Woking Football Club

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P1381J1459/AJH/v1.1

27/06/2019

EGLEY ROAD, WOKING, GU22 0AF: SOIL INFILTRATION TESTING

Jomas attended the above-mentioned site under instruction by Woking Football Club on 24th, 25th and 26th June 2019 to carry out soil infiltration testing in general accordance with BRE 365.

A full list of previous reports undertaken for the site by Jomas are detailed in Table 1 below:

Table 1: Previous Reports - Jomas

Title	Author	Reference	Date		
Desk Study / Preliminary Risk Assessment		P1381J1459/TE	A		
Report For Land Adjacent To Egley Road Woking GU22 ONJ	Jomas Associates Ltd	Final V1.0	August 2018		
Geo-environmental & Geotechnical	Jomas Associates Ltd	P1381J1549/AMM	11 April 2010		
Assessment Ground Investigation Report for Egley Road, Woking, GU22 0AF	Joinas Associates Eta	Final V1.0	11 April 2019		
Supplementary Geo-environmental		P1381J1549/AMM	25 Jun - 2010		
Assessment Ground Investigation Report for Egley Road, Woking, GU22 0AF	Jomas Associates Ltd	Final V1.0	25 June 2019		

During the previous work the predominant soil type encountered at site was reported as sand considered to represent the Bagshot Formation. However these were locally noted to be clays and is considered likely to either represent clay bands/pockets within the Bagshot Formation, or were recovered as such due to the percussive nature of the drilling equipment further disturbing the samples.

7No. pits (STP1 – STP7) were excavated using a mechanical excavator (positions shown on the exploratory hole location plan in Appendix 1). STP1, STP2, STP3, STP4, STP5, STP6 and STP7 were excavated to depths of 1.0mbgl, 1.0mbgl, 1.0mbgl, 2.4mbgl, 2.4mbgl, 2.4mbgl and 2.4mbgl respectively.

An additional pit was excavated (TP8) to aid in determining ground conditions and specifically to observe groundwater levels. (position shown on the exploratory hole location plan in Appendix 1).

Page 1 of 3



Slight dampness was noted at 3.70mbgl. The pit was left open for 35 minutes, no water ingress was noted before backfilling.

The pits were then filled with water and allowed to drain over time, with the water level measured at intervals. As prescribed by BRE 365 the water in the pit should be allowed to drain until the water falls to at least 25%. However due to time constraints this was not always possible, where significant drainage had occurred the time required to drain to 25% was extrapolated, however in a number of cases the drainage was noted to be insignificant even after being left to drain over night.

Some general instability was noted in STP5 due to ascribed dimensions within the granular substrate. Subsequent hole collapse occurred during the test.

All locations and pit dimensions were specified to the clients requirements.

Ground Conditions

Full logs of the ground conditions observed in each of the pits are included in Appendix 2, however, a summary of the ground conditions is provided below:

Table 2: Ground Conditions Encountered

Stratum and Description	Encountered from (m bgl)	Base of strata (m bgl)	Thickness range (m)
Grass over mid-brown sandy slightly gravelly CLAY with rootlets/cobble content. Sand is fine. Gravel consists of medium to coarse, rounded to well-rounded flint. Cobble consist of rounded flint/angular brick. (MADE GROUND / TOPSOIL).	0.0	0.35-0.50	0.35-0.50
Grey heavily mottled orange brown very silty / slightly gravelly/ SAND with occasional roots and rootlets down to 1.25mbgl. Sand is medium to coarse. Gravel consists of fine to coarse, rounded to well rounded flint. (BAGSHOT FORMATION).	0.35-0.50	>1.00 ->3.40	>0.65-3.40

Infiltration Testing Results

1No. test was conducted for STP1, STP3, STP5 and STP7, however each of these were deemed to be failed tests as "insufficient drainage" was noted in each of these locations, even though in an number of locations the tests ran over night.

1No. test carried out in each of STP4 and STP6 which reported infiltration rates of between 6.15 x 10^{-7} m/s and 6.28 x 10^{-7} m/s respectively, which is indicative of "poor drainage" with "low permeability".

3No. tests were able to be completed in STP2 within the identified silty Sand stratum encountered from 0.35mbgl. The infiltration rates calculated from these tests in ranged between 5.66 x 10^{-6} m/s to 1.16×10^{-5} m/s

it is considered that the silty Sand in this area of the site has with "medium" to "poor" permeability with "good" to "poor" drainage conditions.

