

22/10/2021

Our ref: ICE0007/LD02/211022

Christian O'Brien
Senior Technical Co-ordinator
Persimmon Homes Thames Valley
Persimmon House
Knoll Road
Camberley
Surrey
GU15 3TQ



By email only

Dear Christian,

RE: Land South of West Street and West of Loose Lane, Sompting, West Sussex, BN15 0DQ – BRE 365 Soakage Testing and Groundwater Winter Monitoring

We write to present the results of the soakage testing and intrusive investigation undertaken at the above site. The soakage tests were undertaken in accordance with BRE Digest 365 'Soakaway Design' BRE, 2016.

The intrusive investigation was undertaken between 18th and 20th October 2021, with the works supervised by an IBEX Engineer.

Background

At the time of intrusive investigation, the site was occupied by several undeveloped farmlands. It is understood that the site is proposed to be developed with a new residential development with private gardens, a communal open space, services access roads and associated development infrastructure.

Scope of Site Works

Sixteen dynamic sampler boreholes (referenced WS01-WS14) were drilled to a maximum depth of 5.0m bgl.

Fourteen machine dug trial pits were excavated to a maximum depth of 2.05m bgl.

Fourteen soakage tests in accordance with BRE Digest 365 were undertaken within the trial pits (TP01 and TP14).

Ground Conditions

Based on the published geological records and several phases of ground investigations were undertaken on site, the ground conditions are likely to comprise superficial deposits of the Head Deposits and Made Ground overlying the chalk of the Tarrant Chalk Member.

The ground conditions encountered were broadly consistent with those anticipated, namely a thickness of Topsoil overlying Head Deposits over the chalk. Made Ground was not encountered during the investigation.

Ibex Consulting Engineers Limited

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Geotechnical and Environmental Specialists | Site Investigations

Ibex Consulting Engineers Limited registered in England and Wales under the company registration number: 13585544

For further details of the ground conditions, reference should be made to the exploratory hole logs presented in Appendix A.

Groundwater

Groundwater was not encountered during the investigation.

However, fourteen combined groundwater and ground gas monitoring wells were installed within all of the boreholes (referenced WS01-WS14) to a maximum depth of 5.0m bgl and these wells will be monitored on twelve occasions between mid-October 2021 and mid-March 2022.

Obstructions

During the intrusive ground investigation, advancements of WS04, WS5, WS05A, WS06 and WS6A were terminated at depths of between 1.8m and 4.7m bgl due to the presence of impenetrable obstructions (e.g. coarse flint gravel). Therefore, the presence of natural and/or manmade obstructions elsewhere on site cannot be discounted.

Soakaways

Table 1 summarises the soakage rates, which were calculated based on the results of the soakage testing:

Reference	Geology	Calculated Infiltration Rates (m/s)		
		1 st Cycle	2 nd Cycle	3 rd Cycle
TP01	Head Deposits	1.1X10 ⁻⁵	1.4X10 ⁻⁵	1.4X10 ⁻⁵
TP02	Head Deposits	5.3X10 ⁻⁶	8.4X10 ⁻⁶	7.6X10 ⁻⁶
TP03	Head Deposits	3.2X10 ⁻⁵	5.8X10 ⁻⁵	4.1X10 ⁻⁵
TP04	Head Deposits	1.0X10 ⁻⁵	1.2X10 ⁻⁵	6.7X10 ⁻⁶
TP05	Head Deposits	1.6X10 ⁻⁵	2.1X10 ⁻⁵	2.5X10 ⁻⁵
TP06	Head Deposits	1.5X10 ⁻⁴	6.3X10 ⁻⁵	6.4X10 ⁻⁵
TP07	Head Deposits	5.7X10 ⁻⁵	2.5X10 ⁻⁵	1.9X10 ⁻⁵
TP08	Head Deposits	5.8X10 ⁻⁶	1.3X10 ⁻⁵	1.4X10 ⁻⁶
TP09	Head Deposits	1.1X10 ⁻⁶	2.7X10 ⁻⁶	1.1X10 ⁻⁶
TP10	Head Deposits	1.7X10 ⁻⁶	3.0X10 ⁻⁶	*
TP11	Head Deposits	1.5X10 ⁻⁶	2.3X10 ⁻⁶	*
TP12	Head Deposits	1.0X10 ⁻⁵	2.3X10 ⁻⁵	1.9X10 ⁻⁵
TP13	Head Deposits / Tarrant Chalk Member	8.7X10 ⁻⁴	6.5X10 ⁻⁴	1.0X10 ⁻³
TP14	Head Deposits	4.3X10 ⁻⁵	3.1X10 ⁻⁵	2.2X10 ⁻⁵
N/D: Not determined due to insufficient fall in head over three day period				
* Collapsed following heavy rainfall.				

Table 1 Summary of Soakage Test Results

Closure

We trust that we have interpreted your instructions correctly; please do not hesitate to contact us should you have any queries.

Yours sincerely

For and on Behalf of Ibex Consulting Engineers Limited



Levent Dogan BSc, MSc, PGDip, CEng MCIHT, AMICE
Director

ld@ibexconsultant.com

Enc.	Figure 1	Site Location Plan
	Figure 2	Exploratory Hole Logs Location Plan
	Appendix A	Exploratory hole logs
	Appendix B	BRE 365 Soakage Testing Results
	Appendix C	GPS Coordinates of the Exploratory Holes

Figures





Project:	Land South of West Street and West of Loose Lane, Sompting, West Sussex, BN15 0DQ			Title	Site Location Plan	
Client:	Persimmon Homes Thames Valley			IBEX Consulting Engineers Limited Abbey House, 25 Clarendon Road Redhill, Surrey. RH1 1QZ +44(0)1737 452622 www.ibexconsultant.com		 IBEX CONSULTING ENGINEERS
Ref No:	ICE0007	Revision:	0			
Drawn:	LD	Date:	22/10/2021			
Figure:	1	Scale:	Not To Scale			



Project:	Land South of West Street and West of Loose Lane, Sompting, West Sussex, BN15 0DQ			Title	Exploratory Hole Logs Location Plan	
Client:	Persimmon Homes Thames Valley			IBEX Consulting Engineers Limited Abbey House, 25 Clarendon Road Redhill, Surrey. RH1 1QZ +44(0)1737 452622 www.ibexconsultant.com 		
Ref No:	ICE0007	Revision:	0			
Drawn:	LD	Date:	22/10/2021			
Figure:	2	Scale:	Not To Scale			

Appendix A

Exploratory Hole Logs



IBEX
CONSULTING
ENGINEERS

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516686.44

Northing: 105497.38

Ground Level: 18.21

Borehole No: WS01



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	18.2							
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	17.8							
1		HEAD DEPOSITS Brown orange brown sandy CLAY with high cobble content. [HEAD DEPOSITS]	17							
2										
3		HEAD DEPOSITS Cream gravelly sandy silty CLAY with high cobble content. Gravel is fine to coarse flint and chert.[HEAD DEPOSITS]								
4										
5			13.2							

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 20.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516609.48

Northing: 105488.17

Ground Level: 19.14

Borehole No: WS02



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	19.1							
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	18.8							
1		HEAD DEPOSITS Brown orange brown sandy CLAY with high cobble content and abundant roots and rootlets. [HEAD DEPOSITS]	18							
2		HEAD DEPOSITS Cream gravelly sandy silty CLAY with high cobble content. Gravel is fine to coarse flint and chert.[HEAD DEPOSITS]								
3			15.6							
4		HEAD DEPOSITS Brown gravelly sandy silty CLAY with high cobble content. Gravel is fine to coarse flint and chert.[HEAD DEPOSITS]								
5			14.1							

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 20.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516597.95

Northing: 105394.52

Ground Level: 15.60

Borehole No: WS03



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	15.2							
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	14.7							
1		HEAD DEPOSITS Brown very gravelly sandy CLAY with high cobble content. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	14							
2		HEAD DEPOSITS Light brown cream gravelly slightly clayey SAND/sandy CLAY. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]	11.4							
3										
4		End of Borehole								
5										

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 20.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516684.43

Northing: 105393.80

Ground Level: 15.26

Borehole No: WS04



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	15.3							
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	14.9							
		HEAD DEPOSITS Brown very gravelly sandy CLAY with high cobble content. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	14.3							
1		HEAD DEPOSITS Light brown cream gravelly slightly clayey SAND/sandy CLAY with high cobble content. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]	13.5							
2		End of Borehole								
3										
4										
5										

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 20.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516575.06

