Data has been processed to reduce the number of individual data points (as provided to the left and plotted below).			
560	9.3	1.66	Final data point(s) extrapolated from trend of results.			

Compiled by: Adam Cadman      Checked by: Adam Cadman

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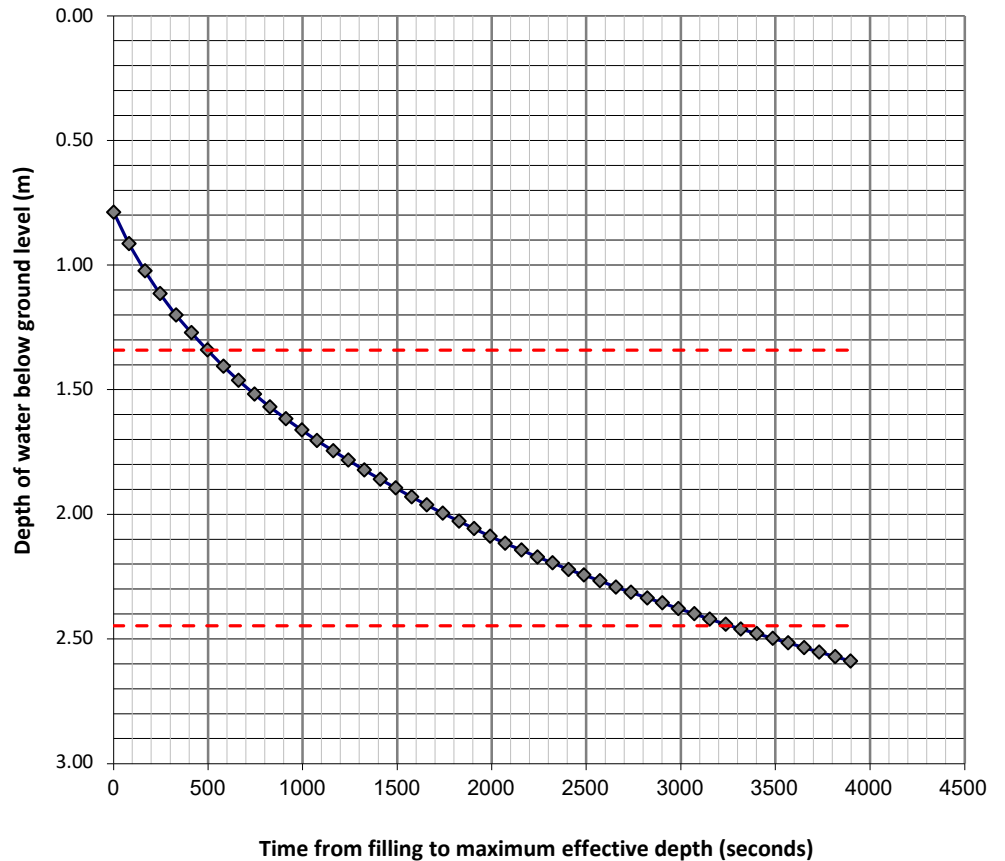
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<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA01		
<b>TEST NUMBER:</b>	2		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):		2.40 m
			Structureless Chalk		PIT WIDTH (W):		0.64 m
			INPUT PARAMETERS:		P <sub>25</sub> achieved?		Yes
0	0.0	0.79	Maximum potential volume of water (V)		(m <sup>3</sup> )	3.40	
80	1.3	0.91	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ D		(m <sup>3</sup> )	1.70	
165	2.8	1.02	Maximum depth of water (MDW) = D - Water depth @ time 0		(m)	2.21	
245	4.1	1.11	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	8.26	
330	5.5	1.20	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	1.34	
410	6.8	1.27	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.45	
495	8.3	1.34	Time at 75% effective depth (T <sub>75</sub> )		(s)	495	
580	9.7	1.41	Time at 25% effective depth (T <sub>25</sub> )		(s)	3261	
660	11.0	1.46	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	2766	
745	12.4	1.52	<b>SOIL INFILTRATION RATE (f) =</b> $PV_{75-25}/(AP_{50} \times T_{75}-T_{25})$		(m/s)	<b>7.4E-05</b>	
825	13.8	1.57	<b>Test remarks</b>				
910	15.2	1.62	Test measurements taken with data loggers. Data has been processed to reduce the number of individual data points (as provided to the left and plotted below).				
995	16.6	1.66	Compiled by:		Adam Cadman	Checked by: Adam Cadman	


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Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.

1075	17.9	1.70
1160	19.3	1.74
1240	20.7	1.78
1325	22.1	1.82
1410	23.5	1.86
1490	24.8	1.89
1575	26.3	1.93
1655	27.6	1.96
1740	29.0	2.00
1825	30.4	2.03
1905	31.8	2.06
1990	33.2	2.09
2070	34.5	2.12
2155	35.9	2.14
2240	37.3	2.17
2320	38.7	2.19
2405	40.1	2.22
2485	41.4	2.24
2570	42.8	2.27
2655	44.3	2.29
2735	45.6	2.31
2820	47.0	2.34
2900	48.3	2.36
2985	49.8	2.38
3070	51.2	2.40
3150	52.5	2.42
3235	53.9	2.44
3315	55.3	2.46
3400	56.7	2.48
3485	58.1	2.50
3565	59.4	2.52
3650	60.8	2.54
3730	62.2	2.55
3815	63.6	2.57
3895	64.9	2.59

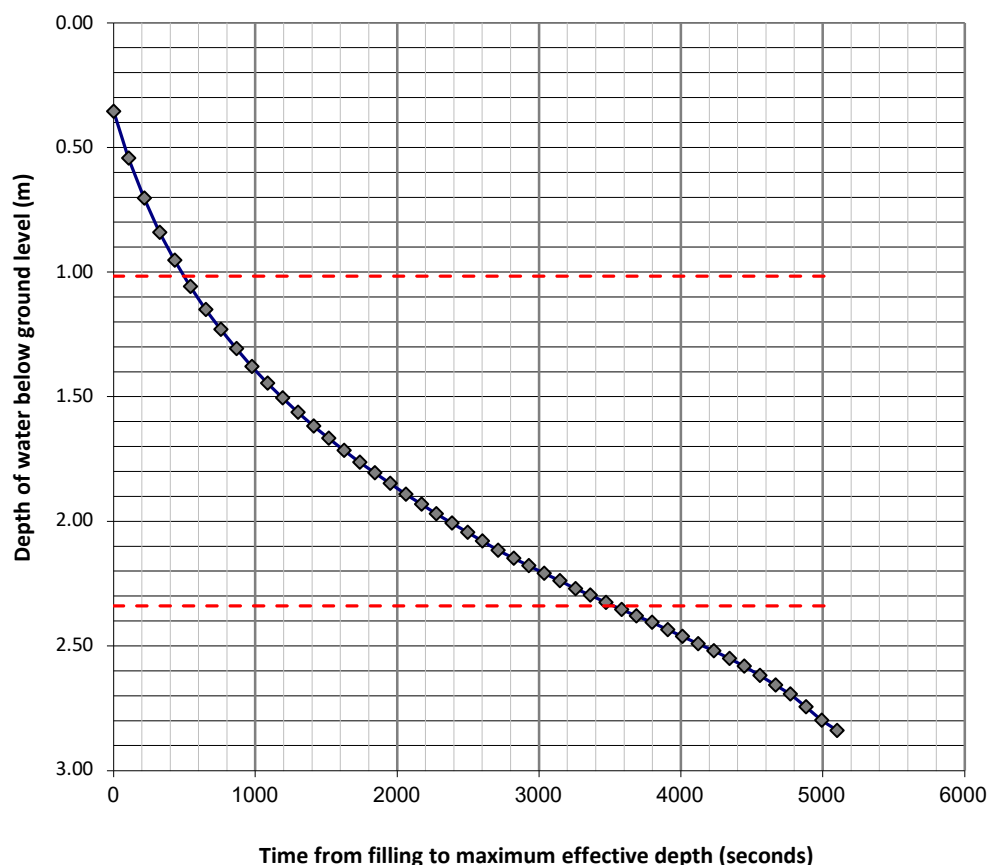
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<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA01		
<b>TEST NUMBER:</b>	3		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY


Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):	2.40 m
			Structureless Chalk		PIT WIDTH (W):	0.64 m
		PIT DEPTH (D):			3.00 m	
			INPUT PARAMETERS:		P <sub>25</sub> achieved?	
0	0.0	0.35	Maximum potential volume of water (V)		(m <sup>3</sup> )	4.06
105	1.8	0.54	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ D		(m <sup>3</sup> )	2.03
215	3.6	0.70	Maximum depth of water (MDW) = D - Water depth @ time 0		(m)	2.65
325	5.4	0.84	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	9.58
430	7.2	0.95	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	1.02
540	9.0	1.06	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.34
650	10.8	1.15	Time at 75% effective depth (T <sub>75</sub> )		(s)	497
755	12.6	1.23	Time at 25% effective depth (T <sub>25</sub> )		(s)	3524
865	14.4	1.31	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	3027
975	16.3	1.38	<b>SOIL INFILTRATION RATE (f) =</b> $PV_{75-25}/(AP_{50} \times T_{75}-T_{25})$		(m/s)	<b>7.0E-05</b>
1085	18.1	1.45	<b>Test remarks</b>			
1190	19.8	1.50	Test measurements taken with data loggers. Data has been processed to reduce the number of individual data points (as provided to the left and plotted below).			
1300	21.7	1.56				

1410	23.5	1.62	Compiled by: Adam Cadman		Checked by: Adam Cadman	
1515	25.3	1.67	After BRE Digest 365, Soakaway Design, 2016			
1625	27.1	1.72	Page 1 of 1			
1735	28.9	1.76				
1840	30.7	1.81				

1950	32.5	1.85				
2060	34.3	1.89				
2170	36.2	1.93				
2275	37.9	1.97				
2385	39.8	2.01				
2495	41.6	2.04				
2600	43.3	2.08				
2710	45.2	2.12				
2820	47.0	2.15				
2925	48.8	2.18				
3035	50.6	2.21				
3145	52.4	2.24				
3255	54.3	2.27				
3360	56.0	2.30				
3470	57.8	2.32				
3580	59.7	2.35				
3685	61.4	2.38				
3795	63.3	2.41				
3905	65.1	2.43				
4010	66.8	2.46				
4120	68.7	2.49				
4230	70.5	2.52				
4340	72.3	2.55				
4445	74.1	2.58				
4555	75.9	2.62				
4665	77.8	2.66				
4770	79.5	2.69				
4880	81.3	2.74				
4990	83.2	2.80				
5100	85.0	2.84				



Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.

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<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA02		
<b>TEST NUMBER:</b>	1		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

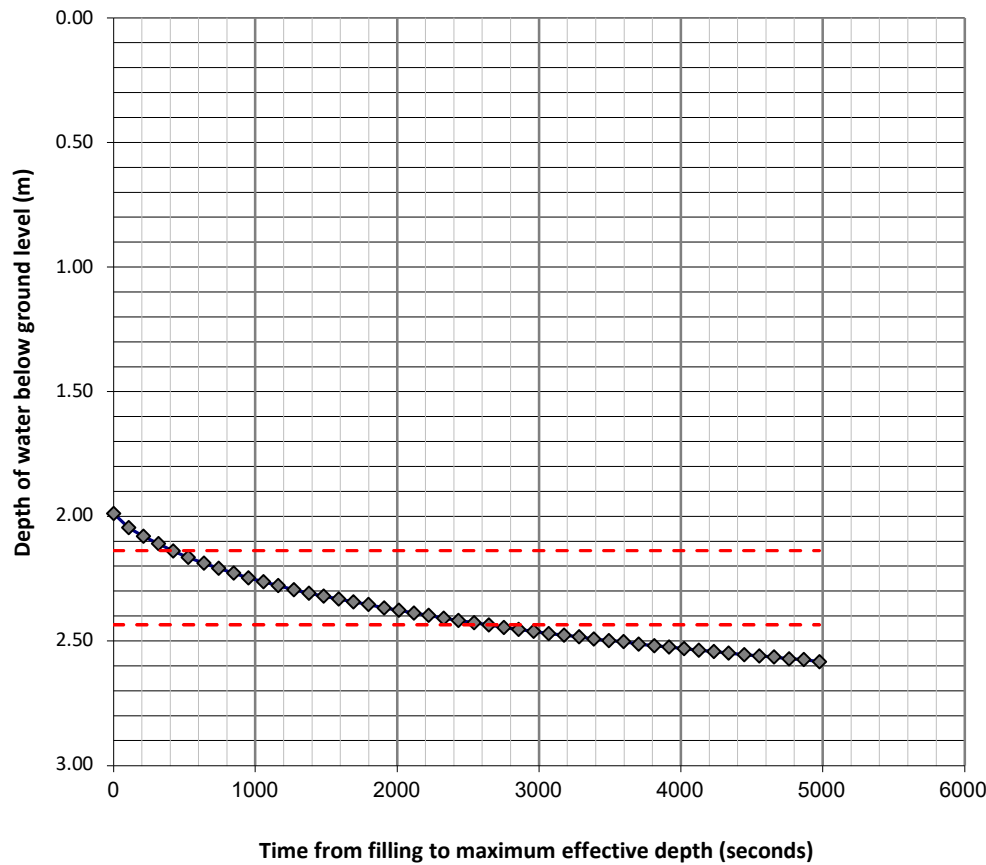
Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):	
			Structureless Chalk		2.00 m	
					PIT WIDTH (W):	
					0.70 m	
					PIT DEPTH (D):	
					3.00 m	
			<b>INPUT PARAMETERS:</b>		<b>P<sub>25</sub> achieved?</b>	
					No	
0	0.0	1.99	Maximum potential volume of water (V)		(m <sup>3</sup> )	0.83
105	1.8	2.05	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ ED		(m <sup>3</sup> )	0.42
210	3.5	2.08	Maximum head of water lost during test (ED) = ED - Water depth @ time 0		(m)	0.60
315	5.3	2.11	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	5.26
420	7.0	2.14	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	2.14
525	8.8	2.16	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.43
635	10.6	2.19	Time at 75% effective depth (T <sub>75</sub> )		(s)	414
740	12.3	2.21	Time at 25% effective depth (T <sub>25</sub> )		(s)	2633
845	14.1	2.23	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	2218
950	15.8	2.25	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25} / (AP_{50} \times T_{75} - T_{25})$		(m/s)	<b>3.6E-05</b>
1055	17.6	2.26				
1160	19.3	2.28				
1270	21.2	2.29				

**Test remarks**

Test measurements taken with data loggers. Data has been processed to reduce the number of individual data points (as provided to the left and plotted below).  
 Pit did not drain to 25% effective depth of initial head of water during the duration of the test. Calculations are based on an Effective Depth (ED) for the actual total drop in water level over test period, and are therefore 'indicative' only.

Compiled by: Adam Cadman      Checked by: Adam Cadman

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Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.