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Although the material that the tests were undertaken in were described by the BGS and by the various phases of investigation by Jomas as a Sand, it is worth noting that the BGS classifies the Bagshot Formation as a "Solid deposit". It is therefore possible that the lower than would normally be expected infiltration results recorded could potentially be due to the sand grains being cemented together and as such reducing both the porosity and permeability of these materials.

The reduction in infiltration rate is likely due to the soil pore spaces reaching saturation point after the first test. Subsequent tests would indicate that water is unable to effectively permeate away from the soakage pit as soils become water logged.

We trust that this is satisfactory for your current needs, however please do not hesitate to contact the udnersigned if we can be of further assistance on either this or any other project.

Yours sincerely,

approved by

Adam Hines MSc (Hons)

Peter Swettenham BSc (Hons) MSc PgCert CEnv

MIEnv\$c

Geo-Environmental Engineer

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Principal Geotechnical Engineer

Enc.

Appendix 1 - Figures

Appendix 2 - Exploratory Hole Logs

Appendix 3 – Infiltration Rates – Results and Calculations





APPENDIX 1 – FIGURES



JOMAS ASSOCIATES LTD T: 0843 289 2187

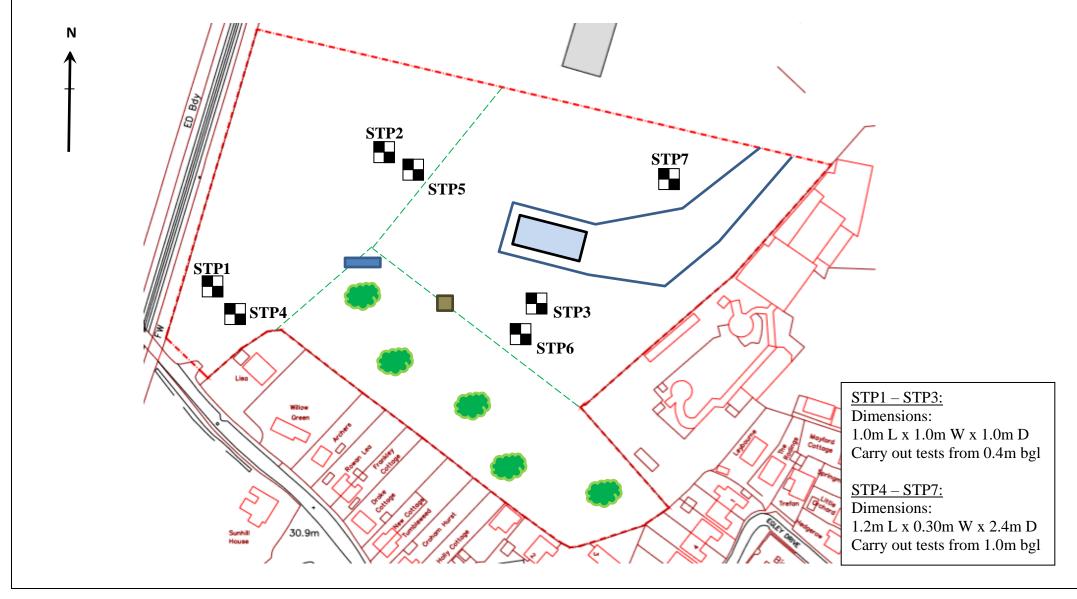
Project Name	Egley Road, Woking	Client	Woking Football Club
Project No.	P1381J1459	Date	15/08/2018
Title	Site Location Plan	Figure No	1







Project Name	Egley Road, Woking	Client	Woking Football Club
Project No.	P1381J1459	Date	June 2019
Title	Provisional Infiltration Testing Plan	Prepared By	AM







APPENDIX 2 – EXPLORATORY HOLE LOGS

							TRIAL PIT RECORD			
(JOYAS						e e	STP1			
Site Address:	Egley Road, Wokin	ig, GU22 0AF		Project No:		P1381J1459				
Client:	Goldev Woking Ltd	Goldev Woking Ltd								
Logged By:	JLW				Date Commenced:		24/06/2019			
Checked By:	PSw				Date Completed:		24/06/2019			
Type and diameter of equipment:	JCB 3CX Eco				Sheet No:		1 Of 1			
Pit Dimension:	Length:	Length: 1.80 Width: 0.95				Depth:	1.00			
Remarks										
1: No water reported.										

