

Nursery Fields, Bersted

Infiltration Testing and Groundwater Monitoring

**Soil Infiltration Testing
Results and Groundwater
Level Monitoring- Factual
Report**

Nursery Fields, Bersted

Client: Landform Bersted Limited

Reference: 73078/R/05
Status: For LA Comments
Date: 6th June 2021

Issued by: **Nott Group**

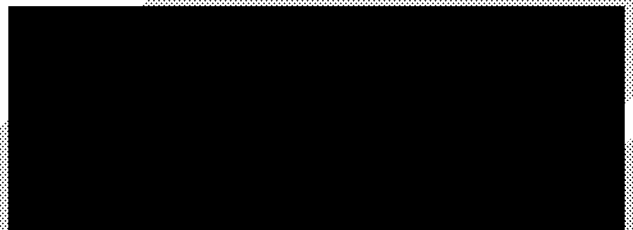
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This report has been prepared by Nott Group with all reasonable skill, care and diligence within the terms of the Contract with the client, incorporation of our General Terms and Condition of Business and taking account of the resources devoted to us by agreement with the client.

We disclaim any responsibility to the client and others in respect of any matters outside the scope of the above.

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1. BRIEF

The Nott Group have been instructed by the client to undertake soil infiltration testing and groundwater monitoring the above site.

This report has been prepared for the exclusive use of the client for the purpose of assisting them in evaluating the potential soakaway design for the above site.

The information presented within this report is based on observations made on site and ground conditions encountered which can vary between test locations.

2. GROUND CONDITIONS SUMMARY

2.1 PUBLISHED GEOLOGY

The following table summarises the published geological information for the site.

TABLE 1: PUBLISHED SITE GEOLOGY

Data	Information
Solid Geology	The Lambeth Group is mapped across the majority of the site and is described by the British Geological Survey (BGS) as vertically and laterally variable sequences mainly of clay, some silty or sandy, with some sands and gravels, minor limestones and lignites and occasional sandstone and conglomerate. White Chalk subgroup is mapped across the northern part of the site including Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation and Portsdown Chalk Formation (Undifferentiated)
Superficial Geology	The River Terrace Deposits are mapped across the entire site and is described by the BGS as Sand and gravel, locally with lenses of silt, clay or peat.
Made Ground	A small amount of Worked Ground (undivided) is mapped in the eastern corner of the site by the BGS.

2.2 GROUND CONDITIONS ENCOUNTERED

The following table summarises the ground conditions encountered during the site works for the infiltration testing. Full descriptions of the ground conditions encountered can be found in Appendix C.

TABLE 2: GROUND CONDITIONS ENCOUNTERED SUMMARY

Strata Encountered	Description	Depth in meters below ground level (m bgl)
Topsoil	Brown to dark brown very clayey slightly gravelly CLAY. Gravel is fine to medium angular quartz and flint.	TP1: 0.00m - 0.25m
		TP2: 0.00m - 0.22m
		TP3: 0.00m - 0.28m
		TP4: 0.00m - 0.26m
		TP5: 0.00m - 0.30m
	Dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to medium angular to sub angular flint.	TP6: 0.00m - 0.38m
		TP7: 0.00m - 0.34m
		TP8: 0.00m - 0.30m
		TP9: 0.00m - 0.34m
		TP10: 0.00m - 0.25m
		TP11: 0.00m - 0.22m
Natural Superficial Deposits	Brown to light brown sandy slightly gravelly CLAY. Gravel is medium angular flint and quartz.	TP1: 0.25m - 1.00m
		TP2: 0.22m - 0.65m
		TP3: 0.28m - 0.70m
		TP4: 0.26m - 0.75m
		TP5: 0.30m - 0.78m
	Brown sandy slightly gravelly CLAY. Gravel is medium angular flint and quartz.	TP6: 0.38m - 0.60m
		TP7: 0.34m - 0.68m
		TP8: 0.30m - 0.65m
		TP9: 0.34m - 0.62m
		TP10: 0.25m - 1.00m
		TP11: 0.22m - 0.70m

3. TESTING METHODOLOGY AND RESULTS

3.1 INFILTRATION TESTING AND RESULTS

The testing has been undertaken in general accordance of BRE Digest 365 2016 for Soakaway Design. The results of the testing are summarised in the following table. A full set of results with the adopted methodology are enclosed in Appendix B.

The site works were undertaken over four days (18th, 19th and 20th February 2021). The first day comprised the excavation of all pits and filling of water with follow-up monitoring and recording. At the end of the first and second days the trial pits were made safe. The subsequent days comprised the refilling of the pits with water and further monitoring and recording.

The test locations and trial pit logs are enclosed in Appendix A and C.

TABLE 3: INFILTRATION RESULTS SUMMARY

Trial Pit Location	Depth of Pit (m bgl)	Minimum Result Obtained (m/s)	Comments
TP1	1.00m	Test Failed	Perched Groundwater encountered at 0.1m bgl
TP2	0.65m	Test Failed	Perched Groundwater encountered at 0.15m bgl
TP3	0.70m	1.3E-06 m/s	3 tests undertaken
TP4	0.75m	Test Failed	Perched Groundwater encountered at 0.2m bgl
TP5	0.78m	Test Failed	Perched Groundwater encountered at 0.2m bgl
TP6	0.60m	Test Failed	Perched Groundwater encountered at 0.1m bgl
TP7	0.68m	9.9E-07 m/s	3 tests undertaken
TP8	0.65m	Test Failed	Perched Groundwater encountered at 0.39m bgl
TP9	0.62m	Test Failed	Perched Groundwater encountered at 0.35m bgl
TP10	1.00m	Test Failed	Perched Groundwater encountered at 0.25m bgl
TP11	0.70m	1.5E-06 m/s	3 tests undertaken

3.1 GROUNDWATER LEVEL MONITORING

A number of boreholes have been installed at the site in May 2020. Monthly monitoring has been undertaken and is summarised in the following table. A plan showing the location of the boreholes is shown in Appendix A. The logs for these boreholes are shown in Appendix C.

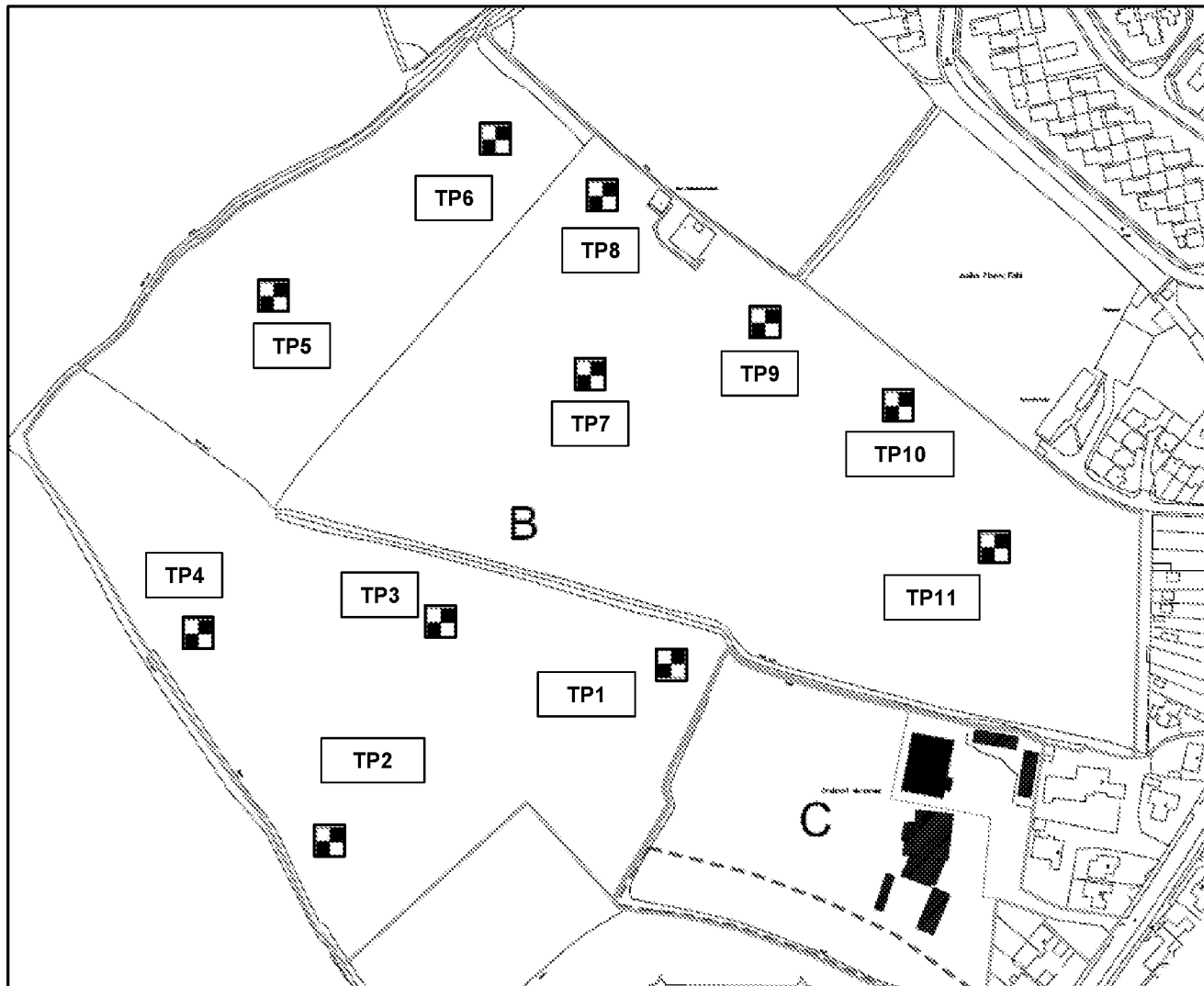
TABLE 4: GROUNDWATER LEVELS RESULTS SUMMARY

Borehole Reference	23/06/2020	15/07/2020	21/08/2020	15/09/2020	15/10/2020	26/11/2020
Depth in metres below ground level (mbgl)						
WS1	1.82	1.75	2.32	1.71	1.82	0.50
WS2	1.78	1.76	2.31	1.75	1.72	0.38
WS3	2.29	2.15	2.45	2.12	1.95	0.83
WS4	2.25	2.16	2.23	2.05	2.06	0.64
WS5	2.62	2.61	2.51	2.42	2.02	1.66
WS9	2.01	1.95	2.28	1.85	2.07	0.79
WS10	2.38	2.43	2.46	2.32	1.86	1.76
WS11	2.12	1.88	1.92	1.76	1.78	1.04
WS12	2.66	2.52	2.65	2.38	1.95	2.17
Borehole Reference	17/12/2020	12/01/2021	17/02/2020	11/03/2021	22/04/2021	17/05/2021
Depth in metres below ground level (mbgl)						
WS1	0.45	0.44	0.23	0.50	1.65	1.82
WS2	0.20	0.16	0.17	0.38	1.35	1.47
WS3	0.30	0.42	0.22	0.83	1.71	1.90
WS4	0.49	0.45	0.41	0.64	1.80	1.92
WS5	1.39	1.23	0.72	1.66	2.45	2.63
WS9	0.77	0.53	0.09	0.79	0.89	1.03
WS10	1.01	0.96	0.69	1.76	2.10	2.37
WS11	0.79	0.67	0.35	1.04	0.36	0.56
WS12	2.10	2.17	1.59	2.17	2.45	2.64

3.2 ASSESSMENT OF RESULTS AND RECOMMENDATIONS

Based upon the above results and the ground conditions encountered (in accordance with BRE 365 2016) we recommend that infiltration is not suitable for this development. Alternative methodologies for disposal and dispersal of surface waters is recommended.

