

Method: Cable Percussion

Date(s): 23/08/2021

Logged By: SR

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 469818.80, 109068.53

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 23.34m OD

Scale: 1:50

Samples / Tests			Water- Stikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation	Backfill
Depth (m)	Type	Results								
0.40	B			Pink and grey silty fine to coarse SAND and fine to coarse angular to subangular GRAVEL of limestone and brick (MADE GROUND - SURFACE COVERING)	0.10	(0.10)	23.24			
0.40	ES			Orangish brown clayey silty fine to coarse SAND with rare fine to coarse flint and brick gravel. Rare glass fragments. (MADE GROUND)	0.60	(0.50)	22.74			
1.00	B			Stiff orangish brown mottled grey silty sandy CLAY. Sand is fine to medium. Rare remnant rootlets. (LONDON CLAY FORMATION (WEATHERED))	1					
1.00	ES									
1.50	SPT	N=5 (1,0,1,1,1,2)								
1.50	D									
2.00	D				2					
2.50 - 2.95	U									
					2.70		20.64			
3.00	D			Pale greenish grey mottled orange mottled brown and occasionally dark brown clayey fine and medium SAND. Frequent pockets of stiff brown mottled grey sandy Clay. (LONDON CLAY FORMATION (WEATHERED))	3					
3.50	SPT	N=41 (3,6,7,9,12,13)								
3.50	D			Brown mottled dark grey clayey fine and medium SAND. Frequent pockets of stiff brown mottled grey and orange sandy Clay. (LONDON CLAY FORMATION)	3.50		19.84			
4.00	D				4					
4.50	SPT	N=46 (5,9,11,12,11,12)								
4.50	D				5					
5.50 - 6.00	B			Dark grey clayey silty fine and medium SAND. (LONDON CLAY FORMATION)	5.40		17.94			
6.00	SPT	N=23 (3,5,6,5,6,6)			6					
6.00	D									
					6.70		16.64			
7.00	D			Dark grey MUDSTONE (LONDON CLAY FORMATION)	7					
				Stiff to very stiff dark brownish grey silty CLAY with rare shell fragments. (LONDON CLAY FORMATION)	7.00	(0.30)	16.34			
7.50	U									
7.50 - 8.00	B				8					
8.50	D									
9.00	SPT	N=25 (3,5,5,6,6,8)			9					
9.00	D									
10.00	D				10					

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 5.00m and 6.90m bgl. 3. Monitoring well installed at 10.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)



Project: Dunsbury Park

Borehole No
BH1.01

Page No. 2 of 3

Method: Cable Percussion	Date(s): 23/08/2021	Logged By: SR	Drilled By: SEDS
Client: Portsmouth City Council	Co-ords: 469818.80, 109068.53	Checked By: DP	Flush:
Hydrock Project No: 19453	Ground Level: 23.34m OD		Scale: 1:50

Samples / Tests			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
10.50 - 10.80	U			Stiff to very stiff dark brownish grey silty CLAY with rare shell fragments. (LONDON CLAY FORMATION)					
10.85	D								
					11				
11.50	D								
12.00	SPT	N=29 (4,5,6,7,7,9)			12				
12.00	D								
					13				
13.50 - 13.75	U								
13.80	D					(13.45)			
					14				
14.50	D								
15.00	SPT	N=33 (5,7,7,8,8,10)			15				
15.00	D								
16.00	D				16				
16.50 - 16.80	U								
16.85	D				17				
17.50	D								
18.00	SPT	N=44 (7,9,9,11,11,13)			18				
18.00	D								
19.00	D				19				
19.50 - 19.80	U								
19.85	D				20				

Progress and Observations									Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
												1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 5.00m and 6.90m bgl. 3. Monitoring well installed at 10.00m bgl.



Method: Cable Percussion	Date(s): 23/08/2021	Logged By: SR	Drilled By: SEDS
Client: Portsmouth City Council	Co-ords: 469818.80, 109068.53	Checked By: DP	Flush:
Hydrock Project No: 19453	Ground Level: 23.34m OD		Scale: 1:50

Samples / Tests			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
				Stiff to very stiff dark brownish grey silty CLAY with rare shell fragments. (LONDON CLAY FORMATION)	20.45		2.89		
				End of Borehole at 20.45m					
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				

Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 5.00m and 6.90m bgl. 3. Monitoring well installed at 10.00m bgl.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	

[illegible]

Method: Trial Pit	Date(s): 23/07/2021	Logged By: DP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 469863.80, 109113.47	Stability: Stable	Dimensions: 3.70m
Hydrock Project No: 19453	Ground Level: 24.78m OD	Plant: KUBOTA KX080-40	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.25	ES			Grass over reddish grey, silty, sandy GRAVEL. Gravel is angular to subangular fine to coarse of limestone aggregates. (MADE GROUND - SURFACE COVERING) Orangish brown, silty, fine SAND very weakly cemented with rare calcite crystal. (MADE GROUND)	0.17	(0.17)	24.61	
0.75	B			Light grey and orange, silty fine SAND with a slight sea/salty odour and locally ferreous staining. (BOGNOR SAND MEMBER)	0.65	(0.48)	24.13	
1.50	D				1	(1.65)		
2.00	D				2			
2.50	B			Blueish grey/dark grey, very silty, fine SAND or friable sandy SILT with occasional orange staining/partings. (LONDON CLAY FORMATION)	2.30		22.48	
3.50	D			... At 3.40m bgl occasional damp pockets of sandy silt. Base of Excavation at 3.50m	3.50	(1.20)	21.28	
					4			
					5			

General Remarks:
1. No groundwater encountered. 2. Backfilled with arisings.

[illegible]

<div></div>			Project: Dunsbury Park			Trialpit No TP1.04 Page No. 1 of 1		
Method: Trial Pit			Date(s): 23/07/2021		Logged By: DP		Checked By: DP	
Client: Portsmouth City Council			Co-ords: 469815.28, 109021.05		Stability: Stable		Dimensions: 3.50m	
Hydrock Project No: 19453			Ground Level: 22.94m OD		Plant: KUBOTA KX080-40		0.60m <div></div> 1:25	
Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.45 0.50	ES B			Grass over reddish grey, silty, sandy GRAVEL. Gravel is angular to subangular fine to coarse of limestone aggregates. (MADE GROUND - SURFACE COVERING)	0.18	(0.18)	22.76	
1.20	D			Orangish brown, silty, fine SAND very weakly cemented with occasional subangular to subrounded fine to coarse rare gravel of limestone aggregates; rare brick fragments; a single piece of fibrous material (possible glass fibres or asbestos) and occasional glass and tile fragments. (MADE GROUND)	1	(1.82)		
1.50	ES							
2.00	B			Orangish brown, silty, gravelly, fine SAND with rare cobble of flint. Gravel is rounded to subangular fine to coarse of flint, limestone aggregates, bricks and tiles fragments. (MADE GROUND)	2	(0.40)	20.94	
2.60 2.60	D HSV	42kPa		Greyish brown, silty, fine SAND with organic dark grey silt/clay pockets. Possible old natural surface. (BOGNOR SAND MEMBER)	2.40 2.50	(0.10)	20.54 20.44	
3.00	HSV	51kPa		Soft, greyish brown, slightly gravelly, silty sandy CLAY. Gravel is subrounded to well rounded medium to coarse of flint. (LONDON CLAY FORMATION)	3	(1.00)		
3.50 3.50	B HSV	73kPa		Base of Excavation at 3.50m	3.50		19.44	
					4			
					5			
<div>General Remarks:</div> <div>1. No groundwater encountered. 2. Backfilled with arisings.</div>								
Logged in general accordance with BS5930:2015								

Method: Dynamic (Windowless) Sampler

Date(s): 26/07/2021

Logged By: LC

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 469838.41, 109101.78

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 24.45m OD

Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
1.00 - 2.00		100%	0.50 0.50 - 0.70 0.70 - 1.00	ES B B	N=22 (3,4,4,6,6,6)		Reddish brown, gravelly, fine to coarse SAND. Gravel is subangular to angular fine to coarse of ballast/aggregate. (MADE GROUND - SURFACE COVERING) Light brown, gravelly, fine to medium SAND. (MADE GROUND)	0.10	(0.10)	24.35		
2.00 - 3.00		100%	1.20	SPT			Orange brown, fine to medium SAND. (BOGNOR SAND MEMBER)	0.70		23.75		
			1.50 1.50 - 2.00	ES B								
3.00 - 4.00		85%	2.00	SPT	N=15 (2,3,4,4,4,3)		Orange brown, slightly clayey, fine to medium SAND with occasional patches of light grey and dark orange coloured sand. (BOGNOR SAND MEMBER)	1	(0.50)			
4.00 - 5.00		85%	3.00	SPT	N=8 (2,2,2,2,2,2)		Very soft, brown and grey mottled orange, very sandy CLAY. Sand is fine to medium. (LONDON CLAY FORMATION (WEATHERED)) Soft to firm, dark grey, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION)	3.00		21.45		
			3.20	D								
4.00 - 5.00		85%	4.00	SPT	N=12 (2,2,3,3,3,3)							
			5.00	SPT	N=23 (3,4,4,6,6,7)							
5.00	D											
End of Borehole at 5.45m								5.45		19.00		

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 3.50m bgl. 3. Monitoring well installed to 5.0m bgl.

Method: Dynamic (Windowless) Sampler

Date(s): 26/07/2021

Logged By: LC

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 469805.37, 109031.94

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 23.04m OD

Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
1.00 - 2.00		100%	0.50	ES	N=25 (3,4,4,5,8,8)		Brown, sandy, gravelly CLAY (wet) with occasional rootlets. Gravel is subangular fine to coarse of ballast/aggregate. Sand is fine to medium. (MADE GROUND)	0.30	(0.30)	22.74		
			0.50 - 1.00	B			Orange brown, slightly silty, clayey, gravelly, fine to medium SAND with rare pockets of grey clay. Gravel is subangular fine to coarse of flint and redbrick. (MADE GROUND)		(0.70)			
			1.20	SPT			Soft, orange brown, slightly silty, sandy, friable CLAY with rare subangular to subrounded fine to medium gravel of flint. Sand is fine to medium. (MADE GROUND)	1.00	(0.35)	22.04		
			1.50	ES			Brown, slightly clayey, silty, fine to medium SAND with rare rootlets and occasional subangular fine to medium gravel of flint, red brick and peat. (MADE GROUND)	1.35	(0.65)	21.69		
2.00 - 3.00		100%	2.00	SPT	N=12 (3,3,3,3,3,3)		Soft becoming firm, brownish grey, slightly silty, sandy CLAY with rare subangular fine to medium gravel. (LONDON CLAY FORMATION (WEATHERED))	2.00	(1.00)	21.04		
							... At 2.75m bgl becoming mottled orange. ... At 2.90m bgl becoming grey.					
3.00 - 4.00		75%	3.00	SPT	N=11 (1,1,2,2,3,4)		Soft to firm, brownish grey mottled orange CLAY. (LONDON CLAY FORMATION (WEATHERED))	3.00		20.04		
			3.00	D								
4.00 - 5.00		70%	3.00	HSV	51kPa							
			4.00	SPT	N=8 (0,1,2,1,2,3)							
			4.00	HSV								
			4.50	HSV	60kPa		Soft to firm, orange brown mottled blueish grey CLAY. (LONDON CLAY FORMATION)	4.50		18.54		
			5.00	SPT	N=55 (2,8,11,14,15,15)		... At 4.90m bgl rare rounded white gravel.	5	(0.95)			
			5.00	D								
							End of Borehole at 5.45m	5.45		17.59		

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Borehole backfilled with arisings.

