

19th March 2021

Our ref: GE19427/RG01/210319

Darren Harman
LandQuest UK (Southern) Limited

Dear Darren,



RE: Yapton Lane, Walberton – Trial Pit Soakage Testing

Geo-Environmental Services Limited (Geo-Environmental) was instructed by LandQuest UK (Southern) Limited to undertake trial pit soakage testing at the above named site.

We are pleased to present the results of the soakage testing undertaken. The soakage tests were undertaken broadly in accordance with BRE Digest 365 'Soakaway Design' BRE, with three testing cycles completed where possible.

Scope of Works

The following scope of works was agreed with the Client:

- Excavation of 7No. trial pits to a depth of between 0.6m and 1.2m bgl.
- Undertake soakage testing in general accordance with BRE365 within each of the trial pits.

The intrusive investigation was undertaken on 17th March 2021 with the works supervised by a Geo-Environmental Engineer.

Site Description

The site comprised part of an open agricultural field which was generally flat and level and planted with crops at the time of the investigation.

The site was bounded by mature trees and hedgerows and contained a single mature tree towards the southern boundary.

The area surrounding the site comprised commercial and residential properties to the north, a nursery to the south and open fields to the east and west.

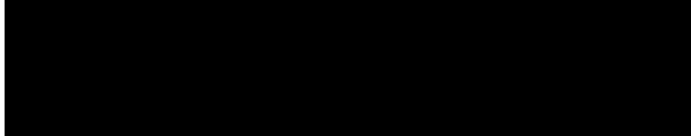
The site was accessed via a locked gate in the north east corner of the site

Ground Conditions

The ground conditions encountered during the investigation were broadly consistent with the published sequence of strata. In summary, ground conditions typically comprised a mantle of Topsoil overlying soils inferred to be of the River Terrace Deposits.

Topsoil was encountered in all locations to a depth of 0.30m bgl and typically consisted of brown slightly sandy slightly gravelly clay or silty slightly gravelly clay with frequent rootlets.

Geo-Environmental Services Ltd



9GL



Geo-Environmental Services Ltd incorporated in England number 3214980 VAT number 679544479

Soils inferred to be the River Terrace Deposits were encountered from beneath the Topsoil to depths of 1.2m bgl (maximum depth of investigation). The deposits typically comprised clay with low to moderate proportions of sand and gravel. The colouration of these deposits was typically brown, yellowish brown and cream. Clays were noted to range in consistency between soft and very stiff. Groundwater was not encountered within any trial pits.

Figure 2 presents the trial pit locations. For more a detailed description of the ground conditions, reference should be made to the exploratory hole logs enclosed in Appendix A.

Soakage Testing

The soakage testing was undertaken in general accordance with BRE Digest 365, where possible, with three filling and inundation cycles completed within two trial pits (TP1 and TP2) with an infiltration rate calculated for each test using the standard methodology contained in BRE Digest 365 'Soakaway Design'. The results of the testing undertaken in investigation locations TP1-TP7 are summarised in Table 1 below with the results presented in Appendix B.

Location	Test Number	Depth of Pit (m bgl)	Calculated infiltration rate (m/s)
TP1	1	0.63	5.3×10^{-5}
	2	0.63	4.9×10^{-5}
	3	0.63	4.0×10^{-5}
TP2	1	1.05	7.4×10^{-5}
	2	1.05	3.2×10^{-5}
	3	1.05	3.9×10^{-5}
TP3	1	0.68	1.6×10^{-5}
	2	0.68	Insufficient fall in water to complete test
	-	-	-
TP4	1	0.67	7.8×10^{-5}
	2	0.67	6.5×10^{-5}
	-	-	-
TP5	1	0.77	2.0×10^{-5}
	2	0.77	Insufficient fall in water to complete test
	-	-	-
TP6	1	0.84	Insufficient fall in water to complete test
	-	-	-
	-	-	-
TP7	1	0.83	1.2×10^{-5}
	-	-	-
	-	-	-

Table 1 Summary of Soakage Testing Results

Whilst soakage testing has been undertaken and it was possible to derive infiltration rates for many of the test cycles. Three complete cycles could only be achieved in two of the seven trial pits, with the second test cycle in several pits failing to achieve sufficient fall in water level to complete that test cycle. Additionally, it was not possible to complete the first test cycle in TP6. Where infiltration rates have been derived, the values are considered potentially uncharacteristically high for the soils encountered and thus might reflect subtle variations in composition such as sand or gravel content, soil layering or the like. It may also be possible that, if present, field drainage/land drains could have provided some level of assistance in draining water from the pits albeit that no land drains were encountered within the trial pits. It is considered potentially unrealistic to rely upon the

results of these soakage tests as characteristic of the potential for infiltration of storm water during peak storm events which could result in an overly optimistic design. As such, these results should be used with due caution.

Winter groundwater monitoring

Groundwater monitoring was commenced in November 2020 is ongoing on the site at the time of writing. From the monitoring data acquired to date, groundwater appeared to reach a seasonal shallow depth around early February 2021, with groundwater at depths as shallow as 1.05m bgl recorded in WS04. Monitoring records to date are presented in Table 2 below.

Location	Date	GWL (m bgl)
WS01	30/11/20	2.70
	14/12/20	2.45
	05/01/21	2.40
	19/01/21	2.40
	01/02/21	1.90
	15/02/21	2.25
	02/03/21	2.49
	17/03/21	2.54
WS02	30/11/20	2.80
	14/12/20	2.50
	05/01/21	2.40
	19/01/21	2.45
	01/02/21	1.63
	15/02/21	Dry at 1.70
	02/03/21	Dry at 1.70
	17/03/21	Dry at 1.70
WS03	30/11/20	Dry at 1.70
	14/12/20	Dry at 1.70
	05/01/21	Dry at 1.70
	19/01/21	Dry at 1.70
	01/02/21	1.15
	15/02/21	1.38
	02/03/21	1.63
	17/03/21	1.64
WS04	30/11/20	1.80
	14/12/20	1.50
	05/01/21	1.60
	19/01/21	1.45
	01/02/21	1.05
	15/02/21	1.35
	02/03/21	1.50
	17/03/21	1.55
WS05	30/11/20	2.25
	14/12/20	1.90
	05/01/21	1.90
	19/01/21	1.85
	01/02/21	1.61
	15/02/21	1.90
	02/03/21	2.15
	17/03/21	2.16



Location	Date	GWL (m bgl)
WS06	30/11/20	2.70
	14/12/20	1.40
	05/01/21	1.40
	19/01/21	1.35
	01/02/21	1.50
	15/02/21	1.80
	02/03/21	2.06
	17/03/21	2.05
WS07	30/11/20	2.20
	14/12/20	2.00
	05/01/21	2.00
	19/01/21	1.95
	01/02/21	2.00
	15/02/21	2.35
	02/03/21	2.60
	17/03/21	2.59

Table 2 Summary of groundwater monitoring records to date

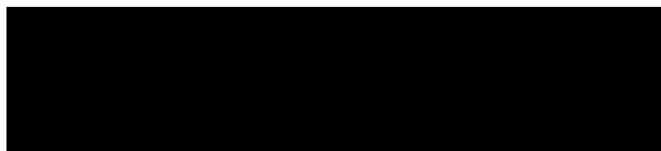
The groundwater monitoring data indicate that, in some areas of the site, there could be limited unsaturated zone into which any soakaway, or similar infiltration device could drain and this could further limit the viability and operability of soakaways on this site.

Closure

We trust we have interpreted your request correctly and provided sufficient information for your current requirements. If you have any questions or queries in relation the information provided at this stage, please do not hesitate to contact the undersigned.