Appendix A TRIAL PIT & BOREHOLE LOCATION PLANS



Key



**Trial Pit
Location (TP)**

Do Not Scale



Title: **Appendix A – Trial Pit Location Plan**

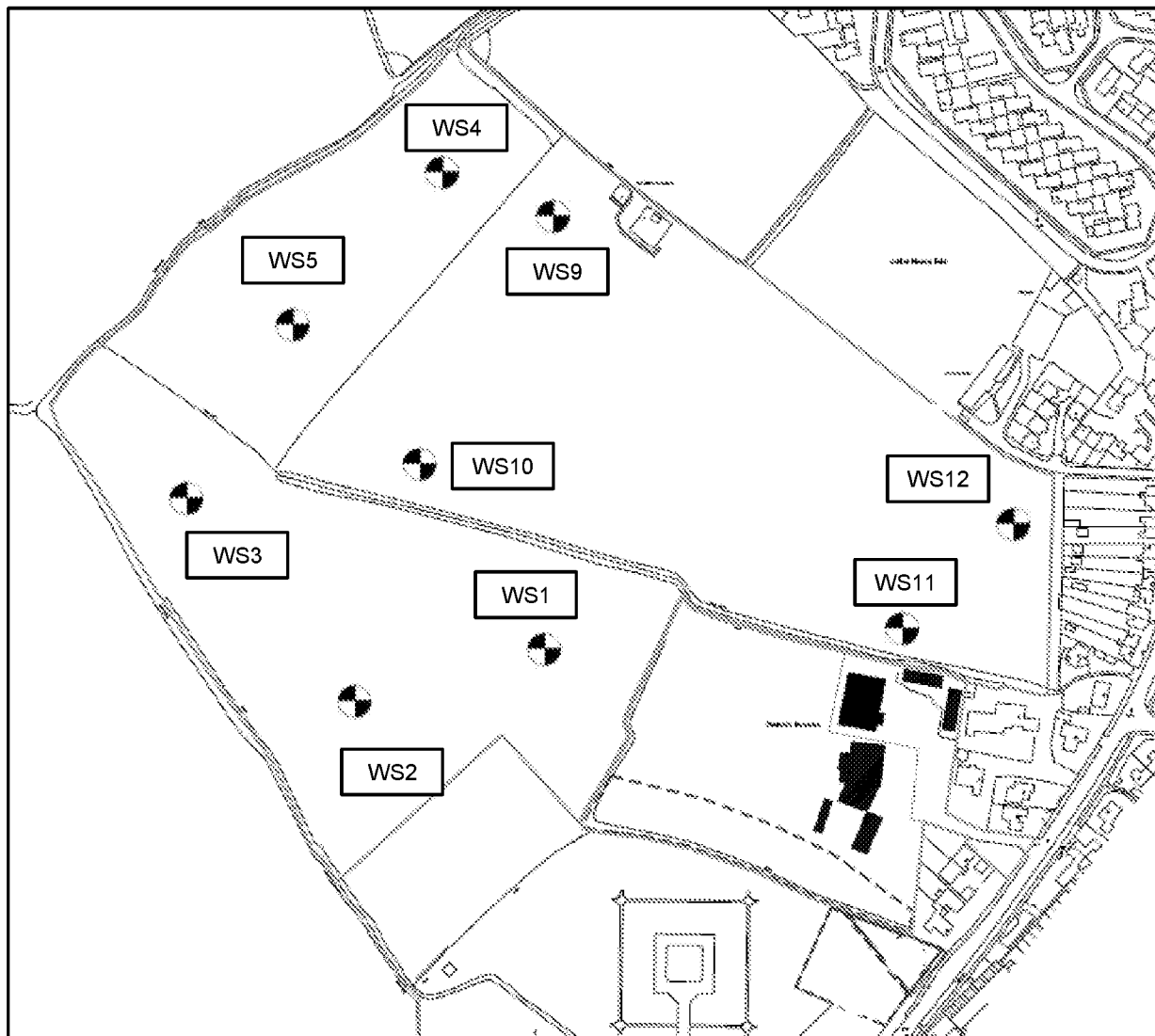
Project Name: **Nursery Fields, West Bersted**

Client: **Landform Bersted Limited**

Project No: **73078**

Date: **08/02/2021**

Drawing No **1**



Key



Borehole
Location

Do Not Scale



Title: **Appendix A – Groundwater Monitoring Boreholes**

Project Name: **Nursery Fields, West Bersted**

Client: **Landform Bersted Limited**

Project No: **73078**

Date: **08/05/2020**

Drawing No **1**

Appendix B INFILTRATION TEST RESULTS

Project No.: 73002
Site: Nursery Fields
Test Location: TP3 test 1
Date: 18th, 19th and 20th Feb 2021

Nott Group
Infiltration Test

Analysis using method as described in
 BRE Digest 365 2007

	width (m)	length (m)
test pit top dimensions	0.4	1.14
test pit base dimensions	0.4	1.1
test pit depth	0.7	m

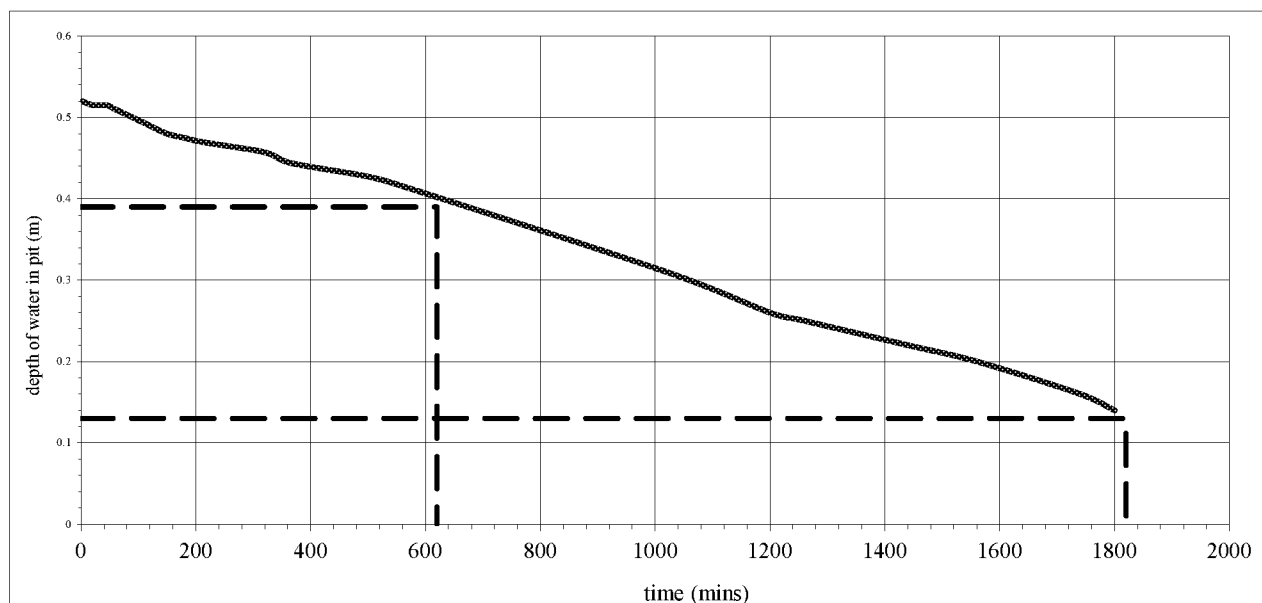
test infiltration rate (f) = 1.3E-06 m/s
 groundwater depth before adding water (m) = 0

time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
0	0.18	0.52	0	0.00	2.02
1	0.18	0.52	1	0.00	2.02
2	0.18	0.52	2	0.00	2.02
20	0.185	0.515	20	0.00	2.01
25	0.185	0.515	25	0.00	2.01
30	0.185	0.515	30	0.00	2.01
45	0.185	0.515	45	0.00	2.01
60	0.19	0.51	60	0.00	2.00
75	0.195	0.505	75	0.01	1.99
90	0.2	0.5	90	0.01	1.98
120	0.21	0.49	120	0.01	1.97
150	0.22	0.48	150	0.02	1.95
180	0.225	0.475	180	0.02	1.95
210	0.23	0.47	210	0.02	1.94
300	0.24	0.46	300	0.03	1.92
330	0.245	0.455	330	0.03	1.92
360	0.255	0.445	360	0.03	1.90
420	0.263	0.437	420	0.04	1.89
480	0.27	0.43	480	0.04	1.88
540	0.28	0.42	540	0.05	1.86
1020	0.39	0.31	1020	0.09	1.70
1200	0.44	0.26	1200	0.12	1.62
1260	0.45	0.25	1260	0.12	1.60
1440	0.48	0.22	1440	0.13	1.56
1560	0.5	0.2	1560	0.14	1.53
1740	0.54	0.16	1740	0.16	1.47
1800	0.56	0.14	1800	0.17	1.44

0.39 m water depth
 time is 620.0 minutes

0.13 m water depth
 time is 1820.0 minutes

Extrapolated values			Tp75-25	Vp75-25	Ap50	F
620	0.31	0.39	0	0.00		
1820	0.57	0.13	1200	0.12	1.22	1.3E-06





Project No.: 73002
Site: Nursery Fields
Test Location: TP3 test 2
Date: 18th, 19th and 20th Feb 2021

Nott Group
Infiltration Test

Analysis using method as described in
 BRE Digest 365 2007

	width (m)	length (m)
test pit top dimensions	0.4	1.14
test pit base dimensions	0.4	1.1
test pit depth	0.7	m