- 2: Infiltration test carried out in general accorancce with BRE 365. 3:

3:							
4:		Canada an Tanta			Church		
	1	Sample or Tests			Strata	Water	
Туре	Depth (mbgl)	Result		Legend	Depth (mbgl)	Strikes (mbgl)	Strata Description
			0.00 -		0.35		Grass over mid-brown very sandy gravelly CLAY with low cobble content. Sand is fine. Gravel consists of fine to coarse, rounded to well rounded flint. Cobble consist of rounded flint. (TOPSOIL).
			0.50 -	- - - -			Grey heavily mottled orange brown very silty slightly gravelly SAND. Sand is medium to coarse. Gravel consists of fine to coarse, rounded to well rounded flint. (BAGSHOT FORMATION).
			1.00 -	- -	1.00		
			1.50 -				
			-				
			2.00 -				
			2.50 -	_			
			3.00 -	_			
			3.50 —	-			
			-	_			
			4.00 -	_			
			4.50 -	_			
			5.00 —				

							TRIAL PIT RECORD			
		Exploratory Hole No:		STP2						
Site Address:	Egley Road, Wokin	ng, GU22 OAF			Project No:		P1381J1459			
Client:	Goldev Woking Ltd	d			Ground Level:					
Logged By:	JLW				Date Commenced:		24/06/2019			
Checked By:	PSw				Date Completed:		24/06/2019			
Type and diameter of equipment:	JCB 3CX Eco				Sheet No:		1 Of 1			
Pit Dimension:	Length:	Length: 1.70 Width: 1.00				Depth:	1.10			
Remarks										
1: No water reported.										

- 2: Infiltration tests carried out in general accorance with BRE 365. 3:

3:							
4:							
		Sample or Tests			Strata		
Туре	Depth (mbgl)	Result		Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description
			0.00 —		0.25		Grass over mid-brown very sandy slightly gravelly CLAY with frequent rootlets. Sand is fine. Gravel consists of fine to coarse, rounded to well rounded flint. (TOPSOIL).
			0.50 —	X . X X . X X .	0.35		Grey mottled orange brown very silty SAND with occasional pockets of sand. Sand is medium to coarse. (BAGSHOT FORMATION).
			1.00 —	X . X X X X X . X X . X X . X X . X X . X X . X X . X . X . X . X . X . X . X	1.10		
			1.50 —				
			2.00 —				
			2.50 —	-			
			3.00 —	-			
			3.50 —	-			
			4.00	-			
			-	-			
			4.50 —				
			5.00 —				

		TRIAL PIT RECORD					
	Exploratory Hole No:		STP3				
Site Address:	Egley Road, Wokin	ıg, GU22 0AF			Project No:		P1381J1459
Client:	Goldev Woking Ltd	ı			Ground Level:		
Logged By:	JLW				Date Commenced:		25/06/2019
Checked By:	PSw				Date Completed:		25/06/2019
Type and diameter of equipment:	JCB 3CX Eco				Sheet No:		1 Of 1
Pit Dimension:	Length:	1.80	Width:	0.95		Depth:	1.00
Remarks							
1: No water reported.							
2: Infiltration test carried out in gen	eral accorancce with	n BRE 365.					
3:	-					-	

	est carried ou	t in general accorancce with BRE 365.					
3: 4:							
4:		Sample or Tests			Strata		
Туре	Depth (mbgl)	Result		Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description
			0.00 —	* *	0.50		Grass over mid-brown sandy gravelly clay with low cobble content and occasional rootlets. Sand is fine. Gravel consists of fine to coarse, angular to rounded flint and brick. Cobbles consist of angular brick. (MADE GROUND - Topsoil). Light brown to grey mottled orange brown silty SAND with occasional rootlets, wood fragments and slight organic
			1.00 —	-X · X · X ·	1.00		odour. Sand is mediu mto coarse. (BAGSHOT FORMATION).
			1.50 —	-			
			2.50 —				
			3.00 —	-			
			4.00 —	-			
			4.50 — - - - -	-			
			5.00 —				

							TRIAL PIT RECORD			
(JOHAS						:	STP4			
Site Address:	Egley Road, Wokin	Egley Road, Woking, GU22 OAF					P1381J1459			
Client:	Goldev Woking Ltd				Ground Level:					
ogged By:	JLW				Date Commenced:		24/06/2019			
Checked By:	PSw				Date Completed:		24/06/2019			
Type and diameter of equipment:	JCB 3CX Eco				Sheet No:		1 Of 1			
Pit Dimension:	Length:	1.60	Width:	0.35		Depth:	2.40			
Remarks										
I: No water reported.										
Infiltration test carried out in general accorance with BRE 365.										

