

EXPLORATORY HOLE PHOTOGRAPHS

Remarks
Machine excavated trial pit from GL to 1.50m. No groundwater encountered. 3 soakaway testing cycles in accordance with BRE365 was completed. Backfilled with arisings.

Exploratory Hole

TP112

Project	Afan Valley Adventure Resort	Easting	286425.65	Equipment	13 tonne tracked excavator
Client	Wildfox Resorts - Afan Valley	Northing	195608.89	Method	TP
Project No	G22033	Level	274.44 mAOD	Termination Reason	Terminated at scheduled depth

Sheet 1 of 2



TP112 Face A



TP112 Spoil

 EXPLORATORY HOLE PHOTOGRAPHS				Remarks Machine excavated trial pit from GL to 1.50m. No groundwater encountered. 3 soakaway testing cycles in accordance with BRE365 was completed. Backfilled with arisings.		Exploratory Hole TP112
Project	Afan Valley Adventure Resort	Easting	286425.65	Equipment	13 tonne tracked excavator	Sheet 2 of 2
Client	Wildfox Resorts - Afan Valley	Northing	195608.89	Method	TP	
Project No	G22033	Level	274.44 mAOD	Termination Reason	Terminated at scheduled depth	

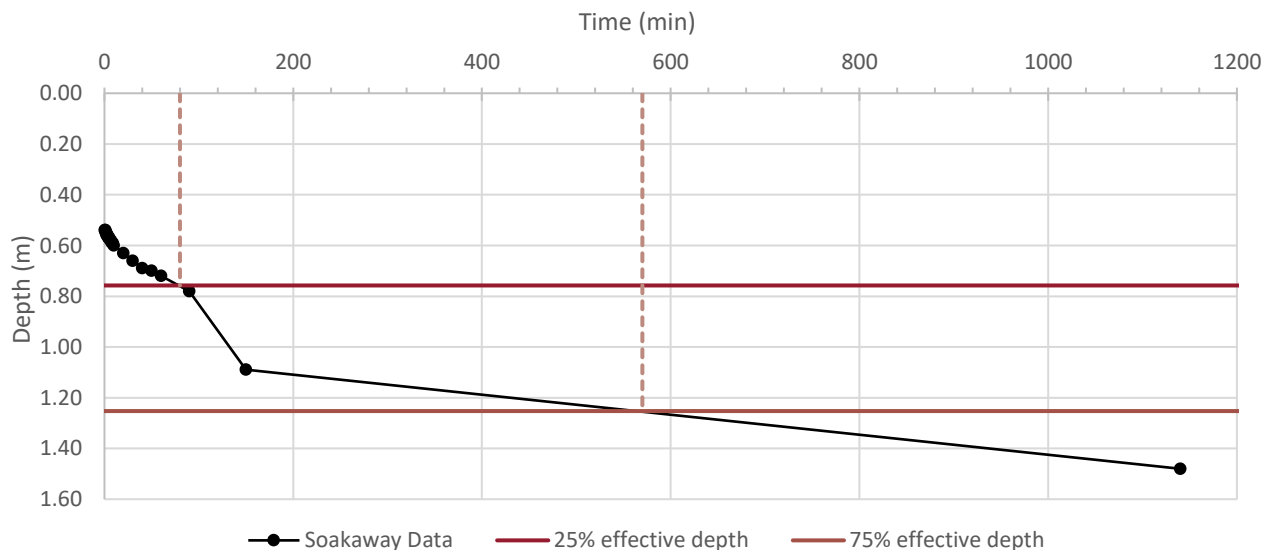


TP112 Face B



SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley			
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)	
TP112		2	286425.65	195608.89	274.44	1.50	2.90	0.60	
Test Data			Soakaway Construction Vertical sides trimmed square. No fill material.						
Time Elapsed (mins)		Water Depth (m bgl)							
0.5		0.54							
1		0.54							
1.5		0.55							
2		0.55							
2.5		0.56							
3		0.56							
3.5		0.56							
4		0.57							
4.5		0.57							
5		0.57							
6		0.58							
7		0.58							
8		0.59							
9		0.59							
10		0.60							
20		0.63							
30		0.66							
40		0.69							
50		0.70							
60		0.72							
90		0.78							
150		1.09							
1140		1.48							
Remarks									
Undertaken in accordance with BRE digest 365 (2016)									
Trial pit left open overnight, level recorded when dipped 19 hrs after start of test. Rate overnight not measured. Soakage rate calculated based on these limited datapoints and therefore conservative.									