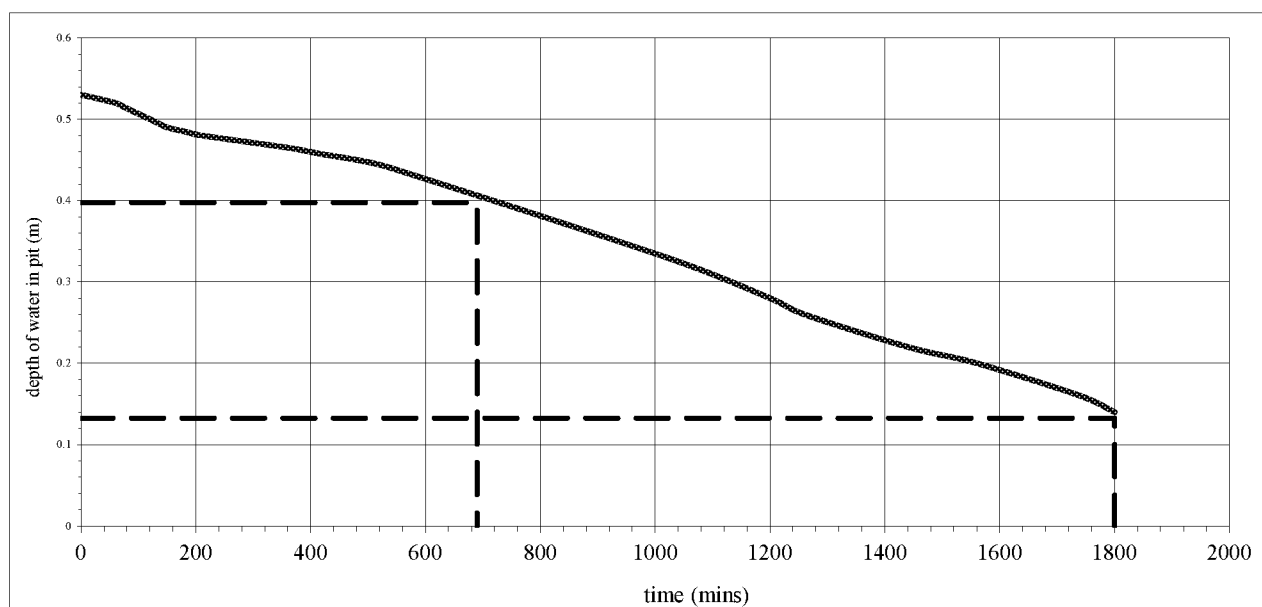
test infiltration rate (f) = 1.4E-06 m/s
 groundwater depth before adding water (m) = 0

time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
0	0.17	0.53	0	0.00	2.05
1	0.17	0.53	1	0.00	2.05
60	0.18	0.52	60	0.00	2.03
75	0.185	0.515	75	0.01	2.02
90	0.19	0.51	90	0.01	2.02
120	0.2	0.5	120	0.01	2.00
150	0.21	0.49	150	0.02	1.98
180	0.215	0.485	180	0.02	1.98
210	0.22	0.48	210	0.02	1.97
360	0.235	0.465	360	0.03	1.95
420	0.243	0.457	420	0.03	1.93
480	0.25	0.45	480	0.04	1.92
540	0.26	0.44	540	0.04	1.91
1020	0.37	0.33	1020	0.09	1.74
1200	0.42	0.28	1200	0.11	1.67
1260	0.44	0.26	1260	0.12	1.63
1440	0.48	0.22	1440	0.14	1.57
1560	0.5	0.2	1560	0.15	1.54
1740	0.54	0.16	1740	0.17	1.48
1800	0.56	0.14	1800	0.17	1.45

0.3975 0.54
 time is

0.1325 m water depth
 time is 1800.0 minutes

Extrapolated values				Tp75-25	Vp75-25	Ap50	F
690	0.3025	0.3975		0	0.00		
1800	0.5675	0.1325		1110	0.12	1.24	1.4E-06



Project No.: 73002
Site: Nursery Fields
Test Location: TP3 test 3
Date: 18th, 19th and 20th Feb 2021

Nott Group
Infiltration Test

Analysis using method as described in
 BRE Digest 365 2007

	width (m)	length (m)
test pit top dimensions	0.4	1.14
test pit base dimensions	0.4	1.1
test pit depth	0.7	m

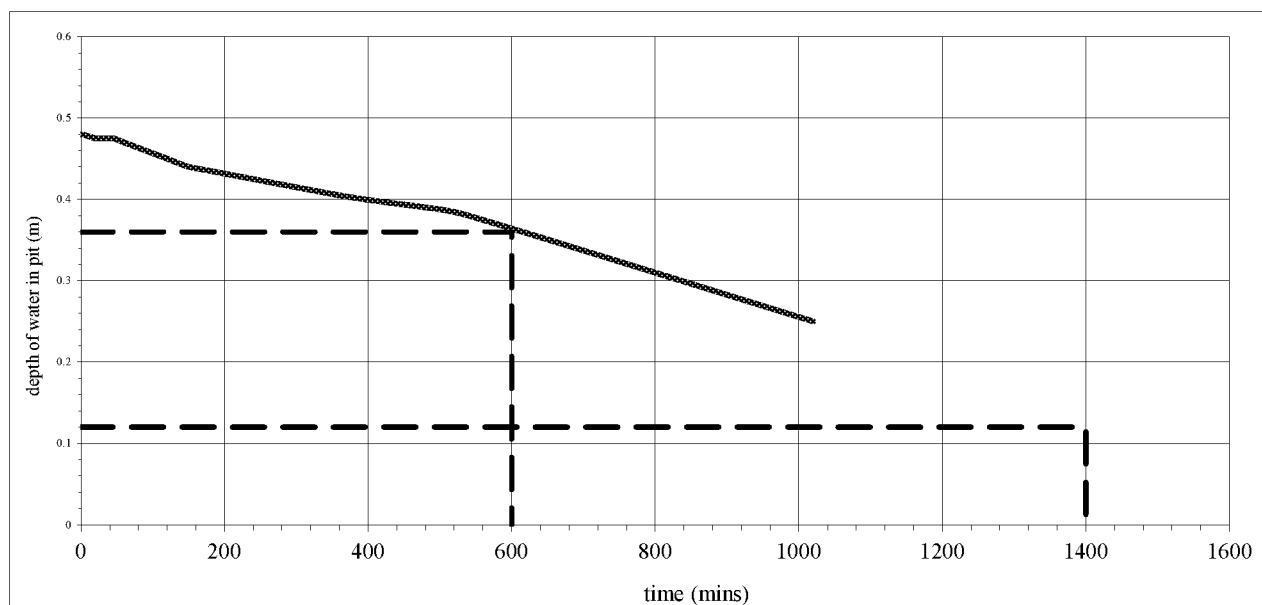
test infiltration rate (f) = 1.9E-06 m/s
 groundwater depth before adding water (m) = 0

time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
0	0.22	0.48	0	0.00	1.89
1	0.22	0.48	1	0.00	1.89
2	0.22	0.48	2	0.00	1.89
20	0.225	0.475	20	0.00	1.89
25	0.225	0.475	25	0.00	1.89
30	0.225	0.475	30	0.00	1.89
45	0.225	0.475	45	0.00	1.89
60	0.23	0.47	60	0.00	1.88
75	0.235	0.465	75	0.01	1.87
90	0.24	0.46	90	0.01	1.86
120	0.25	0.45	120	0.01	1.85
150	0.26	0.44	150	0.02	1.83
180	0.265	0.435	180	0.02	1.82
360	0.295	0.405	360	0.03	1.78
420	0.303	0.397	420	0.04	1.77
480	0.31	0.39	480	0.04	1.76
540	0.32	0.38	540	0.04	1.74
1020	0.45	0.25	1020	0.10	1.54

0.36 m water depth
 time is 600.0 minutes

0.12 m water depth
 time is 1400.0 minutes

Extrapolated values			Tp75-25	Vp75-25	Ap50	F
600	0.34	0.36	0	0.00		
1400	0.58	0.12	800	0.11	1.16	1.9E-06





Project No.: 73002
Site: Nursery Fields
Test Location: TP7 test 1
Date: 18th, 19th and 20th Feb 2021

Nott Group
Infiltration Test

Analysis using method as described in
 BRE Digest 365 2007

	width (m)	length (m)	
test pit top dimensions	0.43	1.32	
test pit base dimensions	0.4	1.32	
test pit depth	0.68	m	

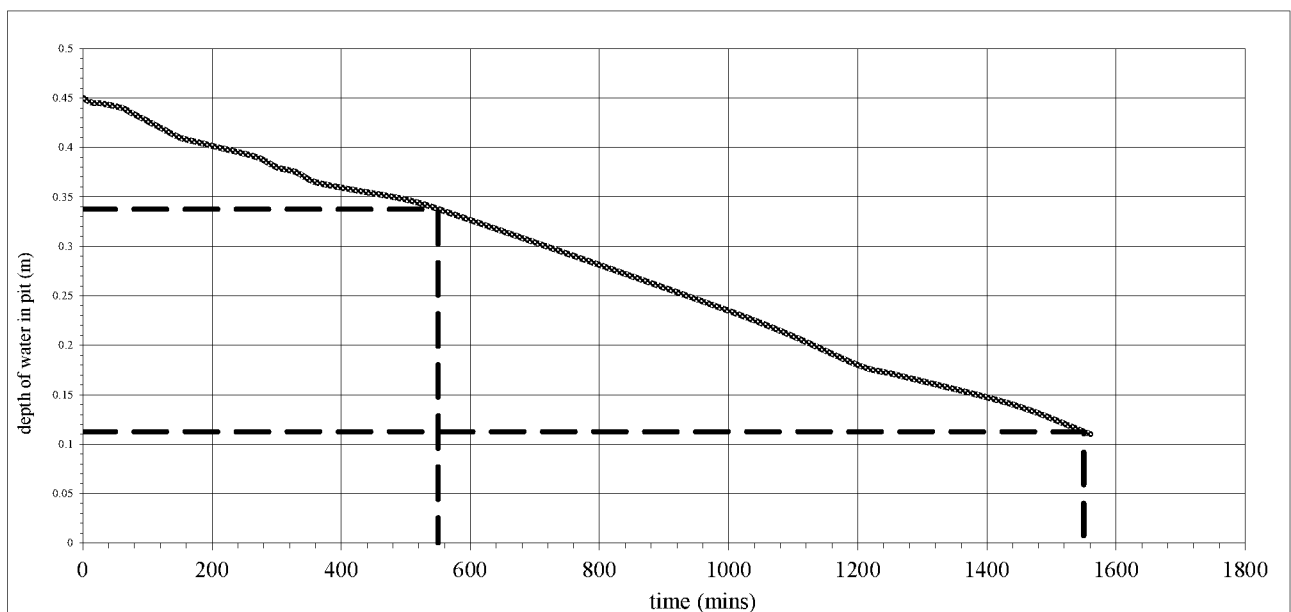
test infiltration rate (f) = 1.6E-06 m/s
 groundwater depth before adding water (m) = 0

time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
0	0.23	0.45	0	0.00	2.08
15	0.235	0.445	15	0.00	2.08
20	0.235	0.445	20	0.00	2.08
25	0.235	0.445	25	0.00	2.08
60	0.24	0.44	60	0.01	2.07
75	0.245	0.435	75	0.01	2.06
90	0.25	0.43	90	0.01	2.05
120	0.26	0.42	120	0.02	2.03
150	0.27	0.41	150	0.02	2.02
180	0.275	0.405	180	0.02	2.01
210	0.28	0.4	210	0.03	2.00
270	0.29	0.39	270	0.03	1.98
300	0.3	0.38	300	0.04	1.96
330	0.305	0.375	330	0.04	1.95
360	0.315	0.365	360	0.05	1.94
420	0.323	0.357	420	0.05	1.92
480	0.33	0.35	480	0.06	1.91
540	0.34	0.34	540	0.06	1.89
1020	0.45	0.23	1020	0.12	1.70
1200	0.5	0.18	1200	0.15	1.62
1260	0.51	0.17	1260	0.15	1.60
1440	0.54	0.14	1440	0.17	1.55
1560	0.57	0.11	1560	0.19	1.50

0.3375 m water depth
 time is 550.0 minutes

0.1125 m water depth
 time is 1550.0 minutes

Extrapolated values			Tp75-25	Vp75-25	Ap50	F
550	0.3425	0.3375	0	0.00		
1550	0.5675	0.1125	1000	0.12	1.30	1.6E-06





Project No.: 73002
Site: Nursery Fields
Test Location: TP7 test 2
Date: 18th, 19th and 20th Feb 2021