3:							
4:		Sample or Tests			Strata		
Туре	Depth (mbgl)	Result		Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description
			0.00 —		0.35		Grass over mid-brown sandy slightly gravelly CLAY with frequent rootlets. Sand is fine. Gravel consists of rounded flint. (TOPSOIL).
			0.50 —	X . X .	0.00		Grey mottled orange brown very silty SAND. Sand is medium to coarse. (BAGSHOT FORMATION).
			1.00 —	X X			
			1.50 —	X . X . X . X . X . X . X . X . X . X .			
			2.00 —	X . X .			
			-	X . X X . X X . X X . X X X . X X . X . X X .	2.40		
			2.50 — - -	-			
			3.00 —				
			3.50 —	-			
			4.00 —				
			- - -				
			4.50 — - -				
			5.00 —				

						TRI AL PI	IT RECORD				
					Exploratory Hole No	:	STP5				
Site Address:	Egley Road, Wokin	g, GU22 0AF			Project No:		P1381J1459				
Client:	Goldev Woking Ltd				Ground Level:						
Logged By:	JLW				Date Commenced:		24/06/2019				
Checked By:	PSw				Date Completed:		24/06/2019				
Type and diameter of equipment:	JCB 3CX Eco				Sheet No:		1 Of 1				
Pit Dimension:	Length:	1.70	Width:	0.32		Depth:	2.40				
Remarks											
1: No water reported.											
2: Infiltration test carried out in gen	Infiltration test carried out in general accorance with BRE 365.										
3:											

4:							
4.		Sample or Tests			Strata		
Туре	Depth (mbgl)	Result		Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description
			0.00 —				Grass over mid-brown sandy slightly gravelly CLAY with frequent rootlets. Sand is fine. Gravel consists of medium to coarse, rounded to well rounded flint. (TOPSOIL).
			0.50 — -	X . X .	0.40		Grey mottled becoming slightly mottled orange brown very silty becoming slightly silty SAND. Sand is medium to coarse. (BAGSHOT FORMATION).
			1.00 —	X . X .			
			1.50 —	X X			
			2.00 —	X X			
			-	X . X . X . X . X . X . X . X . X . X .	2.40		
			2.50 —	-			
			3.00 —				
			3.50 —	-			
			4.00 —	-			
			- - -	-			
			4.50 — — —				
			5.00 —				

						TRI AL PI	T RECORD					
					Exploratory Hole No	:	STP6					
Site Address:	Egley Road, Wokin	g, GU22 0AF			Project No:		P1381J1459					
Client:	Goldev Woking Ltd				Ground Level:							
Logged By:	JLW				Date Commenced:		25/06/2019					
Checked By:	PSw				Date Completed:		25/06/2019					
Type and diameter of equipment:	JCB 3CX Eco				Sheet No:		1 Of 1					
Pit Dimension:	Length:	1.80	Width:	0.35		Depth:	2.43					
Remarks												
1: No water reported.	No water reported.											
2: Infiltration test carried out in gen	Infiltration test carried out in general accorancce with BRE 365.											
3:						-						

3:							
4:		Sample or Tosts			Strata		
Туре	Depth (mbgl)	Result		Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description
	Depth (mbgl)	Result	2.00 — 2.50 — 3.50 — 4.50 — 4.50 — 5.00 —	Legend	Strata Depth (mbgl) 0.45		Grass over mid-brown very sandy slightly gravelly clay with frequent rootlets and occasional roots. Sand is fine. Gravel consists of fine to coarse, rounded flint with occasional angular brick. (MADE GROUND - Topsoil). Light brown to grey mottled orange brown very slity becoming slightly slity SAND with occasional roots and rootlets down to 1.25mbgl. Sand is medium to coarse. (BAGSHOT FORMATION).