Method: Cable Percussion

Date(s): 24/08/2021

Logged By: SR

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 469979.27, 109420.13

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 36.66m OD

Scale: 1:50

Samples / Tests			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
0.50 0.50 - 1.00	B ES			Pink and grey silty fine to coarse SAND and fine to coarse angular to subangular GRAVEL of limestone and brick (MADE GROUND - SURFACE COVERING) Soft to firm orange mottled grey sandy CLAY/SILT with rare fine and medium siltstone and sandstone gravel. (MADE GROUND)	0.10 (0.10)		36.56		
1.50 1.50	SPT D	N=8 (1,1,2,2,2,2)		Soft to firm orange mottled grey sandy CLAY/SILT. (LONDON CLAY FORMATION (WEATHERED))	1.50 (0.50)		35.16		
2.00 2.00 - 2.50	D ES			Stiff dark grey slightly sandy silty CLAY with rare 2-10mm lenses of orange clayey fine to medium SAND (LONDON CLAY FORMATION)	2.00		34.66		
2.50 2.50 - 2.95	SPT D	N=11 (1,2,2,3,3,3)							
3.00	D			... At 3.00m bgl occasional shell fragments.					
3.50 - 3.95	U								
4.00	D								
4.50 4.50 - 4.95	SPT D	N=23 (2,3,4,6,6,7)							
5.00	D								
5.50 - 5.95	U								
6.00	D								
7.00 7.00 - 7.45	SPT D	N=26 (3,4,5,6,7,8)							
8.00	D								
8.50 - 8.95	U								
9.00	D								

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 5.80m and 11.30m bgl. 3. Borehole backfilled with arisings.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

Method: Cable Percussion

Date(s): 24/08/2021

Logged By: SR

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 469979.27, 109420.13

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 36.66m OD

Scale: 1:50

Samples / Tests			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
10.00	SPT	N=24 (3,4,5,5,6,8)		Stiff dark grey slightly sandy silty CLAY with rare 2-10mm lenses of orange clayey fine to medium SAND (LONDON CLAY FORMATION)					
10.00 - 10.45	D								
11.00	D		▼		11	11.00	25.66		
11.50 - 11.95	U		☒	Firm to stiff, dark grey CLAY. (LONDON CLAY FORMATION)					
12.00	D				12				
13.00	SPT	N=31 (3,5,6,7,9,9)			13				
13.00 - 13.45	D								
14.00	D				14				
14.50 - 14.95	D								
15.00	D				15				
16.00	SPT	N=35 (4,7,8,8,9,10)			16		(9.45)		
16.00 - 16.45	D								
17.00	D				17				
17.50 - 17.95	U								
18.00	D				18				
					19				
					20				

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 5.80m and 11.30m bgl. 3. Borehole backfilled with arisings.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

<div></div>							Project: Dunsbury Park					Borehole No BH4.01								
												Page No. 3 of 3								
Method: Cable Percussion							Date(s): 24/08/2021					Logged By: SR			Drilled By: SEDS					
Client: Portsmouth City Council							Co-ords: 469979.27, 109420.13					Checked By: DP			Flush:					
Hydrock Project No: 19453							Ground Level: 36.66m OD								Scale: 1:50					
Samples / Tests						Water- Strikes	Stratum Description						Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill			
Depth (m)	Type	Results																		
20.00	SPT	N=44				Firm to stiff, dark grey CLAY. (LONDON CLAY FORMATION)						20.45		16.21						
20.00 - 20.45	D	(5,8,10,11,11,12)																		
						End of Borehole at 20.45m														
												20								
												21								
												22								
												23								
												24								
												25								
												26								
												27								
												28								
												29								
												30								
Progress and Observations												Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 5.80m and 11.30m bgl. 3. Borehole backfilled with arisings.					
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)									

Method: Cable Percussion

Date(s): 23/08/2021

Logged By: SR

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470017.04, 109305.31

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 32.55m OD

Scale: 1:50

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Depth (m)	Type	Results							
0.50 0.50 - 1.00	B ES			Pink and grey silty fine to coarse SAND and fine to coarse angular to subangular GRAVEL of limestone and brick (MADE GROUND - SURFACE COVERING) Orangish brown silty gravelly fine to coarse SAND with low cobble content. Gravel and cobbles are angular to subangular of siltstone/sandstone. (MADE GROUND)	0.10 (0.10)		32.45		
1.00	D				1	(1.40)			
1.50	SPT	N=10 (1,2,2,3,2,3)			1.50		31.05		
1.50 - 2.00 2.00	D ES D			Dark grey occasionally mottled orange clayey fine and medium SAND. (BOGNOR SAND MEMBER)	2	(1.00)			
2.50	SPT	N=10 (1,2,2,2,3,3)			2.50		30.05		
2.50 - 2.95 3.00	D D			Stiff dark grey slightly sandy silty CLAY (LONDON CLAY FORMATION)	3				
3.50 - 3.95	U				4				
4.00	D				5				
4.50	SPT	N=16 (2,3,3,4,4,5)			5	(4.50)			
4.50 - 4.95 5.00	D D				6				
5.50 - 5.95	U				7				
6.00	D				8				
7.00	SPT	N=20 (2,3,4,5,5,6)			7		25.55		
7.00 - 7.45	D			Stiff dark bluish grey silty CLAY. (LONDON CLAY FORMATION)	9	(4.40)			
8.00	D				10				
8.50 - 8.95 8.50 - 9.00	U B								

Progress and Observations									Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
												1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.60m and 11.30m bgl. 3. Monitoring well installed at 10.00m bgl.

Method: Cable Percussion

Date(s): 23/08/2021

Logged By: SR

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470017.04, 109305.31

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 32.55m OD

Scale: 1:50

Samples / Tests			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
10.00	SPT	N=21 (2,3,4,5,6,6)		Stiff dark bluish grey silty CLAY. (LONDON CLAY FORMATION) ... From 10.00m bgl rare shell fragments.					
10.00 - 10.45	D								
11.00	D			Firm to stiff grey CLAY. (LONDON CLAY FORMATION)	11		21.15		
11.50 - 11.95	U								
12.00	D				12				
13.00	SPT	N=30 (2,4,6,7,8,9)							
13.00 - 13.45	D				14				
14.00	D								
14.50 - 14.95	D				15				
15.00	D								
16.00	SPT	N=35 (3,7,8,8,9,10)			16	(9.05)			
16.00 - 16.45	D								
17.00	D				17				
17.50 - 17.95	D								
18.00	D				18				
					19				
					20				

Progress and Observations

Chiselling

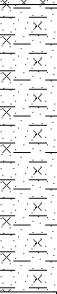
General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.60m and 11.30m bgl. 3. Monitoring well installed at 10.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

<div></div>							Project: Dunsbury Park					Borehole No BH4.02					
												Page No. 3 of 3					
Method: Cable Percussion							Date(s): 23/08/2021					Logged By: SR			Drilled By: SEDS		
Client: Portsmouth City Council							Co-ords: 470017.04, 109305.31					Checked By: DP			Flush:		
Hydrock Project No: 19453							Ground Level: 32.55m OD								Scale: 1:50		
Samples / Tests						Water- Strikes	Stratum Description						Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results															
20.00	SPT	N=40				Firm to stiff grey CLAY. (LONDON CLAY FORMATION)						20.45		12.10			
20.00 - 20.45	D	(4,8,9,10,10,11)															
						End of Borehole at 20.45m											
												20.45					
												21					
												22					
												23					
												24					
												25					
												26					
												27					
												28					
												29					
												30					

Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.60m and 11.30m bgl. 3. Monitoring well installed at 10.00m bgl.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	

<div></div>			Project: Dunsbury Park			Trialpit No TP4.01 Page No. 1 of 1			
Method: Trial Pit			Date(s): 21/07/2021		Logged By: DP		Checked By: DP		
Client: Portsmouth City Council			Co-ords: 469973.44, 109439.08		Stability: Stable		Dimensions: 3.80m		Scale: 1:25
Hydrock Project No: 19453			Ground Level: 36.60m OD		Plant: ZAXIS 130LCN		0.60m		
Samples / Tests			Water- Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	
Depth (m)	Type	Results							
0.10	ES			Reddish grey, silty, sandy GRAVEL. Gravel is angular to subangular fine to coarse of limestone aggregates. (MADE GROUND - SURFACE COVERING)	0.18	(0.18)	36.42		
				Stiff, orangish brown, sandy SILT. Sand is fine. (MADE GROUND)		(0.37)	36.05		
0.60	B	48kPa		Greyish brown mottled orangish brown, sandy SILT/CLAY. (LONDON CLAY FORMATION (WEATHERED))	0.55	(1.40)	36.05		
1.20 1.20	D HSV								
2.50 2.50	D HSV	84kPa		Firm to stiff, blueish, slightly sandy to sandy, silty CLAY with rare orange staining. (LONDON CLAY FORMATION)	1.95	(0.95)	34.65		
2.90	B			... At 2.70m bgl elongate fossil.	2.90				33.70
				Base of Excavation at 2.90m					
General Remarks: 1. Slow groundwater seepage at 2.20m bgl. 2. Backfilled with 20mm gravel to 1.90m bgl and pipework for infiltration testing.									