1375	22.9	2.31
1480	24.7	2.32
1585	26.4	2.33
1690	28.2	2.34
1795	29.9	2.35
1905	31.8	2.37
2010	33.5	2.38
2115	35.3	2.39
2220	37.0	2.40
2325	38.8	2.41
2430	40.5	2.42
2540	42.3	2.43
2645	44.1	2.44
2750	45.8	2.45
2855	47.6	2.45
2960	49.3	2.46
3065	51.1	2.47
3175	52.9	2.48
3280	54.7	2.48
3385	56.4	2.49
3490	58.2	2.50
3595	59.9	2.50
3700	61.7	2.51
3810	63.5	2.52
3915	65.3	2.52
4020	67.0	2.53
4125	68.8	2.54
4230	70.5	2.54
4335	72.3	2.55
4445	74.1	2.56
4550	75.8	2.56
4655	77.6	2.56
4760	79.3	2.57
4865	81.1	2.57
4975	82.9	2.58



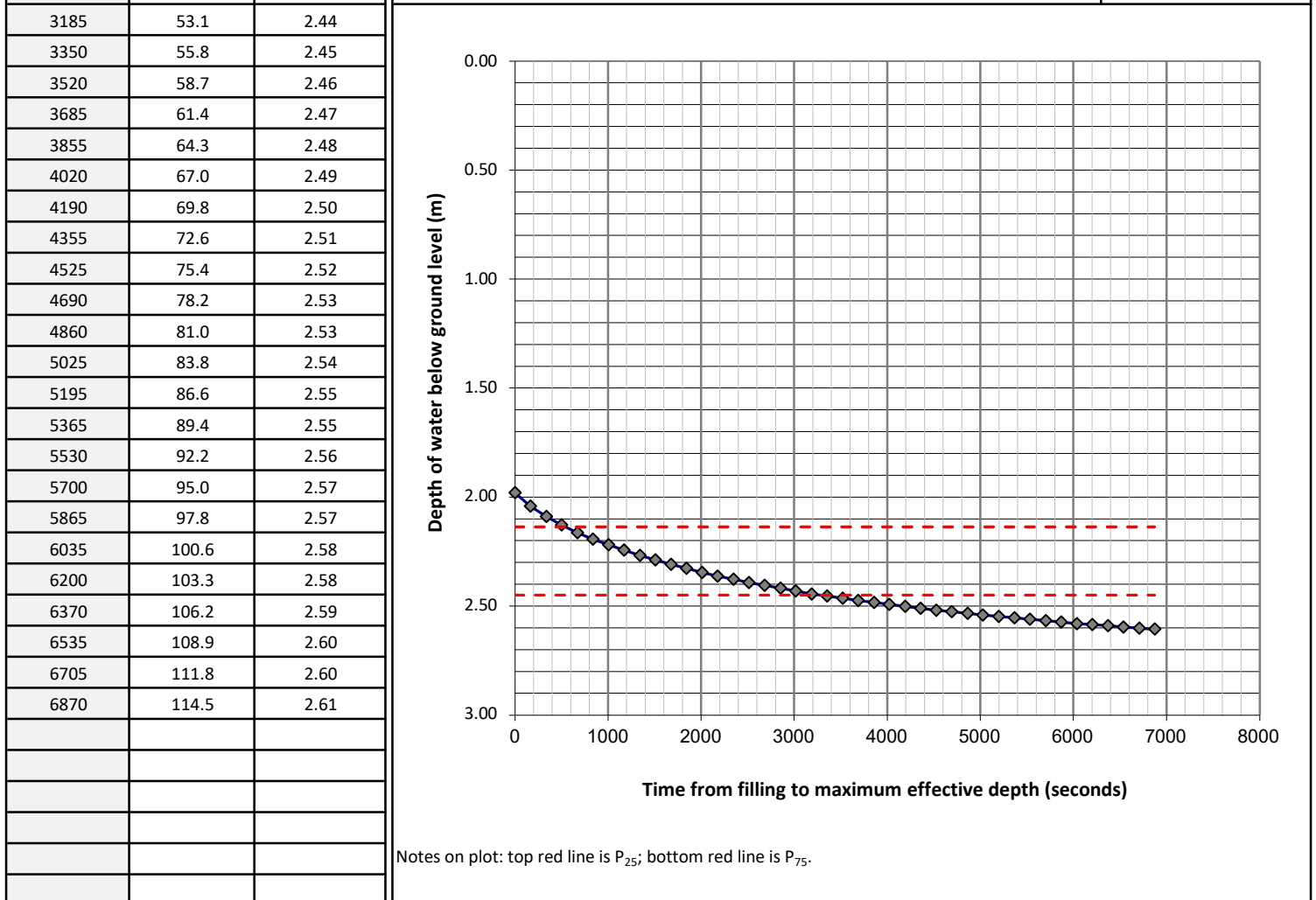
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<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA02		
<b>TEST NUMBER:</b>	2		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):			
			Structureless Chalk		2.00 m		PIT WIDTH (W): 0.70 m	
				PIT DEPTH (D): 3.00 m				
INPUT PARAMETERS:			P <sub>25</sub> achieved?		No			
Maximum potential volume of water (V)				(m <sup>3</sup> )	0.88			
Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ ED				(m <sup>3</sup> )	0.44			
Maximum head of water lost during test (ED) = ED - Water depth @ time 0				(m)	0.63			
Surface area of pit up to 50% effective depth (AP <sub>50</sub> )				(m <sup>2</sup> )	5.22			
Level of water in pit at 75% effective depth (P <sub>25</sub> )				(m)	2.14			
Level of water in pit at 25% effective depth (P <sub>75</sub> )				(m)	2.45			
Time at 75% effective depth (T <sub>75</sub> )				(s)	540			
Time at 25% effective depth (T <sub>25</sub> )				(s)	3276			
Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )				(s)	2736			
<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25}/(AP_{50} \times T_{75}-T_{25})$				(m/s)	<b>3.1E-05</b>			

**Test remarks**  
 Test measurements taken with data loggers. Data has been processed to reduce the number of individual data points (as provided to the left and plotted below).  
 Pit did not drain to 25% effective depth of initial head of water during the duration of the test. Calculations are based on an Effective Depth (ED) for the actual total drop in water level over test period, and are therefore 'indicative' only.

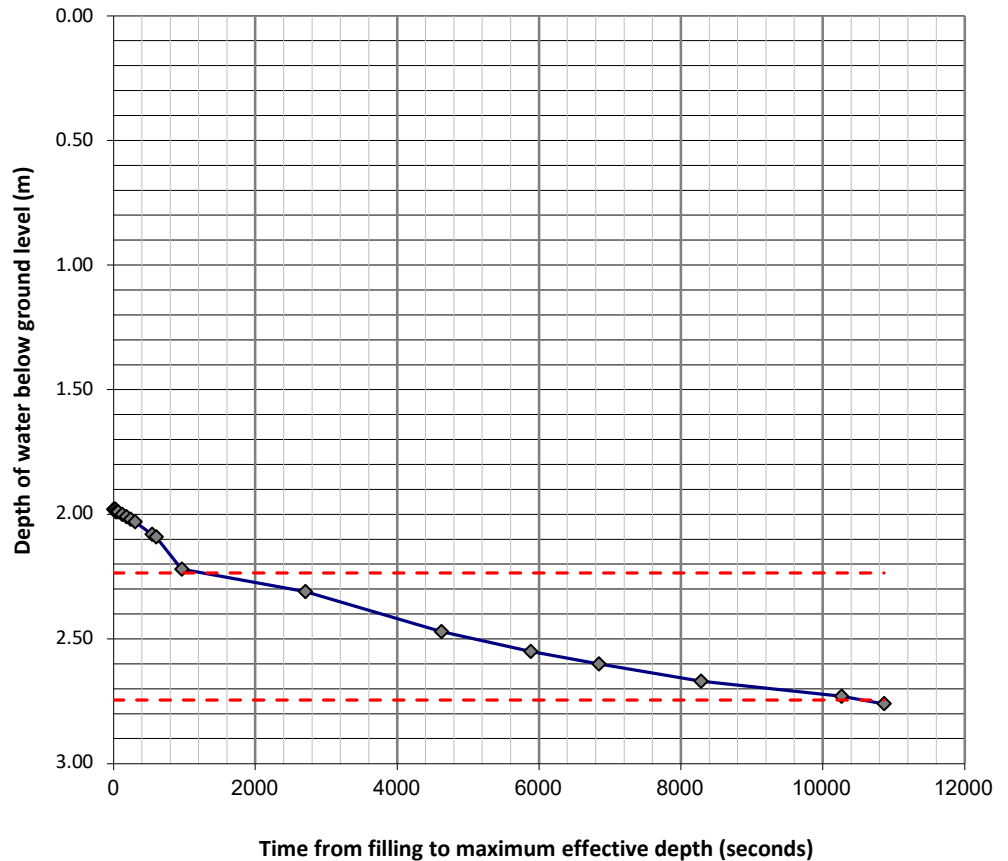
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<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA02		
<b>TEST NUMBER:</b>	3		

**SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY**

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):		2.00 m					
			Structureless Chalk		PIT WIDTH (W):		0.70 m					
		PIT DEPTH (D):			3.00 m							
			INPUT PARAMETERS:		P <sub>25</sub> achieved?		Yes					
0	0.0	1.98	Maximum potential volume of water (V)		(m <sup>3</sup> )	1.43						
10	0.2	1.98	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ D		(m <sup>3</sup> )	0.71						
15	0.3	1.98	Maximum depth of water (MDW) = D - Water depth @ time 0		(m)	1.02						
20	0.3	1.98	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	4.15						
30	0.5	1.99	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	2.24						
60	1.0	1.99	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.75						
120	2.0	2.00	Time at 75% effective depth (T <sub>75</sub> )		(s)	1250						
180	3.0	2.01	Time at 25% effective depth (T <sub>25</sub> )		(s)	10560						
240	4.0	2.02	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	9310						
300	5.0	2.03	<b>SOIL INFILTRATION RATE (f) =</b> $PV_{75-25}/(AP_{50} \times T_{75}-T_{25})$		(m/s)	<b>1.8E-05</b>						
540	9.0	2.08	<b>Test remarks</b>									
600	10.0	2.09										
960	16.0	2.22	Test measurements taken with data loggers.									
2700	45.0	2.31										
4620	77.0	2.47										
5880	98.0	2.55										
6840	114.0	2.60										
8280	138.0	2.67										
10260	171.0	2.73										
10860	181.0	2.76										
								Compiled by:	Adam Cadman	Checked by:	Adam Cadman	
								After BRE Digest 365, Soakaway Design, 2016				Page 1 of 1



Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.

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<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA03		
<b>TEST NUMBER:</b>	1		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

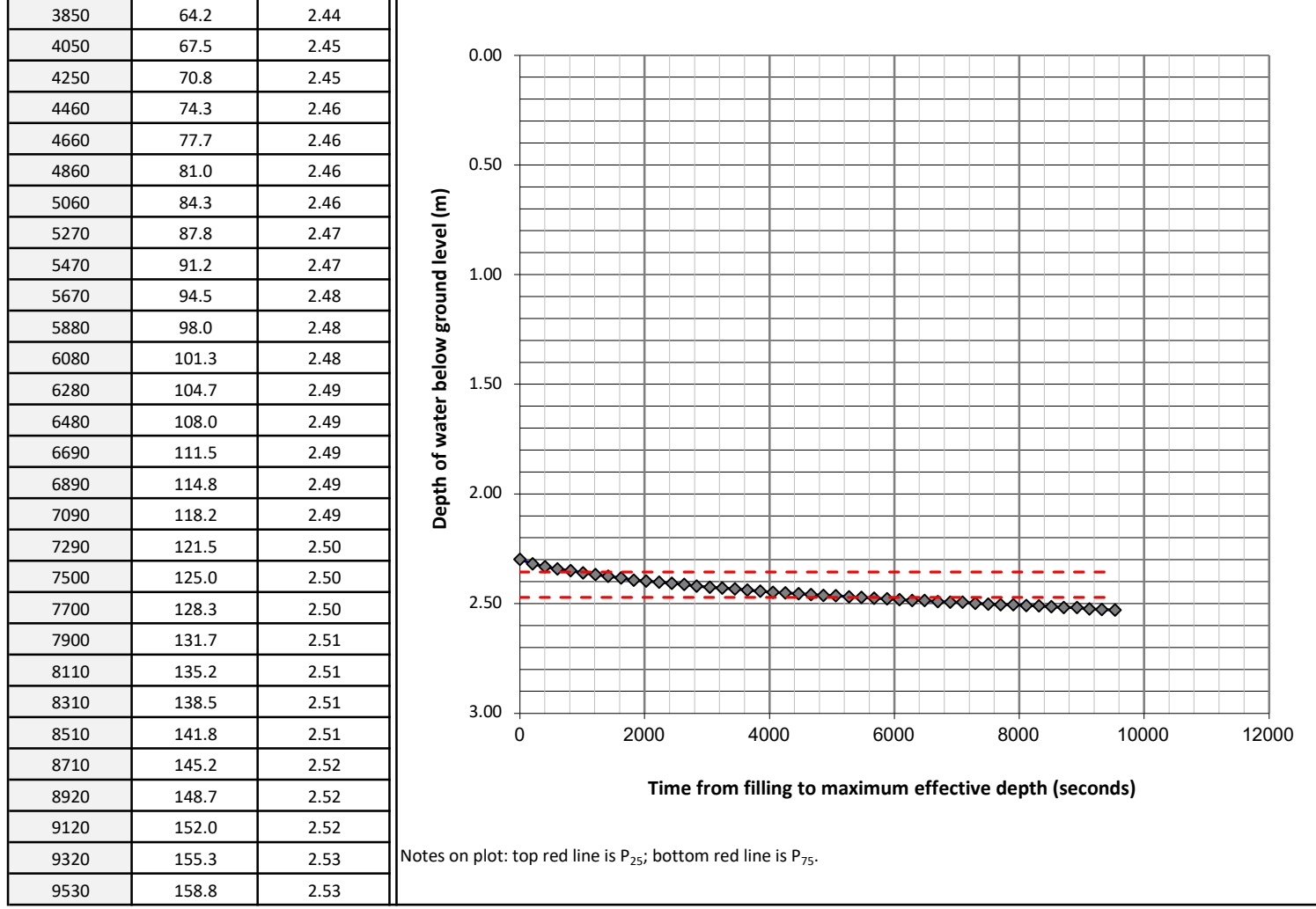
Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):	
			Structureless Chalk		2.00 m	
					0.65 m	
					PIT DEPTH (D):	
					3.00 m	
			INPUT PARAMETERS:		P <sub>25</sub> achieved?	
					No	
0	0.0	2.30	Maximum potential volume of water (V)		(m <sup>3</sup> )	0.30
200	3.3	2.32	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ ED		(m <sup>3</sup> )	0.15
400	6.7	2.33	Maximum head of water lost during test (ED) = ED - Water depth @ time 0		(m)	0.23
600	10.0	2.34	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	4.41
810	13.5	2.35	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	2.36
1010	16.8	2.36	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.47
1210	20.2	2.37	Time at 75% effective depth (T <sub>75</sub> )		(s)	919
1410	23.5	2.38	Time at 25% effective depth (T <sub>25</sub> )		(s)	5407
1620	27.0	2.38	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	4489
1820	30.3	2.39	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25}/(AP_{50} \times T_{75}-T_{25})$		(m/s)	<b>7.6E-06</b>
2020	33.7	2.40				
2230	37.2	2.40				
2430	40.5	2.41				

**Test remarks**

Test measurements taken with data loggers. Data has been processed to reduce the number of individual data points (as provided to the left and plotted below).

Pit did not drain to 25% effective depth of initial head of water during the duration of the test. Calculations are based on an Effective Depth (ED) for the actual total drop in water level over test period, and are therefore 'indicative' only.