						TRI AL PI	T RECORD					
		DMA5			Exploratory Hole No	:	STP7					
Site Address:	Egley Road, Wokin	g, GU22 0AF			Project No:		P1381J1459					
Client:	Goldev Woking Ltd	l .			Ground Level:							
Logged By:	JLW				Date Commenced:		25/06/2019					
Checked By:					Date Completed:		25/06/2019					
Type and diameter of equipment:	JCB 3CX Eco				Sheet No:		1 Of 1					
Pit Dimension:	Length:	1.60	Width:	0.35		Depth:	2.40					
Remarks												
1: No water reported.	: No water reported.											
2: Infiltration test carried out in gen	eral accorancce with	BRE 365.										
3:												

3:							
4:		Sample or Tests			Strata		
Туре	Depth (mbgl)	Result		Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description
	Depth (mbgl)	Result	0.00 — 0.50 — 1.00 — 1.50 — 2.00 — 3.00 — 4.00 — 4.50 — 4.50 —	Legend X. X	Strata Depth (mbgl) 0.50	Strikes	Grass over mid-brown very sandy gravelly clay with rootlets. Sand is fine. Gravel consists of fine to coarse, angular to rounded flint and brick. (MADE GROUND - Topsoil). Light brown mottled becoming slightly mottled orange brown very silty becoming slightly silty SAND. Sand is medium to coarse. (BAGSHOT FORMATION).
			4.00 —				

						TRI AL P	IT RECO	RD
		OMA5			Exploratory Hole No	:		TP8 - OBS
Site Address:	Egley Road, Wokin	ng, GU22 OAF			Project No:			P1381J1459
Client:	Goldev Woking Lte	d			Ground Level:			
Logged By:	JLW				Date Commenced:			24/06/2019
Checked By:					Date Completed:			24/06/2019
Type and diameter of equipment:	JCB 3CX Eco				Sheet No:			1 Of 1
Pit Dimension:	Length:	2.00	Width:	1.00		Depth:	3.90	ı
Remarks								
1: Material reported to be slightly of	lamp from ~3.70mb	gl.						
2: Pit left open for 35mins and no v	vater seepage was n	oted. Monitoring well nearby r	recorded water at ~	1.20mbgl	l.			
3:	-		-					
A:								

3:							
4:							
		Sample or Tests			Strata		
Туре	Depth (mbgl)	Result		Legend	Depth (mbgl)	Water Strikes (mbgl)	Strata Description
			0.00 —				Grass over mid-brown very sandy slightly gravelly CLAY with frequent rootlets. Sand is fine. Gravel consists of fine to coarse, rounded flint. (TOPSOIL).
			0.50 —	. x x	0.50		Light brown to grey mottled orange brown very silty SAND. Sand is medium to coarse. (BAGSHOT
			1.00	X · · ^ · · X · · X ·			FORMATION).
			-	X X . X . X . X . X . X . X . X .			
			1.50 —	X X X X X X X X X X X X X X X X X X .			
			2.00 —	X . X X . X X . X X . X X . X . X . X X . X			
			-	X . X . X. X X .			
			2.50 —	X . X X . X X . X X . X X . X X . X . X X .			
			3.00 —	x. × . x.	3.00		Light brown to grey slightly mottled orange brown SAND. Sand is medium to coarse. (BAGSHOT FORMATION).
			3.50				
			-		3.90		
			4.00 —		3.70		
			4.50				
			-				
			5.00 —				





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- /-	4Ν			CI	IVI	ш	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Λ.	 _	 IV	Ιг	ш	LI	ΙГ	∖ Æ	-		ı	JI	V	- 1	₹./	兽∖		Е.	3	$\mathbf{\Gamma}$	С.	3	u	ıL	ш.	3	-	٩I	w	ப	L	. Æ	ΑI	_\		ال	L	۵.		L	JI	N	Э



Geotechnical Engineering and Environmental Services across the UK.

BRE 365 INFILTRATION TESTS

JOMAS JOB NAME: Egley Road

CALCULATING ENGINEER: AJH

DATE: 26 June 2019

Notes:

APPROVED BY: PS DATE: 27 June 2019

JOMAS JOB NO.: P1381J1459 TEST LOCATION: STP1

DATE OF TEST: 24 June 2019

Pit Details Length

 Length
 1.2 m

 Breadth
 0.95 m

 Depth
 1.0 m

 Groundwater?
 N

 Filled With Gravel?
 N

	STP1 - Test 1	STP1 - Test 2	STP1 - Test 3
Dg 75% (m)	0.49		
Tp 75%			
Dg 25%	0.16		
Tp 25%			
Vp75% - Vp25% (m ³)	0.37		
ap50% (m ²)	2.54		
Tp75-Tp25 (min)			
Soil infiltration rate (m/sec)	Insuff. Drain		
Permeability Description			