Yours sincerely

For and on Behalf of Geo-Environmental

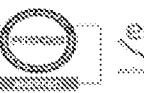
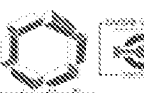


ROBERT GARDNER BSc (Hons), MSc, FGS

Consultant Engineer

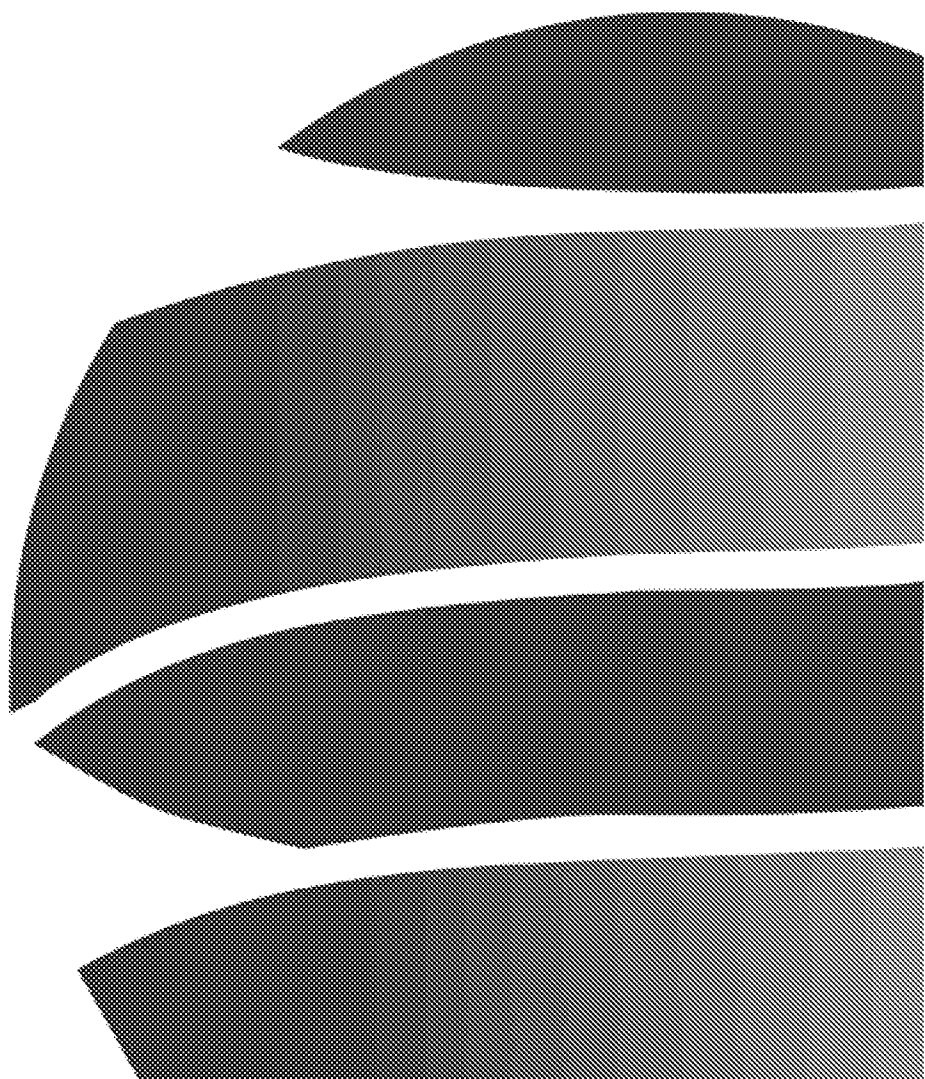


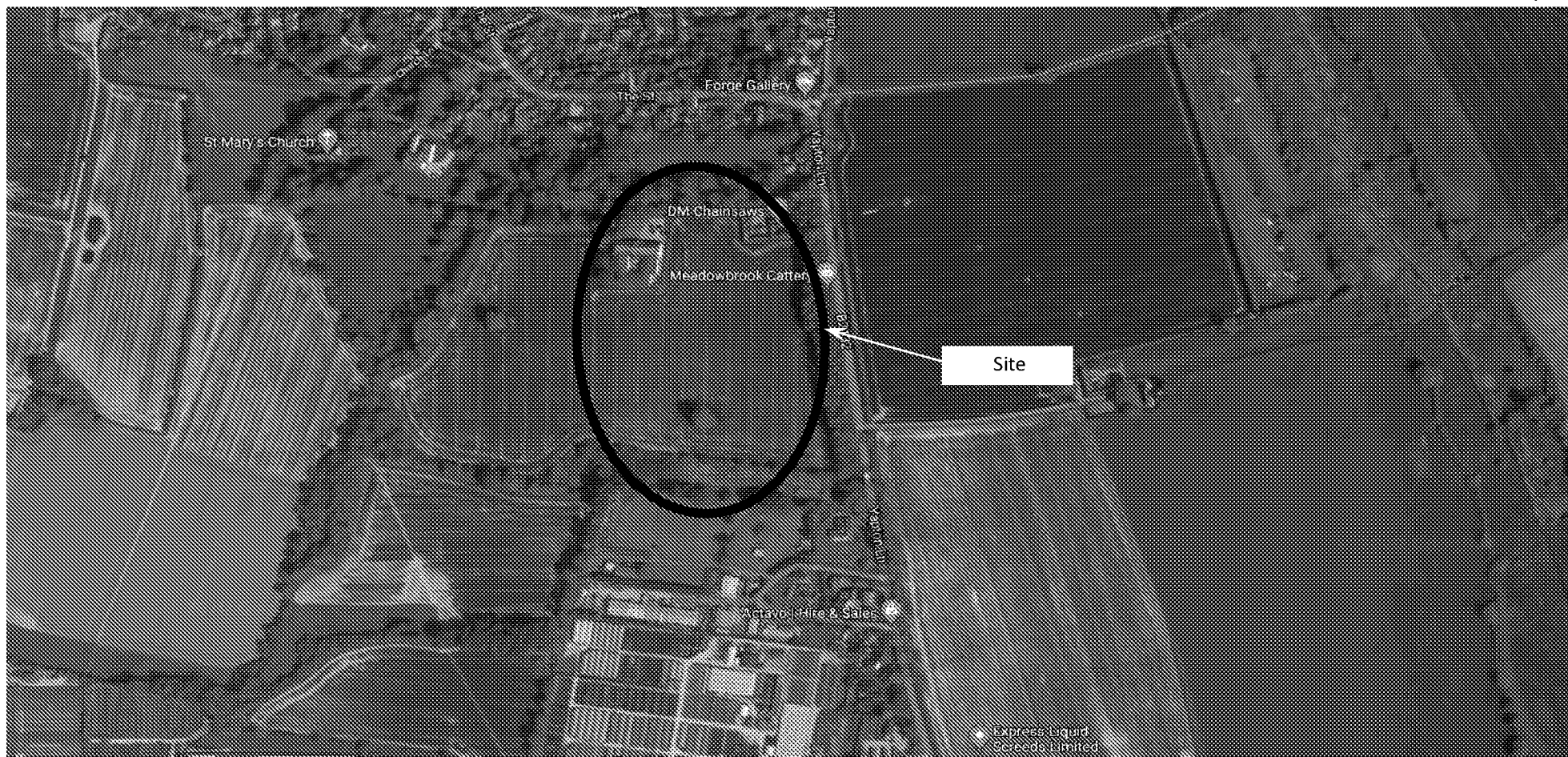
- Enc Figure 1 – Site Location Plan
 Figure 2 – Exploratory Hole Location Plan
 Appendix A – Exploratory Hole Logs
 Appendix B – Soakage Testing Results