Northing: 105276.43

Ground Level: 13.16

Borehole No: WS05



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	13.2							
		TOPSOIL								
		Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	12.8							
		HEAD DEPOSITS								
		Brown sandy CLAY. [HEAD DEPOSITS]	12.4							
1		HEAD DEPOSITS								
		Cream clayey sandy GRAVEL. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]								
2										
3			9.96							
4		HEAD DEPOSITS								
		Cream gravelly sandy CLAY. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]								
			8.46							
		End of Borehole								
5										

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 20.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Borehole No: WS05A

Easting: 516575.06

Northing: 105276.43

Ground Level: 13.16



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	13.2							
		TOPSOIL								
		Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	12.9							
		HEAD DEPOSITS								
		Brown sandy CLAY. [HEAD DEPOSITS]	12.4							
1		HEAD DEPOSITS								
		Cream clayey sandy GRAVEL. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]	11.9							
		End of Borehole								
2										
3										
4										
5										

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 20.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516689.61

Northing: 105271.60

Ground Level: 14.11

Borehole No: WS06



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	14.1							
		TOPSOIL								
		Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	13.8							
		HEAD DEPOSITS								
		Brown sandy CLAY. [HEAD DEPOSITS]	13.2							
1		HEAD DEPOSITS								
		Cream clayey sandy GRAVEL. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]	11.4							
2										
3		End of Borehole								
4										
5										

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 20.10.2021

Drill Date: 20.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516663.64

Northing: 104690.57

Ground Level: 8.76

Borehole No: WS07



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	8.76							
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	8.51							
1		HEAD DEPOSITS Orange brown clayey sandy GRAVEL. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]								
2										
3			5.61							
4		HEAD DEPOSITS Yellowish brown slightly clayey fine to medium grained SAND. [HEAD DEPOSITS]								
5			3.76							

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 19.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Borehole No: WS08

Easting: 516646.65

Northing: 104586.11

Ground Level: 7.76



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	7.76							
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	7.42							
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	6.96							
1		HEAD DEPOSITS Brown clayey sandy GRAVEL. Gravel is fine to coarse angular to sub-angular flint and chert. [HEAD DEPOSITS]	5.97							
2		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	5.16							
3		TARRANT CHALK MEMBER Light brown creamy sandy gravelly chalky CLAY/clayey CHALK. Gravel is medium to coarse angular to sub-angular flint and chert. [TARRANT CHALK MEMBER]	2.76							
4										
5										

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 19.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516612.82

Northing: 104586.11

Ground Level: 6.47

Borehole No: WS09



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	6.47							
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	6.17							
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	5.62							
1										
2		HEAD DEPOSITS Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]								
3			3.27							
4		TARRANT CHALK MEMBER Recovered as structureless greyish white CHALK composed of slightly silty CLAY with occasional flint gravel. [TARRANT CHALK MEMBER]								
5			1.47							

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 19.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516543.37

Northing: 104602.30

Ground Level: 8.12

Borehole No: WS10



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	8.12							
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	7.82							
		HEAD DEPOSITS Brown sandy CLAY with occasional roots. [HEAD DEPOSITS]	7.12							
1										
2										
3		HEAD DEPOSITS Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]								
4										
		End of Borehole	3.82							
5										

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 19.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Borehole No: WS11

Easting: 516503.06

Northing: 104411.34

Ground Level: 6.67



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	6.67							
		TOPSOIL								
		Soft to firm dark brown sandy clay with rootlets and occasional flints.	6.36							
		[TOPSOIL]								
1		HEAD DEPOSITS								
		Brown sandy CLAY. [HEAD DEPOSITS]								
			5.12							
2		HEAD DEPOSITS								
		Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel.								
		[HEAD DEPOSITS]	4.37							
3		TARRANT CHALK MEMBER								
		Light brown creamy sandy gravelly chalky CLAY/clayey CHALK with orange brown sandy partings. Gravel is medium to coarse angular to sub-angular flint and chert. [TARRANT CHALK MEMBER]								
4										
5			1.67							

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 19.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Borehole No: WS12

Easting: 516435.67

Northing: 104695.39

Ground Level: 7.685



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	7.68							
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	7.38							
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	6.68							
1		HEAD DEPOSITS Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	4.98							
2		HEAD DEPOSITS Yellowish brown clayey fine to medium grained SAND. [HEAD DEPOSITS]	3.49							
3		HEAD DEPOSITS Yellowish brown clayey fine to medium grained SAND. [HEAD DEPOSITS]	3.49							
4		TARRANT CHALK MEMBER Recovered as structureless greyish white putty CHALK composed of slightly silty CLAY with occasional flint gravel. [TARRANT CHALK MEMBER]	2.68							
5										

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 19.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516409.55

Northing: 104611.93

Ground Level: 6.905

Borehole No: WS13



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	6.91							
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	6.66							
1		HEAD DEPOSITS Brown light brown gravelly sandy CLAY. Gravel is fine to coarse flint and chert gravel. [HEAD DEPOSITS]								
2			4.7							
3		HEAD DEPOSITS Light brown cream very gravelly sandy CLAY with orange brown sandy clay partings. Gravel is fine to coarse flint gravel. Occasional chalk gravel. [HEAD DEPOSITS]								
4										
5			1.91							

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 19.10.2021

Job No: ICE0007

Site: Sompting, West Sussex, BN15 0DQ

Client: Persimmon Homes Thames Valley

Easting: 516366.00

Northing: 104769.14

Ground Level: 7.32

Borehole No: WS14



Depth	Symbol	Description	Depth/Elev.	Number	Type	SPT(N)	Standard Penetration Test		Well Data	Remarks
							20	40		
0		Ground Surface	7.32							
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	7.05							
1		HEAD DEPOSITS Brown becoming light brown sandy silty CLAY. [HEAD DEPOSITS]								
2			5.11							
3		HEAD DEPOSITS Light brown gravelly sandy CLAY. Gravel is fine to coarse and angular to sub-angular flint gravel. [HEAD DEPOSITS]								
4										
5			2.32							

Drilled By: 3D Drilling Ltd

Drill Method: Dynamic Sampler

Drill Date: 19.10.2021

Job No: ICE0007

Trial Pit No: TP01

Site: Sompting, West Sussex

Easting: 516672.86

Client: Persimmon Homes

Northing: 105497.57



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	18.3		0	
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	17.9			
1		HEAD DEPOSITS Brown orange brown sandy CLAY with high cobble content. [HEAD DEPOSITS]	17.1		1	
		HEAD DEPOSITS Cream gravelly sandy silty CLAY with high cobble content. Gravel is fine to coarse flint and chert.[HEAD DEPOSITS]	16.8			
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Stable

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP02

Site: Sompting, West Sussex

Easting: 516601.34

Client: Persimmon Homes

Northing: 105475.15



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	18.8		0	
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	18.4			
		HEAD DEPOSITS Brown orange brown sandy CLAY with high cobble content and abundant roots and rootlets. [HEAD DEPOSITS]	17.8			
1		End of Borehole			1	
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Stable

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP03

Site: Sompting, West Sussex

Easting: 516615.97

Client: Persimmon Homes

Northing: 105394.69



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	15.5		0	
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	14.9			
1		HEAD DEPOSITS Brown very gravelly sandy CLAY with high cobble content. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	14.3		1	
		HEAD DEPOSITS Light brown cream gravelly slightly clayey SAND/sandy CLAY. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]	14			
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP04

Site: Sompting, West Sussex

Easting: 516703.21

Client: Persimmon Homes

Northing: 105393.47



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	15.4		0	
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	15			
		HEAD DEPOSITS Brown very gravelly sandy CLAY with high cobble content. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	14.5			
1		HEAD DEPOSITS Light brown cream gravelly slightly clayey SAND/sandy CLAY with high cobble content. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]	14.3		1	
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP05

Site: Sompting, West Sussex

Easting: 516607.10

Client: Persimmon Homes

Northing: 105274.96



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	13.5		0	
		TOPSOIL Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	13.1			
		HEAD DEPOSITS Brown very gravelly sandy CLAY with high cobble content. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	12.5			
1		End of Borehole			1	
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP06

Site: Sompting, West Sussex

Easting: 516673.43

Client: Persimmon Homes

Northing: 105272.72



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	14		0	
		TOPSOIL				
		Grass over dark brown sandy clay with roots and rootlets. [TOPSOIL]	13.8			
		HEAD DEPOSITS				
		Brown sandy CLAY. [HEAD DEPOSITS]	13.5			
		HEAD DEPOSITS				
		Brown very gravelly sandy CLAY with high cobble content. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]				
1			12.8		1	
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP07

Site: Sompting, West Sussex

Easting: 516657.49

Client: Persimmon Homes

Northing: 104691.39



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	8.82		0	
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	8.54			
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	8.3			
1		HEAD DEPOSITS Orange brown clayey sandy GRAVEL. Gravel is fine to coarse flint and chert. [HEAD DEPOSITS]	7.62		1	
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP08