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)	
TP112	3	286425.65	195608.89	274.44	1.50	2.90	0.60	
Test Data								
Time Elapsed (mins)	Water Depth (m bgl)							
0.5	0.58							
1	0.58							
1.5	0.58							
2	0.59							
2.5	0.59							
3	0.59							
3.5	0.59							
4	0.60							
4.5	0.60							
5	0.60							
6	0.60							
7	0.60							
8	0.60							
9	0.60							
10	0.60							
20	0.61							
30	0.63							
150	0.71							
285	0.84							
390	0.93							
1350	1.37							

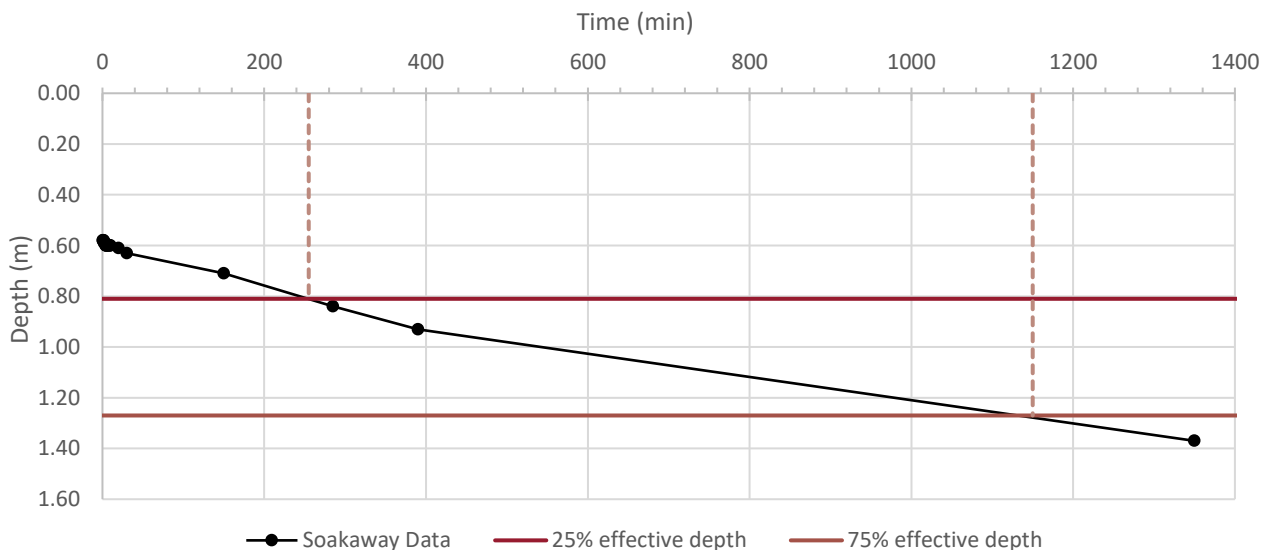
Soakaway Construction		Vertical sides trimmed square. No fill material.	
Date of Test	30/06/2022	Weather	Overcast with light drizzle
Fill Porosity		Test Duration (mins)	1350
Operative	SC	Checked by	AP

Water Depth Test Start (m)	0.58	Base base area (m²)	1.74
Water Depth Test End (m)	1.37	Pit sides area (m²)	4.35
75% effective depth (m)	0.81	Vp75-25 (m³)	0.80
50% effective depth (m)	1.04	ap50 (m²)	4.51
25% effective depth (m)	1.27		