Dw = depth to water

Dg = head of water in the pit

0.66						
0.65						
0.63	0 20	00 40	00 60 Minute:	00 88	00 10	00

ST	P1 - Tes		ST	P1 - Tes		ST	P1 - Tes	t 3
Min	Dw	Dg	Min	Dw	Dg	Min	Dw	Dg
0	0.36	0.65						
1	0.37	0.64						
2	0.37	0.64						
5	0.37	0.64						
10	0.37	0.64						
20	0.37	0.64						
30	0.37	0.64						
60	0.37	0.64						
120	0.37	0.64						
180	0.37	0.64						
240	0.37	0.64						
1141	0.37	0.64						
	Min	Dg		Min	Dg		Min	Dg
	Insuf	f. Drain						
75%		0.488	75%			75%		
350/	Insuf	f. Drain	350/			350/		
25%		0.163	25%			25%		





BRE 365 INFILTRATION TESTS

JOMAS JOB NO.: P1381J1459
TEST LOCATION: STP2
DATE OF TEST: 25 June 2019
Pit Details
Length 1.7 m

Pit Details

Length 1.7 m

Breadth 1 m

Depth 1.0 m

Groundwater? N

Filled With Gravel? N

CALCULATING ENGINEER:	AJH	DATE: 26 June 2019
APPROVED BY:	PS	DATE: 27 June 2019

	STP2 - Test 1	STP2 - Test 2	STP2 - Test 3
Dg 75% (m)	0.47	0.47	0.49
Tp 75%	45.00	65.43	102.50
Dg 25%	0.16	0.16	0.16
Tp 25%	269.42	525.08	621.69
Vp75% - Vp25% (m ³)	0.53	0.53	0.22
ap50% (m²)	3.37	3.37	3.46
Tp75-Tp25 (min)	224.42	459.65	519.19
il infiltration rate (m/sec)	1.16E-05	5.66E-06	2.05E-06
Permeability Description	Medium	Low	Poor
		_	_

Notes:

	Permeability Description Drainage Condtions	Medium Good	Low Poor	Poor Poor		
0.70						
0.65						
0.60						
0.55						
0.50						
0.45						
0.40						
0.35						
0.30						
0.25						
0.20	100 15	50	200 Minutes	250	300 350	

STP2 - To Min Dw 0 0.39		ST	P2 - Tes	+ 2	STP2 - Test 3		
	Da				31		
0 0 20	Dg	Min	Dw	Dg	Min	Dw	Dg
0 0.35	0.62	0	0.39	0.62	0	0.36	0.65
1 0.39	0.62	1	0.40	0.61	1	0.37	0.64
2 0.40	0.61	2	0.41	0.60	2	0.37	0.64
5 0.42	0.59	5	0.41	0.60	5	0.38	0.63
10 0.46	0.55	10	0.42	0.59	10	0.39	0.62
20 0.49	0.52	20	0.45	0.56	20	0.42	0.59
30 0.50	0.51	30	0.47	0.54	30	0.43	0.58
60 0.59	0.42	60	0.54	0.47	60	0.48	0.53
120 0.69	0.32	136	0.61	0.40	120	0.54	0.47
180 0.73	0.28	180	0.62	0.39	180	0.59	0.42
		240	0.66	0.35	240	0.62	0.39
		300	0.70	0.31	300	0.66	0.35
		342	0.73	0.28			
Min	Dg		Min	Dg		Min	Dg
	rpolated			polated			oolated
75% 45	0.465	75%	65.43	0.465	75%	102.5	0.488
	apolated			oolated			oolated
25% 269.	· ·	25%	525	0.155	25%	621.7	0.163





BRE 365 INFILTRATION TESTS

STP3

25 June 2019

1.8 m

0.95 m

1.0 m

Ν

Ν

TEST LOCATION:

DATE OF TEST:

Groundwater?

Filled With Gravel?