FIGURES

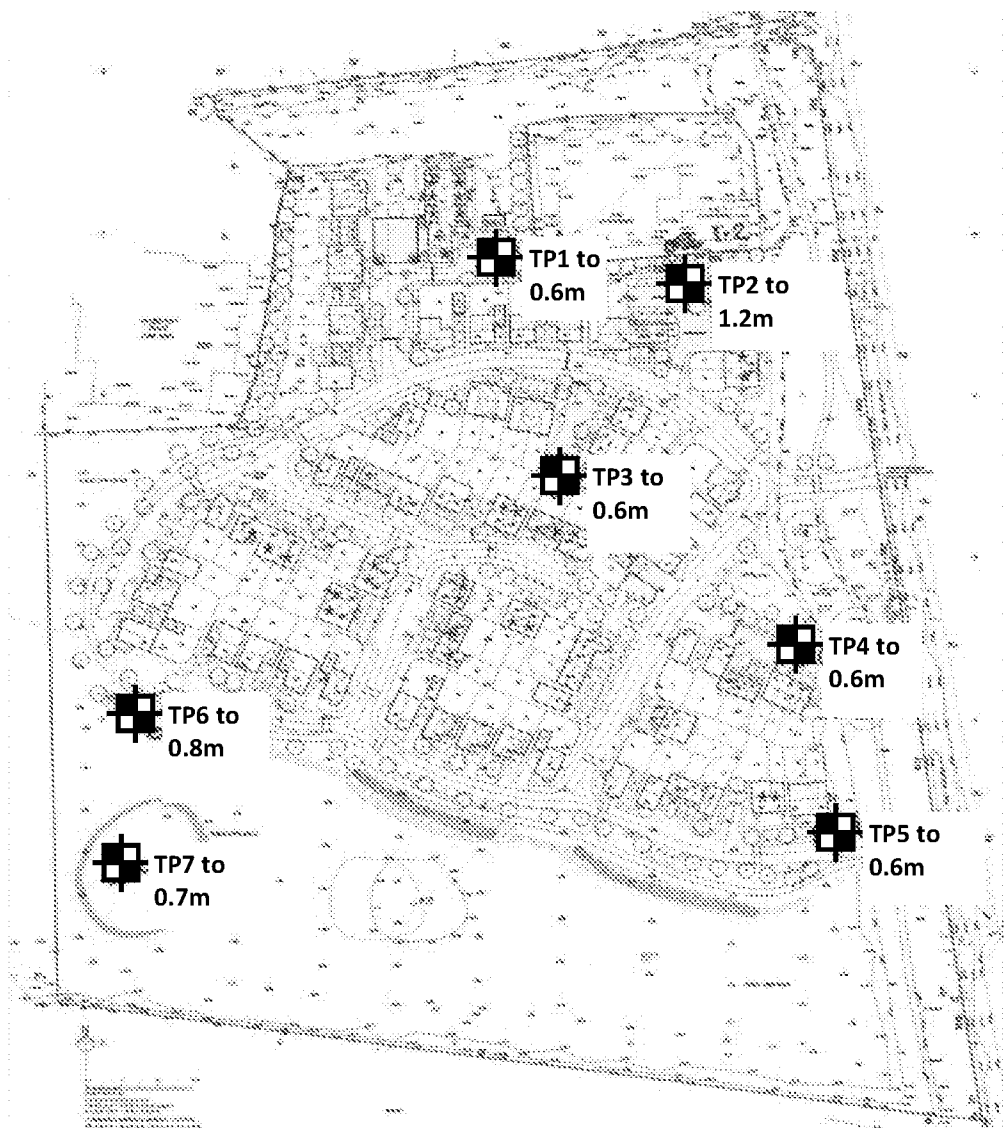




Project:	Yapton Lane, Walberton BN18 0AS			Title	Site Location (Google Image)	
Client:	LandQuest UK			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net  Geo-Environmental		
Ref No:	GE19427	Revision:	0			
Drawn:	LL	Date:	19/11/2020			
Figure:	1	Scale:	NTS			



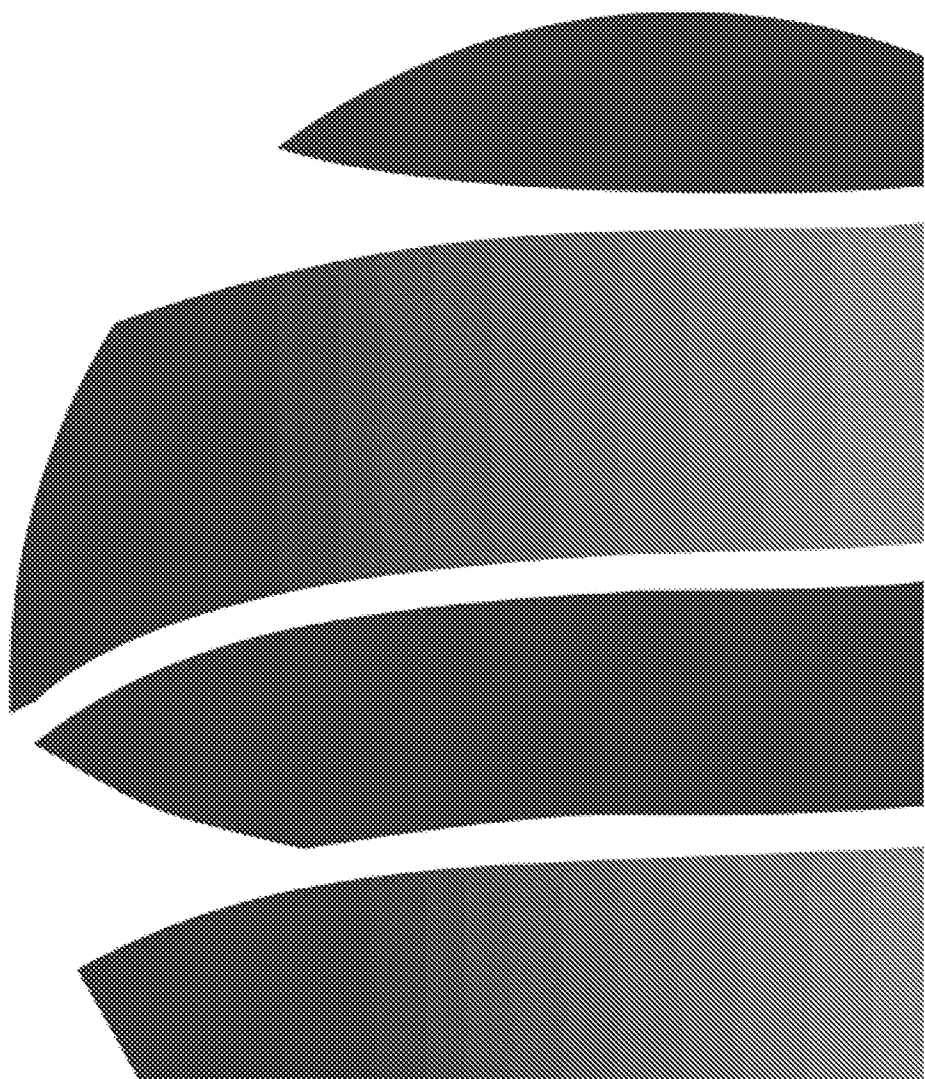
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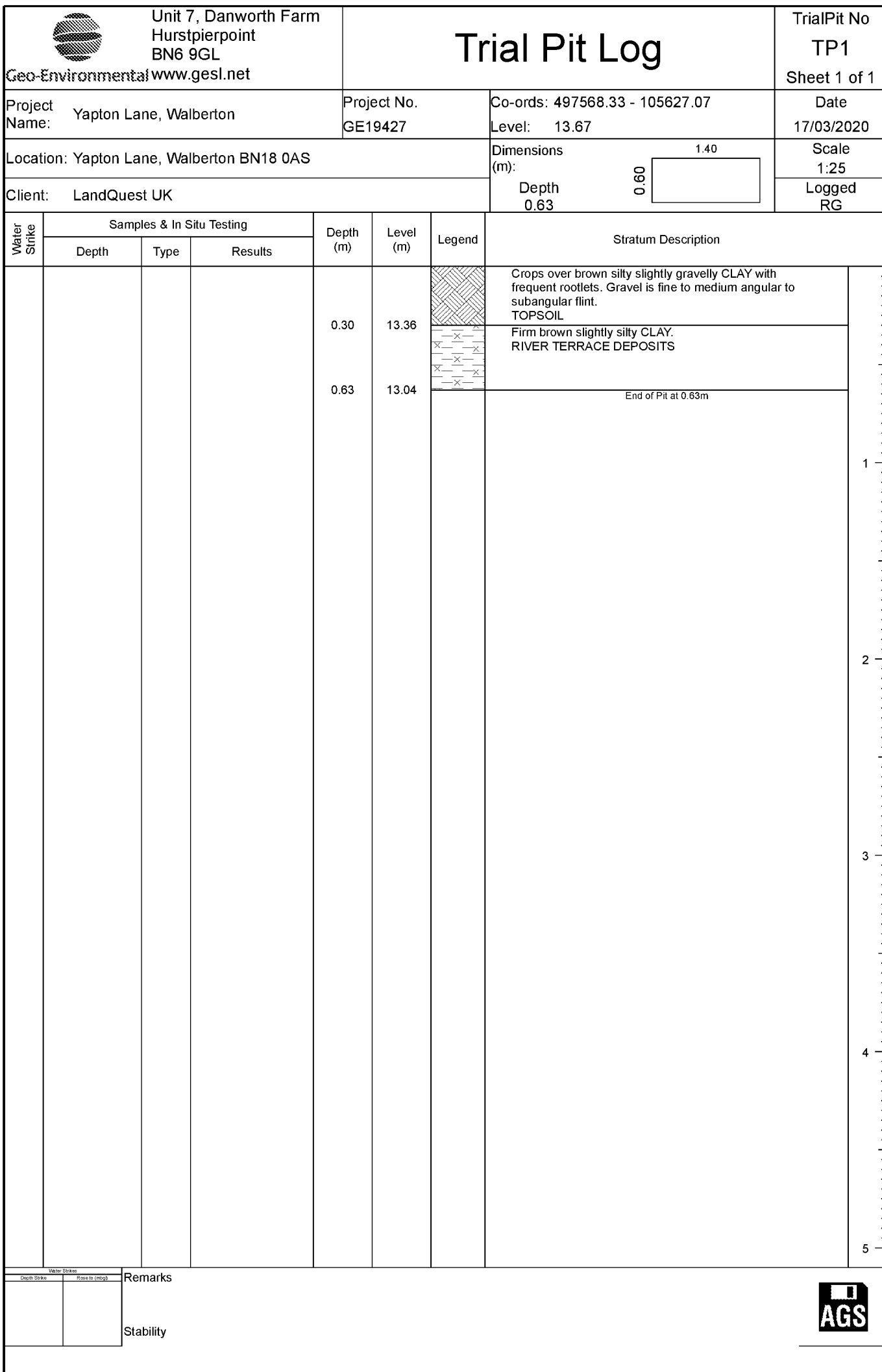