Time water level reaches 75% effective depth (Tp75) (mins)	255
Time water level reaches 25% effective depth (Tp25) (mins)	1150

Soil Infiltration Rate (f) (m/s)	3.31E-06
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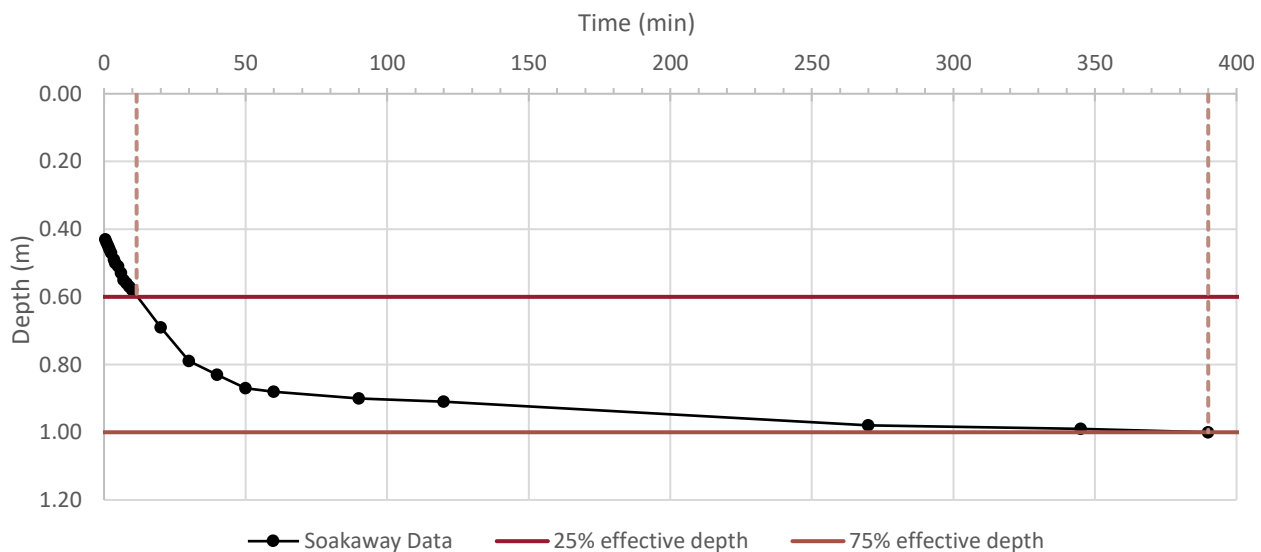
Remarks
 Undertaken in accordance with BRE digest 365 (2016)