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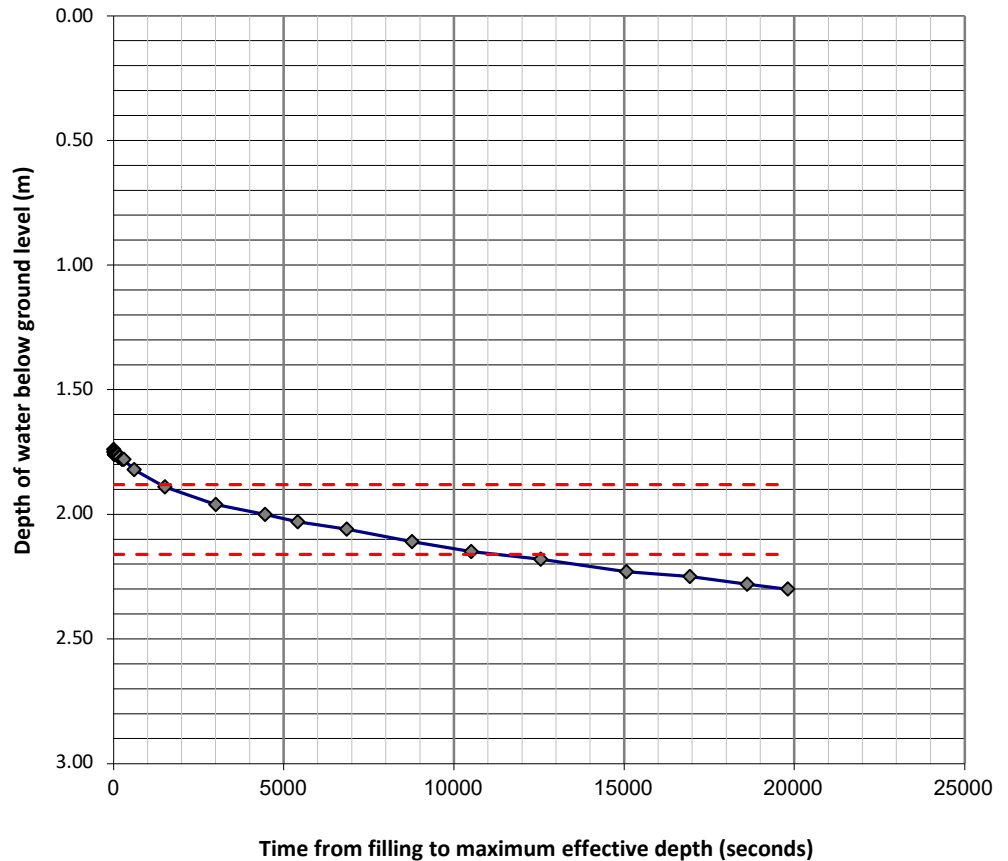
<b>DATE:</b>	April 2024	Card Geotechnics Limited, 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW Tel: 01483 310600	 <b>GEOTECHNICAL &amp; GEOENVIRONMENTAL CONSULTANCY</b> <small>A PHENNA GROUP COMPANY</small>
<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA03		
<b>TEST NUMBER:</b>	3		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):		2.00 m	
			Structureless Chalk		PIT WIDTH (W):		0.65 m	
		PIT DEPTH (D):			3.00 m			
			INPUT PARAMETERS:		P <sub>25</sub> achieved?		No	
0	0.0	1.74	Maximum potential volume of water (V)		(m <sup>3</sup> )	0.73		
5	0.1	1.75	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ ED		(m <sup>3</sup> )	0.36		
10	0.2	1.75	Maximum head of water lost during test (ED) = ED - Water depth @ time 0		(m)	0.56		
15	0.3	1.76	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	6.49		
30	0.5	1.76	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	1.88		
60	1.0	1.76	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.16		
120	2.0	1.76	Time at 75% effective depth (T <sub>75</sub> )		(s)	1372		
150	2.5	1.77	Time at 25% effective depth (T <sub>25</sub> )		(s)	11180		
180	3.0	1.77	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	9809		
240	4.0	1.78	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25}/(AP_{50} \times T_{75}-T_{25})$		(m/s)	<b>5.7E-06</b>		
300	5.0	1.78						
600	10.0	1.82						
1500	25.0	1.89						

**Test remarks**  
 Test measurements taken with dip meter and timer.  
 Pit did not drain to 25% effective depth of initial head of water during the duration of the test. Calculations are based on an Effective Depth (ED) for the actual total drop in water level over test period, and are therefore 'indicative' only.

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Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.

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<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA04		
<b>TEST NUMBER:</b>	1		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):	2.00 m
			Structureless Chalk		PIT WIDTH (W):	0.70 m
		PIT DEPTH (D):			3.00 m	
			INPUT PARAMETERS:		P <sub>25</sub> achieved?	
0	0.0	2.12	Maximum potential volume of water (V)		(m <sup>3</sup> )	0.77
190	3.2	2.18	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ ED		(m <sup>3</sup> )	0.38
390	6.5	2.21	Maximum head of water lost during test (ED) = ED - Water depth @ time 0		(m)	0.55
590	9.8	2.24	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	4.68
790	13.2	2.27	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	2.26
990	16.5	2.29	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.53
1190	19.8	2.31	Time at 75% effective depth (T <sub>75</sub> )		(s)	703
1390	23.2	2.33	Time at 25% effective depth (T <sub>25</sub> )		(s)	4924
1590	26.5	2.34	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	4220
1790	29.8	2.36	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25} / (AP_{50} \times T_{75} - T_{25})$		(m/s)	<b>1.9E-05</b>
1990	33.2	2.38	<b>Test remarks</b>			
2190	36.5	2.39	Test measurements taken with data loggers. Data has been processed to reduce the number of individual data points (as provided to the left and plotted below).			
2380	39.7	2.40	Pit did not drain to 25% effective depth of initial head of water during the duration of the test. Calculations are based on an Effective Depth (ED) for the actual total drop in water level over test period, and are therefore 'indicative' only.			
2580	43.0	2.41	Compiled by:	Adam Cadman	Checked by:	Adam Cadman
2780	46.3	2.43	After BRE Digest 365, Soakaway Design, 2016			Page 1 of 1
2980	49.7	2.44	<div style="text-align: center;"> </div>			
3180	53.0	2.45				
3380	56.3	2.46				
3580	59.7	2.47				
3780	63.0	2.48				
3980	66.3	2.49				
4180	69.7	2.50				
4380	73.0	2.51				
4580	76.3	2.52				
4770	79.5	2.52				
4970	82.8	2.53				
5170	86.2	2.54				
5370	89.5	2.55				
5570	92.8	2.56				
5770	96.2	2.56				
5970	99.5	2.57				
6170	102.8	2.58				
6370	106.2	2.58				
6570	109.5	2.59				
6770	112.8	2.60				
6970	116.2	2.60				
7160	119.3	2.61				
7360	122.7	2.61				
7560	126.0	2.62				
7760	129.3	2.62				
7960	132.7	2.63				
8160	136.0	2.64				
8360	139.3	2.64				
8560	142.7	2.65				
8760	146.0	2.66				
8960	149.3	2.66				
9160	152.7	2.66				
9360	156.0	2.67				

Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.