Method: Trial Pit

Date(s): 22/07/2021

Logged By: DP

Checked By: DP

Client: Portsmouth City Council

Co-ords: 470077.40, 109396.82

Stability: Stable

Dimensions:

Scale:

Hydrock Project No: 19453

Ground Level: 36.86m OD

Plant: ZAXIS 130LCN

0.60m 3.50m

1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.25	ES			Greyish yellow and reddish grey, silty, sandy GRAVEL. Gravel is angular to subangular fine to coarse of limestone aggregates. (MADE GROUND - SURFACE COVERING)	0.12	(0.12)	36.74	
0.50 0.50	B HSV	61kPa		Soft to firm, orangish brown mottled greyish brown and light grey, sandy to very sandy SILT with laminations of fine silt. (LONDON CLAY FORMATION (WEATHERED)) ... At 0.60m bgl becoming soft.		(1.33)		
1.00 1.00	D HSV	42kPa			1			
1.50 1.50	B HSV	73kPa		Greyish brown mottled orangish brown and grey, silty, sandy CLAY with occasional roots. (LONDON CLAY FORMATION (WEATHERED))	1.45		35.41	
2.00	D				2	(0.85)		
2.50 2.50	B HSV	108kPa		Stiff, blueish grey to dark grey, sandy SILT with occasional orange brown staining, locally abundant and occasional off white shell fragments. Sand is fine. (LONDON CLAY FORMATION)	2.30		34.56	
3.10	D				3	(1.20)		
					3.50		33.36	
				Base of Excavation at 3.50m				
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 22/07/2021	Logged By: DP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 469959.66, 109355.61	Stability: Stable	Dimensions: Scale:
Hydrock Project No: 19453	Ground Level: 36.88m OD	Plant: ZAXIS 130LCN	0.60m <input type="text"/> 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.05	ES			Reddish grey, silty, sandy GRAVEL. Gravel is angular to subangular fine to coarse of limestone aggregates. (MADE GROUND - SURFACE COVERING)	0.10	(0.10)	36.78	
0.30	B			Very stiff, sandy SILT with occasional rounded gravel of flint and limestone aggregates. Lumps can be broken by hand but non-plastic. (MADE GROUND)		(0.60)		
0.40	ES				0.70		36.18	
0.80	B			Orangish brown to grey brown, silty fine SAND. (MADE GROUND)	1	(0.45)		
1.30	D			Greyish brown, silty, fine SAND with occasional dark grey organic matter pockets and relic organic fragments (possible horizon below strip/ incomplete strip before earthworks). Locally lenses of laminated light grey and orangish brown, silty sand and sandy clay. (BOGNOR SAND MEMBER)	1.15		35.73	
1.80	B				2			
2.50	D			Dark grey, silty, fine SAND with occasional well rounded fine to coarse gravel of flint. (BOGNOR SAND MEMBER)	2.20		34.68	
3.20	D			Light grey mottled orangish brown, clayey, silty fine SAND. (BOGNOR SAND MEMBER)	3		33.88	
					3.00	(0.80)		
					3.50	(0.50)	33.38	
				Base of Excavation at 3.50m				
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 23/07/2021	Logged By: DP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470019.87, 109342.75	Stability: Stable	Dimensions: 3.50m
Hydrock Project No: 19453	Ground Level: 36.41m OD	Plant: ZAXIS 130LCN	0.60m <input type="text"/> 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Grass over reddish grey, silty, sandy GRAVEL. Gravel is angular to subangular fine to coarse of limestone aggregates. (MADE GROUND - SURFACE COVERING)	0.10	(0.10)	36.31	
0.50	B			Stiff, very sandy SILT or silty fine SAND. Sand is fine. (MADE GROUND)		(0.50)		
					0.60		35.81	
1.20	D			Orangish brown and greyish brown, silty, fine SAND. Locally rare to occasional well rounded fine to medium gravel of flint. (MADE GROUND)	1	(1.20)		
					1.80		34.61	
2.00	D			Orangish brown and greyish brown, silty, fine SAND with rare dark grey clay pockets/ partings (possible organic remains). (BOGNOR SAND MEMBER)	2	(0.50)		
					2.30		34.11	
2.50	B			Light grey mottled orange brown, silty, fine SAND with a slight sea/salty odour. (BOGNOR SAND MEMBER)		(0.90)		
3.00	D				3			
					3.20		33.21	
Base of Excavation at 3.20m								
					4			
					5			

General Remarks:
1. No groundwater encountered. 2. Backfilled with arisings.

Checked By: DP

Dimensions:	Scale:
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General Remarks:

1. Slow groundwater seepage at 2.90m bgl. 2. Backfilled with arisings.

Logged in general accordance with BS930:2011

Checked By: DP

Scale:

1:25

[illegible]

[illegible]

General Remarks:
1. Inspection hand pit excavated to 0.80m bgl. 2. Mechanical excavation was not possible due to access restrictions. 3. Hand pit terminated at 0.80m bgl due to hardness of strata. 4. Hand pit backfilled with arisings.

Method: Dynamic (Windowless) Sampler

Date(s): 27/07/2021

Logged By: LC

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 470051.45, 109458.59

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 36.63m OD

Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
0.00 - 1.00		100%	0.15 - 0.30 0.20	B ES			Reddish brown, slightly clayey, slightly sandy GRAVEL with occasional rootlets. Gravel is subangular to angular fine to coarse of ballast/aggregate. (MADE GROUND - SURFACE COVERING)	0.15 (0.15)		36.48		
			0.60	ES			Grey brown, slightly clayey, sandy, friable GRAVEL. Sand is fine to medium. (MADE GROUND)	0.30 (0.15)		36.33		
			0.80 - 1.00	B			Dark grey, slightly clayey, fine to medium SAND with rare shell fragments. (LONDON CLAY FORMATION)	(0.70)				
1.00 - 2.00		100%	1.00	SPT	N=14 (2,3,3,4,3,4)		Dark grey, sandy CLAY. Sand is fine to medium. (LONDON CLAY FORMATION)	1.00		35.63		
										(0.55)		
							Dark grey, clayey, fine SAND. (LONDON CLAY FORMATION) ... Between 1.55m to 1.80m bgl abundant shell fragments.	1.55		35.08		
2.00 - 3.00		100%	2.00	SPT	N=19 (2,4,4,5,5,5)		Dark grey, sandy to very sandy CLAY. Sand is fine. (LONDON CLAY FORMATION)	2.00		34.63		
			2.50	B								
3.00 - 4.00		100%	3.00	SPT	N=27 (3,4,5,7,7,8)			3				
										(3.45)		
4.00 - 5.00		90%	4.00	SPT	N=28 (3,5,5,6,8,9)			4				
			5.00	SPT	N=25 (3,4,5,6,7,7)			5				
			5.00	B								
							End of Borehole at 5.45m	5.45		31.18		
								6				

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Borehole backfilled with arisings.

Drilled By: Impact Geotechnical

Riq: Terrier

Scale: 1:30

General Remarks:
1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Borehole backfilled with arisings.

Method: Dynamic (Windowless) Sampler

Date(s): 27/07/2021

Logged By: LC

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 470033.92, 109400.49

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 36.78m OD

Scale: 1:30

Sample Run Info			Testing			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
1.00 - 2.00		100%	0.40 0.40 - 0.80	ES B	N=15 (1,2,3,4,4,4)	▼	Reddish brown, sandy GRAVEL. Gravel is subangular to angular fine to coarse of ballast/aggregate. Sand is fine to medium. (MADE GROUND - SURFACE COVERING) Light brown, fine to medium SAND. (BOGNOR SAND MEMBER)	0.10	(0.10)	36.68		
			0.80 - 1.00	B			Orange brown, slightly clayey, fine to medium SAND. (BOGNOR SAND MEMBER)	0.80		35.98		
			1.20	SPT				1				
2.00 - 3.00		100%	2.00	SPT	N=11 (1,0,2,3,3,3)		Orange brown mottled grey, clayey, fine to medium SAND (BOGNOR SAND MEMBER)	1.75		35.03		
			2.00	B			Firm, dark grey and orange brown, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION (WEATHERED)) Dark grey, sandy CLAY with occasional shell fragments. Sand is fine. (LONDON CLAY FORMATION)	1.85	(0.10)	34.93		
			2.00					1.95	(0.10)	34.83		
3.00 - 4.00		90%	3.00	SPT	N=13 (1,2,2,3,4,4)			3				
			3.50	B								
4.00 - 5.00		90%	4.00	SPT	N=14 (1,2,3,3,3,5)			4				
			5.00	SPT	N=18 (1,3,4,4,5,5)			5				
							End of Borehole at 5.45m	5.45		31.33		
								6				

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 1.40m bgl. 3. Monitoring well installed to 5.0m bgl.

Method: Dynamic (Windowless) Sampler

Date(s): 27/07/2021

Logged By: LC

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 470057.93, 109335.08

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 36.47m OD

Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
0.15 - 1.00		100%	0.20 - 0.50 0.30	B ES			Reddish brown, gravelly SAND. Gravel is subangular to angular fine to coarse of ballast/aggregate. Sand is fine to medium. (MADE GROUND - SURFACE COVERING) Light brown with rare light grey patches, very compacted, fine to medium SAND. (MADE GROUND)	0.15 (0.35) 0.50	(0.15) (0.35)	36.32 35.97		
1.00 - 2.00		100%	0.90 1.00 1.20 - 1.50	ES SPT B	N=15 (2,3,3,4,4,4)		Light brown with rare light grey patches, fine to medium SAND. (BOGNOR SAND MEMBER) ... At 0.55m bgl becoming orange brown with rare light grey patches. Brown with orange brown/ light grey mottling, fine to medium SAND with occasional subangular to angular fine to medium flint gravel. (BOGNOR SAND MEMBER)	1.00 (1.00)	(0.50)	35.47		
2.00 - 3.00		85%	2.00	SPT	N=9 (3,3,3,2,2,2)		Brown mottled orange brown and light grey, slightly clayey, fine to medium SAND. (BOGNOR SAND MEMBER)	2.00		34.47		
3.00 - 4.00		90%	3.00 3.20 - 3.50	SPT B	N=23 (4,4,5,6,6,6)		... At 3.65m bgl becoming brown.	3 (2.00)	(2.00)			
4.00 - 5.00		95%	4.00 4.60 - 5.00 5.00	SPT B SPT	N=17 (2,3,4,5,4,4) N=17 (3,3,4,4,4,5)		Orange brown mottled dark grey, slightly clayey, fine to medium SAND. (LONDON CLAY FORMATION (WEATHERED)) Soft to firm, dark grey, sandy CLAY. Sand is fine to medium. (LONDON CLAY FORMATION)	4.00 4.40 5 5.45	(0.40) (1.05)	32.47 32.07 31.02		
End of Borehole at 5.45m												

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Monitoring well installed to 5.0m bgl.