SOIL SOAKAWAY INFILTRATION TEST

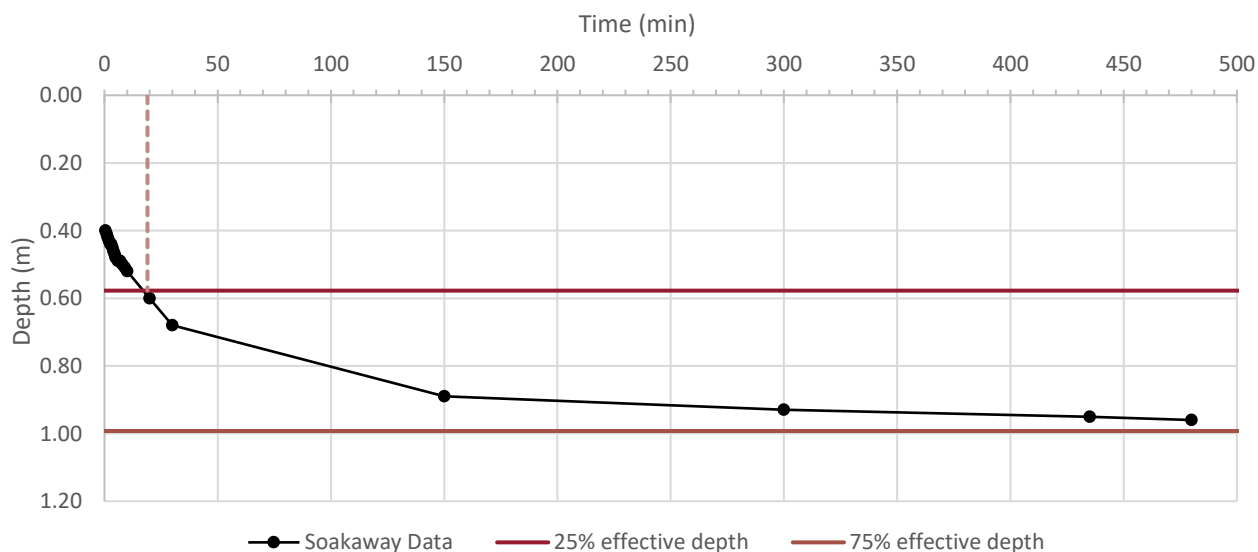
Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley				
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)		
TP101		1	285062.28	195492.52	291.51	1.20	2.90	0.90		
Test Data			Soakaway Construction		Vertical sides trimmed square. No fill material.					
Time Elapsed (mins)	Water Depth (m bgl)		Date of Test		05/07/2022	Weather		Overcast		
0.5	0.43		Fill Porosity			Test Duration (mins)		390		
1	0.44		Operative		SC	Checked by		AP		
1.5	0.45		Water Depth Test Start (m)		0.4	Base base area (m ²)		2.61		
2	0.46		Water Depth Test End (m)		1	Pit sides area (m ²)		3.48		
2.5	0.47		75% effective depth (m)		0.60	Vp75-25 (m ³)		1.04		
3.5	0.49		50% effective depth (m)		0.80	ap50 (m ²)		4.89		
4	0.50		25% effective depth (m)		1.00					
5	0.51		Time water level reaches 75% effective depth (Tp75) (mins)							11.5
6	0.53		Time water level reaches 25% effective depth (Tp25) (mins)							390
7	0.55		Soil Infiltration Rate (f) (m/s)							9.40E-06
8	0.56		Remarks							Undertaken in accordance with BRE digest 365 (2016)
9	0.57									
10	0.58									
20	0.69									
30	0.79									
40	0.83									
50	0.87									
60	0.88									
90	0.90									
120	0.91									
270	0.98									
345	0.99									
390	1.00									