Project:	Yapton Lane, Walberton BN18 OAS			Title	Proposed Exploratory Hole Location (Soakage Testing)	
Client:	LandQuest UK			Geo-Environmental Services Ltd Unit 7 Danworth Farm, Cuckfield Road Hurstpierpoint, West Sussex BN6 9GL +44(0)1273 832972 www.gesl.net		 Geo-Environmental
Ref No:	GE19427	Revision:	0			
Drawn:	LL	Date:	16/03/2021			
Figure:	2	Scale:	NTS			



APPENDIX - I - Exploratory Hole Logs







Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

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Trial Pit Log

Trial Pit No

TP2

Sheet 1 of 1

Project Name: Yapton Lane, Walberton

Project No.
GE19427

Co-ords: 497626.49 - 105630.44
Level: 13.95

Date
17/03/2020

Location: Yapton Lane, Walberton BN18 0AS

Dimensions (m): 1.50

Depth
1.05

0.60

Scale
1:25

Logged
RG

Client: LandQuest UK

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30	13.65		Crops over brown silty slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular flint. TOPSOIL
				1.10	12.85		Firm brown slightly silty CLAY. RIVER TERRACE DEPOSITS
				1.20	12.75		Stiff brown, light brown, yellowish brown and cream silty sandy very gravelly CLAY. Sand is fmc of flint and chalk. Gravel is fmc angular to subangular flint. RIVER TERRACE DEPOSITS
							End of Pit at 1.05m

Remarks Base of trial pit partially collapsed near base to 1.05m bgl.

Stability





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP3

Sheet 1 of 1

Project Name: Yapton Lane, Walberton

Project No.
GE19427

Co-ords: 497565.16 - 105566.53
Level: 13.13

Date
17/03/2020

Location: Yapton Lane, Walberton BN18 0AS

Dimensions (m): 1.10

Depth
0.68

0.60

Scale
1:25

Logged
RG

Client: LandQuest UK

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30	12.83		Crops over brown silty slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular flint. TOPSOIL
				0.68	12.45		Stiff brown, light brown, yellowish brown and cream silty sandy very gravelly CLAY. Sand is fmc of flint and chalk. Gravel is fmc angular to subangular flint. RIVER TERRACE DEPOSITS
							End of Pit at 0.68m

Water Strike	
Depth Strike	Notes to (relog)

Remarks

Stability





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP4

Sheet 1 of 1

Project Name: Yapton Lane, Walberton

Project No.
GE19427

Co-ords: 497632.20 - 105535.16
Level:

Date
17/03/2020

Location: Yapton Lane, Walberton BN18 0AS

Dimensions (m): 1.20

Depth
0.67

0.60

Scale
1:25

Logged
RG

Client: LandQuest UK

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30			Crops over brown silty slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular flint. TOPSOIL
				0.67			Firm becoming stiff brown slightly gravelly CLAY. Gravel is fine angular to subangular flint. RIVER TERRACE DEPOSITS
							End of Pit at 0.67m

Water Strike	Remarks
Depth Strike	Notes to (re)log
	Stability





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

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Trial Pit Log

Trial Pit No

TP5

Sheet 1 of 1

Project Name: Yapton Lane, Walberton

Project No.
GE19427

Co-ords: 497631.94 - 105457.30
Level: 13.17

Date
17/03/2020

Location: Yapton Lane, Walberton BN18 0AS

Dimensions (m): 1.20

Depth
0.77

0.60

Scale
1:25

Logged
RG

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30	12.87		Crops over brown silty slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular flint. TOPSOIL
				0.77	12.40		Firm brown slightly silty CLAY. RIVER TERRACE DEPOSITS
							End of Pit at 0.77m

Depth Strike	Notes to (relog)

Remarks

Stability





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental/ www.gesl.net

Trial Pit Log

Trial Pit No

TP6

Sheet 1 of 1

Project Name: Yapton Lane, Walberton

Project No.
GE19427

Co-ords: 497470.16 - 105501.73
Level: 12.90

Date
17/03/2020

Location: Yapton Lane, Walberton BN18 0AS

Dimensions (m):

1.00

Depth
0.84

0.60

Scale
1:25

Logged
RG

Client: LandQuest UK

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30	12.60		Crops over brown silty slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular flint. TOPSOIL
				0.84	12.06		Firm becoming stiff brown slightly gravelly CLAY. Gravel is fmc angular to subangular flint. RIVER TERRACE DEPOSITS
							End of Pit at 0.84m