Method: Dynamic (Windowless) Sampler

Date(s): 28/07/2021

Logged By: YP

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 469950.49, 109281.23

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 32.42m OD

Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
0.00 - 1.00		70%					Greyish/reddish brown, very sandy GRAVEL. Gravel is subangular to subrounded fine to coarse of aggregate and rare flint gravel. (MADE GROUND - SURFACE COVERING) Yellowish brown, very compacted, fine SAND with occasional gravel of aggregates. (MADE GROUND)	0.10	(0.10)	32.32		
			0.50 0.60	ES B			Yellowish brown, slightly silty, fine SAND with rare subangular flint fragments. (MADE GROUND)	0.50	(0.40)	31.92		
							Grey, slightly silty, very compacted, fine SAND with rare black staining (possible degraded old roots), thin rootlets and rounded fine to coarse gravel of flint. (BOGNOR SAND MEMBER)	0.80	(0.30)	31.62		
1.00 - 2.00		100%	1.00	SPT	N=18 (4,6,5,5,4,4)		Orangish brown slightly mottled light grey, slightly silty fine SAND. (BOGNOR SAND MEMBER)	1.00	(0.20)	31.42		
2.00 - 3.00		90%	2.00 2.00 - 2.80	SPT B	N=13 (2,2,2,3,4,4)			2	(2.50)			
3.00 - 4.00		90%	3.00	SPT	N=14 (3,3,4,4,3,3)			3				
4.00 - 5.00		100%	3.80 4.00 4.80 5.00	D SPT D SPT	50/150mm (2,3,3,4,7) N=19 (2,3,4,4,5,6)		Firm, dark grey, sandy, silty CLAY. (LONDON CLAY FORMATION) ... At 4.50m bgl rare white shell fragments.	3.50 4 5 5.45		28.92 26.97		
End of Borehole at 5.45m												
								6				

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Monitoring well installed to 5.0m bgl.

Drilled By: Impact Geotechnical

Rig: Terrier

Scale: 1:30

General Remarks:
1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Borehole backfilled with arisings.

Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 8.50 and 11.50m bgl. 3. Borehole backfilled with arisings.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	

Logged in general accordance with BS5930:2015

Method: Cable Percussion

Date(s): 17/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470094.41, 109550.75

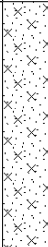
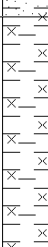
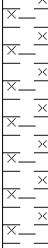
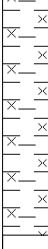
Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 42.87m OD

Scale: 1:50

Samples / Tests			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
10.00	SPT	N=23 (2,3,5,6,6,6)		Firm grey sandy SILT. Sand is fine (LONDON CLAY FORMATION)	11	(3.20)	31.17		
10.00 - 10.45	D								
11.00	D								
11.50 - 11.95	U								
12.00	D			Firm to stiff grey silty sandy CLAY (LONDON CLAY FORMATION) ... At 12.00m bgl becoming slightly sandy.	12	(3.30)	27.87		
13.00	SPT	N=29 (4,5,6,7,8,8)							
13.00 - 13.45	D								
14.00	D								
14.50 - 14.95	U								
15.00	D			Stiff grey silty CLAY (LONDON CLAY FORMATION) ... Between 15.00m and 16.00m bgl closely fissured.	15	(5.45)	27.87		
16.00	SPT	N=37 (3,6,8,9,10,10)							
16.00 - 16.45	D								
17.00	D								
17.50 - 17.95	U								
18.00	D								
18.00 - 18.45	U				18				
19.00					19				
20.00					20				

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 8.50 and 11.50m bgl. 3. Borehole backfilled with arisings.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

Samples / Tests			Water- Strikes	Stratum Description	Depth m	Thick- ness (m)	Level m	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
20.00	SPT	N=41		Stiff grey silty CLAY (LONDON CLAY FORMATION) ... At 20.00m bgl small pocket of concentrated off white fine to medium shell fragments evident.	20.45		22.42		
20.00 - 20.45	D	(4,8,9,10,10,12)							
				End of Borehole at 20.45m					
					21				
					22				
					23				
					24				
					25				
					26				
					27				
					28				
					29				
					30				

Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 8.50 and 11.50m bgl. 3. Borehole backfilled with arisings. <
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Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.30m and 9.20m bgl. 3. Monitoring well installed at 10.00m bgl.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	

Logged in general accordance with BS5930:2015

Method: Cable Percussion

Date(s): 19/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470182.21, 109484.62

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 39.84m OD

Scale: 1:50

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Depth (m)	Type	Results							
10.00	SPT	N=26 (2,4,6,6,7,7)		Soft to firm grey silty sandy CLAY (LONDON CLAY FORMATION) ... Between 10.00m to 12.00m bgl becoming slightly sandy with partings of light grey fine sand.	10.40		29.44		
10.00 - 10.45	D			Stiff grey silty CLAY (LONDON CLAY FORMATION)					
11.00	D				11		(1.60)		
11.50 - 11.95	U								
12.00	D			Very stiff grey silty CLAY (LONDON CLAY FORMATION)	12		27.84		
13.00	SPT	N=32 (2,5,7,8,8,9)			13				
13.00 - 13.45	D								
14.00	D			... Between 14.00m to 15.00m bgl rare off white shell fragments.	14				
14.50 - 14.95	U								
15.00	D				15				
16.00	SPT	N=35 (4,7,8,8,9,10)			16		(8.45)		
16.00 - 16.45	D								
17.00	D				17				
17.50 - 17.95	U								
18.00	D			... From 18.00m bgl becoming very closely fissured.	18				
					19				
					20				

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.30m and 9.20m bgl. 3. Monitoring well installed at 10.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

<div></div>							Project: Dunsbury Park					Borehole No BH6.02					
												Page No. 3 of 3					
Method: Cable Percussion							Date(s): 19/08/2021					Logged By: DP			Drilled By: SEDS		
Client: Portsmouth City Council							Co-ords: 470182.21, 109484.62					Checked By: DP			Flush:		
Hydrock Project No: 19453							Ground Level: 39.84m OD								Scale: 1:50		
Samples / Tests						Water- Strikes	Stratum Description						Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results															
20.00	SPT	N=39 (3,7,8,9,11,11)		Very stiff grey silty CLAY (LONDON CLAY FORMATION)						20.00							
20.00 - 20.45	D									20.45							
							End of Borehole at 20.45m										
													21				
													22				
													23				
													24				
													25				
													26				
													27				
													28				
													29				
													30				
Progress and Observations										Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.30m and 9.20m bgl. 3. Monitoring well installed at 10.00m bgl.				
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)						

Logged in general accordance with BS5930:2015

Method: Cable Percussion

Date(s): 18/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470150.37, 109409.82

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 39.21m OD

Scale: 1:50

Samples / Tests			Water- Stikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
0.10 - 0.30 0.20	B ES			Grass and vegetation over brown silty slightly gravelly fine SAND. Gravel is of fine to medium angular to sub rounded flint (TOPSOIL)	0.50	(0.50)	38.71		
0.50 - 1.00	B			Orange brown and light grey silty fine SAND (BOGNOR SAND MEMBER)	1	(1.00)			
1.50	SPT	N=9 (1,1,2,2,2,3)		Firm orange brown mottled light grey sandy SILT/CLAY. Sand is fine (LONDON CLAY FORMATION (WEATHERED))	1.50		37.71		
1.50 - 1.95	D				2	(1.00)			
2.00	D				2.50		36.71		
2.50	SPT	N=10 (1,2,2,2,3,3)		Firm orange brown mottled grey brown and light brown sandy to very sandy SILT/CLAY. Sand is fine. (LONDON CLAY FORMATION (WEATHERED))	3	(0.80)			
2.50 - 2.95	D				3.30		35.91		
3.30	D			Firm grey silty sandy CLAY. Sand is fine (LONDON CLAY FORMATION)	4				
3.50 - 3.95	U				5				
4.00	D			... Between 4.00m to 4.50m bgl very closely fissured.	6				
4.50	SPT	N=13 (1,2,2,3,4,4)			7				
4.50 - 4.95	D				8				
5.00	D			... At 5.00m bgl very closely to extremely closely fissured.	9				
5.50 - 5.95	U				10				
6.00	D								
7.00	SPT	N=20 (2,3,4,5,6,5)							
7.00 - 7.45	D								
8.00	D			... At 8.00m bgl soil recovered wet.					
8.50 - 8.95	U								
9.00	D			... Between 9.00m and 10.00m bgl partings of light grey fine sand.					

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.40m and 11.40m bgl. 3. Monitoring well installed at 10.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

Method: Cable Percussion

Date(s): 18/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470150.37, 109409.82

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 39.21m OD

Scale: 1:50

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Depth (m)	Type	Results							
10.00	SPT	N=28 (2,4,6,7,7,8)		Firm grey silty sandy CLAY. Sand is fine (LONDON CLAY FORMATION)	11				
10.00 - 10.45	D								
11.00	D								
11.50 - 11.95	U								
12.00	D			Stiff grey very closely to closely fissured silty slightly sandy CLAY. (LONDON CLAY FORMATION) ... Between 12.00mm and 13.00m bgl very closely fissured with occasional fine to medium off white shell fragments.	12		27.41		
13.00	SPT	N=31 (3,5,6,8,8,9)			13				
13.00 - 13.45	D					(3.20)			
14.00	D			... At 14.00m bgl very closely to closely fissured.	14				
14.50 - 14.95	U								
15.00	D			Very stiff grey silty CLAY. (LONDON CLAY FORMATION) ... Between 15.00m and 16.00m bgl very closely to closely fissured.	15		24.21		
16.00	SPT	N=35 (3,5,7,8,10,10)			16				
16.00 - 16.45	D								
17.00	D				17				
17.50 - 17.95	U								
18.00	D			... At 18.00m bgl partings of light grey fine sand.	18				
					19				
					20				

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.40m and 11.40m bgl. 3. Monitoring well installed at 10.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

<div></div>						Project: Dunsbury Park						Borehole No BH6.03 Page No. 3 of 3				
Method: Cable Percussion						Date(s): 18/08/2021				Logged By: DP			Drilled By: SEDS			
Client: Portsmouth City Council						Co-ords: 470150.37, 109409.82				Checked By: DP			Flush:			
Hydrock Project No: 19453						Ground Level: 39.21m OD							Scale: 1:50			
Samples / Tests					Water- Strikes	Stratum Description						Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results														
20.00	SPT	N=40			Very stiff grey silty CLAY. (LONDON CLAY FORMATION)						20.45		18.76			
20.00 - 20.45	D	(4,7,9,10,11)														
					End of Borehole at 20.45m											
											21					
											22					
											23					
											24					
											25					
											26					
											27					
											28					
											29					
											30					

Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.40m and 11.40m bgl. 3. Monitoring well installed at 10.00m bgl.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	