SOIL SOAKAWAY INFILTRATION TEST

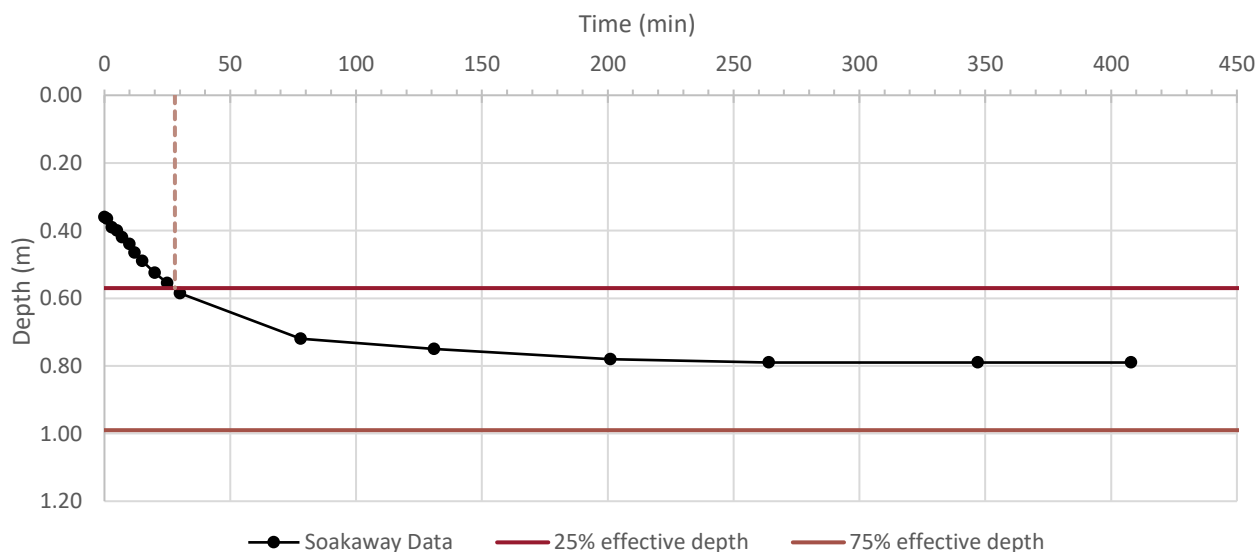
Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP101	2	285208.94	195902.59	264.21	1.20	2.90	0.90
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0.5	0.40	Date of Test		06/07/2022	Weather		Overcast
1	0.41	Fill Porosity			Test Duration (mins)		480
1.5	0.42	Operative		SC	Checked by		AP
2	0.43						
2.5	0.44	Water Depth Test Start (m)		0.37	Base base area (m ²)		2.61
3	0.44	Water Depth Test End (m)		0.96	Pit sides area (m ²)		3.48
3.5	0.45	75% effective depth (m)		0.58	Vp75-25 (m ³)		1.08
4	0.46	50% effective depth (m)		0.79	ap50 (m ²)		4.85
4.5	0.47	25% effective depth (m)		0.99			
5	0.48						
6	0.49	Time water level reaches 75% effective depth (Tp75) (mins)				19	
7	0.49	Time water level reaches 25% effective depth (Tp25) (mins)					
8	0.50						
9	0.51	Soil Infiltration Rate (f) (m/s)				Unable to determine	
10	0.52						
20	0.60						
30	0.68	Remarks					
150	0.89	Undertaken in accordance with BRE digest 365 (2016)					
300	0.93	Test terminated as site closed.					
435	0.95						
480	0.96						





SOIL SOAKAWAY INFILTRATION TEST

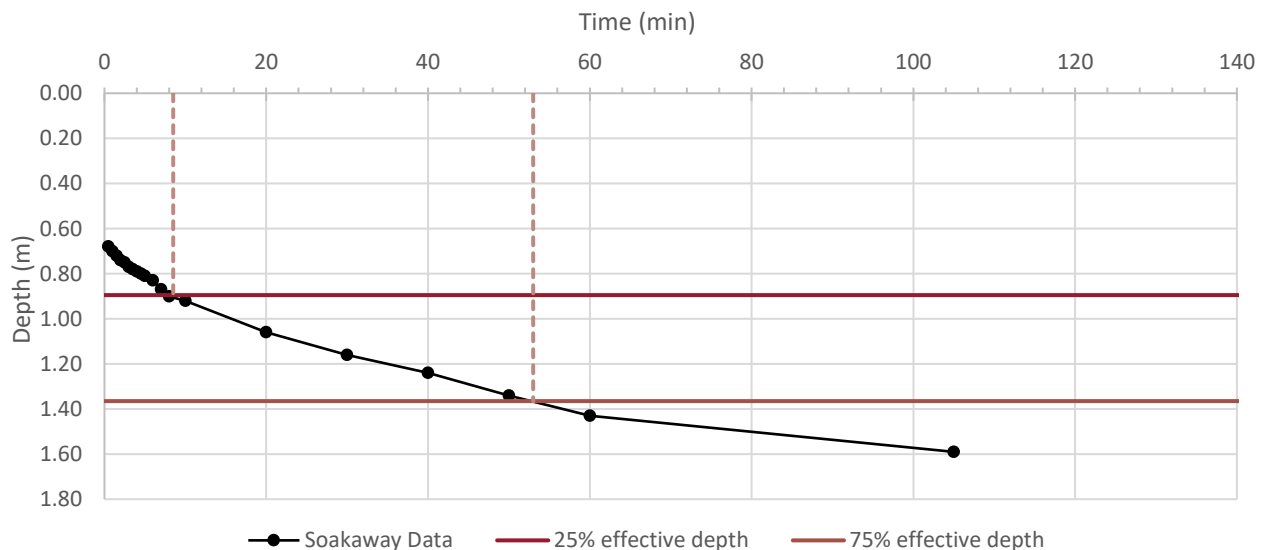
Project	Afan Valley Adventure Resort		Project No		G22033	Client	Wildfox Resorts - Afan Valley					
Exploratory Hole ID		Test No	Easting		Northing		Ground Level	Depth (m)	Length (m)	Width (m)		
TP101		3	285062.28		195492.52		291.51	1.20	2.90	0.90		
Test Data				Soakaway Construction		Vertical sides trimmed square. No fill material.						
Time Elapsed (mins)		Water Depth (m bgl)										
0		0.36		Date of Test		06/07/2022		Weather		Sunny		
1		0.365										
3		0.39		Fill Porosity				Test Duration (mins)		408		
5		0.40										
7		0.42		Operative		AF		Checked by		AP		
10		0.44										
12		0.465										
15		0.49										
20		0.525										
25		0.555										
30		0.585										
78		0.72										
131		0.75										
201		0.78										
264		0.79										
347		0.79										
408		0.79										
				Water Depth Test Start (m)		0.36	Base base area (m ²)		2.61			
				Water Depth Test End (m)		0.79	Pit sides area (m ²)		3.48			
				75% effective depth (m)		0.57	Vp75-25 (m ³)		1.10			
				50% effective depth (m)		0.78	ap50 (m ²)		4.24			
				25% effective depth (m)		0.99						