Nott Group
Infiltration Test

Analysis using method as described in
 BRE Digest 365 2007

test pit top dimensions width (m) 0.43 length (m) 1.32
 test pit base dimensions 0.4 1.32
 test pit depth 0.68 m

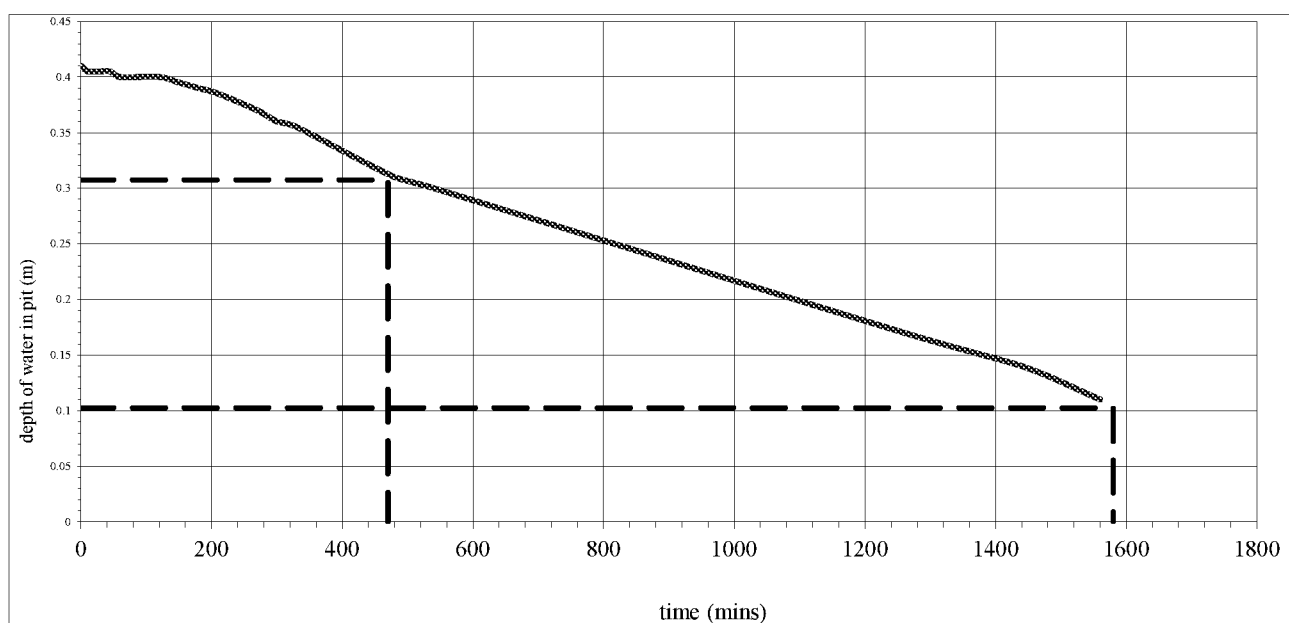
test infiltration rate (f) = $1.3\text{E-}06$ m/s
 groundwater depth before adding water (m) = 0

time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
0	0.27	0.41	0	0.00	1.95
10	0.275	0.405	10	0.00	1.94
15	0.275	0.405	15	0.00	1.94
20	0.275	0.405	20	0.00	1.94
25	0.275	0.405	25	0.00	1.94
30	0.275	0.405	30	0.00	1.94
45	0.275	0.405	45	0.00	1.94
60	0.28	0.4	60	0.01	1.93
120	0.28	0.4	120	0.01	1.93
150	0.285	0.395	150	0.01	1.92
180	0.29	0.39	180	0.01	1.91
210	0.295	0.385	210	0.01	1.90
270	0.31	0.37	270	0.02	1.88
300	0.32	0.36	300	0.03	1.86
330	0.325	0.355	330	0.03	1.85
480	0.37	0.31	480	0.05	1.77
540	0.38	0.3	540	0.06	1.75
1260	0.51	0.17	1260	0.13	1.53
1440	0.54	0.14	1440	0.15	1.48
1560	0.57	0.11	1560	0.16	1.43

0.3075 m water depth
 time is 470.0 minutes

0.1025 m water depth
 time is 1580.0 minutes

Extrapolated values			Tp75-25	Vp75-25	Ap50	F
470	0.3725	0.3075	0	0.00		
1580	0.5775	0.1025	1110	0.11	1.24	$1.3\text{E-}06$





Project No.: 73002
Site: Nursery Fields
Test Location: TP7 - test 3
Date: 18th, 19th and 20th Feb 2021

Nott Group
Infiltration Test

Analysis using method as described in
 BRE Digest 365 2007

	width (m)	length (m)
test pit top dimensions	0.43	1.32
test pit base dimensions	0.4	1.32
test pit depth	0.68	m

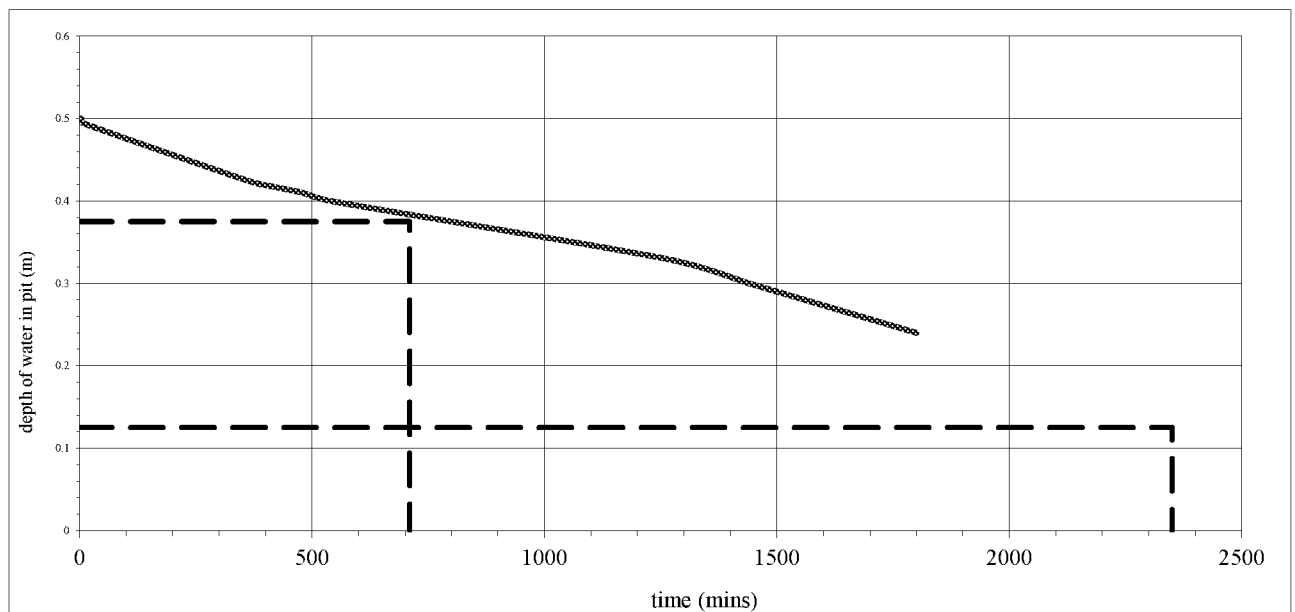
test infiltration rate (f) = 9.9E-07 m/s
 groundwater depth before adding water (m) = 0

time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
0	0.18	0.5	0	0.00	2.26
1	0.18	0.5	1	0.00	2.26
2	0.18	0.5	2	0.00	2.26
3	0.18	0.5	3	0.00	2.26
4	0.18	0.5	4	0.00	2.26
5	0.185	0.495	5	0.00	2.25
360	0.255	0.425	360	0.04	2.13
420	0.263	0.417	420	0.05	2.11
480	0.27	0.41	480	0.05	2.10
540	0.28	0.4	540	0.06	2.09
1260	0.35	0.33	1260	0.09	1.96
1440	0.38	0.3	1440	0.11	1.91
1560	0.4	0.28	1560	0.12	1.88
1800	0.44	0.24	1800	0.14	1.81

0.375 m water depth
 time is 710.0 minutes

0.125 m water depth
 time is 2350.0 minutes

Extrapolated values			Tp75-25	Vp75-25	Ap50	F
710	0.305	0.375	0	0.00		
2350	0.555	0.125	1640	0.14	1.39	9.9E-07





Project No.: 73078
 Site: Nursery Fields, West Bersted
 Test Location: TP11 - test 1
 Date: 18th, 19th and 20th Feb 2021

Nott Group
 Infiltration Test

Analysis using method as described in
 BRE Digest 365

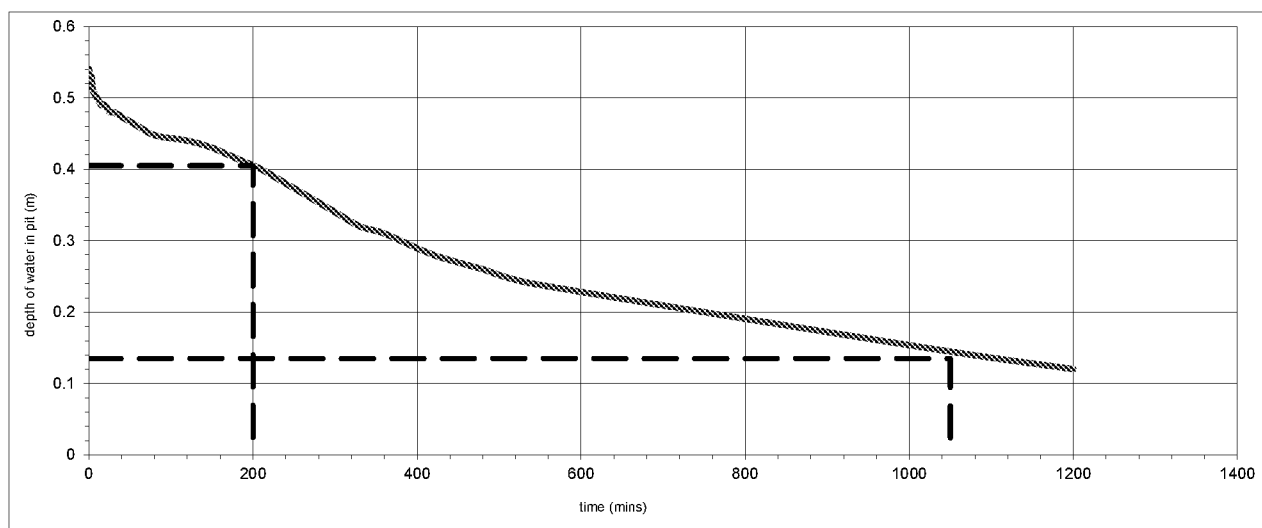
	width (m)	length (m)	
test pit top dimensions	0.42	1.02	
test pit base dimensions	0.4	1	
test pit depth	0.7	m	

test infiltration rate (f) = 1.9E-06 m/s
 groundwater depth before adding water (m) = 0.5

hrs	time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
	0	0.16	0.54	0	0.00	1.93
	1	0.165	0.535	1	0.00	1.92
	2	0.17	0.53	2	0.00	1.91
	3	0.17	0.53	3	0.00	1.91
	4	0.18	0.52	4	0.01	1.90
	5	0.19	0.51	5	0.01	1.89
	10	0.2	0.5	10	0.02	1.87
	15	0.21	0.49	15	0.02	1.86
	20	0.21	0.49	20	0.02	1.86
	25	0.22	0.48	25	0.03	1.84
	30	0.22	0.48	30	0.03	1.84
	45	0.23	0.47	45	0.03	1.83
	60	0.24	0.46	60	0.03	1.81
	75	0.25	0.45	75	0.04	1.80
	90	0.255	0.445	90	0.04	1.79
	120	0.26	0.44	120	0.04	1.79
	150	0.27	0.43	150	0.05	1.77
	180	0.285	0.415	180	0.05	1.75
	210	0.3	0.4	210	0.06	1.73
	240	0.32	0.38	240	0.07	1.70
	270	0.34	0.36	270	0.08	1.67
	300	0.36	0.34	300	0.08	1.64
	330	0.38	0.32	330	0.09	1.62
	360	0.39	0.31	360	0.10	1.60
	420	0.42	0.28	420	0.11	1.56
	480	0.44	0.26	480	0.12	1.53
	540	0.46	0.24	540	0.12	1.50
	1020	0.55	0.15	1020	0.16	1.37
	1200	0.58	0.12	1200	0.17	1.33
	1260	0.55	0.15	1260	0.16	1.37
	1440	0.55	0.15	1440	0.16	1.37