Method: Trial Pit	Date(s): 22/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470215.41, 109583.50	Stability: Stable	Dimensions: 2.60m
Hydrock Project No: 19453	Ground Level: 42.83m OD	Plant: JCB JS131LC	0.60m <input type="text"/> 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	
Depth (m)	Type	Results							
0.20	ES	50kPa		Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots and rootlets. Gravel is rounded to subangular fine to coarse of flint. (TOPSOIL)	0.40	(0.40)	42.43		
0.60	B			Brown to orange brown, very sandy, silty CLAY with frequent rootlets. Rare gravel of subangular to subrounded fine to coarse of flint. (HEAD DEPOSITS)	0.70	(0.30)	42.13		
0.80	HSV			Firm, orangish brown slightly mottled light grey, slightly gravelly, sandy, silty CLAY. Gravel is rounded to subrounded fine to medium of flint. Rare black mottling and rare dark orange staining. Sand is fine. (HEAD DEPOSITS)	1				
2.10	D	82kPa			2				
3.00	HSV			Firm to stiff, orangish brown slightly mottled light grey, sandy, silty CLAY. Sand is fine. (LONDON CLAY FORMATION (WEATHERED))	3		39.83		
						3.50	(0.50)	39.33	
				Base of Excavation at 3.50m					
					4				
					5				

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

[illegible]

Method: Trial Pit

Date(s): 22/07/2021

Logged By: YP

Checked By: DP

Client: Portsmouth City Council

Co-ords: 470172.49, 109527.86

Stability: Stable

Dimensions:

Scale:

Hydrock Project No: 19453

Ground Level: 42.16m OD

Plant: JCB JS131LC

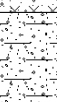
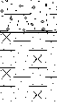
0.60m 3.10m

1:25

Samples / Tests			Water- Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.15	ES			Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots and rootlets. Gravel is rounded to subangular fine to coarse of flint. (TOPSOIL)	0.30	(0.30)	41.86	
				Brown to orange brown, very sandy, silty CLAY with frequent rootlets and rare gravel of subangular to subrounded fine to coarse of flint. (HEAD DEPOSITS)	0.65	(0.35)	41.51	
1.00 1.00	B HSV	67kPa		Firm, orangish brown mottled light grey, sandy, silty CLAY with rare black mottling and rare dark orange staining. Sand is fine. (HEAD DEPOSITS)	1			
1.80 1.80	D HSV	79kPa		... At 1.80m bgl rare black/ dark brown mottling.	2	(2.35)		
2.60	D				3		39.16	
3.20	D			Firm to stiff (friable) blueish dark grey silty CLAY with rare orange staining. (LONDON CLAY FORMATION)	3.50	(0.50)	38.66	
				... At 3.40m bgl HSV test not possible due to friability.				
				Base of Excavation at 3.50m				
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

<div></div>			Project: Dunsbury Park			Trialpit No TP6.04 Page No. 1 of 1		
Method: Trial Pit			Date(s): 23/07/2021		Logged By: YP		Checked By: DP	
Client: Portsmouth City Council			Co-ords: 470103.07, 109508.28		Stability: Stable		Dimensions: 3.40m	
Hydrock Project No: 19453			Ground Level: 41.76m OD		Plant: ZAXIS 130LCN		0.60m <div></div> 1:25	
Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.50	ES			Long grass over soft, brown, sandy slightly gravelly SILT with abundant roots and rootlets. Gravel is rounded to subrounded fine to coarse of flint. (TOPSOIL)	0.35	(0.35)	41.41	
				Brown to orange brown, slightly sandy SILT with frequent rootlets and rare gravel of subangular to subrounded fine to medium of flint. (HEAD DEPOSITS)	0.70	(0.35)	41.06	
1.00	B			Orangish brown mottled light grey, slightly gravelly, silty, clayey, fine SAND with rare rootlets. Gravel is rounded medium to coarse of flint. (HEAD DEPOSITS)	1.10	(0.40)	40.66	
1.20 1.20	D HSV	20kPa		Soft to firm, light grey mottled orangish brown, silty, sandy CLAY. (BOGNOR SAND MEMBER)				
2.50 2.50	D HSV	49kPa		... From 2.00m bgl becoming firm.	2.80	(1.70)	38.96	
				Stiff, dark grey sandy, silty CLAY with occasional white shells (intact and broken). (LONDON CLAY FORMATION)	3.50	(0.70)	38.26	
3.20	B							
3.50	HSV	109kPa		Base of Excavation at 3.50m				
General Remarks: 1. No groundwater encountered. 2. Backfilled with arisings.								



Project: Dunsbury Park

Trialpit No
TP6.05

Page No. 1 of 1

Method: Trial Pit

Date(s): 23/07/2021

Logged By: YP

Checked By: DP

Client: Portsmouth City Council

Co-ords: 470200.34, 109503.26

Stability: Stable

Dimensions:

Scale:

Hydrock Project No: 19453

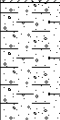
Ground Level: 40.42m OD

Plant: ZAXIS 130LCN

0.60m

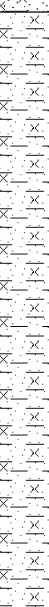
3.60m

1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots (up to 10mm diameter) and rootlets. Gravel is rounded to subrounded fine to coarse of flint. (TOPSOIL)		(0.35)	40.07	
0.50	B				0.35			
0.50	D					(0.40)		
0.50	HSV	63kPa		Firm, orangish brown, slightly gravelly, slightly sandy CLAY. Gravel is rounded fine to medium of flint. (HEAD DEPOSITS)	0.75		39.67	
1.00	D				1	(0.95)		
1.00	HSV	113kPa		Stiff, light grey mottled orangish brown, slightly sandy, silty CLAY. (LONDON CLAY FORMATION (WEATHERED))	1.70		38.72	
1.70	B							
1.80	HSV	75kPa		Firm, light grey mottled orangish brown, slightly sandy, silty CLAY. (LONDON CLAY FORMATION (WEATHERED))	2	(1.60)		
2.70	D				3			
2.70	HSV	79kPa		... At 2.70m bgl rare gravel of subrounded to subangular fine to medium of flint.	3.30		37.12	
3.50	B					(0.30)		
3.60	HSV	68kPa		Firm to stiff, dark grey, slightly sandy, silty CLAY. (LONDON CLAY FORMATION)	3.60		36.82	
				Base of Excavation at 3.60m				
					4			
					5			

General Remarks:
1. Slow groundwater seepage at 2.70m bgl. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 23/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470242.26, 109486.53	Stability: Stable	Dimensions: 3.60m 0.60m <input type="text"/>
Hydrock Project No: 19453	Ground Level: 38.54m OD	Plant: ZAXIS 130LCN	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.50	ES			Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots and rootlets. Gravel is rounded to subrounded fine to coarse of flint. (TOPSOIL)	0.40	(0.40)	38.14	
0.60	B			Orangish brown mottled slightly grey, gravelly, clayey, silty, fine SAND with occasional rootlets. Gravel is rounded fine to medium of flint. (HEAD DEPOSITS)	0.70	(0.30)	37.84	
				Light grey mottled orangish brown, clayey, silty, fine SAND. (BOGNOR SAND MEMBER)	1	(0.70)	37.14	
2.00	HSV	74kPa		Firm, light grey mottled orangish brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. (BOGNOR SAND MEMBER)	2	(2.00)	35.14	
2.20	B							
3.00	D	67kPa			3			
3.00	HSV							
3.50	B			Firm to stiff, dark grey, slightly sandy, silty CLAY. (LONDON CLAY FORMATION)	3.40	(0.20)	34.94	
3.60	HSV	90kPa		Base of Excavation at 3.60m	3.60			
					4			
					5			

General Remarks:
1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 23/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470171.30, 109422.12	Stability: Stable	Dimensions: Scale:
Hydrock Project No: 19453	Ground Level: 39.34m OD	Plant: ZAXIS 130LCN	0.60m 3.70m 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots and rootlets. Gravel is rounded to subrounded fine to coarse of flint. (TOPSOIL)		(0.35)		
					0.35		38.99	
				Brown and orangish brown, silty, fine SAND with occasional rootlets and rare gravel of subrounded to subangular fine to coarse of flint. (HEAD DEPOSITS)		(0.25)		
					0.60		38.74	
0.70	B			Light grey mottled orangish brown, clayey, silty, fine SAND. (BOGNOR SAND MEMBER)		(0.90)		
					1			
					1.50		37.84	
2.00	B			Firm, light grey mottled orangish brown, sandy, silty CLAY with rare dark orange staining. Sand is fine. (BOGNOR SAND MEMBER)		(1.80)		
2.00	HSV	56kPa			2			
					3			
					3.30		36.04	
3.50	HSV	101kPa		Stiff, dark grey slightly sandy, silty CLAY with rare white shell fragments. (LONDON CLAY FORMATION)		(0.50)		
3.60	B				3.80		35.54	
				Base of Excavation at 3.80m				
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 23/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470150.28, 109362.26	Stability: Stable	Dimensions: 3.80m
Hydrock Project No: 19453	Ground Level: 36.98m OD	Plant: ZAXIS 130LCN	0.60m <input type="text"/> 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.40	ES			Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots and rootlets. Gravel is rounded to subrounded fine to coarse of flint. (TOPSOIL)	0.30	(0.30)	36.68	
				Brown and orangish brown, silty, fine SAND with occasional rootlets and rare gravel of subrounded to subangular fine to coarse of flint. (HEAD DEPOSITS)	0.55	(0.25)	36.43	
0.90	B			Light grey mottled orangish brown clayey, silty, fine SAND. (BOGNOR SAND MEMBER)	1	(1.05)		
1.80	B			Firm, light grey mottled orangish brown, slightly silty, sandy CLAY with rare rootlets. Sand is fine. (BOGNOR SAND MEMBER)	1.60		35.38	
2.60	D				3	(1.60)		
3.40	B			Stiff, dark grey slightly sandy silty CLAY. (LONDON CLAY FORMATION)	3.20		33.78	
3.60	HSV	95kPa		Base of Excavation at 3.60m	3.60	(0.40)	33.38	
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 23/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470211.24, 109374.98	Stability: Stable	Dimensions: 3.80m
Hydrock Project No: 19453	Ground Level: 36.66m OD	Plant: ZAXIS 130LCN	0.60m <input type="text"/> 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.50 0.50	ES HSV	79kPa		Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots and rootlets. Gravel is rounded to subrounded fine to coarse of flint. (TOPSOIL) Firm, orangish brown, slightly gravelly, slightly sandy CLAY. Gravel is rounded fine to medium of flint. (MADE GROUND) ... At 0.50m bgl rare brick fragments (possible redundant clay pipework).	0.30 0.60	(0.30) (0.30)	36.36 36.06	
0.80 0.80	B HSV	83kPa		Firm to stiff, light grey mottled orangish brown, slightly sandy, silty CLAY. (LONDON CLAY FORMATION (WEATHERED))	1			
2.30 2.30	D HSV	83kPa			2			
2.90	HSV	69kPa			3			
3.50	B			Firm, dark grey, slightly sandy, silty CLAY. (LONDON CLAY FORMATION)	3.20		33.46	
3.70	HSV	39kPa		Base of Excavation at 3.70m	3.70	(0.50)	32.96	
					4			
					5			

General Remarks:
1. Slow groundwater seepage at 3.70m bgl. 2. Backfilled with arisings.