Site: Sompting, West Sussex

Easting: 516650.87

Client: Persimmon Homes

Northing: 104585.33



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	7.72		0	
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	7.37			
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	6.76			
1		HEAD DEPOSITS Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	6.42		1	
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP09

Site: Sompting, West Sussex

Easting: 516617.12

Client: Persimmon Homes

Northing: 104412.24



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	6.34		0	
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	6.02			
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	5.49			
1		HEAD DEPOSITS Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	5.14		1	
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP10

Site: Sompting, West Sussex

Easting: 516536.29

Client: Persimmon Homes

Northing: 104603.13



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	8.07		0	
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	7.75			
		HEAD DEPOSITS Brown sandy CLAY with occasional roots. [HEAD DEPOSITS]	7.07			
1		HEAD DEPOSITS Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	6.57		1	
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP11

Site: Sompting, West Sussex

Easting: 516497.99

Client: Persimmon Homes

Northing: 104412.07



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	6.61		0	
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	6.29			
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	5.76			
1		HEAD DEPOSITS Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	4.86		1	
2		End of Borehole			2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP12

Site: Sompting, West Sussex

Easting: 516425.61

Client: Persimmon Homes

Northing: 104698.11



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	7.69		0	
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	7.39			
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]	6.74			
1		HEAD DEPOSITS Brown orange brown very gravelly sandy CLAY. Gravel is fine to coarse angular to sub-angular flint gravel. [HEAD DEPOSITS]	6.14		1	
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP13

Site: Sompting, West Sussex

Easting: 516390.04

Client: Persimmon Homes

Northing: 104617.08



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	7.09		0	
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	6.84			
		HEAD DEPOSITS Brown light brown gravelly sandy CLAY. Gravel is fine to coarse flint and chert gravel. [HEAD DEPOSITS]				
1			6.05		1	
		TARRANT CHALK MEMBER Light brown cream very gravelly sandy CLAY with orange brown sandy clay partings. Gravel is fine to coarse flint gravel. Occasional chalk gravel. [TARRANT CHALK MEMBER]				
2			5.05		2	
		End of Borehole				
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Job No: ICE0007

Trial Pit No: TP14

Site: Sompting, West Sussex

Easting: 516350.28

Client: Persimmon Homes

Northing: 104774.31



Depth	Symbol	Description	Depth/Elev.	Sample	Depth	Remarks
0		Ground Surface	7.13		0	
		TOPSOIL Soft to firm dark brown sandy clay with rootlets and occasional flints. [TOPSOIL]	6.85			
		HEAD DEPOSITS Brown sandy CLAY. [HEAD DEPOSITS]				
1			6.08		1	
		End of Borehole				
2					2	
3					3	
4					4	

Logged By: LD

Excavation Method: Machine excavated

Date: 18.10.2021

Appendix B

BRE 365 Soakage Testing Results



IBEX
CONSULTING
ENGINEERS

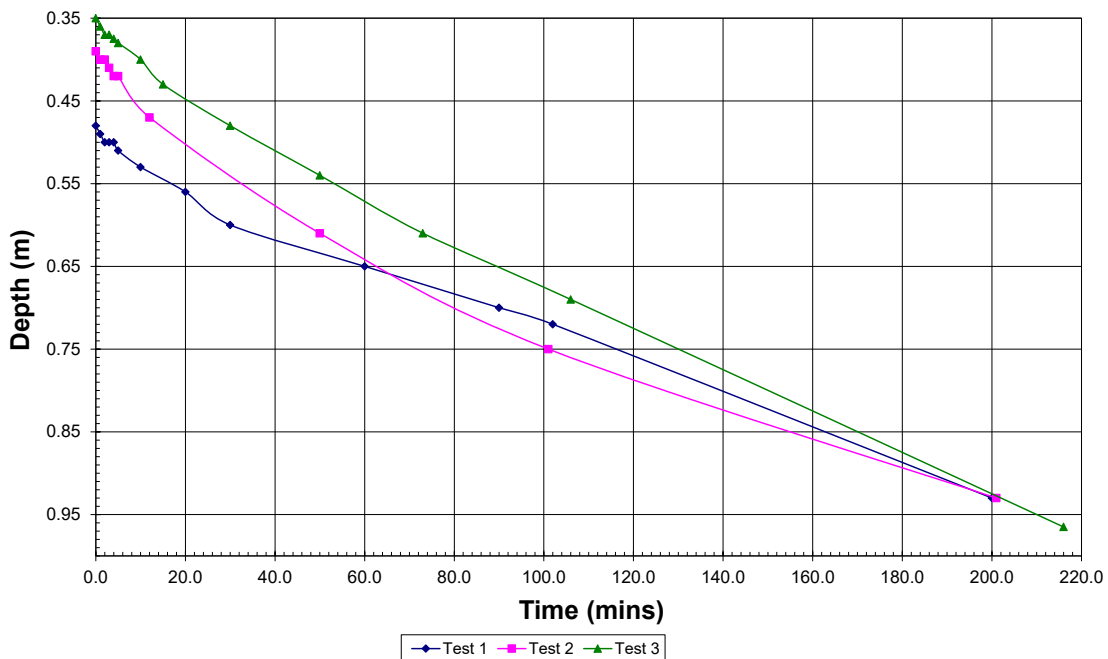
Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP01
Pit depth (m)	1.46
Pit width (m)	0.33
Pit length (m)	1.75
Depth to standing water (m)	

[illegible][illegible]

Time (min)	Depth (m)
0.0	0.35
1.0	0.36
2.0	0.37
3.0	0.37
4.0	0.38
5.0	0.38
10.0	0.40
15.0	0.43
30.0	0.48
50.0	0.54
73.0	0.61
106.0	0.69
216.0	0.97



Max. depth (m)	1.08	0.98	0.98
Effective depth (m)	0.60	0.59	0.63
75% effective depth (m)	0.63	0.54	0.51
50% effective depth (m)	0.78	0.69	0.67
25% effective depth (m)	0.93	0.83	0.82
t75 (min)	58.00	30.00	40.00
t50 (min)			
t25 (min)	200.00	143.00	158.00
Vp 75-25	0.17	0.17	0.18
ap 50	1.8255	1.8047	1.8879
tp 75-25	142.00	113.00	118.00

Soil infiltration rate (m/s)	1.1E-05	1.4E-05	1.4E-05
Soil infiltration rate (mm/hr)	4.01E+01	5.01E+01	4.90E+01

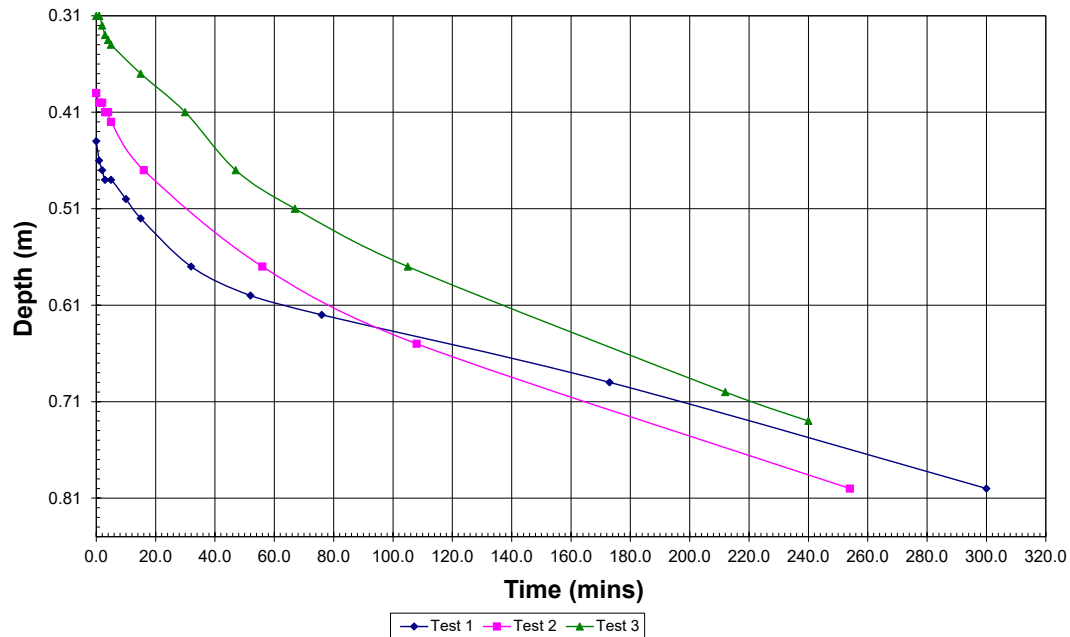
Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |

Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP02
Pit depth (m)	1.10
Pit width (m)	0.30
Pit length (m)	1.71
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	0.90	0.85	0.85
Effective depth (m)	0.46	0.46	0.54
75% effective depth (m)	0.56	0.51	0.45
50% effective depth (m)	0.67	0.62	0.58
25% effective depth (m)	0.79	0.74	0.72
t75 (min)	28.00	31.00	40.00
t50 (min)			
t25 (min)	288.00	194.00	230.00
Vp 75-25	0.12	0.12	0.14
ap 50	1.4376	1.4376	1.5984
tp 75-25	260.00	163.00	190.00

Soil infiltration rate (m/s)	5.3E-06	8.4E-06	7.6E-06
Soil infiltration rate (mm/hr)	1.89E+01	3.02E+01	2.74E+01

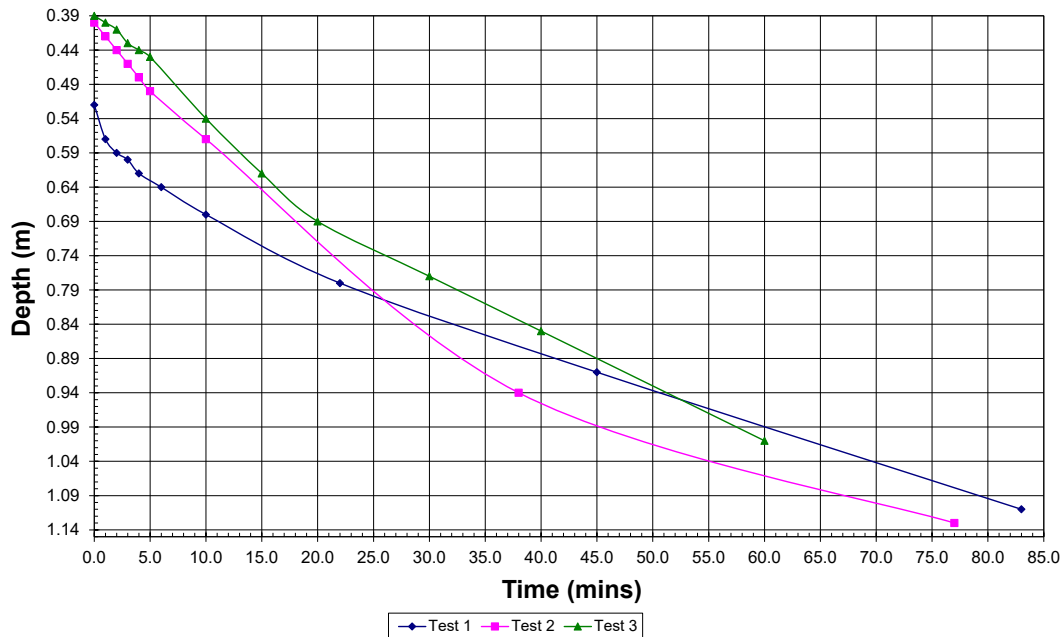
Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |

Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP03
Pit depth (m)	1.43
Pit width (m)	0.33
Pit length (m)	1.70
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	1.15	1.15	1.15
Effective depth (m)	0.63	0.75	0.76
75% effective depth (m)	0.68	0.59	0.58
50% effective depth (m)	0.84	0.78	0.77
25% effective depth (m)	0.99	0.96	0.96
t75 (min)	10.00	11.50	12.50
t50 (min)			
t25 (min)	60.00	40.50	54.00
Vp 75-25	0.18	0.21	0.21
ap 50	1.8399	2.0835	2.1038
tp 75-25	50.00	29.00	41.50

Soil infiltration rate (m/s)	3.2E-05	5.8E-05	4.1E-05
Soil infiltration rate (mm/hr)	1.15E+02	2.09E+02	1.47E+02

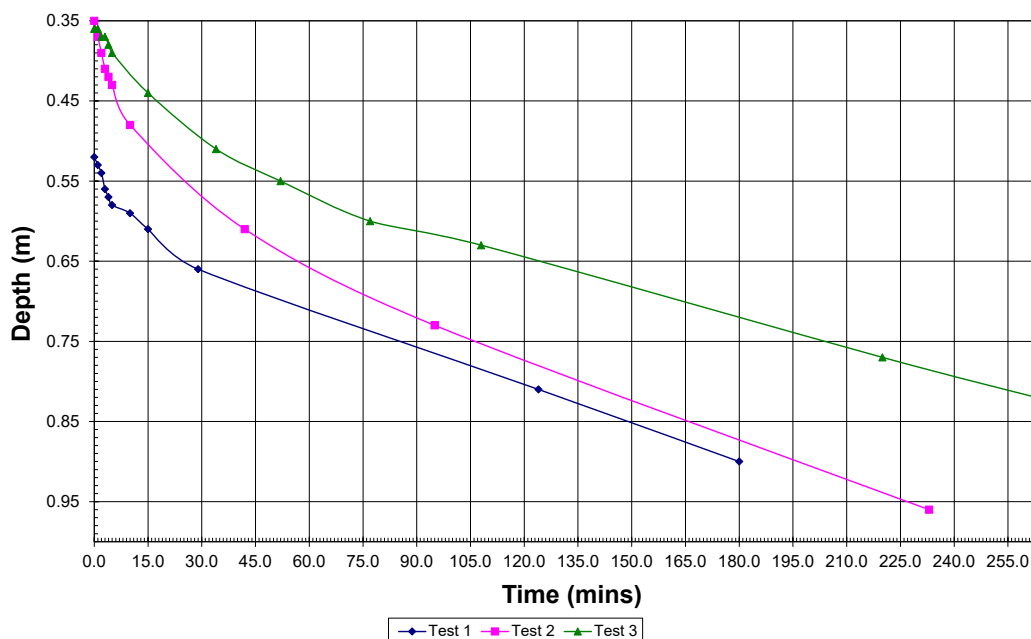
Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |

Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP04
Pit depth (m)	1.05
Pit width (m)	0.30
Pit length (m)	1.70
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	0.97	0.96	0.96
Effective depth (m)	0.45	0.61	0.60
75% effective depth (m)	0.63	0.50	0.51
50% effective depth (m)	0.75	0.66	0.66
25% effective depth (m)	0.86	0.81	0.81
t75 (min)	19.00	14.00	34.00
t50 (min)			
t25 (min)	155.00	142.00	255.00
Vp 75-25	0.11	0.16	0.15
ap 50	1.41	1.73	1.71
tp 75-25	136.00	128.00	221.00

Soil infiltration rate (m/s)	1.0E-05	1.2E-05	6.7E-06
Soil infiltration rate (mm/hr)	3.59E+01	4.21E+01	2.43E+01

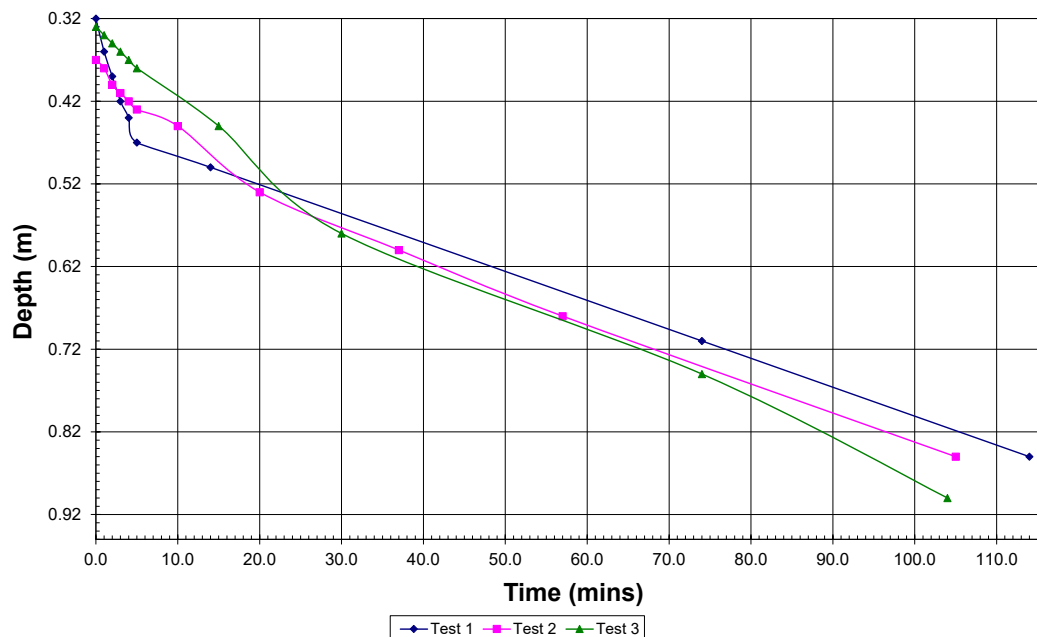
Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |

Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP05
Pit depth (m)	1.00
Pit width (m)	0.30
Pit length (m)	1.72
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	0.98	0.93	0.90
Effective depth (m)	0.66	0.56	0.57
75% effective depth (m)	0.49	0.51	0.47
50% effective depth (m)	0.65	0.65	0.62
25% effective depth (m)	0.82	0.79	0.76
t75 (min)	11.00	17.00	17.00
t50 (min)			
t25 (min)	105.00	88.00	76.50
Vp 75-25	0.17	0.14	0.15
ap 50	1.8492	1.6472	1.6674
tp 75-25	94.00	71.00	59.50
Soil infiltration rate (m/s)	1.6E-05	2.1E-05	2.5E-05
Soil infiltration rate (mm/hr)	5.88E+01	7.41E+01	8.89E+01

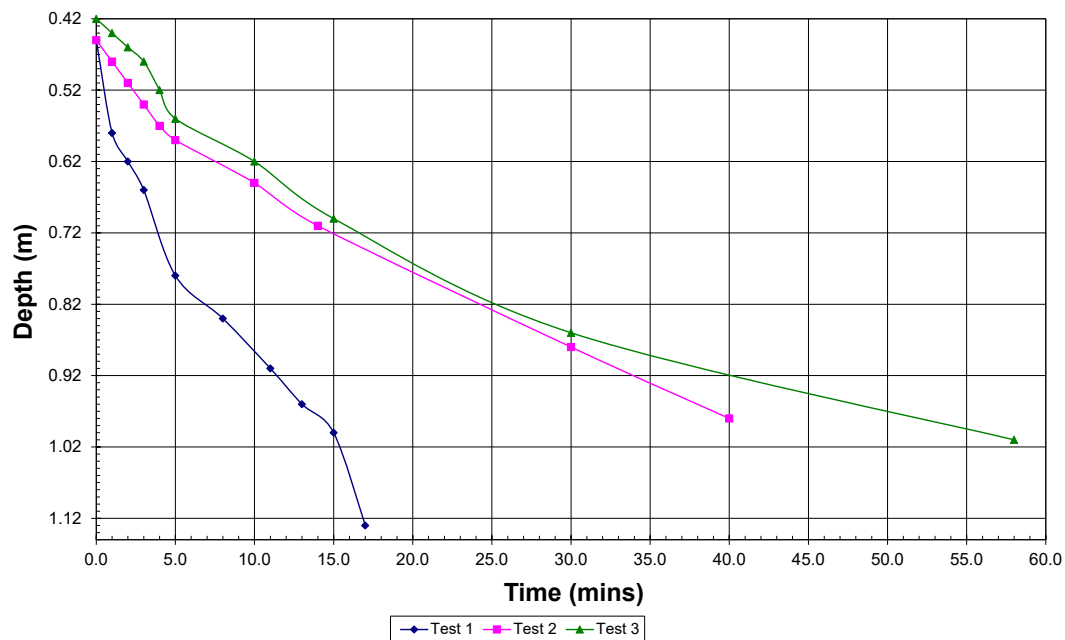
Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |

Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP06
Pit depth (m)	1.15
Pit width (m)	0.33
Pit length (m)	1.50
Depth to standing water (m)	

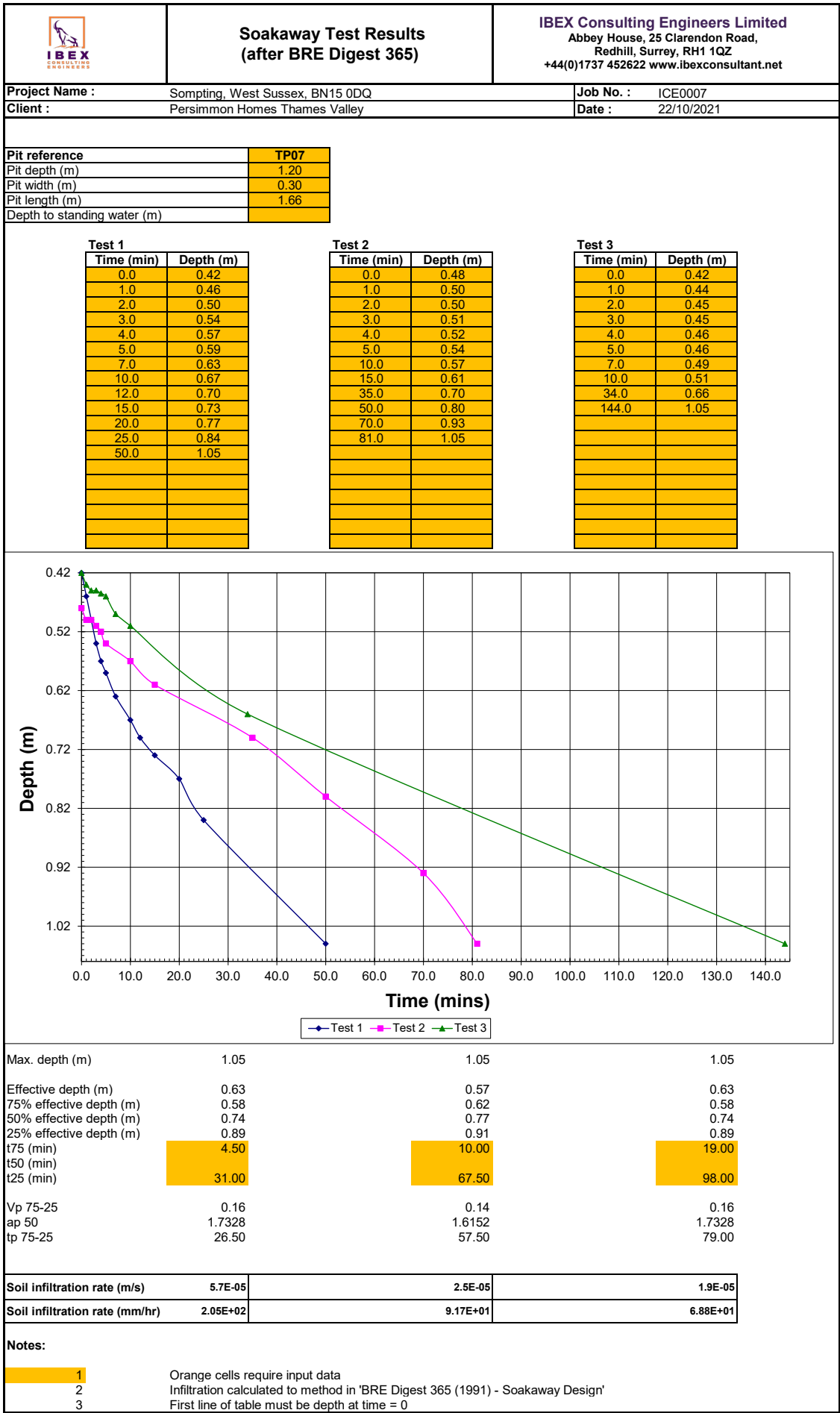
[illegible][illegible][illegible]

Max. depth (m)	1.13	1.01	1.01
Effective depth (m)	0.68	0.56	0.59
75% effective depth (m)	0.62	0.59	0.57
50% effective depth (m)	0.79	0.73	0.72
25% effective depth (m)	0.96	0.87	0.86
t75 (min)	2.00	5.00	6.00
t50 (min)			
t25 (min)	13.00	29.00	30.00
Vp 75-25	0.17	0.14	0.15
ap 50	1.7394	1.5198	1.5747
tp 75-25	11.00	24.00	24.00

Soil infiltration rate (m/s)	1.5E-04	6.3E-05	6.4E-05
Soil infiltration rate (mm/hr)	5.28E+02	2.28E+02	2.32E+02

Notes:

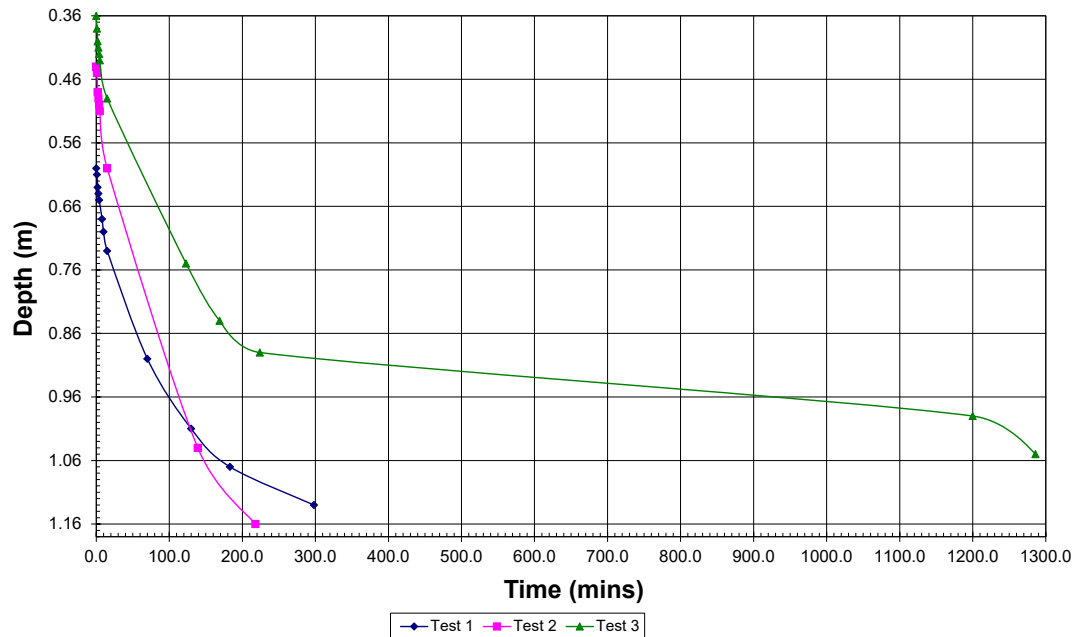
- 1 Orange cells require input data
- 2 Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
- 3 First line of table must be depth at time = 0



Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP08
Pit depth (m)	1.30
Pit width (m)	0.30
Pit length (m)	1.74
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	1.30	1.28	1.25
Effective depth (m)	0.70	0.84	0.89
75% effective depth (m)	0.78	0.65	0.58
50% effective depth (m)	0.95	0.86	0.81
25% effective depth (m)	1.13	1.07	1.03
t75 (min)	30.00	28.00	50.00
t50 (min)			
t25 (min)	298.00	151.00	1270.00
Vp 75-25	0.18	0.22	0.23
ap 50	1.95	2.2356	2.3376
tp 75-25	268.00	123.00	1220.00

Soil infiltration rate (m/s)	5.8E-06	1.3E-05	1.4E-06
Soil infiltration rate (mm/hr)	2.10E+01	4.78E+01	4.89E+00

Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |

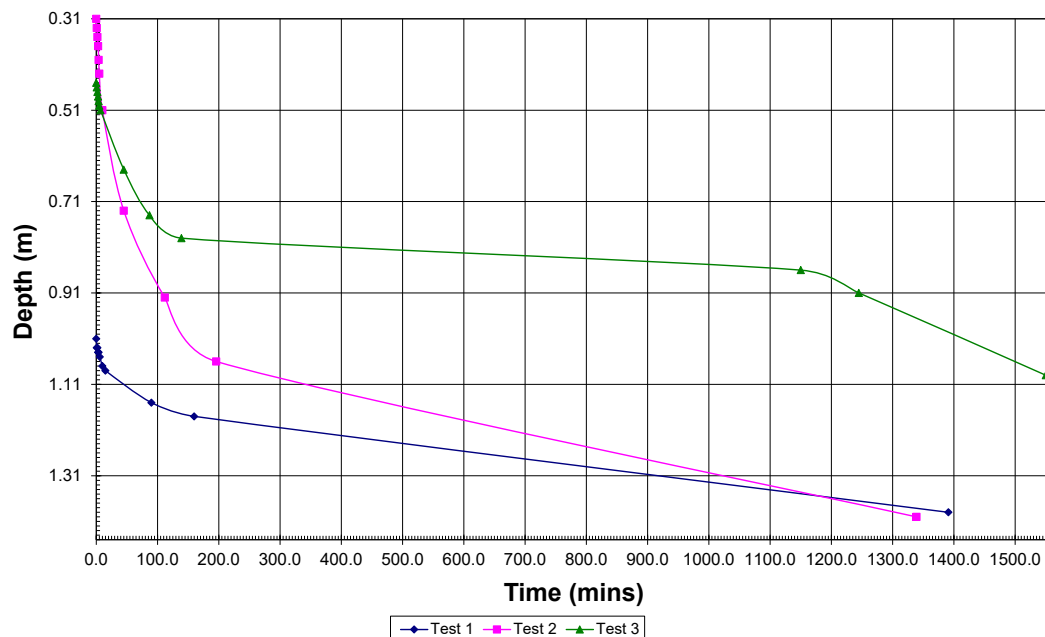
Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP09
Pit depth (m)	1.75
Pit width (m)	0.30
Pit length (m)	1.80
Depth to standing water (m)	

[illegible][illegible]

Time (min)	Depth (m)
0.0	0.45
1.0	0.46
2.0	0.47
3.0	0.48
4.0	0.49
5.0	0.50
7.0	0.51
45.0	0.64
87.0	0.74
139.0	0.79
1150.0	0.86
1245.0	0.91
1550.0	1.09



Max. depth (m)	1.52	1.50	1.30
Effective depth (m)	0.51	1.19	0.85
75% effective depth (m)	1.14	0.61	0.66
50% effective depth (m)	1.27	0.91	0.88
25% effective depth (m)	1.39	1.20	1.09
t75 (min)	75.00	23.00	54.00
t50 (min)			
t25 (min)	1391.00	668.00	1550.00
Vp 75-25	0.14	0.32	0.23
ap 50	1.611	3.039	2.325
tp 75-25	1316.00	645.00	1496.00

Soil infiltration rate (m/s)	1.1E-06	2.7E-06	1.1E-06
Soil infiltration rate (mm/hr)	3.90E+00	9.83E+00	3.96E+00

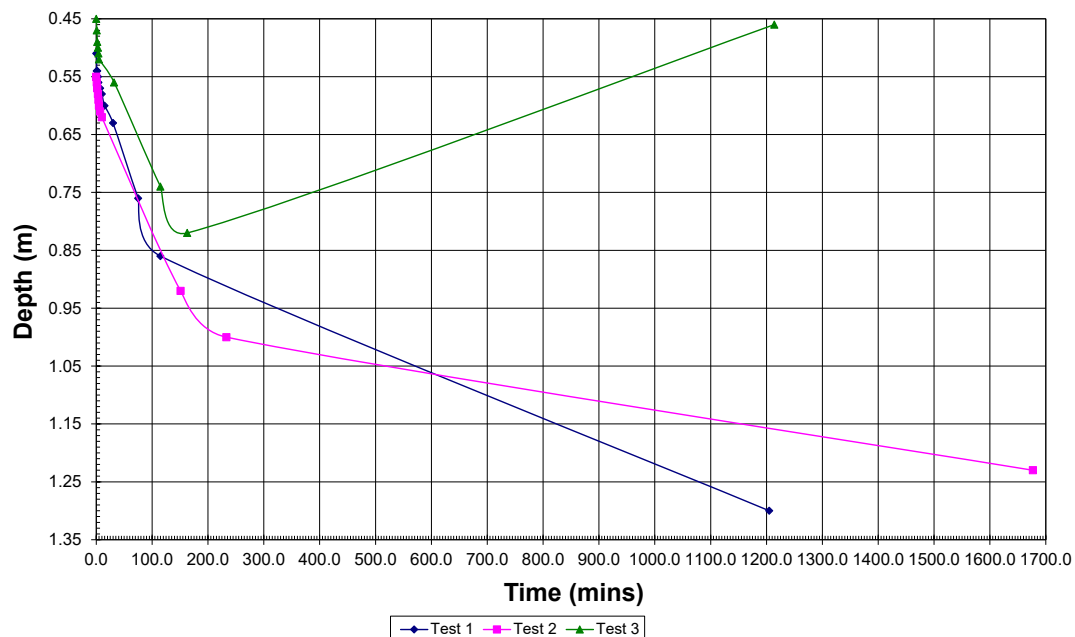
Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |

Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP10
Pit depth (m)	1.50
Pit width (m)	0.30
Pit length (m)	1.96
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	1.50	1.23	1.18
Effective depth (m)	0.99	0.68	0.73
75% effective depth (m)	0.76	0.72	0.63
50% effective depth (m)	1.01	0.89	0.82
25% effective depth (m)	1.25	1.06	1.00
t75 (min)	75.00	55.00	
t50 (min)			
t25 (min)	1085.00	585.00	
Vp 75-25	0.29	0.20	0.21
ap 50	2.8254	2.1248	2.2378
tp 75-25	1010.00	530.00	0.00

Soil infiltration rate (m/s)	1.7E-06	3.0E-06	#DIV/0!
Soil infiltration rate (mm/hr)	6.12E+00	1.07E+01	#DIV/0!

Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |



Soakaway Test Results (after BRE Digest 365)

IBEX Consulting Engineers Limited
Abbey House, 25 Clarendon Road,
Redhill, Surrey, RH1 1QZ
+44(0)1737 452622 www.ibexconsultant.net

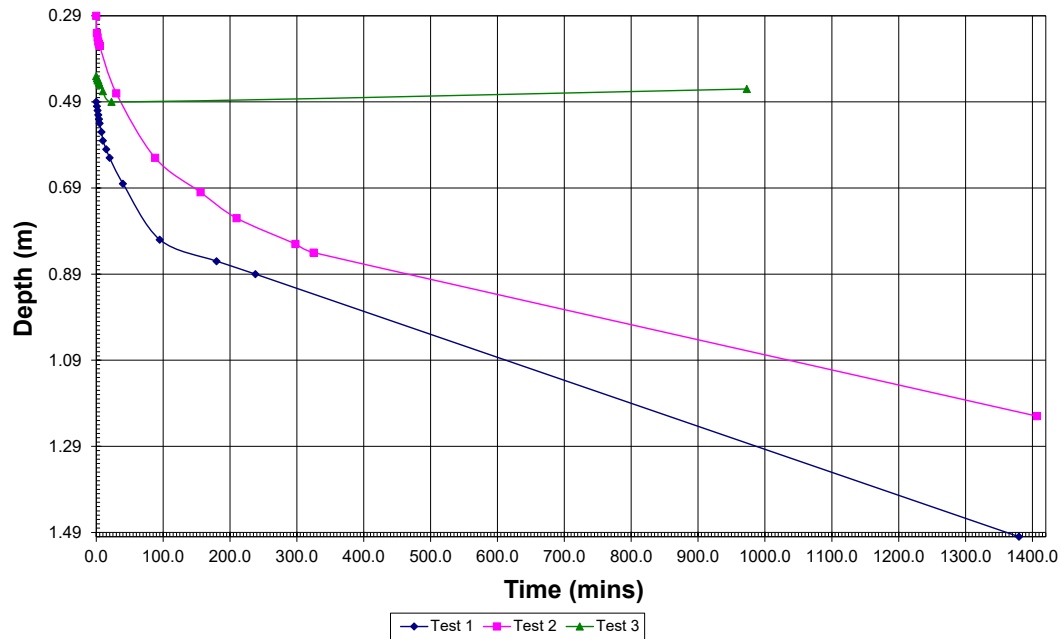
Project Name :	Sompting, West Sussex, BN15 0DQ	Job No. :	ICE0007
Client :	Persimmon Homes Thames Valley	Date :	22/10/2021

Pit reference	TP11
Pit depth (m)	1.75
Pit width (m)	0.30
Pit length (m)	1.61
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.49
1.0	0.50
2.0	0.51
3.0	0.52
4.0	0.53
5.0	0.54
8.0	0.56
10.0	0.58
15.0	0.60
20.0	0.62
40.0	0.68
95.0	0.81
180.0	0.86
238.0	0.89
1380.0	1.50

Test 2	
Time (min)	Depth (m)
0.0	0.29
1.0	0.33
2.0	0.34
3.0	0.35
4.0	0.36
5.0	0.36
30.0	0.47
88.0	0.62
156.0	0.70
210.0	0.76
298.0	0.82
325.0	0.84
1407.0	1.22

Test 3	
Time (min)	Depth (m)
0.0	0.43
1.0	0.44
2.0	0.44
3.0	0.44
4.0	0.45
5.0	0.45
10.0	0.47
23.0	0.49
973.0	0.46



Max. depth (m)	1.75	1.22	1.18
Effective depth (m)	1.26	0.93	0.75
75% effective depth (m)	0.81	0.52	0.62
50% effective depth (m)	1.12	0.76	0.81
25% effective depth (m)	1.44	0.99	0.99
t75 (min)	95.00	46.00	
t50 (min)			
t25 (min)	1265.00	755.00	
Vp 75-25	0.30	0.22	0.18
ap 50	2.8896	2.2593	1.9155
tp 75-25	1170.00	709.00	0.00

Soil infiltration rate (m/s)	1.5E-06	2.3E-06	#DIV/0!
Soil infiltration rate (mm/hr)	5.40E+00	8.41E+00	#DIV/0!

Notes:

- Orange cells require input data
- Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
- First line of table must be depth at time = 0

Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

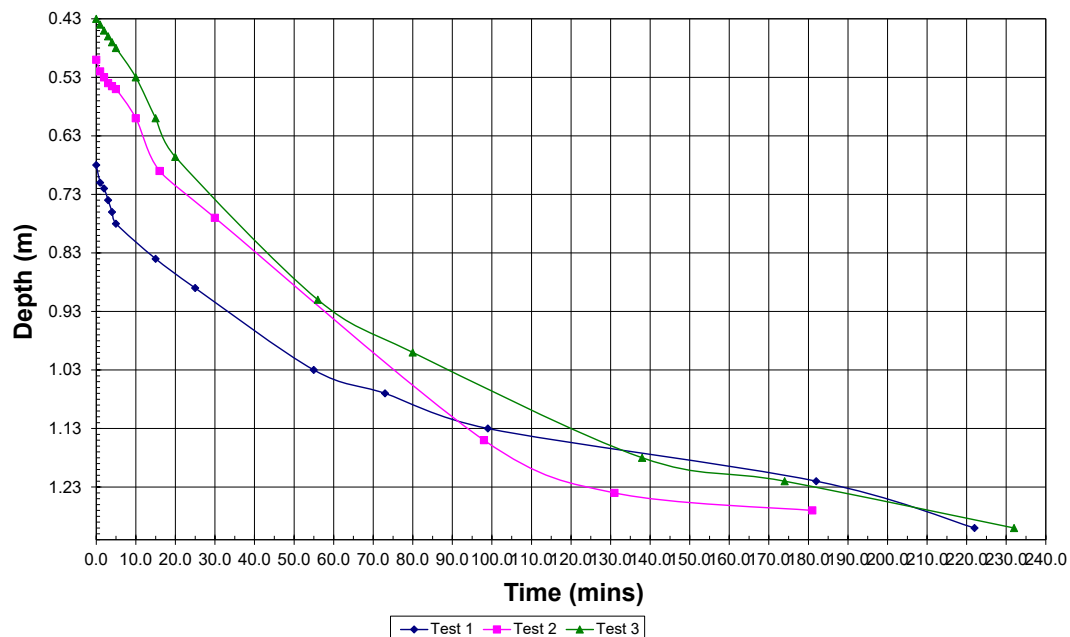
Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP12
Pit depth (m)	1.55
Pit width (m)	0.30
Pit length (m)	1.90
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.68
1.0	0.71
2.0	0.72
3.0	0.74
4.0	0.76
5.0	0.78
15.0	0.84
25.0	0.89
55.0	1.03
73.0	1.07
99.0	1.13
182.0	1.22
222.0	1.30

[illegible]

Test 3	
Time (min)	Depth (m)
0.0	0.43
1.0	0.44
2.0	0.45
3.0	0.46
4.0	0.47
5.0	0.48
10.0	0.53
15.0	0.60
20.0	0.67
56.0	0.91
80.0	1.00
138.0	1.18
174.0	1.22
232.0	1.30