Pit Details

Length

Breadth

Depth

JOMAS JOB NAME: Egley Road CALCULATING ENGINEER: AJH **DATE:** 26 June 2019 Notes: APPROVED BY: PS **DATE:** 27 June 2019 P2052J1651 JOMAS JOB NO.:

Drainage Condtions

STP3 - Test 1 STP3 - Test 2 STP3 - Test 3 0.47 Dg 75% (m) Tp 75% Dg 25% 0.16 Tp 25% Vp75% - Vp25% (m3) 0.53 3.42 ap50% (m²) Tp75-Tp25 (min) Insuff. Drain Soil infiltration rate (m/sec) **Permeability Description**

0.65								
0.60								
	•							
0.55								
0.55								
0.50								
0.45	200	400	600		00	1000	1200	14
· ·	200	700	300	Minutes		2000	2200	1-

ST	P3 - Tes	+ 1	CT.	D2 T		C.T.	D2 T	
Min	Dw	Dg	Min	P3 - Tes	Dg	Min	P3 - Tes Dw	Dg
0	0.39	0.62	141111	DW	DB	IVIIII	DW	БВ
1	0.39	0.62						
2	0.39	0.62						
5	0.39	0.62						
10	0.39	0.62						
20	0.39	0.62						
30	0.39	0.62						
60	0.40	0.61						
120	0.41	0.60						
180	0.42	0.59						
240	0.42	0.59						
1276	0.53	0.48						
		D-			D-			
	Min	Dg		Min	Dg	ا	Min	Dg
750/	insut	f. Drain	750/			750/		
75%	Incut	0.465 f. Drain	75%			75%		
25%	IIISUT	0.155	25%			25%		
25%		0.105	25%			25%		



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BRE 365 INFILTRATION TESTS

JOMAS JOB NAME: Egley Road CALCULATING ENGINEER: AJH **DATE:** 26 June 2019 APPROVED BY: PS **DATE:** 27 June 2019 P2052J1651 JOMAS JOB NO.: STP4 - Test 1 TEST LOCATION: STP4 STP4 - Test 2 STP4 - Test 3 DATE OF TEST: 24 June 2019 1.05 Dg 75% (m) Tp 75% 1130.63 Pit Details Length Dg 25% 0.35 1.6 m Breadth Tp 25% 4361.68 0.35 m Depth Vp75% - Vp25% (m3) 0.39 2.4 m Groundwater? 3.29 Ν ap50% (m²) Filled With Gravel? Ν Tp75-Tp25 (min) 3231.05

Notes:

		Soil infiltration rate (m/s Permeability Descripti Drainage Condtio	on Low				
1.50							
1.40							
1.30	Mark						
1.20							
1.10							
1.00							
0.90) 20	00 400	600 Minu	800 tes	1000	1200	1400

ST	P4 - Tes	t 1	СТ	P4 - Tes	+ 2	CT	P4 - Tes	+ 2
Min	Dw	Dg	Min	Dw	Dg	Min	Dw	Dg
0	1.00	1.40			- 5			28
1	1.02	1.38						
2	1.03	1.37						
5	1.03	1.37						
10	1.04	1.36						
20	1.07	1.33						
30	1.08	1.32						
60	1.10	1.30						
120	1.12	1.28						
180	1.14	1.26						
240	1.16	1.24						
1365	1.40	1.00						
	Min	Dg		Min	Dg		Min	Dg
		oolated		IVIIII	25		IVIIII	25
75%	1131	1.05	75%			75%		
, 3/0		oolated	, 3/0			13/0		
25%	4362	0.35	25%			25%		



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BRE 365 INFILTRATION TESTS

JOMAS JOB NAME: Egley Road **DATE:** 26 June 2019 APPROVED BY: PS **DATE:** 27 June 2019 P2052J1651 JOMAS JOB NO.: TEST LOCATION: STP5 STP5 - Test 1 STP5 - Test 2 STP5 - Test 3 DATE OF TEST: 24 June 2019 1.12 Dg 75% (m) Pit Details Tp 75% Length Dg 25% 0.37 1.7 m Breadth Tp 25% 0.32 m Depth Vp75% - Vp25% (m3) 0.41 2.4 m Groundwater? 3.55 Ν ap50% (m²) Filled With Gravel? Ν Tp75-Tp25 (min) Insuff, Drain

CALCULATING ENGINEER: AJH

Notes:

		Permeability Description Drainage Condtions				
1.55						
1.50						
1.45						
1.40						
1.35						
1.30						
1.25						
1.20						
1.15						
1.10	200	400	600 Minutes	800	1000	1200