From graph:
 test start - 75% depth at 0.405 m water depth
 time is 200.0 minutes
 test end - 25% depth at 0.135 m water depth
 time is 1050.0 minutes

Extrapolated values			Tp75-25	Vp75-25	Ap50	F
200	0.295	0.405	0	0.00		
1050	0.565	0.135	850	0.11	1.16	1.9E-06





Project No.: 73078
 Site: Nursery Fields, West Bersted
 Test Location: TP11 - test 2
 Date: 18th, 19th and 20th Feb 2021

Nott Group
 Infiltration Test

Analysis using method as described in
 BRE Digest 365

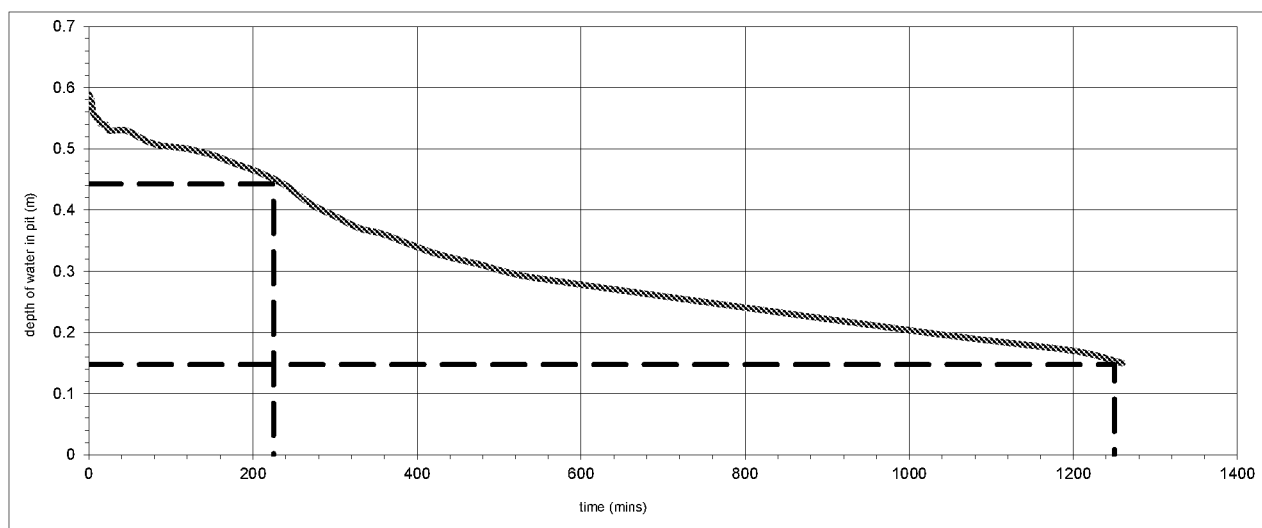
	width (m)	length (m)	
test pit top dimensions	0.42	1.02	
test pit base dimensions	0.4	1	
test pit depth	0.7	m	

test infiltration rate (f) = 1.6E-06 m/s
 groundwater depth before adding water (m) = 0.5

hrs	time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
	0	0.11	0.59	0	0.00	2.07
	1	0.115	0.585	1	0.00	2.06
	2	0.12	0.58	2	0.00	2.06
	3	0.12	0.58	3	0.00	2.06
	4	0.13	0.57	4	0.01	2.04
	5	0.14	0.56	5	0.01	2.03
	10	0.15	0.55	10	0.02	2.01
	15	0.16	0.54	15	0.02	2.00
	20	0.16	0.54	20	0.02	2.00
	25	0.17	0.53	25	0.03	1.99
	30	0.17	0.53	30	0.03	1.99
	45	0.17	0.53	45	0.03	1.99
	60	0.18	0.52	60	0.03	1.97
	75	0.19	0.51	75	0.03	1.96
	90	0.195	0.505	90	0.04	1.95
	120	0.2	0.5	120	0.04	1.94
	150	0.21	0.49	150	0.04	1.93
	180	0.225	0.475	180	0.05	1.91
	210	0.24	0.46	210	0.05	1.89
	240	0.26	0.44	240	0.06	1.86
	270	0.29	0.41	270	0.08	1.81
	300	0.31	0.39	300	0.08	1.79
	330	0.33	0.37	330	0.09	1.76
	360	0.34	0.36	360	0.10	1.74
	420	0.37	0.33	420	0.11	1.70
	480	0.39	0.31	480	0.12	1.67
	540	0.41	0.29	540	0.13	1.64
	1020	0.5	0.2	1020	0.16	1.52
	1200	0.53	0.17	1200	0.17	1.47
	1260	0.55	0.15	1260	0.18	1.45
	1440	0.5	0.2	1440	0.16	1.52

From graph:
 test start - 75% depth at 0.4425 m water depth
 time is 225.0 minutes
 test end - 25% depth at 0.1475 m water depth
 time is 1250.0 minutes

Extrapolated values			Tp75-25	Vp75-25	Ap50	F
225	0.2575	0.4425	0	0.00		
1250	0.5525	0.1475	1025	0.12	1.23	1.6E-06





Project No.: 73078
 Site: Nursery Fields, West Bersted
 Test Location: TP11 Test 3
 Date: 18th, 19th and 20th Feb 2021

Nott Group
 Infiltration Test

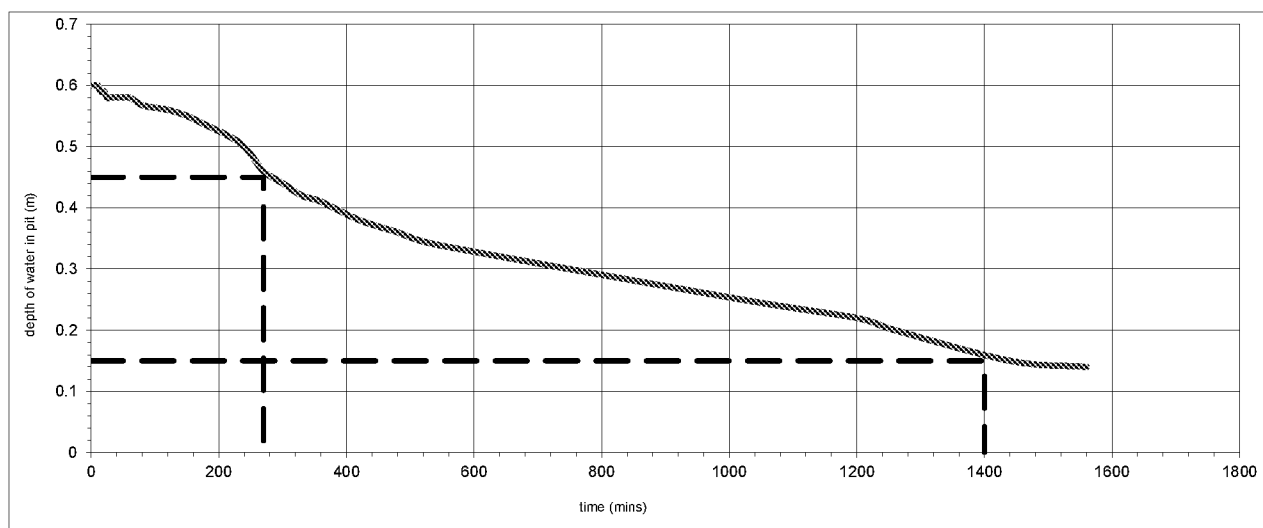
Analysis using method as described in
 BRE Digest 365

test pit top dimensions width (m) 0.42 length (m) 1.02
 test pit base dimensions 0.4 1
 test pit depth 0.7 m
 test infiltration rate (f) = 1.5E-06 m/s
 groundwater depth before adding water (m) = 0.5

hrs	time (mins)	depth to water surface (m)	depth of water in pit (m)	time elapsed from test start (mins)	volume of water lost from test start (m ³)	area of walls and base from test start (m ²)
	0	0.1	0.6	0	0.00	2.10
	1	0.1	0.6	1	0.00	2.10
	2	0.1	0.6	2	0.00	2.10
	3	0.1	0.6	3	0.00	2.10
	4	0.1	0.6	4	0.00	2.10
	5	0.1	0.6	5	0.00	2.10
	10	0.1	0.6	10	0.00	2.10
	15	0.11	0.59	15	0.00	2.09
	20	0.11	0.59	20	0.00	2.09
	25	0.12	0.58	25	0.01	2.07
	30	0.12	0.58	30	0.01	2.07
	45	0.12	0.58	45	0.01	2.07
	60	0.12	0.58	60	0.01	2.07
	75	0.13	0.57	75	0.01	2.06
	90	0.135	0.565	90	0.01	2.05
	120	0.14	0.56	120	0.02	2.04
	150	0.15	0.55	150	0.02	2.03
	180	0.165	0.535	180	0.03	2.01
	210	0.18	0.52	210	0.03	1.99
	240	0.2	0.5	240	0.04	1.96
	270	0.24	0.46	270	0.06	1.90
	300	0.26	0.44	300	0.07	1.87
	330	0.28	0.42	330	0.08	1.84
	360	0.29	0.41	360	0.08	1.83
	420	0.32	0.38	420	0.09	1.79
	480	0.34	0.36	480	0.10	1.76
	540	0.36	0.34	540	0.11	1.73
	1020	0.45	0.25	1020	0.15	1.60
	1200	0.48	0.22	1200	0.16	1.56
	1260	0.5	0.2	1260	0.17	1.53
	1440	0.55	0.15	1440	0.19	1.46
	1560	0.56	0.14	1560	0.19	1.45

From graph:
 test start - 75% depth at 0.45 m water depth
 time is 270.0 minutes
 test end - 25% depth at 0.15 m water depth
 time is 1400.0 minutes