SOIL SOAKAWAY INFILTRATION TEST

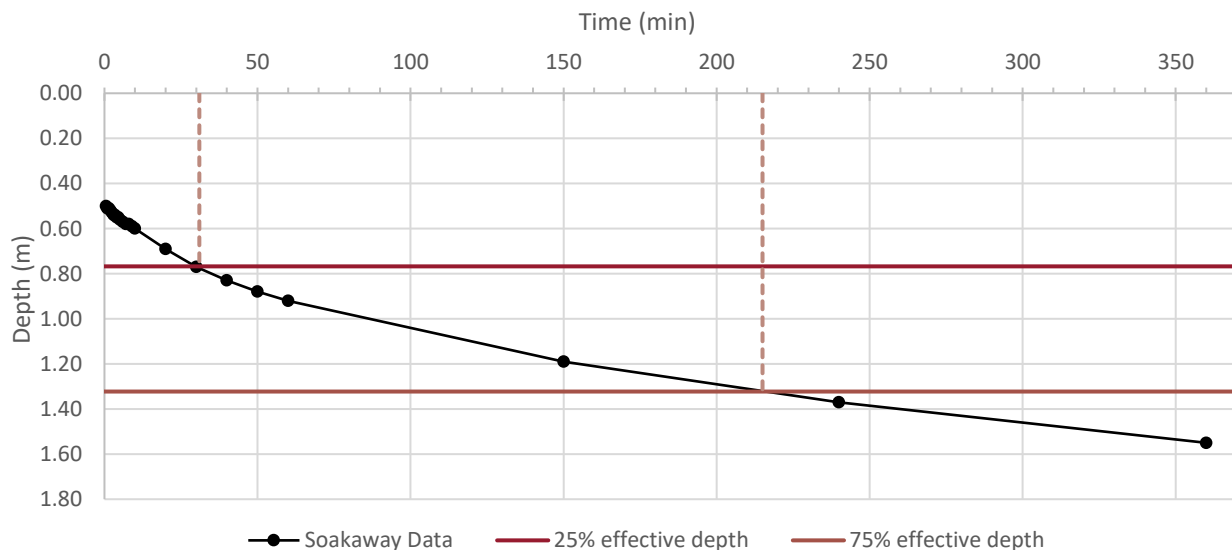
Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP102	1	285209.22	195905.85	263.93	1.60	2.80	0.70
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0.5	0.68	Date of Test		04/07/2022	Weather		Overcast
1	0.70	Fill Porosity			Test Duration (mins)		105
1.5	0.72	Operative		SC	Checked by		AP
2	0.74	Water Depth Test Start (m)					
2.5	0.75	0.66		Base base area (m ²)		1.96	
3	0.77	Water Depth Test End (m)		1.59		Pit sides area (m ²)	
3.5	0.78	75% effective depth (m)		0.90		Vp75-25 (m ³)	
4	0.79	50% effective depth (m)		1.13		ap50 (m ²)	
4.5	0.80	25% effective depth (m)		1.37		5.22	
5	0.81	Time water level reaches 75% effective depth (Tp75) (mins)					
6	0.83	8.5					
7	0.87	Time water level reaches 25% effective depth (Tp25) (mins)					
8	0.90	53					
10	0.92	Soil Infiltration Rate (f) (m/s)					
20	1.06	6.62E-05					
30	1.16	Remarks					
40	1.24	Undertaken in accordance with BRE digest 365 (2016)					
50	1.34						
60	1.43						
105	1.59						