ŞT	P5 - Tes	t 1	C.T	P5 - Tes	+ 2	c=	P5 - Tes	
Min	Dw	Dg	Min	Dw	t 2 Dg	Min	Dw	Dg
0	0.91	1.49	IVIIII	DW	Dg	IVIIII	DW	Dg
1	0.91	1.49						
2	0.93	1.47						
5	0.95	1.45						
10	0.97	1.43						
20	1.00	1.40						
30	1.02	1.38						
60	1.03	1.37						
120	1.03	1.37						
180	1.03	1.37						
1309	1.23	1.17						
	Min	Dg		Min	Dg		Min	Dg
		f. Drain			•			
75%		1.118	75%			75%		
,.	Insuf	f. Drain		1		,.		
25%		0.373	25%			25%		



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BRE 365 INFILTRATION TESTS

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Groundwater?

Filled With Gravel?

JOMAS JOB NAME: Egley Road CALCULATING ENGINEER: AJH **DATE:** 26 June 2019 APPROVED BY: PS **DATE:** 27 June 2019 P2052J1651 JOMAS JOB NO.: TEST LOCATION: STP6 STP6 - Test 1 STP6 - Test 2 STP6 - Test 3 DATE OF TEST: 25 June 2019 1.06 Dg 75% (m) 1076.11 Pit Details Tp 75% Length 0.35 Dg 25% 1.8 m Breadth 4296.86 Tp 25% 0.35 m Depth Vp75% - Vp25% (m3) 0.44 2.4 m

ap50% (m²)

Tp75-Tp25 (min)

Soil infiltration rate (m/sec)

Permeability Description

3.66

3220.76 6.28E-07

Low

Notes:

Dw = depth to water

Dg = head of water in the pit

1.45								
1.40								
· ·								
1.35								
1.30								
1.25								
1.20								
1.15								
1.10								
1.05								
1.00								
0.95	200	400	600	800 Minutes	1000	1200	1400	16

ST	P6 - Tes	t 1	ST	P6 - Tes	t 2	ST	P6 - Tes	
Min	Dw	Dg	Min	Dw	Dg	Min	Dw	Dg
0	1.02	1.41						
1	1.03	1.40						
2	1.03	1.40						
5	1.04	1.39						
10	1.05	1.38						
20	1.07	1.36						
30	1.08	1.35						
60	1.10	1.33						
120	1.13	1.30						
180	1.16	1.27						
240	1.18	1.25						
306	1.21	1.22						
1396	1.44	0.99						
	Min	Dg		Min	Dg		Min	Dg
		polated						
75%	1076	1.058	75%			75%		
		polated						
25%	4297	0.353	25%			25%		



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BRE 365 INFILTRATION TESTS

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Groundwater?

Filled With Gravel?

JOMAS JOB NAME: Hundreds Farm CALCULATING ENGINEER: AJH **DATE:** 26 June 2019 APPROVED BY: PS **DATE:** 27 June 2019 P2052J1651 JOMAS JOB NO.: TEST LOCATION: STP7 STP7 - Test 1 STP7 - Test 2 STP7 - Test 3 DATE OF TEST: 25 June 2019 1.13 Dg 75% (m) Pit Details Tp 75% Length 0.38 Dg 25% 1.6 m Breadth Tp 25% 0.35 m Depth Vp75% - Vp25% (m3) 0.42 2.4 m

> Soil infiltration rate (m/sec) **Permeability Description**

3.49 ap50% (m²) Tp75-Tp25 (min) Insuff. Drain Notes:

Dw = depth to water

Dg = head of water in the pit

		Drainag	ge Condtions		I	l	
1.55							
1.50							
1.45 (ш) реад							
1.40							
1.35							
1.30							•
1.25	0 2	00 40	0 60	0 8	00 10	000 12	200 1400
				Minutes			

STP7 - Test 1			STP7 - Test 2			STP7 - Test 3		
Min Dw		Dg	Min	Dw	Dg	Min	Dw	Dg
0	0.90	1.50			- 5			28
1	0.90	1.50						
2	0.90	1.50						
3	0.91	1.49						
5	0.91	1.49						
10	0.91	1.49						
20	0.92	1.48						
30	0.93	1.47						
60	0.96	1.44						
120	0.98	1.42						
180	0.99	1.41						
1233	1.13	1.27						
	Min	Dg		Min	Dg		Min	Dg
				IVIIII	-6		IVIIII	-6
Insuff. Drain 1.125		75%			75%			
Insuff. Drain			, 5,5			,5,5		
25%		0.375	25%			25%		