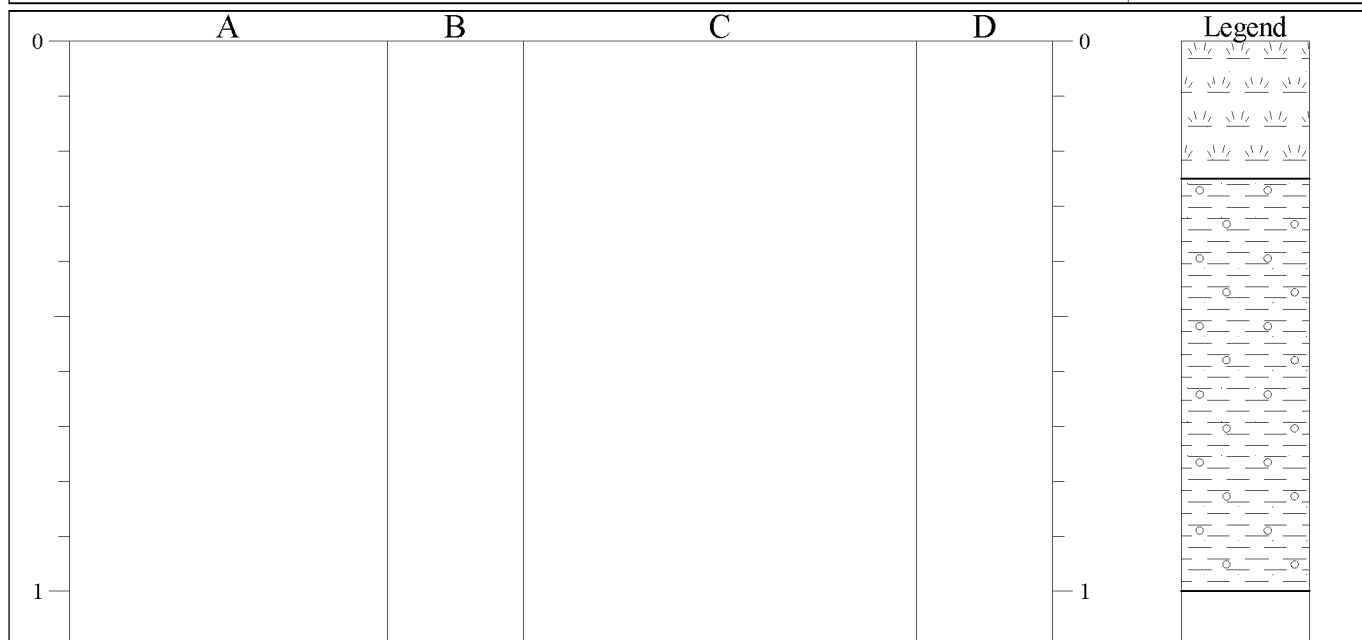
Extrapolated values			Tp75-25	Vp75-25	Ap50	F
270	0.25	0.45	0	0.00		
1400	0.55	0.15	1130	0.12	1.25	1.5E-06



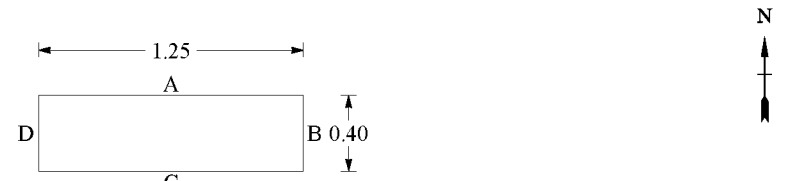
Appendix C TRIAL PIT AND BOREHOLE LOGS

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP1
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1



STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests	
0.00-0.25		Grass over firm dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to medium angular to sub angular flint. (Topsoil).				
0.25-1.00		Firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to sub angular flint and fine sub rounded to rounded quartz.				

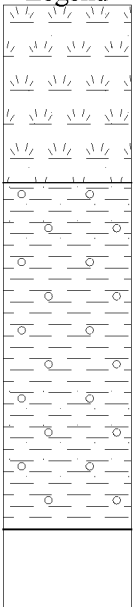
Shoring/Support: None. Stability: All sides noted to be stable.				GENERAL REMARKS	
				1. Groundwater seepage encountered at 0.10m.	

All dimensions in metres Scale 1:13.75	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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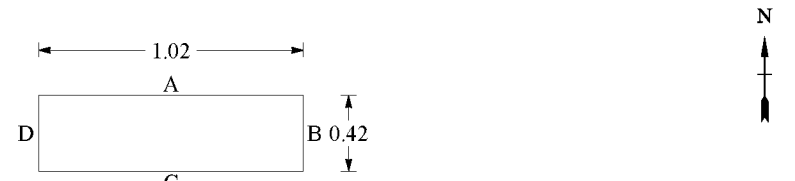
AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP2
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

0	A	B	C	D	0	Legend
						

STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.22		Grass over firm dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to medium angular to sub angular flint. (Topsoil).			
0.22-0.65		Firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to sub angular flint and fine sub rounded to rounded quartz.			

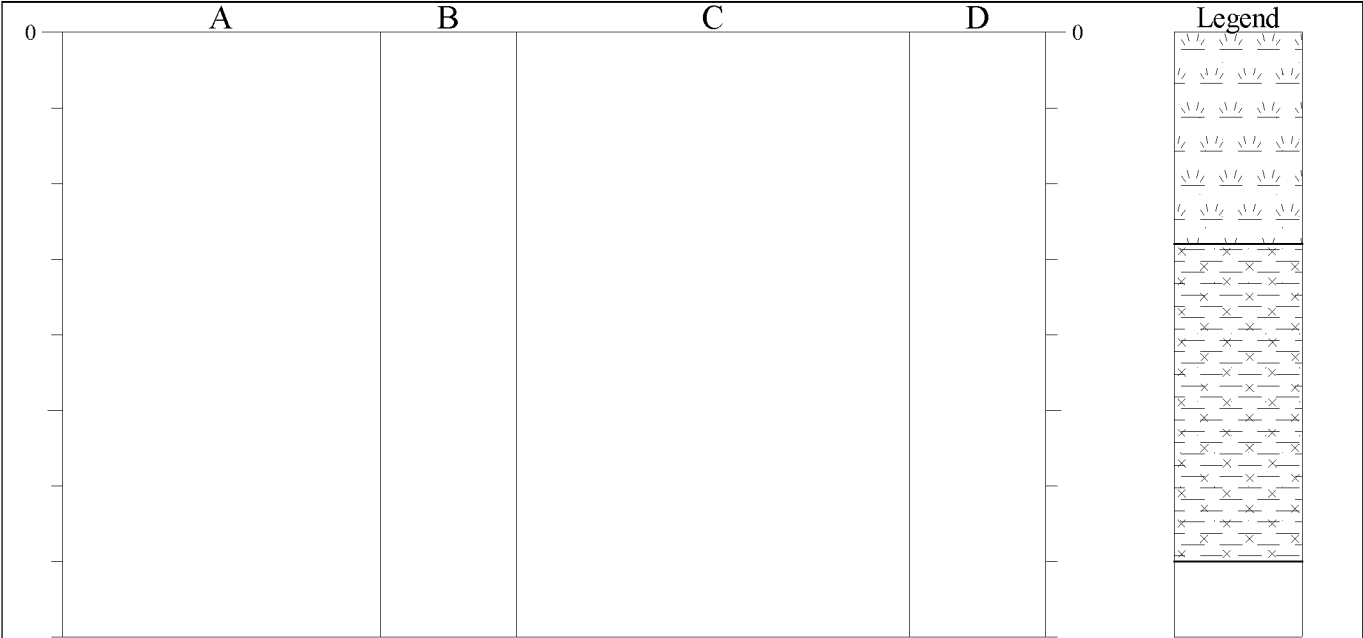
Shoring/Support: None. Stability: All sides noted to be stable. 	GENERAL REMARKS 1. Groundwater seepage encountered at 0.15m.
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All dimensions in metres Scale 1:9.375	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP3
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1



STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests	
0.00-0.28		Grass over soft dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine angular to sub angular flint. (Topsoil).				
0.28-0.70		Firm light brown sandy silty CLAY.				

Shoring/Support: None. Stability: All sides noted to be stable.		The diagram shows a rectangular trial pit with dimensions 1.14 (width) and 0.40 (depth). The corners are labeled A, B, C, and D. A north arrow points upwards.	GENERAL REMARKS
			1. No Groundwater noted.

All dimensions in metres Scale 1:10	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP4
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

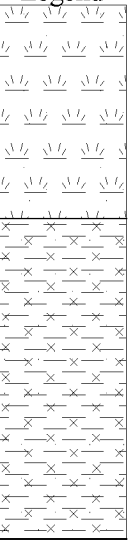
STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.26		Grass over soft dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine angular to sub angular flint. (Topsoil).			
0.26-0.75		Firm light brown sandy silty CLAY.			

Shoring/Support: None. Stability: All sides noted to be stable.	GENERAL REMARKS
	1. Groundwater seepage encountered at 0.20m.

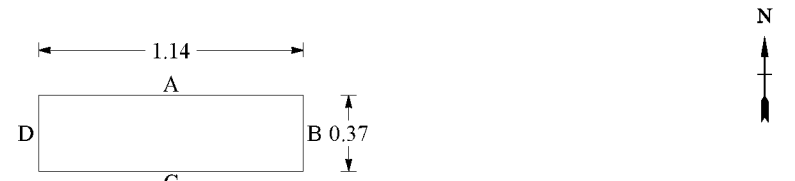
All dimensions in metres Scale 1:10.625	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP5
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

0	A	B	C	D	0	Legend
						

STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.30		Grass over soft dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine angular to sub angular flint. (Topsoil).			
0.30-0.78		Firm light brown sandy silty CLAY.			

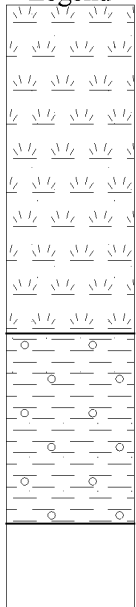
Shoring/Support: None. Stability: All sides noted to be stable. 	GENERAL REMARKS 1. Groundwater seepage encountered at 0.20m.
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All dimensions in metres Scale 1:10.625	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP6
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

0	A	B	C	D	0	Legend
						

STRATA				SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests	
0.00-0.38		Grass over soft dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine angular to sub angular flint. (Topsoil).				
0.38-0.60		Soft light brown sandy slightly gravelly CLAY. Gravel is fine to medium angular flint.				

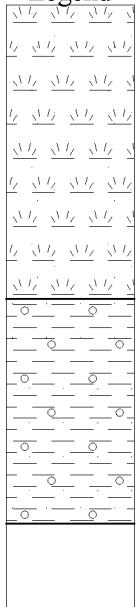
Shoring/Support: None. Stability: All sides noted to be stable.		
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All dimensions in metres Scale 1:8.75	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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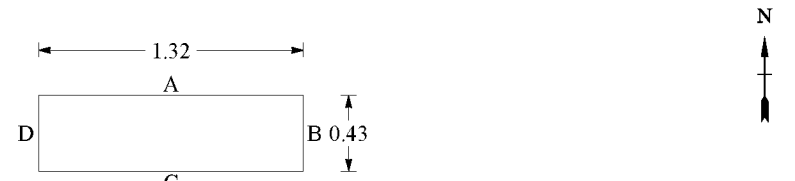
AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP7
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

0	A	B	C	D	0	Legend
						

STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.34		Grass over soft dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine angular to sub angular flint. (Topsoil).			
0.34-0.68		Soft light brown sandy slightly gravelly CLAY. Gravel is fine angular flint.			