Depth Strike	Remarks
Water Strike	Stability





Unit 7, Danworth Farm
Hurstpierpoint
BN6 9GL

Geo-Environmental www.gesl.net

Trial Pit Log

Trial Pit No

TP7

Sheet 1 of 1

Project Name: Yapton Lane, Walberton

Project No.
GE19427

Co-ords: 497468.87 - 105452.21
Level: 12.54

Date
17/03/2020

Location: Yapton Lane, Walberton BN18 0AS

Dimensions (m): 1.30

Depth
0.83

0.60



Scale
1:25

Logged
RG

Client: LandQuest UK

Water Strike	Samples & In Situ Testing			Depth (m)	Level (m)	Legend	Stratum Description
	Depth	Type	Results				
				0.30	12.24		Crops over brown silty slightly gravelly CLAY with frequent rootlets. Gravel is fine to medium angular to subangular flint. TOPSOIL
				0.83	11.71		Firm becoming stiff brown slightly gravelly CLAY. Gravel is fine angular to subangular flint RIVER TERRACE DEPOSITS
							End of Pit at 0.83m

Water Strike	
Depth Strike	Notes to (relog)

Remarks

Stability





APPENDIX - . - Soakage Testing Results

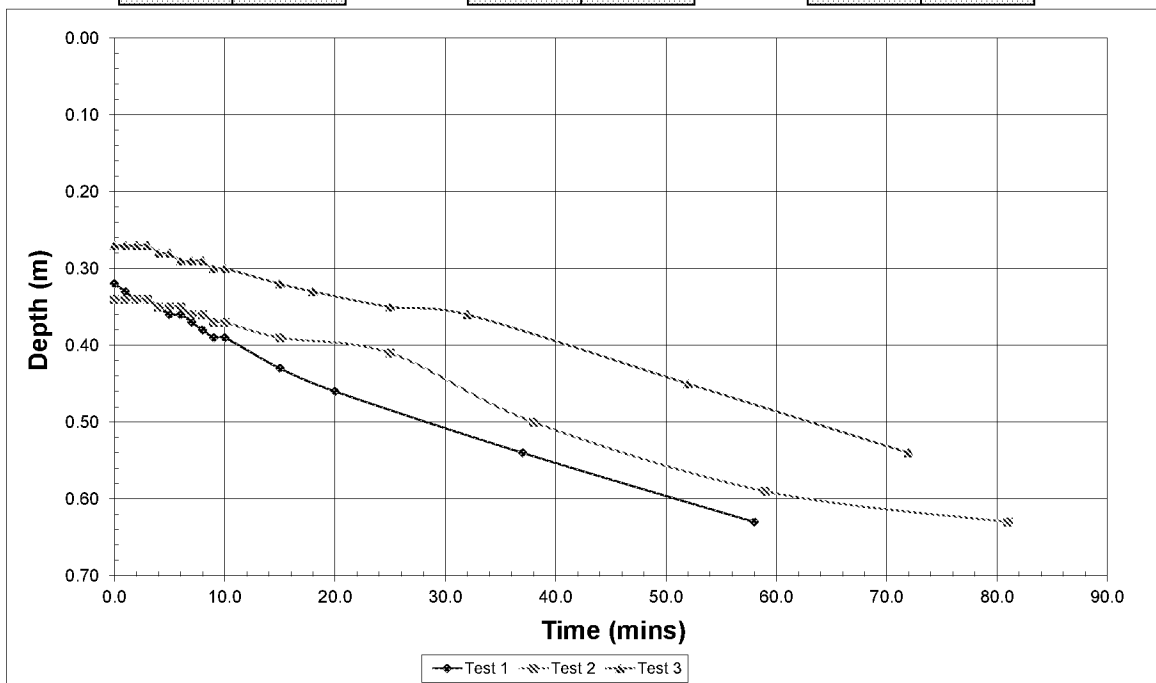
 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-Environmental Services Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL
Project Name : Yapton Lane, Walberton		Job No. : GE19427
Client : LandQuest UK		Date : 17/03/2021

Pit reference	TP1
Pit depth (m)	0.63
Pit width (m)	0.60
Pit length (m)	1.40
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.32
1.0	0.33
2.0	0.34
3.0	0.34
4.0	0.35
5.0	0.36
6.0	0.36
7.0	0.37
8.0	0.38
9.0	0.39
10.0	0.39
15.0	0.43
20.0	0.46
37.0	0.54
56.0	0.63

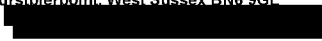
Test 2	
Time (min)	Depth (m)
0.0	0.34
1.0	0.34
2.0	0.34
3.0	0.34
4.0	0.35
5.0	0.35
6.0	0.35
7.0	0.36
8.0	0.36
9.0	0.37
10.0	0.37
15.0	0.39
25.0	0.41
38.0	0.50
59.0	0.59
81.0	0.63

Test 3	
Time (min)	Depth (m)
0.0	0.27
1.0	0.27
2.0	0.27
3.0	0.27
4.0	0.28
5.0	0.28
6.0	0.29
7.0	0.29
8.0	0.29
9.0	0.30
10.0	0.30
15.0	0.32
18.0	0.33
25.0	0.35
32.0	0.36
52.0	0.45
72.0	0.54



Max. depth (m)	0.63	0.63	0.63
Effective depth (m)	0.31	0.29	0.36
75% effective depth (m)	0.40	0.41	0.36
50% effective depth (m)	0.48	0.49	0.45
25% effective depth (m)	0.55	0.56	0.54
t75 (min)	12.00	25.00	32.00
t50 (min)	26.00	38.00	52.00
t25 (min)	40.00	54.00	72.00
Vp 75-25	0.13	0.12	0.15
ap 50	1.46	1.42	1.56
tp 75-25	28.00	29.00	40.00

Soil infiltration rate (m/s)	5.3E-05	4.9E-05	4.0E-05
Soil infiltration rate (mm/hr)	1.91E+02	1.77E+02	1.45E+02

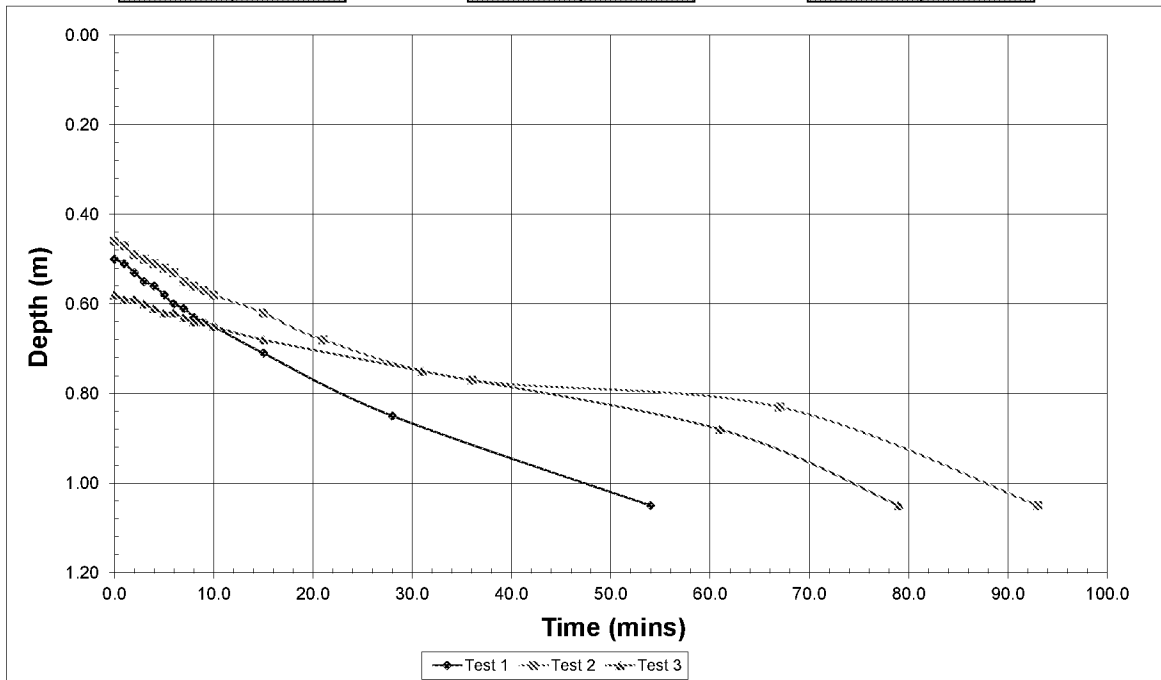
 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-Environmental Services Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL 
Project Name : Yapton Lane, Walberton Client : LandQuest UK		Job No. : GE19427 Date : 17/03/2021