Drilled By: Impact Geotechnical

Riq: Terrier

Scale: 1:30

General Remarks:
1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Monitoring well installed to 5.0m bgl.

Method: Dynamic (Windowless) Sampler

Date(s): 29/07/2021

Logged By: LC

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 470190.03, 109564.96

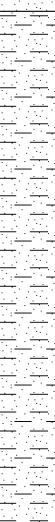
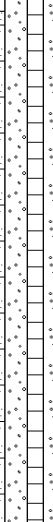
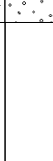
Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 42.97m OD

Scale: 1:30

Sample Run Info			Testing			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill	
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results								
1.00 - 2.00		100%	0.60 0.60 - 1.00	ES B	N=6 (1,0,1,2,1,2)		Long grass and vegetation over brown, slightly silty, fine to medium SAND with occasional roots and rootlets. (TOPSOIL)	0.30	(0.30)	42.67			
			1.20	SPT			Soft, orange brown, very sandy CLAY. Sand is fine to medium. (HEAD DEPOSITS)	1.30	(1.00)	41.67			
2.00 - 3.00		100%	1.50 - 2.00	B	N=10 (1,1,2,3,2,3)		Firm, orange brown, sandy CLAY. Sand is fine to medium. (BOGNOR SAND MEMBER)	2	(2.10)	39.57			
			2.30	HSV			62kPa						... At 2.10m bgl becoming brown mottled orange.
3.00 - 4.00		100%	2.90 3.00	HSV SPT	56kPa N=13 (1,2,2,4,3,4)		Firm, dark grey, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION)	3	(2.05)				
			3.00	D									4.00 - 5.00
4.00 - 5.00		100%	4.00	D	N=18 (1,2,3,4,5,6)				5				
			5.00	D									
									6				

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 5.00m bgl. 3. Monitoring well installed to 5.0m bgl.

Method: Dynamic (Windowless) Sampler

Date(s): 29/07/2021

Logged By: LC

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 470204.75, 109522.45

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 41.32m OD

Scale: 1:30

Sample Run Info			Testing			Water- Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
1.00 - 2.00		100%	0.20	ES	N=6 (0,1,0,2,1,3) 58kPa		Long grass and vegetation over topsoil comprising brown, slightly silty, fine to medium SAND with occasional roots and rootlets. (TOPSOIL)	0.30	(0.30)	41.02		
			0.60 0.60 - 1.00	ES B								
			1.20	SPT								
			1.30	HSV								
			1.50	D								
2.00 - 3.00		100%	2.00	SPT	N=10 (1,1,2,2,3,3)		Soft to firm, orange brown mottled light grey, sandy CLAY. Sand is fine to medium. (BOGNOR SAND MEMBER)	1	(2.70)			
			2.50	HSV								65kPa
3.00 - 4.00		100%	3.00	SPT	N=11 (1,1,2,2,3,4)		Soft to firm, dark brown mottled orange, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION (WEATHERED))	3.00		38.32		
			3.50	D				(0.60)				
4.00 - 5.00		80%	4.00	SPT	N=16 (1,2,3,4,4,5)		Firm, dark grey, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION)	3.60		37.72		
			4.50	D				(1.85)				
			5.00	SPT			N=19 (2,2,3,4,6,6)	5				
End of Borehole at 5.45m								5.45		35.87		
								6				

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 3.00m bgl. 3. Monitoring well installed to 5.0m bgl.

HoleBASE SI - Hydrock Dynamic Sampling Template v3

Method: Dynamic (Windowless) Sampler

Date(s): 29/07/2021

Logged By: YP

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 470131.62, 109444.45

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 40.06m OD

Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
1.00 - 2.00		100%					Long grass and vegetation over topsoil comprising brown, slightly sandy SILT with abundant roots and rootlets and rare subrounded fine to medium flint gravel. (TOPSOIL)	0.30	(0.30)	39.76		
			0.50 0.60 - 1.00	ES B			Orangish brown slightly silty fine SAND with rare rootlets. (BOGNOR SAND MEMBER)	0.60	(0.30)	39.46		
			1.00	SPT	N=11 (2,3,3,3,3,2)		Orangish brown mottled light grey silty fine SAND. (BOGNOR SAND MEMBER)	1	(1.00)			
2.00 - 3.00		100%					... At 1.40m bgl becoming more silty recovered slightly wet.	1.60		38.46		
			2.00	SPT	N=11 (2,2,2,3,3,3)		Soft to firm, light brown, light grey mottled, orangish brown sandy silty CLAY. (LONDON CLAY FORMATION (WEATHERED))	2				
			2.30 - 2.70 2.30	B HSV	58kPa		... At 2.30m bgl becoming firm.					
3.00 - 4.00		100%					... At 2.50m bgl becoming more sandy.					
			2.70	D			... From 2.70m bgl occasional bands of orangish brown fine silty sand.	3	(2.00)			
			3.00	SPT	N=13 (2,2,3,3,3,4)			3.60		36.46		
4.00 - 5.00		100%					Firm, dark grey, slightly sandy CLAY. (LONDON CLAY FORMATION)	4				
			4.50 - 5.00	B					(1.85)			
			5.00	SPT	N=18 (2,3,3,5,5,5)		... At 4.80m bgl becoming stiff and more sandy.	5				
							End of Borehole at 5.45m	5.45		34.61		
								6				

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Borehole backfilled with arisings.

HoleBASE SI - Hydrock Dynamic Sampling Template v3

Method: Dynamic (Windowless) Sampler

Date(s): 29/07/2021

Logged By: LC

Drilled By: Impact Geotechnical

Client: Portsmouth City Council

Co-ords: 470150.74, 109383.66

Checked By: DP

Rig: Terrier

Hydrock Project No: 19453

Ground Level: 37.98m OD

Scale: 1:30

Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
			0.20	ES			Long grass and vegetation over topsoil comprising brown, slightly sandy SILT with abundant roots and rootlets and rare subrounded fine to medium flint gravel. (TOPSOIL)	0.30	(0.30)	37.68		
			0.60 0.60 - 1.00	ES B			Orange brown, fine to medium SAND. (BOGNOR SAND MEMBER)		(0.90)			
			1.20	SPT	N=9 (1,1,2,3,2,2)		Orange brown mottled light grey, slightly clayey, fine to medium SAND. (BOGNOR SAND MEMBER)	1.20		36.78		
			2.00 2.00 - 2.50	SPT B	N=12 (1,1,2,3,3,4)		Firm, orange brown mottled light grey, very sandy CLAY. Sand is fine to medium. (LONDON CLAY FORMATION (WEATHERED))	2.00		35.98		
			2.50	HSV	58kPa				(1.45)			
			3.00	SPT	N=14 (1,2,3,4,3,4)							
			3.30 - 3.45	B			... Between 3.25m and 3.45m bgl becoming greyish brown mottled dark red.	3.45		34.53		
							Firm, dark grey, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION)					
			4.00	SPT	N=13 (1,2,2,3,4,4)				(2.00)			
			4.50	D								
			5.00	SPT	N=20 (2,2,4,4,5,7)							
							End of Borehole at 5.45m	5.45		32.53		

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 5.0m bgl. 3. Borehole backfilled with arisings.

Method: Cable Percussion

Date(s): 16/08/2021 - 17/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470201.88, 109869.76

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 52.77m OD

Scale: 1:50

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Depth (m)	Type	Results							
10.50 - 10.80	U			Firm grey silty sandy CLAY with occasional fine to medium off white shell fragments (LONDON CLAY FORMATION)					
10.85	D			... At 10.85m bgl very closely fissured.	11				
11.50	D				11.50		41.27		
12.00	SPT	N=25 (4,4,5,6,7,7)		Firm to stiff grey silty CLAY (LONDON CLAY FORMATION)	12				
12.00	D								
13.00	D				13				
13.50 - 13.95	U								
14.00	D				14		38.77		
14.50	D			Stiff very closely fissured grey silty CLAY with occasional off white fine shell fragments. (LONDON CLAY FORMATION)					
15.00	SPT	N=27 (5,6,6,7,7,7)			15				
15.00	D								
16.00	D				16				
16.50 - 16.90	U								
16.95	D				17				
17.50	D								
18.00	SPT	N=37 (5,7,8,8,10,11)			18				
18.00	D								
19.00	D				19		33.77		
19.50 - 19.85	U			Stiff to very stiff grey silty CLAY (LONDON CLAY FORMATION)					
19.90	D				20				

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.20m bgl. 3. Monitoring well installed at 10.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

Method: Cable Percussion

Date(s): 16/08/2021 - 17/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470201.88, 109869.76

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 52.77m OD

Scale: 1:50

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Depth (m)	Type	Results							
20.50	D			Stiff to very stiff grey silty CLAY (LONDON CLAY FORMATION)					
21.00	D				21				
22.00	D				22	(6.00)			
22.80	D			... Between 22.80m to 24m bgl closely to very closely fissured.	23				
23.50	D								
24.00	D			... At 24.00m bgl 12mm band of extremely weak siltstone.	24				
25.00	D			Very stiff grey silty CLAY (LONDON CLAY FORMATION)	25		27.77		
25.95	D				26				
26.50	D								
27.00	D			... At 27.00m bgl very closely fissured CLAY.	27				
27.70	D			... At 27.70m bgl fine white crystals (probably selenite).		(5.45)			
28.00	D				28				
29.50	D				29				
30.00	D				30				

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.20m bgl. 3. Monitoring well installed at 10.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

Drilled By: SEDS

Flush:	
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Scale: 1:50

Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.20m bgl. 3. Monitoring well installed at 10.00m bgl.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	

Logged in general accordance with BS5930:2015

Method: Cable Percussion	Date(s): 18/08/2021 - 19/08/2021	Logged By: DP	Drilled By: SEDS
Client: Portsmouth City Council	Co-ords: 470177.93, 109814.13	Checked By: DP	Flush:
Hydrock Project No: 19453	Ground Level: 52.67m OD		Scale: 1:50