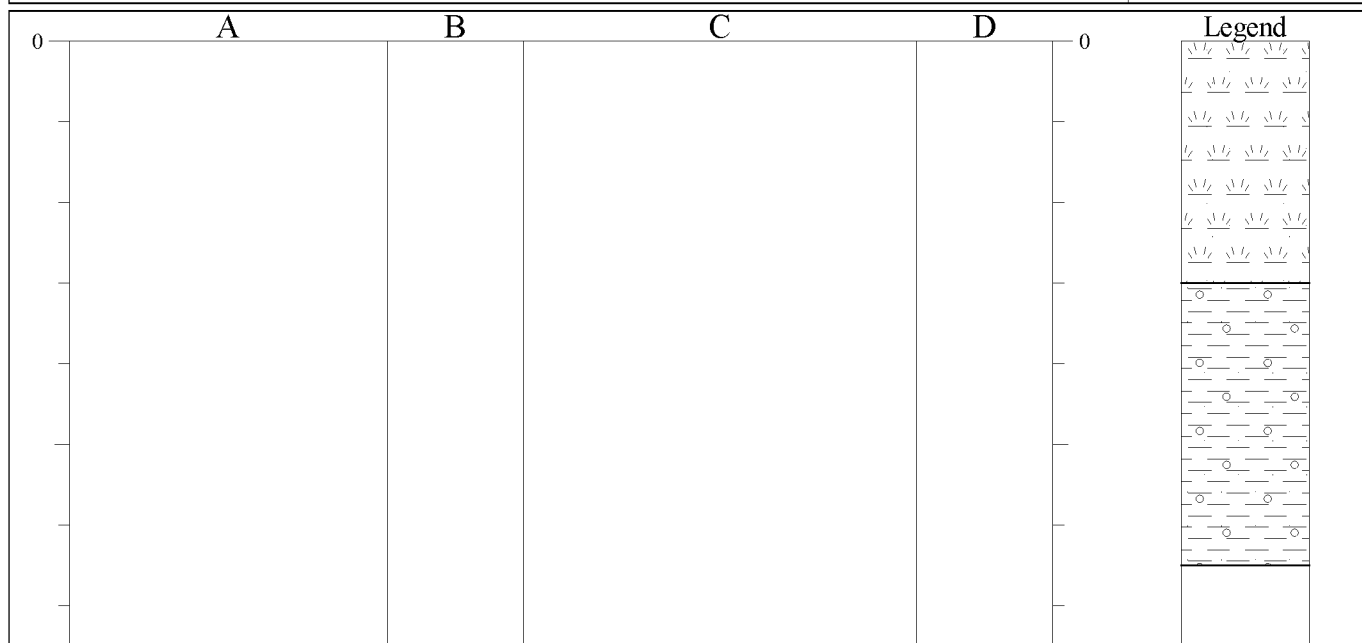
Shoring/Support: None. Stability: All sides noted to be stable. 	GENERAL REMARKS 1. No Groundwater noted
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All dimensions in metres Scale 1:8.75	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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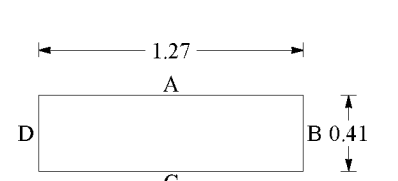
AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP8
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.30		Grass over soft dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine angular to sub angular flint. (Topsoil).			
0.30-0.65		Soft light brown sandy slightly gravelly CLAY. Gravel is fine angular flint.			

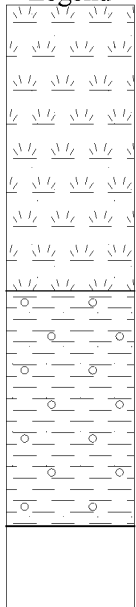
Shoring/Support: None. Stability: All sides noted to be stable. 	GENERAL REMARKS 1. Groundwater seepage encountered at 0.39m.
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All dimensions in metres Scale 1:9.375	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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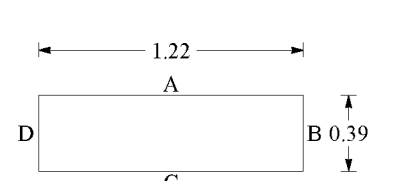
AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP9
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

0	A	B	C	D	0	Legend
						

STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.34		Grass over soft dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine angular to sub angular flint. (Topsoil).			
0.34-0.62		Firm brown and orange brown sandy slightly gravelly CLAY. Gravel is fine to medium sub rounded to rounded quartz and fine to coarse angular to sub angular flint.			

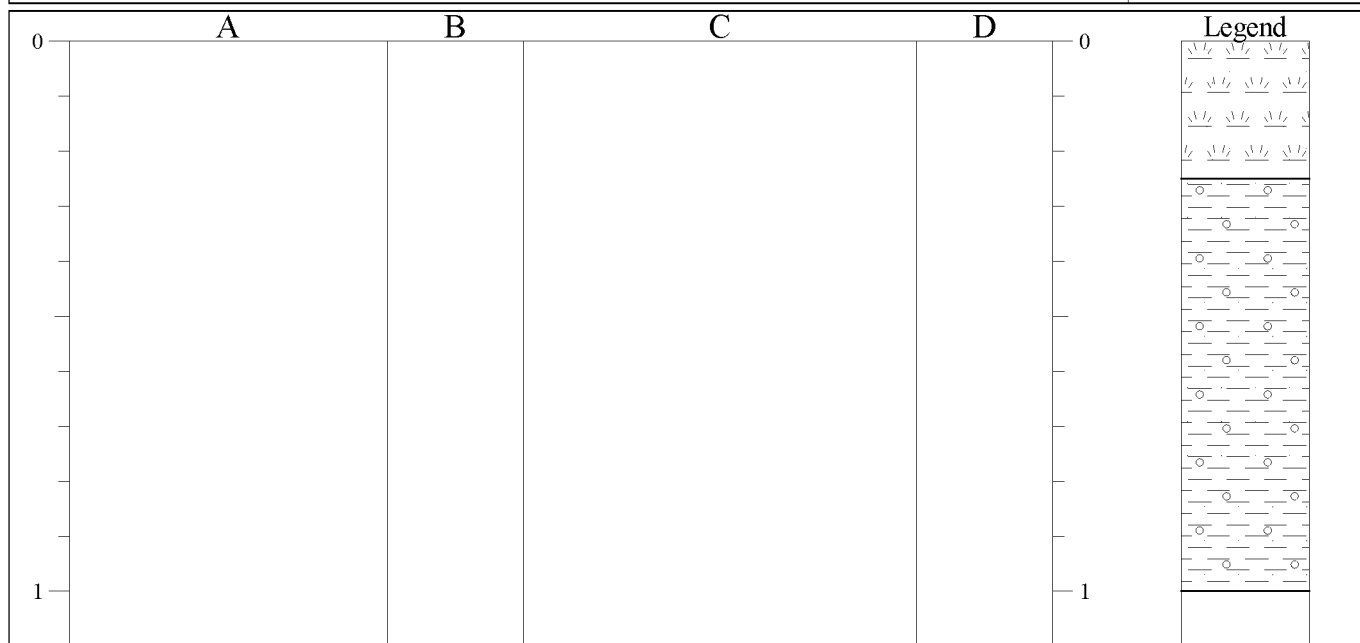
Shoring/Support: None. Stability: All sides noted to be stable. 	GENERAL REMARKS 1. Groundwater seepage encountered at 0.35m.
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All dimensions in metres Scale 1:9	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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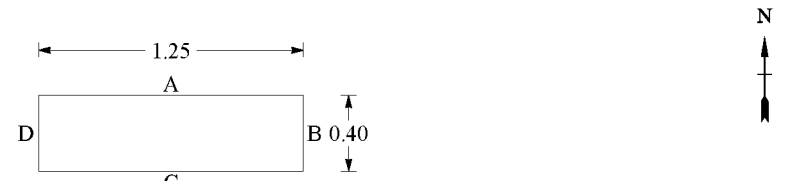
AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP10
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1



STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.25		Grass over firm dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to medium angular to sub angular flint. (Topsoil).			
0.25-1.00		Firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to sub angular flint and fine sub rounded to rounded quartz.			

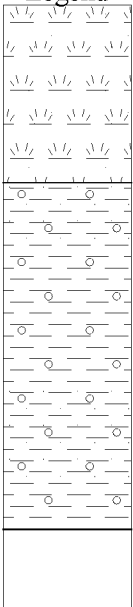
Shoring/Support: None. Stability: All sides noted to be stable. 	GENERAL REMARKS 1. Groundwater seepage encountered at 0.25m.
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All dimensions in metres Scale 1:13.75	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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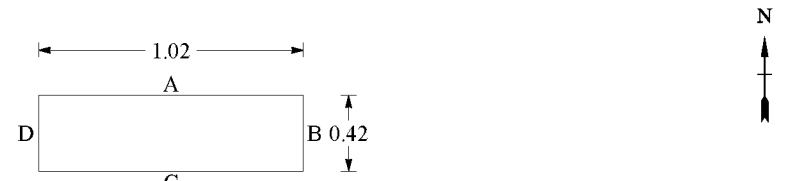
AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

TRIAL PIT LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				TRIAL PIT No TP11
Job No 73078	Date 18-02-21	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

0	A	B	C	D	0	Legend
						

STRATA			SAMPLES & TESTS		
Depth	No	DESCRIPTION	Depth	No	Remarks/Tests
0.00-0.22		Grass over firm dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to medium angular to sub angular flint. (Topsoil).			
0.22-0.70		Firm light brown slightly sandy slightly gravelly CLAY. Gravel is fine to coarse angular to sub angular flint and fine sub rounded to rounded quartz.			