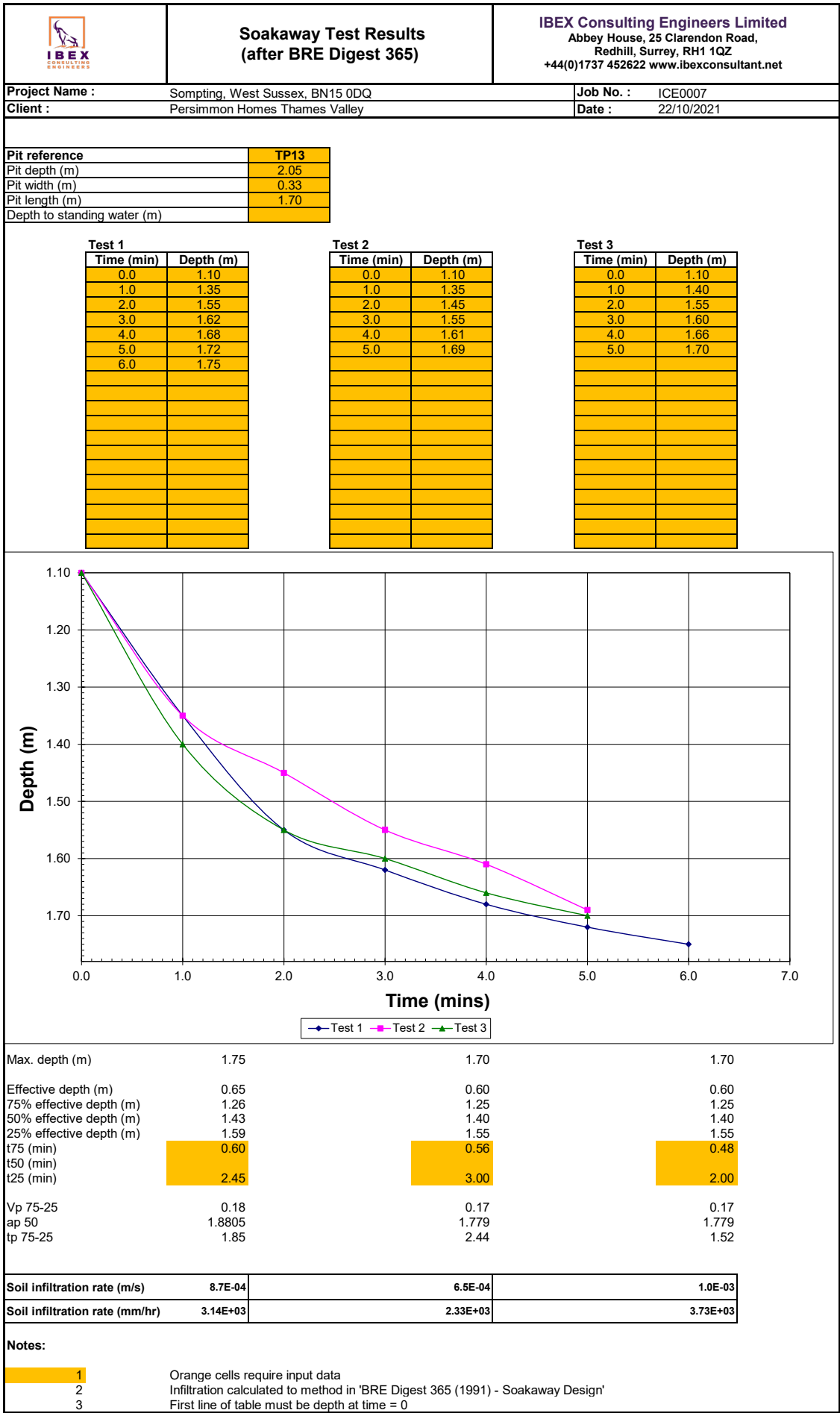


Max. depth (m)	1.38	1.30	1.30
Effective depth (m)	0.70	0.80	0.87
75% effective depth (m)	0.86	0.70	0.65
50% effective depth (m)	1.03	0.90	0.87
25% effective depth (m)	1.21	1.10	1.08
t75 (min)	19.00	16.80	18.00
t50 (min)			
t25 (min)	174.00	88.00	104.00
Vp 75-25	0.20	0.23	0.25
ap 50	2.11	2.33	2.484
tp 75-25	155.00	71.20	86.00

Soil infiltration rate (m/s)	1.0E-05	2.3E-05	1.9E-05
Soil infiltration rate (mm/hr)	3.66E+01	8.25E+01	6.96E+01

Notes:

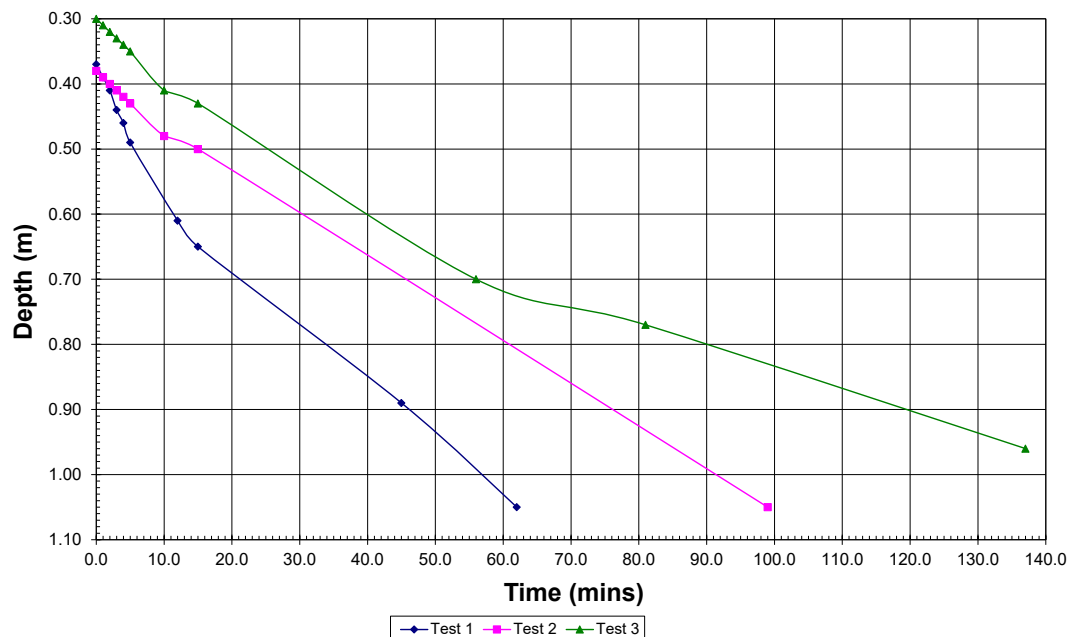
1	Orange cells require input data
2	Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design'
3	First line of table must be depth at time = 0



Project Name :	Sompting, West Sussex, BN15 0DQ
Client :	Persimmon Homes Thames Valley

Job No. :	ICE0007
Date :	22/10/2021

Pit reference	TP14
Pit depth (m)	1.05
Pit width (m)	0.30
Pit length (m)	1.78
Depth to standing water (m)	

[illegible][illegible][illegible]

Max. depth (m)	1.05	1.05	0.96
Effective depth (m)	0.68	0.67	0.66
75% effective depth (m)	0.54	0.55	0.47
50% effective depth (m)	0.71	0.72	0.63
25% effective depth (m)	0.88	0.88	0.80
t75 (min)	7.80	22.80	21.00
t50 (min)			
t25 (min)	43.80	73.00	90.00
Vp 75-25	0.18	0.18	0.18
ap 50	1.9484	1.9276	1.9068
tp 75-25	36.00	50.20	69.00

Soil infiltration rate (m/s)	4.3E-05	3.1E-05	2.2E-05
Soil infiltration rate (mm/hr)	1.55E+02	1.11E+02	8.04E+01

Notes:

- | | |
|---|--|
| 1 | Orange cells require input data |
| 2 | Infiltration calculated to method in 'BRE Digest 365 (1991) - Soakaway Design' |
| 3 | First line of table must be depth at time = 0 |

Appendix C

GPS Coordinates of the Exploratory Holes



IBEX
CONSULTING
ENGINEERS

Midland Survey Limited
Cromwell House,
Westfield Road,
Southam
CV47 0JH

P: 01926 810811
F: 01926 810812
E: utilities@midlandsurvey.co.uk
W: www.MidlandSurvey.co.uk

Client Info: IBEX
Site: LOOSE LANE, SOMPTING, BN15 0DQ
Date: OCTOBER 2021
Job: U06750

ID	EASTINGS	NORTHINGS	LEVEL
TP01	516672.861	105497.577	18.269
TP02	516601.348	105475.153	18.767
TP03	516615.973	105394.697	15.455
TP04	516703.215	105393.476	15.382
TP05	516607.103	105274.961	13.458
TP06	516673.433	105272.72	13.983
TP07	516657.499	104691.394	8.816
TP08	516650.879	104585.337	7.719
TP09	516617.127	104412.241	6.336
TP10	516536.293	104603.13	8.075
TP11	516497.994	104412.078	6.612
TP12	516425.61	104698.117	7.689
TP13	516390.046	104617.088	7.095
TP14	516350.284	104774.311	7.134
WS01	516686.444	105497.387	18.211
WS02	516609.488	105488.178	19.149
WS03	516597.951	105394.524	15.603
WS04	516684.432	105393.807	15.266
WS05	516575.067	105276.431	13.16
WS06	516689.61	105271.608	14.113
WS07	516663.647	104690.577	8.768
WS08	516646.654	104586.117	7.765
WS09	516612.825	104411.989	6.472
WS10	516543.373	104602.304	8.116
WS11	516503.068	104411.342	6.67
WS12	516435.67	104695.396	7.685
WS13	516409.551	104611.931	6.905
WS14	516366.007	104769.144	7.315