SOIL SOAKAWAY INFILTRATION TEST

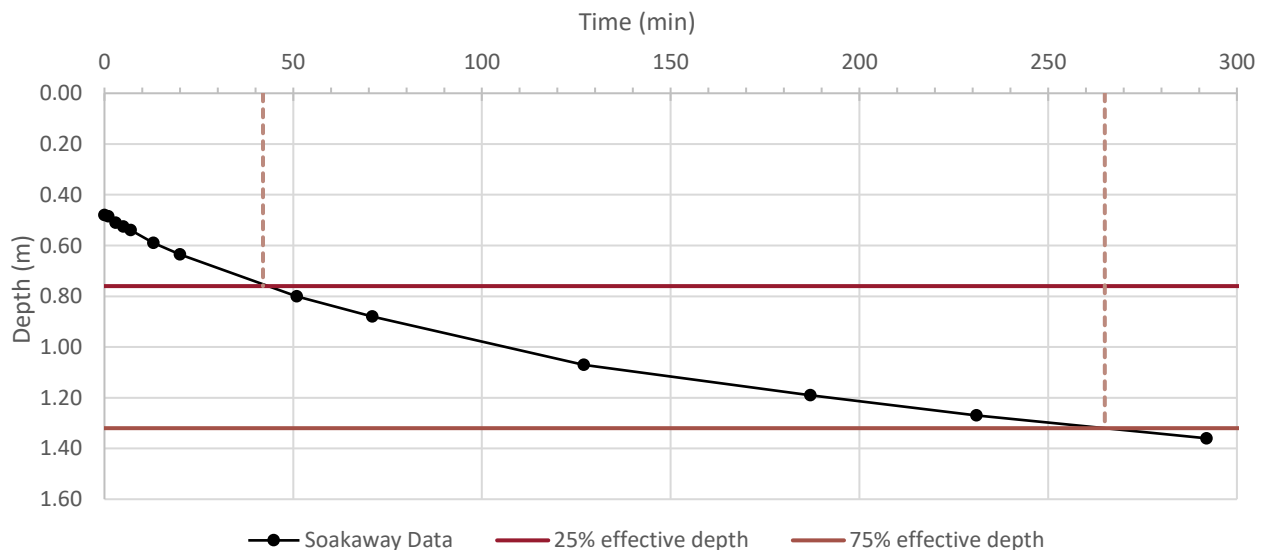
Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley				
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)		
TP102		2	285208.94	195902.59	264.21	1.60	2.80	0.70		
Test Data			Soakaway Construction	Vertical sides trimmed square. No fill material.						
Time Elapsed (mins)		Water Depth (m bgl)								
0.5		0.50								
1		0.51								
1.5		0.51								
2		0.52								
2.5		0.53								
3		0.54								
3.5		0.54								
4		0.55								
4.5		0.55								
5		0.56								
6		0.57								
7		0.58								
8		0.58								
9		0.59								
10		0.60								
20		0.69								
30		0.77								
40		0.83								
50		0.88								
60		0.92								
150		1.19								
240		1.37								
360		1.55								
				Date of Test		05/07/2022	Weather		Overcast with sunny spells	
				Fill Porosity			Test Duration (mins)		360	
				Operative		SC	Checked by		AP	
				Water Depth Test Start (m)		0.49	Base base area (m ²)		1.96	
				Water Depth Test End (m)		1.55	Pit sides area (m ²)		4.48	
				75% effective depth (m)		0.77	Vp75-25 (m ³)		1.09	
				50% effective depth (m)		1.05	ap50 (m ²)		5.67	
				25% effective depth (m)		1.32				
				Time water level reaches 75% effective depth (Tp75) (mins)					31	
				Time water level reaches 25% effective depth (Tp25) (mins)					215	
				Soil Infiltration Rate (f) (m/s)						1.74E-05
				Remarks						
				Undertaken in accordance with BRE digest 365 (2016)						