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Depth (m)	Type	Results							
0.10	ES			Brown silty slightly gravelly fine SAND with rootlets. Gravel is fine to medium sub rounded to subangular flint. (TOPSOIL)		(0.50)			
0.50	B			Orange brown silty slightly gravelly fine SAND with occasional roots. Gravel is fine to medium angular flint. (BOGNOR SAND MEMBER)	0.50		52.17		
1.00	B			Orange brown silty fine SAND with locally pockets of sandy SILT. (BOGNOR SAND MEMBER)	0.80		51.87		
1.50	SPT	N=16 (2,3,3,4,4,5)		... At 1.50m bgl becoming orangish brown and light grey fine silty SAND with occasional black organic remains/fragments.	1				
1.50 - 1.95	D					(2.20)			
2.00	D			... At 2.00m bgl becoming vey silty.	2				
2.50 - 2.95	U								
3.00	D			Firm orange brown silty sandy CLAY (LONDON CLAY FORMATION (WEATHERED))	3		49.67		
3.50	SPT	N=19 (2,3,4,4,5,6)				(1.00)			
3.50	D								
4.00	D			Firm orange brown mottled light grey silty sandy CLAY (LONDON CLAY FORMATION (WEATHERED))	4		48.67		
4.50 - 4.95	U					(1.10)			
5.00	D				5				
5.50	B			Firm grey brown sandy SILT/CLAY with partings of orange fine sand and reddish brown ferrous staining. (LONDON CLAY FORMATION (WEATHERED))	5.10		47.57		
5.50 - 6.00	B			Firm grey silty sandy CLAY with occasional off white to light brown fine shell fragments. (LONDON CLAY FORMATION)	5.50	(0.40)	47.17		
6.00	SPT	N=23 (3,4,5,5,6,7)		... At 6.00m bgl becoming firm to stiff.	6				
6.00	D					(1.30)			
6.80 - 7.00	B			Stiff to very stiff grey silty slightly sandy CLAY (LONDON CLAY FORMATION) ... Between 6.80m to 7.00m bgl (Moderately strong or stronger) grey SILTSTONE/ CLAYSTONE with off white shell fragments.	6.80		45.87		
7.50 - 7.95	U				7				
8.00	D				8				
8.50	D			... Between 8.50m to 10.00m bgl becoming extremely to very closely fissured.					
9.00	SPT	N=33 (4,5,6,8,10,9)			9				
9.00	D					(4.70)			
10.00	D				10				

Progress and Observations									Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
												1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.50m bgl. 3. Borehole backfilled with arisings.

Method: Cable Percussion

Date(s): 18/08/2021 - 19/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470177.93, 109814.13

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 52.67m OD

Scale: 1:50

Samples / Tests			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrum- entation / Backfill
Depth (m)	Type	Results							
10.50 - 10.95	U			Stiff to very stiff grey silty slightly sandy CLAY (LONDON CLAY FORMATION)	11				
11.50	D			Stiff grey silty CLAY (LONDON CLAY FORMATION)	11.50		41.17		
12.00	SPT	N=28 (4,4,6,7,7,8)		... Between 12.00m to 13.00m bgl becoming extremely to very closely fissured slightly sandy silty CLAY.	12				
12.00	D								
13.00	D				13				
13.50 - 13.95	U				14				
14.50	D						(6.50)		
15.00	SPT	N=35 (5,5,7,8,10,10)			15				
15.00	D								
16.00	D				16				
16.50 - 16.95	U				17				
17.00	D								
17.50	D			... From 17.50m bgl becoming stiff to very stiff.					
18.00	SPT	N=39 (6,8,8,9,11,11)		Very stiff grey silty CLAY (LONDON CLAY FORMATION)	18	18.00	34.67		
18.00	D								
19.00	D				19				
19.50 - 19.70	U						(2.45)		
19.75	D			... Between 19.75mm to 20.00m bgl becming very closely fissured.					
20.00	D				20				

Progress and Observations									Chiselling			General Remarks:
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	
												1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.50m bgl. 3. Borehole backfilled with arisings.

Drilled By: SEDS

Flush:

Scale: 1:50

Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.50m bgl. 3. Borehole backfilled with arisings.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	

Logged in general accordance with BS5930:2015

Method: Cable Percussion

Date(s): 19/08/2021 - 20/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470163.70, 109731.08

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 49.31m OD

Scale: 1:50

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Depth (m)	Type	Results							
0.30	ES			Brown silty slightly gravelly fine SAND with rootlets. Gravel is of fine to medium rounded to angular flint. (TOPSOIL)	0.30	(0.30)	49.01		
0.50	B			Orange brown and grey brown silty fine SAND (BOGNOR SAND MEMBER)	0.50	(0.20)	48.81		
1.00	B			Orange brown and grey brown silty to very silty fine SAND (BOGNOR SAND MEMBER)					
				... At 1.00m bgl slight saline odour.					
1.50	SPT	N=12 (1,1,2,3,3,4)		... From 1.50m bgl becoming silty.					
1.50	D					(2.50)			
2.00	D			... From 2.00m bgl becoming orangish brown and light grey mottled.					
2.50 - 2.95	U								
3.00	D			Orange and light grey very thinly bedded or thickly laminated fine silty SAND (BOGNOR SAND MEMBER)	3.00		46.31		
3.50	SPT	N=15 (2,3,3,3,4,5)				(0.90)			
3.50	D								
4.00 - 4.50	B			Orange brown and reddish brown silty fine SAND. (BOGNOR SAND MEMBER)	3.90 4.00	(0.10)	45.41 45.31		
4.50 - 4.95	U			Firm grey to greyish brown clayey fine SAND or very sandy CLAY (LONDON CLAY FORMATION (WEATHERED))		(1.00)			
5.00	D			Firm grey silty sandy CLAY. Sand is fine (LONDON CLAY FORMATION)	5.00		44.31		
5.50	D			... From 5.5m bgl becoming firm to stiff.					
6.00	SPT	N=24 (4,4,5,6,6,7)				(2.10)			
6.00	D								
7.00	D			... At 6.90m bgl claystone.					
7.50 - 7.75	U			Weak to medium strong grey SILTSTONE with off white shell fragments (LONDON CLAY FORMATION)	7.10		42.21		
8.00	D					(0.90)			
8.50	D			Grey clayey fine SAND with occasional off white fine to medium shell fragments (LONDON CLAY FORMATION)	8.00		41.31		
9.00	SPT	N=23 (2,5,5,5,6,7)				(1.00)			
9.00	D			Firm to stiff grey extremely closely fissured silty slightly sandy CLAY. Sand is fine. (LONDON CLAY FORMATION)	9.00		40.31		
10.00	D					(2.00)			

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.90m bgl. 3. Monitoring well installed at 5.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam. (mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

Method: Cable Percussion

Date(s): 19/08/2021 - 20/08/2021

Logged By: DP

Drilled By: SEDS

Client: Portsmouth City Council

Co-ords: 470163.70, 109731.08

Checked By: DP

Flush:

Hydrock Project No: 19453

Ground Level: 49.31m OD

Scale: 1:50

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation station / Backfill
Depth (m)	Type	Results							
10.50 - 10.95	U			Firm to stiff grey extremely closely fissured silty slightly sandy CLAY. Sand is fine. (LONDON CLAY FORMATION) ... From 10.00m bgl becoming stiff.					
11.00	D			Stiff grey silty CLAY. (LONDON CLAY FORMATION)	11	11.00	38.31		
11.50	D			... Between 11.50m to 14.50m bgl becoming silty slightly sandy CLAY with partings of light grey silty fine SAND.					
12.00	SPT	N=30 (5,4,7,7,8,8)			12				
12.00	D								
13.00	D				13				
13.50 - 13.95	U								
14.00	D				14				
14.50	D					(6.50)			
15.00	SPT	N=35 (5,7,9,8,9,9)		... At 15.00m bgl becoming slightly sandy.	15				
15.00	D								
16.00	D				16				
16.50 - 16.95	U								
17.00	D			... From 17.00m bgl becoming stiff to very stiff.	17				
17.50	D				17.50		31.81		
18.00	SPT	N=36 (6,7,8,9,9,10)		Very stiff grey silty CLAY. (LONDON CLAY FORMATION)	18				
18.00	D								
19.00	D				19		(2.95)		
19.50 - 19.95	U								
20.00	D				20				

Progress and Observations

Chiselling

General Remarks:

1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.90m bgl. 3. Monitoring well installed at 5.00m bgl.

Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)

Drilled By: SEDS

Flush:

Scale: 1:50

Progress and Observations									Chiselling			General Remarks: 1. Inspection hand pit excavated to 1.20m bgl. 2. Groundwater encountered at 6.90m bgl. 3. Monitoring well installed at 5.00m bgl.
Rig	Date	Time	Borehole Depth (m)	Casing Depth (m)	Casing Diam.(mm)	Water Depth (m)	Flush Type	Returns (colour)	From (m)	To (m)	Duration (HH:MM)	

Logged in general accordance with BS5930:2015

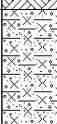
General Remarks:									
1. No groundwater encountered. 2. Backfilled with arisings.									
Logged in general accordance with BS5930:2015									

Method: Trial Pit	Date(s): 21/07/2021	Logged By: DP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470140.59, 109789.56	Stability: Stable	Dimensions: 3.50m
Hydrock Project No: 19453	Ground Level: 51.04m OD	Plant: ZAXIS 130LCN	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES	66kPa		Brown, slightly gravelly, silty, fine SAND with abundant roots and rootlets. Gravel is angular to well rounded fine to coarse of flint. (TOPSOIL)	0.35	(0.35)	50.69	
0.50	HSV			Orange brown mottled greyish brown and light grey, slightly gravelly, silty SAND. Gravel is angular to well rounded medium to coarse of flint. (BOGNOR SAND MEMBER)	0.60	(0.25)	50.44	
0.80	D			Orange brown, greyish brown and light grey mottled silty SAND. (BOGNOR SAND MEMBER)				
1.50	B				1			
2.50	D				2	(2.40)		
					3			
					4			
					5			
								
								
								
								
								
								
								
								
								
								
								

General Remarks:
1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 22/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470262.53, 109857.32	Stability: Stable	Dimensions: 2.70m
Hydrock Project No: 19453	Ground Level: 52.40m OD	Plant: ZAXIS 130LCN	0.60m <input type="text"/> 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.50 0.50	B ES			Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots and rootlets. Gravel is rounded to subangular fine to coarse of flint. (TOPSOIL)	0.35	(0.35)	52.05	
				Orangish brown slightly mottled light grey, slightly gravelly, clayey, sandy SILT. Gravel is rounded fine to medium of flint. Sand is fine. (BOGNOR SAND MEMBER)	0.75	(0.40)	51.65	
1.35 1.35	D HSV	74kPa		Firm, orangish brown slightly mottled light grey, slightly gravelly, sandy, silty CLAY. Gravel is rounded to subrounded fine to medium of flint. Sand is fine. (BOGNOR SAND MEMBER)	1			
2.80	HSV	58kPa			2	(2.35)		
3.20	B				3			
				Base of Excavation at 3.10m	3.10		49.30	
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 21/07/2021	Logged By: DP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470261.33, 109804.52	Stability: Stable	Dimensions: 3.50m 0.60m <input type="text"/>
Hydrock Project No: 19453	Ground Level: 51.53m OD	Plant: ZAXIS 130LCN	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.50 0.50	B ES			Brown, slightly gravelly, silty, fine SAND with abundant roots and rootlets and rare angular medium brick fragments. Gravel is angular to well rounded fine to coarse of flint. (TOPSOIL)	0.24	(0.24)	51.29	
2.00	D			Orangish brown mottled light grey, silty, fine SAND. Locally undulated lamination apparent and reddish/ferrous staining and slight very weak to weak cementing. (BOGNOR SAND MEMBER)		(2.86)		
3.00	D				3			
				Base of Excavation at 3.10m	3.10		48.43	
					4			
					5			