Pit reference	TP2
Pit depth (m)	1.05
Pit width (m)	0.60
Pit length (m)	1.50
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.50
1.0	0.51
2.0	0.53
3.0	0.55
4.0	0.56
5.0	0.58
6.0	0.60
7.0	0.61
8.0	0.63
9.0	0.64
10.0	0.65
15.0	0.71
28.0	0.85
54.0	1.05

Test 2	
Time (min)	Depth (m)
0.0	0.46
1.0	0.47
2.0	0.49
3.0	0.50
4.0	0.51
5.0	0.52
6.0	0.53
7.0	0.55
8.0	0.56
9.0	0.57
10.0	0.58
15.0	0.62
21.0	0.68
36.0	0.77
67.0	0.83
93.0	1.05

Test 3	
Time (min)	Depth (m)
0.0	0.58
1.0	0.59
2.0	0.59
3.0	0.60
4.0	0.61
5.0	0.62
6.0	0.62
7.0	0.63
8.0	0.64
9.0	0.64
10.0	0.65
15.0	0.68
31.0	0.75
61.0	0.88
79.0	1.05



Max. depth (m)	1.05	1.05	1.05
Effective depth (m)	0.55	0.59	0.47
75% effective depth (m)	0.64	0.61	0.70
50% effective depth (m)	0.78	0.76	0.82
25% effective depth (m)	0.91	0.90	0.93
t75 (min)	9.00	15.00	20.00
t50 (min)	20.00	36.00	50.00
t25 (min)	36.00	64.00	68.00
Vp 75-25	0.25	0.27	0.21
ap 50	2.055	2.139	1.887
tp 75-25	27.00	49.00	48.00

Soil infiltration rate (m/s)	7.4E-05	4.2E-05	3.9E-05
Soil infiltration rate (mm/hr)	2.68E+02	1.52E+02	1.40E+02

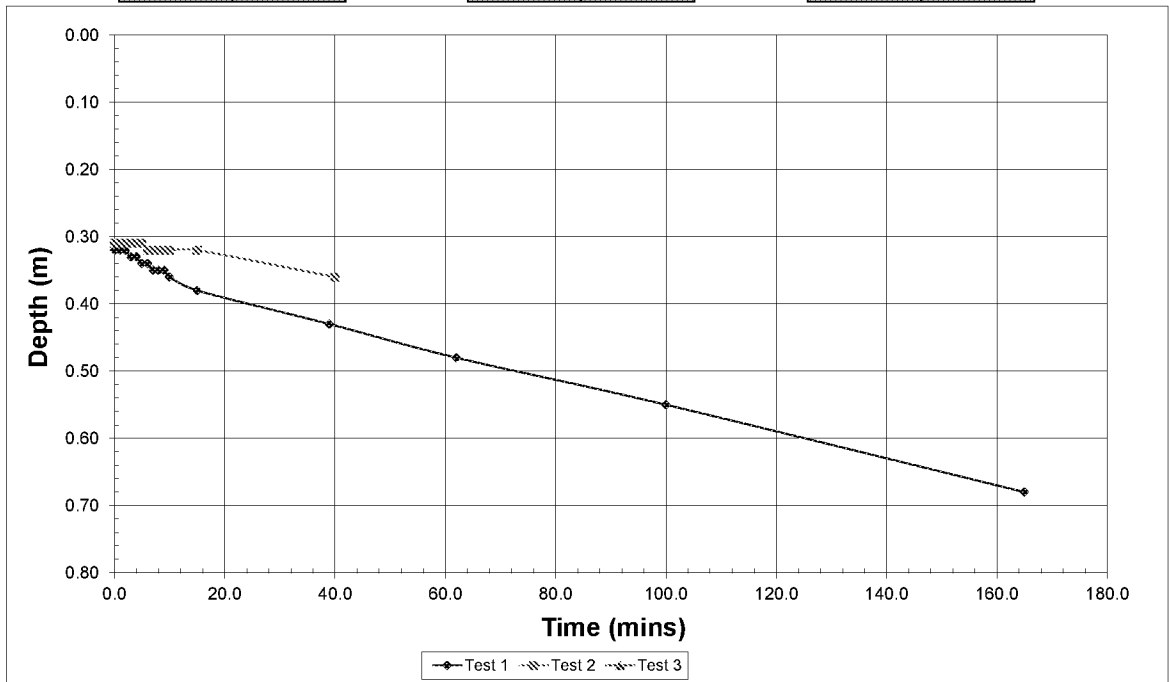
 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-Environmental Services Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL	
Project Name : Yapton Lane, Walberton		Job No. : GE19427	
Client : LandQuest UK		Date : 17/03/2021	

Pit reference	TP3
Pit depth (m)	0.68
Pit width (m)	0.60
Pit length (m)	1.10
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.32
1.0	0.32
2.0	0.32
3.0	0.33
4.0	0.33
5.0	0.34
6.0	0.34
7.0	0.35
8.0	0.35
9.0	0.35
10.0	0.36
15.0	0.38
39.0	0.43
62.0	0.48
100.0	0.55
165.0	0.68

Test 2	
Time (min)	Depth (m)
0.0	0.31
1.0	0.31
2.0	0.31
3.0	0.31
4.0	0.31
5.0	0.31
6.0	0.32
7.0	0.32
8.0	0.32
9.0	0.32
10.0	0.32
15.0	0.32
40.0	0.36

Test 3	
Time (min)	Depth (m)



Max. depth (m)	0.68	0.68	0.68
Effective depth (m)	0.36	0.37	0.68
75% effective depth (m)	0.41	0.40	0.17
50% effective depth (m)	0.50	0.50	0.34
25% effective depth (m)	0.59	0.59	0.51
t75 (min)	28.00		
t50 (min)	72.00		
t25 (min)	124.00		
Vp 75-25	0.12	0.12	0.22
ap 50	1.272	1.289	1.816
tp 75-25	96.00	0.00	0.00