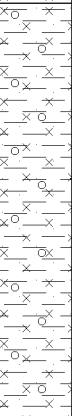
Shoring/Support: None. Stability: All sides noted to be stable. 	GENERAL REMARKS 1. No groundwater noted
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All dimensions in metres Scale 1:9.375	Client Landform Bersted Limited	Method/ Plant Used Wheeled excavator	Logged By BS
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AGS3 UK TP WEST BERSTED SOAKAWAY.GPJ GINT STD AGS 3_1.GDT 26/2/21

BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS1	
Job No 73002	Date 18-05-20	Ground Level (m)	Co-Ordinates ()		
Contractor Nott Group				Sheet 1 of 1	

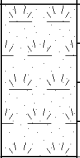
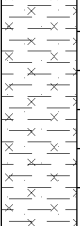
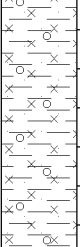
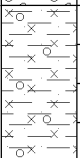
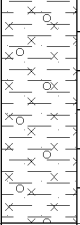
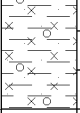
SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						(0.20) 0.20	Stiff light brown sandy slightly gravelly CLAY. Gravel is fine sub angular flint. (Topsoil).		
						(1.38) 1.58	Firm dark brown and brown slightly sandy to sandy silty CLAY.		
						(1.42) 3.00	Stiff brown slightly sandy slightly gravelly silty CLAY. Gravel is fine sub angular to sub rounded chalk.		
						(0.77) 3.77	Orange brown slightly clayey slightly gravelly fine grained SAND. Gravel is fine sub rounded chalk.		
						(0.23) 4.00	Reddish brown silty very gravelly medium grained SAND. Gravel is fine to coarse angular to sub angular flint.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:25.625			Client Landform Bersted Limited			Method/ Plant Used Window Sample Rig			Logged By BS		

AGS3 UK BH CHALCRAFT LANE, BERSTED.GPJ GINT STD AGS 3.1.GDT 27/20

BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS2
Job No 73002	Date 18-05-20	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

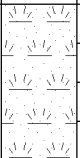
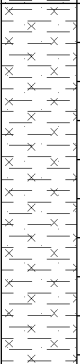
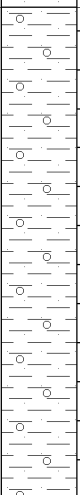
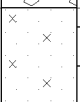
SAMPLES & TESTS			Water	STRATA			Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick-ness)		
						(0.39) 0.39	Firm light brown and brown slightly sandy slightly gravelly CLAY. Gravel is fine sub angular flint. (Topsoil).	
						(0.61) 1.00	Brown and dark orange brown slightly sandy silty CLAY.	
						(0.66) 1.66	Stiff brown slightly sandy slightly gravelly silty CLAY. Gravel is fine sub angular to sub rounded flint.	
						1.70	Light brown and grey sandy GRAVEL. Gravel is medium to coarse angular flint.	
						(0.99) 2.69	Light brown and light orange brown sandy slightly gravelly silty CLAY. Gravel is fine to coarse angular to sub rounded flint and fine sub rounded to rounded chalk.	
						(0.31) 3.00	Stiff dark reddish brown and brown slightly sandy to sandy gravelly silty CLAY. Gravel is fine to coarse sub angular flint and fine to medium sub rounded to rounded chalk.	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:19.375			Client Landform Bersted Limited			Method/ Plant Used Window Sample Rig			Logged By BS		

AGS3 UK BH CHALCRAFT LANE, BERSTED.GPJ GINT STD AGS 3_1.GDT 2/7/20

BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS3	
Job No 73002	Date 18-05-20	Ground Level (m)	Co-Ordinates ()		
Contractor Nott Group				Sheet 1 of 1	

SAMPLES & TESTS			Water	STRATA			Geology	Instrument/ Backfill
Depth	Type No	Test Result		Reduced Level	Legend	Depth (Thick- ness)		
						(0.40) 0.40	Firm light brown and brown slightly sandy slightly gravelly CLAY. Gravel is fine sub angular flint. (Topsoil).	
						(0.94) 1.34	Firm light orange brown and brown sandy silty CLAY.	
						(1.27) 2.61	Stiff light grey and orange brown sandy slightly gravelly CLAY. Gravel is fine to medium angular to sub angular flint and fine sub rounded chalk.	
						2.75	Light brown sandy GRAVEL. Gravel is fine to coarse angular to sub angular flint.	
						(0.25) 3.00	Light brown and brown silty fine grained SAND.	

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:19.375			Client Landform Bersted Limited			Method/ Plant Used Window Sample Rig			Logged By BS		

AGS3 UK BH CHALCRAFT LANE, BERSTED.GPJ GINT STD AGS 3_1.GDT 27/20

BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS4	
Job No 73002	Date 18-05-20	Ground Level (m)	Co-Ordinates ()		
Contractor Nott Group				Sheet 1 of 1	

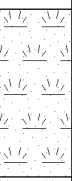
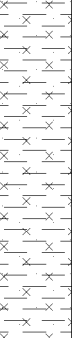
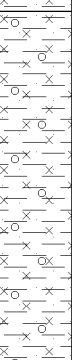
SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						(0.39) 0.39	Firm light brown and brown slightly sandy slightly gravelly CLAY. Gravel is fine sub angular flint. (Topsoil).		
						(0.51) 0.90	Firm brown sandy silty CLAY.		
						(0.87) 1.77	Stiff dark orange brown slightly sandy silty CLAY.		
						(0.23) 2.00	Stiff light brown and cream slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to sub rounded chalk and coarse angular flint.		
						(0.37) 2.37	Stiff light brown sandy gravelly CLAY. Gravel is fine sub angular to sub rounded flint and fine sub rounded chalk.		
						(1.01) 3.38	Stiff light brown and cream slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to sub rounded chalk and coarse angular flint.		
						(0.62) 4.00	Light brown and cream slightly sandy SILT. Chalk is coarse angular DM. (No flint).		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:25.625			Client Landform Bersted Limited			Method/ Plant Used Window Sample Rig			Logged By BS		

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BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS5
Job No 73002	Date 18-05-20	Ground Level (m)	Co-Ordinates ()	
Contractor Nott Group				Sheet 1 of 1

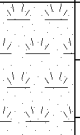
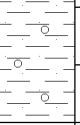
SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						(0.43) 0.43	Stiff dark brown and brown sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to medium sub rounded flint. (Topsoil).		
						(0.90) 1.33	Firm brown sandy silty CLAY.		
						(0.93) 2.26	Firm brown sandy slightly gravelly to gravelly silty CLAY. Gravel is fine to medium sub angular to sub rounded flint and fine sub angular chalk.		
						(0.58) 2.84	Stiff orange brown and grey sandy silty CLAY.		
						(0.16) 3.00	Firm cream and light brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium sub angular to sub rounded chalk.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:19.375			Client Landform Bersted Limited			Method/ Plant Used Window Sample Rig			Logged By BS		

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BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS9	
Job No 73002	Date 19-05-20	Ground Level (m)	Co-Ordinates ()		
Contractor Nott Group				Sheet 1 of 1	

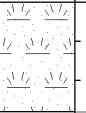
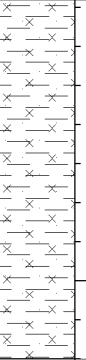
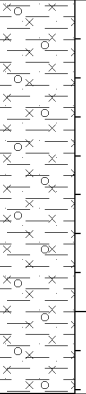
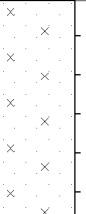
SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						(0.25) 0.25	Firm dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to coarse sub angular to sub rounded flint. (Topsoil).		
						(1.25) 1.50	Firm brown and orange brown slightly sandy silty CLAY.		
						(0.13) 1.63	Firm dark orange brown sandy slightly gravelly silty CLAY. Gravel is fine to medium sub angular to sub rounded chalk and flint.		
						(0.13) 1.76	Stiff light grey and orange brown sandy gravelly silty CLAY. Gravel is fine to coarse sub angular to sub rounded chalk and fine to medium sub angular to sub rounded flint.		
						(0.24) 2.00	Very stiff light brown and cream slightly sandy slightly gravelly CLAY. Gravel is fine to coarse sub angular to sub rounded chalk and fine to medium sub angular to sub rounded flint.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:13.125						Client Landform Bersted Limited		Method/ Plant Used Window Sample Rig		Logged By BS	

AGS3 UK BH CHALCRAFT LANE, BERSTED.GPJ GINT STD AGS 3_1.GDT 27/20

BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS10	
Job No 73002	Date 19-05-20	Ground Level (m)	Co-Ordinates ()		
Contractor Nott Group				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						(0.28) 0.28	Firm dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to coarse sub angular to sub rounded flint. (Topsoil).		
						(0.92) 1.20	Firm brown and orange brown sandy silty CLAY.		
						(1.01) 2.21	Firm dark orange brown sandy slightly gravelly silty CLAY. Gravel is fine sub angular to sub rounded chalk.		
						(0.55) 2.76	Light orange brown and brown silty coarse grained SAND.		
						(0.24) 3.00	Orange brown silty medium to coarse grained SAND and GRAVEL. Gravel is fine to coarse sub angular to sub rounded flint and fine sub angular chalk.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:19.375			Client Landform Bersted Limited			Method/ Plant Used Window Sample Rig			Logged By BS		

AGS3 UK BH CHALCRAFT LANE, BERSTED.GPJ GINT STD AGS 3_1.GDT 27/20

BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS11	
Job No 73002	Date 19-05-20	Ground Level (m)	Co-Ordinates ()		
Contractor Nott Group				Sheet 1 of 1	

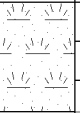
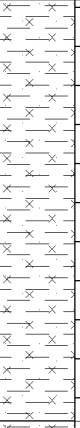
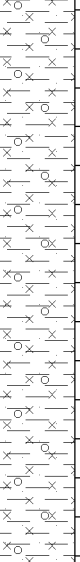
SAMPLES & TESTS			STRATA					Geology	Instrument/Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						(0.34)	Firm dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to coarse sub angular to sub rounded flint. (Topsoil).		
						0.34 (0.55)	Firm brown and orange brown sandy silty CLAY.		
						0.89 (0.87)	Stiff dark orange brown sandy slightly gravelly silty CLAY. Gravel is fine sub rounded chalk.		
						1.76 (0.34)	Light brown and brown slightly sandy slightly gravelly silty CLAY. Gravel is fine to medium sub rounded chalk and fine sub angular to sub rounded flint.		
						2.10 (0.35)	Firm light grey and orange brown sandy slightly gravelly silty CLAY. Gravel is fine sub rounded chalk.		
						2.45 (0.37)	Light orange brown and brown silty coarse grained SAND.		
						2.82 (0.18) 3.00	Orange brown silty very gravelly coarse grained SAND. Gravel is fine to medium sub angular flint and fine sub rounded chalk.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:19.375			Client Landform Bersted Limited			Method/ Plant Used Window Sample Rig			Logged By BS		

AGS3 UK BH CHALCRAFT LANE, BERSTED.GPJ GINT STD AGS 3_1.GDT 27/20

BOREHOLE LOG

Project Proposed Development at Chalcraft Lane, Bersted, Bognor Regis, West Sussex				BOREHOLE No WS12	
Job No 73002	Date 19-05-20	Ground Level (m)	Co-Ordinates ()		
Contractor Nott Group				Sheet 1 of 1	

SAMPLES & TESTS			STRATA					Geology	Instrument/ Backfill
Depth	Type No	Test Result	Water	Reduced Level	Legend	Depth (Thickness)	DESCRIPTION		
						(0.28) 0.28	Firm dark brown and brown slightly sandy slightly gravelly CLAY with occasional roots and rootlets. Gravel is fine to coarse sub angular to sub rounded flint. (Topsoil).		
						(1.08) 1.36	Firm brown and orange brown sandy silty CLAY.		
						(1.49) 2.85	Firm dark orange brown sandy slightly gravelly silty CLAY. Gravel is fine sub angular to sub rounded chalk and flint.		
						(0.15) 3.00	Soft dark brown slightly sandy gravelly silty CLAY. Gravel is fine to coarse angular to sub rounded flint and fine sub rounded chalk.		

Boring Progress and Water Observations						Chiselling			Water Added		GENERAL REMARKS
Date	Time	Depth	Casing Depth	Casing Dia. mm	Water Dpt	From	To	Hours	From	To	
											No groundwater encountered.
All dimensions in metres Scale 1:19.375			Client Landform Bersted Limited			Method/ Plant Used Window Sample Rig			Logged By BS		

AGS3 UK BH CHALCRAFT LANE, BERSTED.GPJ GINT STD AGS 3_1.GDT 27/20