General Remarks:
1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 22/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470220.00, 109795.37	Stability: Stable	Dimensions: 2.80m
Hydrock Project No: 19453	Ground Level: 52.26m OD	Plant: KUBOTA KX080-40	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.20	ES			Long grass over soft, brown, slightly gravelly, sandy SILT with abundant roots and rootlets. Gravel is rounded to subangular fine to coarse of flint. (TOPSOIL)	0.35	(0.35)	51.91	
0.50	B			Orangish brown slightly mottled light grey, slightly gravelly, sandy SILT. Gravel is rounded fine to medium of flint. Sand is fine. (HEAD DEPOSITS)	0.70	(0.35)	51.56	
2.80	B			Firm, orangish brown mottled light grey, clayey, silty, fine SAND with rare dark brown/black fibrous material (possible old roots). (BOGNOR SAND MEMBER)	3.20	(2.50)	49.06	
3.50 3.50	D HSV	53kPa		Soft to firm, light grey mottled orange, silty, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION (WEATHERED))	3.70	(0.50)	48.56	
				Base of Excavation at 3.70m				
					4			
					5			

General Remarks:
1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 22/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470227.89, 109743.90	Stability: Stable	Dimensions: 3.10m
Hydrock Project No: 19453	Ground Level: 50.88m OD	Plant: KUBOTA KX080-40	Scale: 1:25

Samples / Tests			Water- Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.50	ES			Long grass over soft, brown, slightly gravelly, sandy SILT with frequent roots and rootlets. Gravel is rounded to subangular fine to coarse of flint. (TOPSOIL)	0.35	(0.35)	50.53	
0.70	B			Orangish brown slightly mottled light grey, slightly gravelly, silty, fine SAND. Gravel is rounded fine to medium of flint. (HEAD DEPOSITS)	0.80	(0.45)	50.08	
2.50	B			Firm, orangish brown mottled light grey, silty, fine SAND. (BOGNOR SAND MEMBER)	1			
3.20	HSV	48kPa		Firm, light grey mottled orange, silty, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION (WEATHERED))	3.10		47.78	
				Base of Excavation at 3.50m	3.50	(0.40)	47.38	
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 21/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470121.97, 109723.34	Stability: Stable	Dimensions: Scale:
Hydrock Project No: 19453	Ground Level: 50.02m OD	Plant: KUBOTA KX080-40	0.50m <input type="text"/> 3.50m 1:25

Samples / Tests			Water- Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Long grass over brown, slightly sandy, gravelly SILT (dry) with abundant roots and rootlets. Gravel is subrounded to rounded fine to coarse of flint. (TOPSOIL)	0.30	(0.30)	49.72	
0.50	ES			Brown with occasional black mottling, slightly sandy, slightly gravelly SILT with rare bricks, concrete, ceramic, plastic, wood/ timber fragments and rare chalk fragments. Gravel is subrounded to rounded fine to coarse of flint. (MADE GROUND)				
0.70	B							
1.00	ES				1	(1.25)		
				... At 1.50m bgl one piece of metal pipework approximately 300mm long.	1.55		48.47	
1.70	B			Orangish brown mottled light grey, clayey, fine SAND with rare rounded fine to coarse of flint. (BOGNOR SAND MEMBER)	2	(0.95)		
					2.50		47.52	
2.70	HSV	65kPa		Light grey mottled orange and brown, sandy, silty CLAY. (BOGNOR SAND MEMBER)				
3.00	D				3	(1.00)		
				Base of Excavation at 3.50m	3.50		46.52	
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 21/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470186.83, 109722.50	Stability: Stable	Dimensions: 3.40m
Hydrock Project No: 19453	Ground Level: 50.27m OD	Plant: KUBOTA KX080-40	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
				Long grass over brown, slightly sandy, gravelly SILT with abundant roots and rootlets. Gravel is rounded to subangular fine to coarse of flint. (TOPSOIL)	0.40	(0.40)	49.87	
0.60	ES			Orangish brown and light grey mottled silty clayey fine SAND with occasional rootlets. (BOGNOR SAND MEMBER)	0.90	(0.50)	49.37	
0.80	B			Soft to firm, orangish brown mottled light grey and light brown, very sandy, silty CLAY. (BOGNOR SAND MEMBER)	1			
2.60	B				2	(2.10)		
				Base of Excavation at 3.00m	3.00		47.27	
3.40	D				4			
					5			

General Remarks:
1. No groundwater encountered. 2. Backfilled with arisings.

Checked By: DP

Scale:

1:25

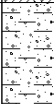
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Method: Trial Pit	Date(s): 22/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470238.24, 109691.08	Stability: Stable	Dimensions: 3.20m
Hydrock Project No: 19453	Ground Level: 48.07m OD	Plant: KUBOTA KX080-40	Scale: 1:25

Samples / Tests			Water-Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
2.10	HSV	53kPa		Long grass over soft, brown, slightly gravelly, sandy SILT with frequent roots and rootlets. Gravel is rounded to subangular fine to coarse of flint. (TOPSOIL)	0.40	(0.40)	47.67	
				Orangish brown slightly mottled light grey, slightly gravelly, silty, clayey, fine SAND. Gravel is subrounded fine to medium of flint. (BOGNOR SAND MEMBER)	1.90	(1.50)	46.17	
3.50	HSV	56kPa		Firm, orangish brown mottled light grey, sandy, silty CLAY with rare dark orange staining. Sand is fine. (LONDON CLAY FORMATION (WEATHERED))	3.50	(1.60)	44.57	
				Base of Excavation at 3.50m				
					4			
					5			

General Remarks:
1. No groundwater encountered. 2. Backfilled with arisings.

Method: Trial Pit	Date(s): 21/07/2021	Logged By: YP	Checked By: DP
Client: Portsmouth City Council	Co-ords: 470249.20, 109662.55	Stability: Stable	Dimensions: 3.10m
Hydrock Project No: 19453	Ground Level: 46.59m OD	Plant: KUBOTA KX080-40	Scale: 1:25

Samples / Tests			Water- Strikes	Stratum Description	Depth mbgl	Thickness (m)	Level m OD	Legend
Depth (m)	Type	Results						
0.30	ES	71kPa		Long grass over brown, slightly sandy, slightly gravelly SILT with abundant roots and rootlets. Gravel is subrounded to subangular fine to coarse of flint. (TOPSOIL)	0.35	(0.35)	46.24	
0.60	ES			Orangish brown mottled light grey, slightly gravelly, silty, sandy CLAY with frequent rootlets. Gravel is rounded to subrounded fine to coarse of flint. (HEAD DEPOSITS)	0.70	(0.35)	45.89	
0.90 1.00 1.20	B B HSV			Firm, orangish brown mottled light grey, slightly laminated, silty, sandy CLAY. Sand is fine. (BOGNOR SAND MEMBER)	1			
2.10	D	65kPa			2	(2.80)		
2.80 2.80	D HSV				3			
3.50	D				3.50		43.09	
				Base of Excavation at 3.50m				
					4			
					5			

General Remarks:

1. No groundwater encountered. 2. Backfilled with arisings.

HoleBASE SI - Hydrock Dynamic Sampling Template v3

[illegible]

General Remarks:
1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Borehole backfilled with arisings.

Drilled By: Impact Geotechnical

Rig: Terrier

Scale: 1:30

Logged in general accordance with BS5930:2015

Logged in general accordance with BS5930:2015

HoleBASE SI - Hydrock Dynamic Sampling Template v3

<div>Hydrock</div>			Project: Dunsbury Park				Borehole No WS7.06 Page No. 1 of 1					
Method: Dynamic (Windowless) Sampler			Date(s): 28/07/2021		Logged By: LC		Drilled By: Impact Geotechnical					
Client: Portsmouth City Council			Co-ords: 470202.54, 109755.32		Checked By: DP		Rig: Terrier					
Hydrock Project No: 19453			Ground Level: 50.56m OD				Scale: 1:30					
Sample Run Info			Testing			Water-Strikes	Stratum Description	Depth m bgl	Thickness (m)	Level m OD	Legend	Instrumentation / Backfill
Sample Run	Run Ø	Recovery	Depth (m)	Type	Results							
1.00 - 2.00		100%	0.10 - 0.30	B	N=14 (1,3,4,3,3,4)		Long grass over topsoil comprising of brown slightly silty, slightly gravelly, fine to medium SAND with occasional rootlets and rare rounded flint cobble. Gravel is subrounded to rounded fine to coarse of flint. (TOPSOIL) Orange brown, slightly clayey, fine to medium SAND. (BOGNOR SAND MEMBER)	0.30	(0.30)	50.26		
			0.60 - 1.00	ES								
			1.20	SPT								
2.00 - 3.00		100%	2.00	SPT	N=14 (1,2,3,4,4,3)		... At 2.60m bgl becoming clayey.		(2.60)			
			2.50 - 3.00	B								
			3.00	SPT								
3.00 - 4.00		100%	3.00	SPT	N=9 (1,1,1,2,3,3) 0kPa		Soft, orange brown, with rare light grey patches, very sandy CLAY. Sand is fine to medium. (LONDON CLAY FORMATION (WEATHERED)) ... From 3.10m bgl becoming firm. ... Between 3.70m and 4.65m bgl becoming brown mottled orange. ... At 4.50m bgl dark red coloured patches.	2.90		47.66		
			3.20	HSV								
			4.00	SPT								
4.00 - 5.00		100%	4.00	SPT	N=16 (1,2,4,4,4,4)		Firm, dark grey, sandy CLAY. Sand is fine. (LONDON CLAY FORMATION)	4.65		45.91		
			4.00	D					(0.80)			
			5.00	SPT								
			5.00	D	N=12 (1,1,2,3,3,4)				(0.80)			
End of Borehole at 5.45m								5.45		45.11		
	</											

General Remarks:
1. Inspection hand pit excavated to 1.20m bgl. 2. No groundwater encountered. 3. Borehole backfilled with arisings.

Logged in general accordance with BS5930:2015