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<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA04		
<b>TEST NUMBER:</b>	2		

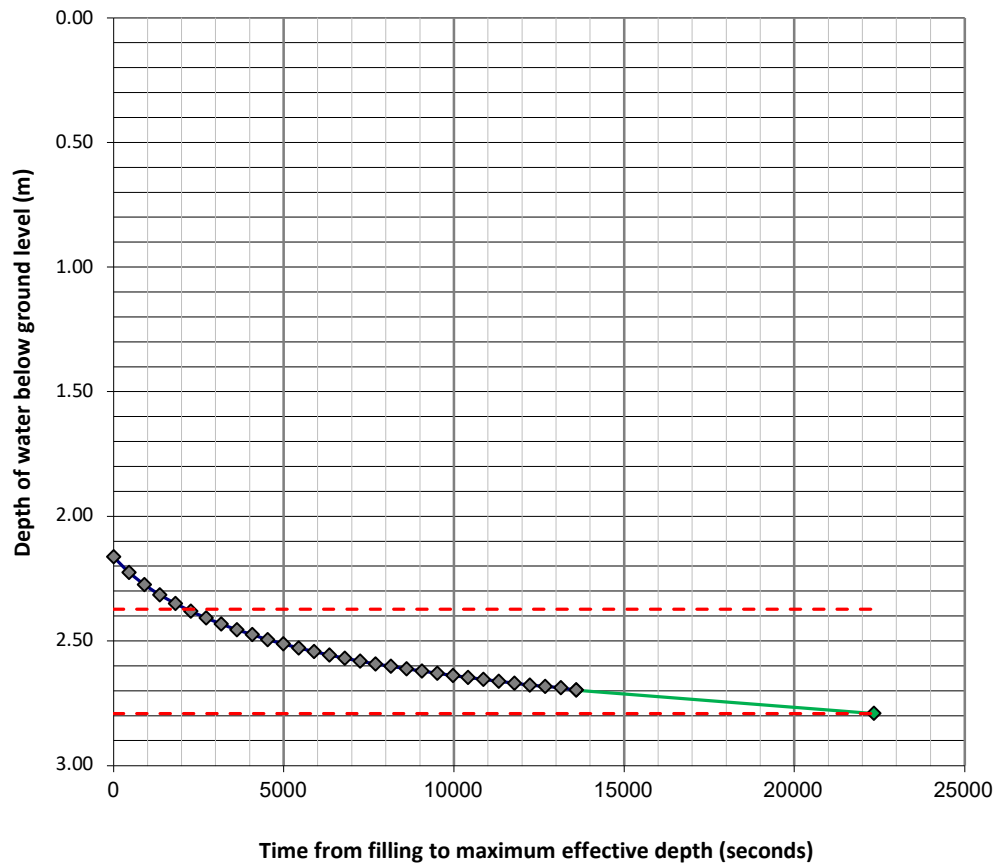
### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):	2.00 m
			Structureless Chalk		PIT WIDTH (W):	0.70 m
		PIT DEPTH (D):			3.00 m	
INPUT PARAMETERS:			P <sub>25</sub> achieved?		Extrapolated	
0	0.0	2.16	Maximum potential volume of water (V)		(m <sup>3</sup> )	1.17
450	7.5	2.23	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ ED		(m <sup>3</sup> )	0.59
900	15.0	2.27	Maximum head of water lost during test (ED) = ED - Water depth @ time 0		(m)	0.84
1350	22.5	2.31	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	4.48
1810	30.2	2.35	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	2.37
2260	37.7	2.38	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.79
2710	45.2	2.41	Time at 75% effective depth (T <sub>75</sub> )		(s)	2130
3160	52.7	2.43	Time at 25% effective depth (T <sub>25</sub> )		(s)	22329
3620	60.3	2.46	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	20200
4070	67.8	2.47	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25} / (AP_{50} \times T_{75} - T_{25})$		(m/s)	<b>6.5E-06</b>
4520	75.3	2.49	<b>Test remarks</b>			
4980	83.0	2.51	Test measurements taken with data loggers. Data has been processed to reduce the number of individual data points (as provided to the left and plotted below).			
5430	90.5	2.53	Final data point(s) extrapolated from trend of results.			

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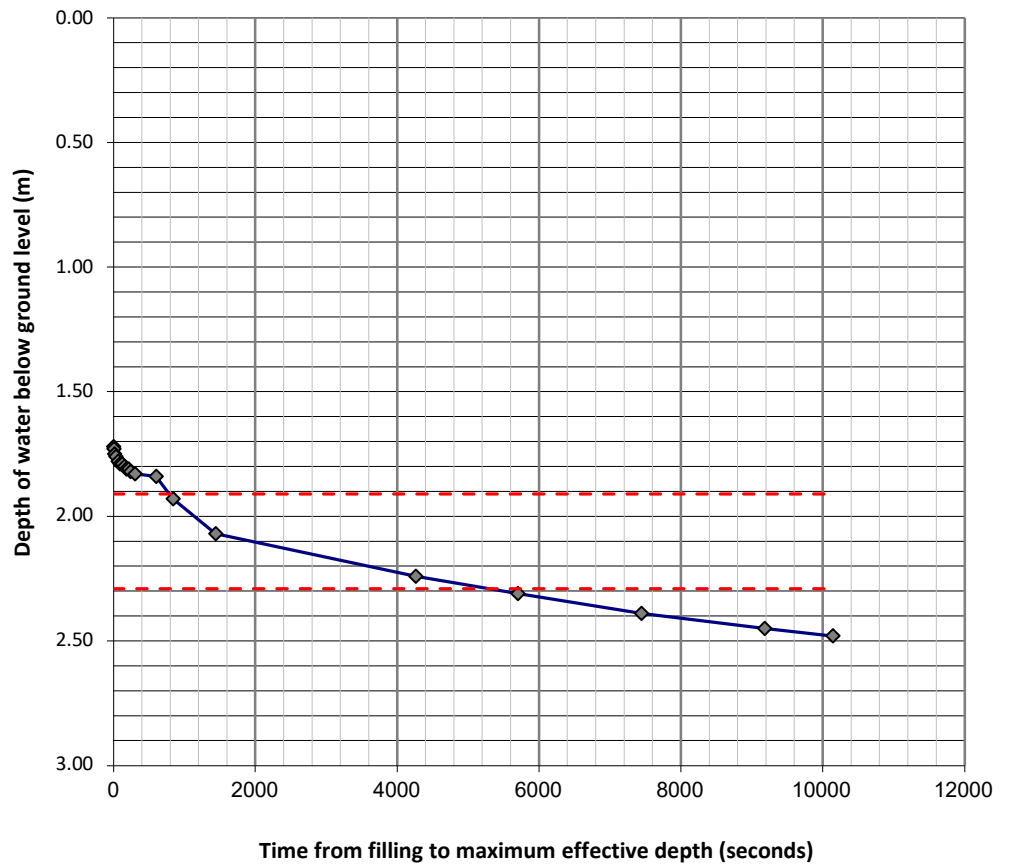


Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.  
 Green data point(s) extrapolated from test results

<b>DATE:</b>	April 2024	Card Geotechnics Limited, 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW Tel: 01483 310600	 <b>GEOTECHNICAL &amp; GEOENVIRONMENTAL CONSULTANCY</b> <small>A PHENNA GROUP COMPANY</small>
<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA04		
<b>TEST NUMBER:</b>	3		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):	2.00 m
			Structureless Chalk		PIT WIDTH (W):	0.70 m
		PIT DEPTH (D):			3.00 m	
			INPUT PARAMETERS:		P <sub>25</sub> achieved?	
0	0.0	1.72	Maximum potential volume of water (V)		(m <sup>3</sup> )	1.06
5	0.1	1.73	Pit volume between 75% & 25% depths (PV <sub>75/25</sub> ) = L x W x ½ ED		(m <sup>3</sup> )	0.53
10	0.2	1.75	Maximum head of water lost during test (ED) = ED - Water depth @ time 0		(m)	0.76
30	0.5	1.76	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	6.26
60	1.0	1.78	Level of water in pit at 75% effective depth (P <sub>75</sub> )		(m)	1.91
90	1.5	1.79	Level of water in pit at 25% effective depth (P <sub>25</sub> )		(m)	2.29
120	2.0	1.79	Time at 75% effective depth (T <sub>75</sub> )		(s)	787
150	2.5	1.80	Time at 25% effective depth (T <sub>25</sub> )		(s)	5289
180	3.0	1.81	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	4502
210	3.5	1.81	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25} / (AP_{50} \times T_{75}-T_{25})$		(m/s)	<b>1.9E-05</b>
240	4.0	1.82	<b>Test remarks</b>			
300	5.0	1.83	Test measurements taken with dip meter and timer.			
600	10.0	1.84	Pit did not drain to 25% effective depth of initial head of water during the duration of the test. Calculations are based on an Effective Depth (ED) for the actual total drop in water level over test period, and are therefore 'indicative' only.			
840	14.0	1.93	Compiled by:	Adam Cadman	Checked by:	Adam Cadman
1440	24.0	2.07	After BRE Digest 365, Soakaway Design, 2016			Page 1 of 1
4260	71.0	2.24				
5700	95.0	2.31				
7440	124.0	2.39				
9180	153.0	2.45				
10140	169.0	2.48				