Soil infiltration rate (m/s)	1.6E-05	
Soil infiltration rate (mm/hr)	5.84E+01	

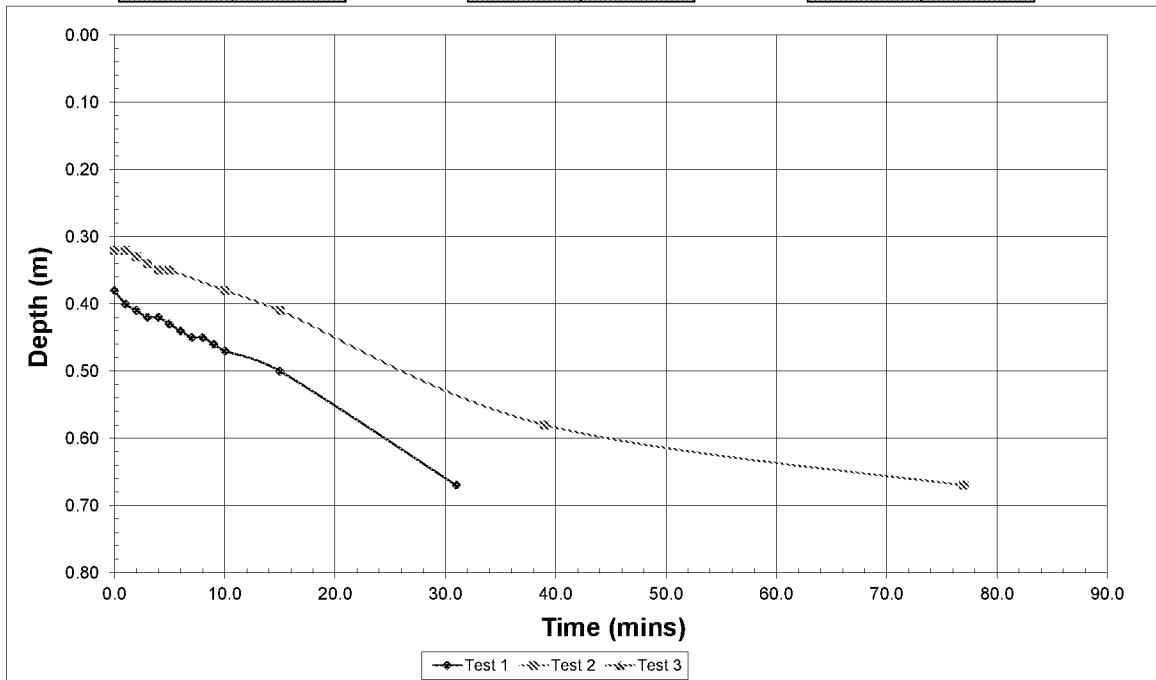
 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-Environmental Services Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL
Project Name : Yapton Lane, Walberton Client : LandQuest UK		Job No. : GE19427 Date : 17/03/2021

Pit reference	TP4
Pit depth (m)	0.67
Pit width (m)	0.60
Pit length (m)	1.20
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.38
1.0	0.40
2.0	0.41
3.0	0.42
4.0	0.42
5.0	0.43
6.0	0.44
7.0	0.45
8.0	0.45
9.0	0.46
10.0	0.47
15.0	0.50
31.0	0.67

Test 2	
Time (min)	Depth (m)
0.0	0.32
1.0	0.32
2.0	0.33
3.0	0.34
4.0	0.35
5.0	0.35
10.0	0.38
15.0	0.41
39.0	0.58
77.0	0.67

Test 3	
Time (min)	Depth (m)



Max. depth (m)	0.67	0.67	0.67
Effective depth (m)	0.29	0.35	0.67
75% effective depth (m)	0.45	0.41	0.17
50% effective depth (m)	0.53	0.50	0.34
25% effective depth (m)	0.60	0.58	0.50
t75 (min)	7.00	15.00	
t50 (min)	18.00	26.00	
t25 (min)	25.00	39.00	
Vp 75-25	0.10	0.13	0.24
ap 50	1.242	1.35	1.926
tp 75-25	18.00	24.00	0.00

Soil infiltration rate (m/s)	7.8E-05	6.5E-05	
Soil infiltration rate (mm/hr)	2.80E+02	2.33E+02	

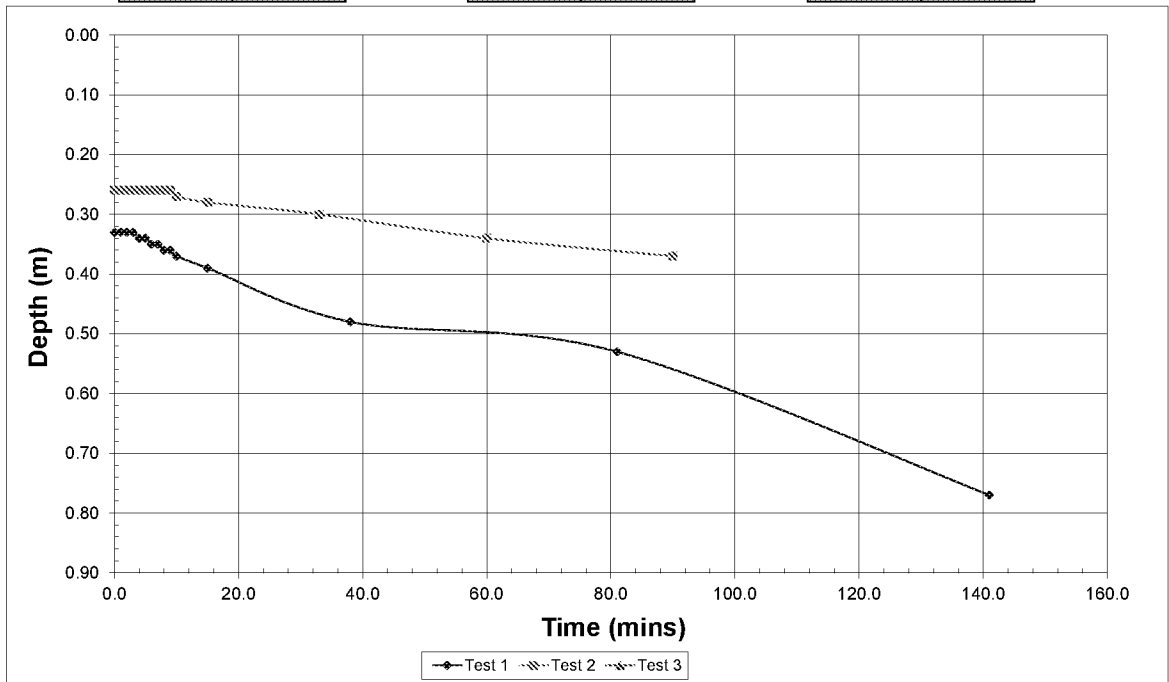
 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-Environmental Services Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL	
Project Name : Yapton Lane, Walberton		Job No. : GE19427	
Client : LandQuest UK		Date : 17/03/2021	

Pit reference	TP5
Pit depth (m)	0.77
Pit width (m)	0.60
Pit length (m)	1.20
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.33
1.0	0.33
2.0	0.33
3.0	0.33
4.0	0.34
5.0	0.34
6.0	0.35
7.0	0.35
8.0	0.36
9.0	0.36
10.0	0.37
15.0	0.39
38.0	0.48
81.0	0.53
141.0	0.77

Test 2	
Time (min)	Depth (m)
0.0	0.26
1.0	0.26
2.0	0.26
3.0	0.26
4.0	0.26
5.0	0.26
6.0	0.26
7.0	0.26
8.0	0.26
9.0	0.26
10.0	0.27
15.0	0.28
33.0	0.30
60.0	0.34
90.0	0.37

Test 3	
Time (min)	Depth (m)



Max. depth (m)	0.77	0.77	0.77
Effective depth (m)	0.44	0.51	0.77
75% effective depth (m)	0.44	0.39	0.19
50% effective depth (m)	0.55	0.52	0.39
25% effective depth (m)	0.66	0.64	0.58
t75 (min)	28.00		
t50 (min)	88.00		
t25 (min)	116.00		
Vp 75-25	0.18	0.18	0.28
ap 50	1.512	1.638	2.106
tp 75-25	88.00	0.00	0.00