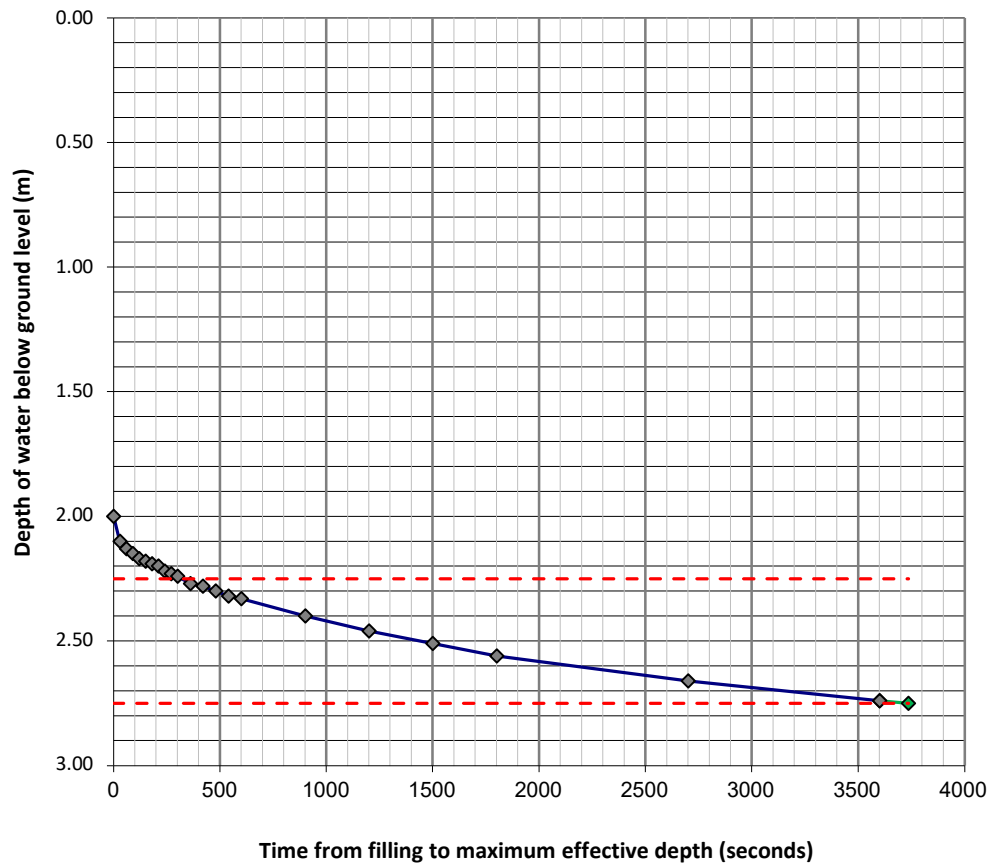
Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.



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<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA05		
<b>TEST NUMBER:</b>	1		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):	2.00 m
			Structureless Chalk		PIT WIDTH (W):	0.70 m
		PIT DEPTH (D):			3.00 m	
INPUT PARAMETERS:			P <sub>25</sub> achieved?		Extrapolated	
0	0.0	2.00	Maximum potential volume of water (V)		(m <sup>3</sup> )	1.40
30	0.5	2.10	Pit volume between 75% & 25% depths (PV <sub>75/25</sub> ) = L x W x ½ ED		(m <sup>3</sup> )	0.70
60	1.0	2.13	Maximum head of water lost during test (ED) = ED - Water depth @ time 0		(m)	1.00
90	1.5	2.15	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	4.80
120	2.0	2.17	Level of water in pit at 75% effective depth (P <sub>75</sub> )		(m)	2.25
150	2.5	2.18	Level of water in pit at 25% effective depth (P <sub>25</sub> )		(m)	2.75
180	3.0	2.19	Time at 75% effective depth (T <sub>75</sub> )		(s)	320
210	3.5	2.20	Time at 25% effective depth (T <sub>25</sub> )		(s)	3735
240	4.0	2.22	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	3415
270	4.5	2.23	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25} / (AP_{50} \times T_{75} - T_{25})$		(m/s)	<b>4.3E-05</b>
300	5.0	2.24	<b>Test remarks</b>			
360	6.0	2.27	Test measurements taken with dip meter and timer.			
420	7.0	2.28	Final data point(s) extrapolated from trend of results.			
480	8.0	2.30	Compiled by:	Adam Cadman	Checked by:	Adam Cadman
540	9.0	2.32	After BRE Digest 365, Soakaway Design, 2016			Page 1 of 1

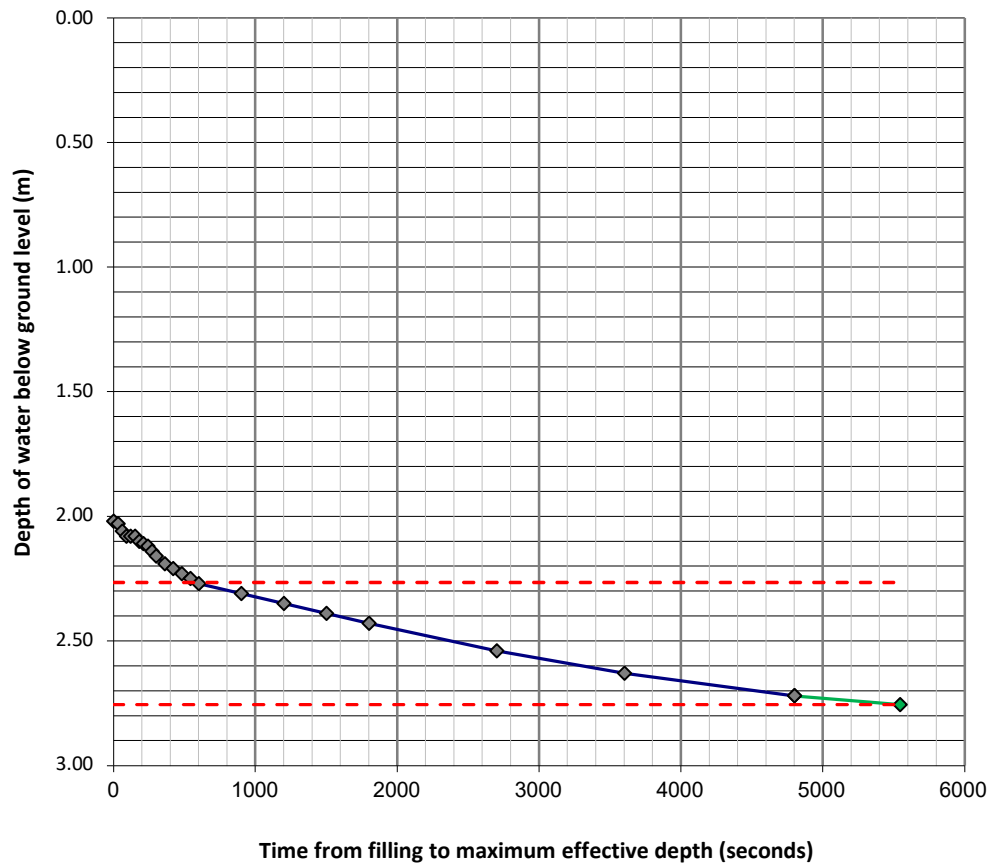


Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.  
 Green data point(s) extrapolated from test results

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<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA05		
<b>TEST NUMBER:</b>	2		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):		2.00 m	
			Structureless Chalk		PIT WIDTH (W):		0.70 m	
			INPUT PARAMETERS:		P <sub>25</sub> achieved?		3.00 m	
0	0.0	2.02	Maximum potential volume of water (V)				(m <sup>3</sup> )	1.37
30	0.5	2.03	Pit volume between 75% & 25% depths (PV <sub>75/25</sub> ) = L x W x ½ ED				(m <sup>3</sup> )	0.69
60	1.0	2.06	Maximum head of water lost during test (ED) = ED - Water depth @ time 0				(m)	0.98
90	1.5	2.08	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )				(m <sup>2</sup> )	4.80
120	2.0	2.08	Level of water in pit at 75% effective depth (P <sub>75</sub> )				(m)	2.27
150	2.5	2.08	Level of water in pit at 25% effective depth (P <sub>25</sub> )				(m)	2.76
180	3.0	2.10	Time at 75% effective depth (T <sub>75</sub> )				(s)	585
210	3.5	2.11	Time at 25% effective depth (T <sub>25</sub> )				(s)	5543
240	4.0	2.12	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )				(s)	4958
270	4.5	2.14	<b>INDICATIVE SOIL INFILTRATION RATE (f) =</b> $PV_{75-25} / (AP_{50} \times T_{75} - T_{25})$				(m/s)	<b>2.9E-05</b>
300	5.0	2.16	<b>Test remarks</b>					
360	6.0	2.19	Test measurements taken with dip meter and timer.					
420	7.0	2.21	Final data point(s) extrapolated from trend of results.					
480	8.0	2.23	Compiled by:		Adam Cadman	Checked by:		Adam Cadman
540	9.0	2.25	After BRE Digest 365, Soakaway Design, 2016					Page 1 of 1

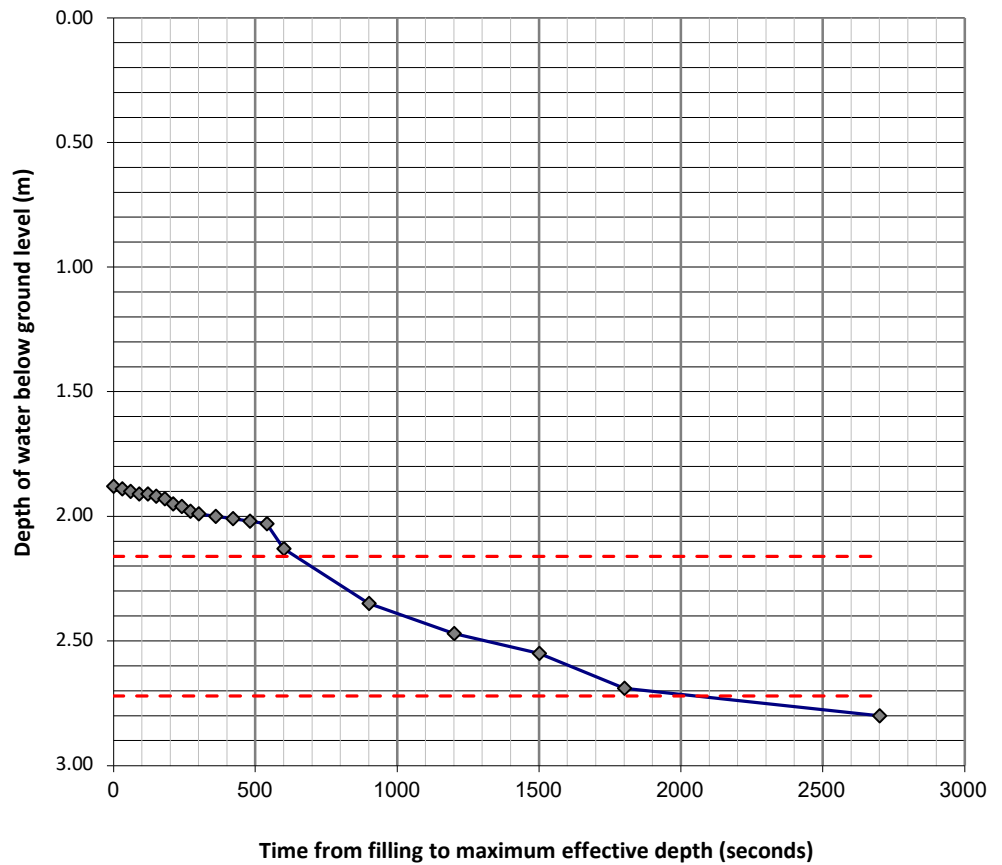


Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.  
 Green data point(s) extrapolated from test results

<b>DATE:</b>	April 2024	Card Geotechnics Limited, 4 Godalming Business Centre, Woolsack Way, Godalming, Surrey, GU7 1XW Tel: 01483 310600	 <b>GEOTECHNICAL &amp; GEOENVIRONMENTAL CONSULTANCY</b> <small>A PHENNA GROUP COMPANY</small>
<b>PROJECT No:</b>	CG/39877		
<b>PROJECT NAME:</b>	Friends School Playing Field		
<b>CLIENT:</b>	Chase New Homes		
<b>TRIAL PIT ID:</b>	SA05		
<b>TEST NUMBER:</b>	3		

### SOAKAWAY TEST - SOIL INFILTRATION RATE/PERMEABILITY

Time Elapsed (s)	Time Elapsed (mins)	Distance to water surface from ground level (m)	Geology of test section		PIT LENGTH (L):		2.00 m
			Structureless Chalk		PIT WIDTH (W):		0.70 m
			INPUT PARAMETERS:		P <sub>25</sub> achieved?		Yes
0	0.0	1.88	Maximum potential volume of water (V)		(m <sup>3</sup> )	1.57	
30	0.5	1.89	Pit volume between 75% & 25% depths (PV <sub>25/75</sub> ) = L x W x ½ D		(m <sup>3</sup> )	0.78	
60	1.0	1.90	Maximum depth of water (MDW) = D - Water depth @ time 0		(m)	1.12	
90	1.5	1.91	Surface area of pit up to 50% effective depth (AP <sub>50</sub> )		(m <sup>2</sup> )	4.42	
120	2.0	1.91	Level of water in pit at 75% effective depth (P <sub>25</sub> )		(m)	2.16	
150	2.5	1.92	Level of water in pit at 25% effective depth (P <sub>75</sub> )		(m)	2.72	
180	3.0	1.93	Time at 75% effective depth (T <sub>75</sub> )		(s)	641	
210	3.5	1.95	Time at 25% effective depth (T <sub>25</sub> )		(s)	2045	
240	4.0	1.96	Time for outflow for 75% and 25% effective depth (T <sub>75</sub> -T <sub>25</sub> )		(s)	1405	
270	4.5	1.98	<b>SOIL INFILTRATION RATE (f) =</b> $PV_{75-25}/(AP_{50} \times T_{75}-T_{25})$		(m/s)	<b>1.3E-04</b>	
300	5.0	1.99	<b>Test remarks</b>				
360	6.0	2.00	Test measurements taken with dip meter and timer.				
420	7.0	2.01	Compiled by:		Adam Cadman	Checked by:	
480	8.0	2.02	After BRE Digest 365, Soakaway Design, 2016		Page 1 of 1		
540	9.0	2.03					
600	10.0	2.13					
900	15.0	2.35					
1200	20.0	2.47					
1500	25.0	2.55					
1800	30.0	2.69					
2700	45.0	2.80					



Notes on plot: top red line is P<sub>25</sub>; bottom red line is P<sub>75</sub>.