Soil infiltration rate (m/s)	2.0E-05	
Soil infiltration rate (mm/hr)	7.14E+01	

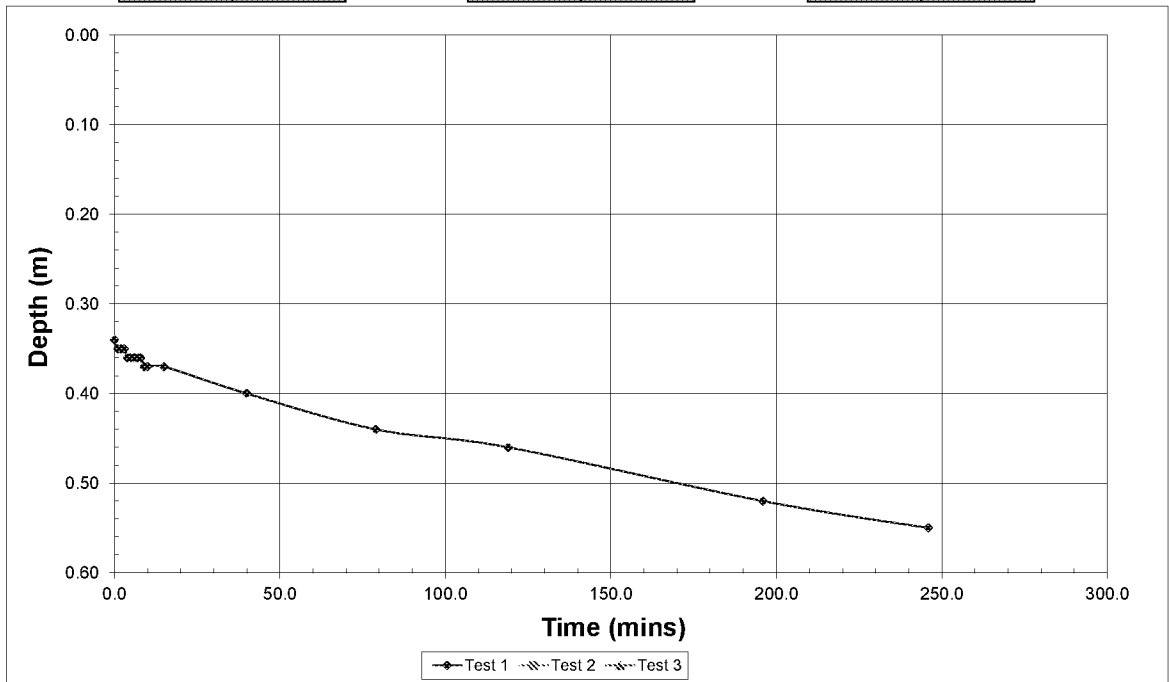
 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-Environmental Services Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL	
Project Name : Yapton Lane, Walberton		Job No. : GE19427	
Client : LandQuest UK		Date : 17/03/2021	

Pit reference	TP6
Pit depth (m)	0.84
Pit width (m)	0.60
Pit length (m)	1.00
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.34
1.0	0.35
2.0	0.35
3.0	0.35
4.0	0.36
5.0	0.36
6.0	0.36
7.0	0.36
8.0	0.36
9.0	0.37
10.0	0.37
15.0	0.37
40.0	0.40
79.0	0.44
119.0	0.46
196.0	0.52
246.0	0.55

Test 2	
Time (min)	Depth (m)

Test 3	
Time (min)	Depth (m)



Max. depth (m)	0.84	0.84	0.84
Effective depth (m)	0.50	0.84	0.84
75% effective depth (m)	0.47	0.21	0.21
50% effective depth (m)	0.59	0.42	0.42
25% effective depth (m)	0.72	0.63	0.63
t75 (min)			
t50 (min)			
t25 (min)			
Vp 75-25	0.15	0.25	0.25
ap 50	1.4	1.944	1.944
tp 75-25	0.00	0.00	0.00

Soil infiltration rate (m/s)	Insufficient fall in water to complete test	
Soil infiltration rate (mm/hr)	Insufficient fall in water to complete test	

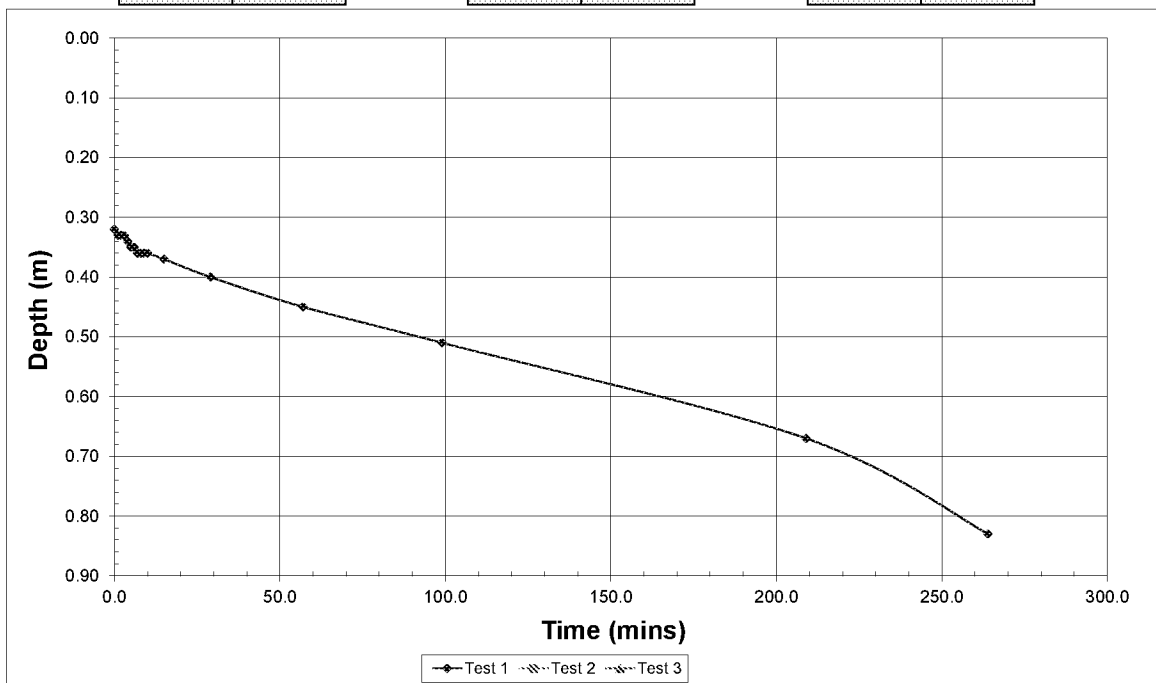
 Geo-Environmental	Soakaway Test Results (after BRE Digest 365)	Geo-Environmental Services Limited Unit 7 Danworth Farm, Cuckfield Road, Hurstpierpoint, West Sussex BN6 9GL	
		Project Name : Yapton Lane, Walberton Client : LandQuest UK	
		Job No. : GE19427 Date : 17/03/2021	

Pit reference	TP7
Pit depth (m)	0.83
Pit width (m)	0.60
Pit length (m)	1.30
Depth to standing water (m)	

Test 1	
Time (min)	Depth (m)
0.0	0.32
1.0	0.33
2.0	0.33
3.0	0.33
4.0	0.34
5.0	0.35
6.0	0.35
7.0	0.36
8.0	0.36
9.0	0.36
10.0	0.36
15.0	0.37
29.0	0.40
57.0	0.45
99.0	0.51
209.0	0.67
264.0	0.83

Test 2	
Time (min)	Depth (m)

Test 3	
Time (min)	Depth (m)



Max. depth (m)	0.83	0.83	0.83
Effective depth (m)	0.51	0.83	0.83
75% effective depth (m)	0.45	0.21	0.21
50% effective depth (m)	0.58	0.42	0.42
25% effective depth (m)	0.70	0.62	0.62
t75 (min)	57.00		
t50 (min)	152.00		
t25 (min)	220.00		
Vp 75-25	0.20	0.32	0.32
ap 50	1.749	2.357	2.357
tp 75-25	163.00	0.00	0.00

Soil infiltration rate (m/s)	1.2E-05		
Soil infiltration rate (mm/hr)	4.19E+01		