SOIL SOAKAWAY INFILTRATION TEST

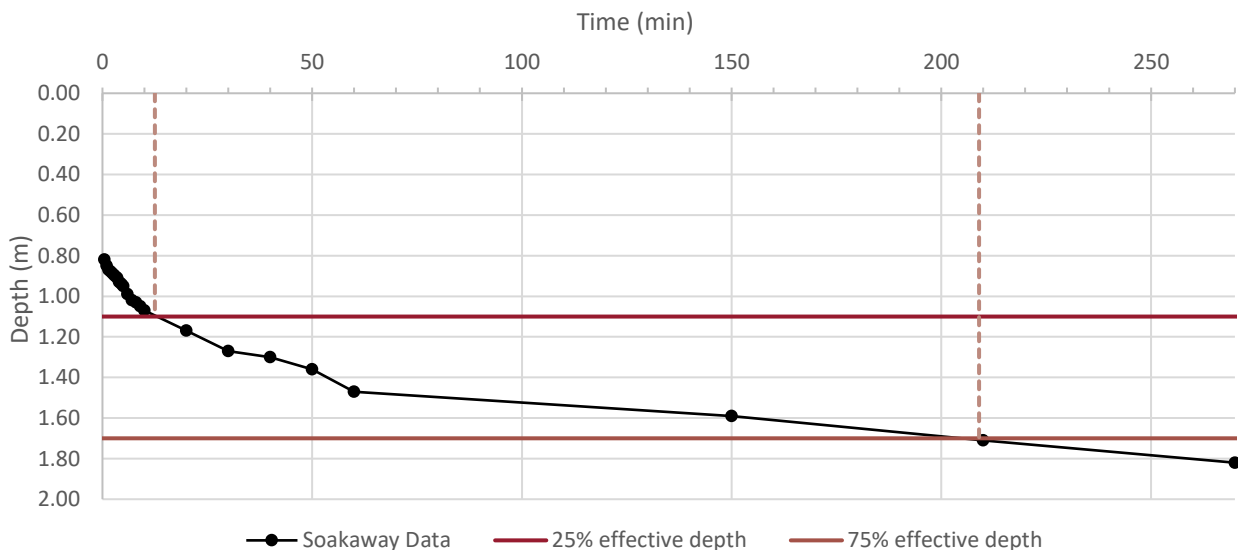
Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP102	3	285208.94	195902.59	264.21	1.60	2.80	0.70
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0	0.48	Date of Test		07/06/2022	Weather		Sunny
1	0.485	Fill Porosity			Test Duration (mins)		292
3	0.51	Operative		AF	Checked by		AP
5	0.525	Water Depth Test Start (m)					
7	0.54	0.48		Base base area (m ²)		1.96	
13	0.59	1.36		Pit sides area (m ²)		4.48	
20	0.635	0.76		Vp75-25 (m ³)		1.10	
51	0.8	1.04		ap50 (m ²)		5.04	
71	0.88	1.32					
127	1.07	Time water level reaches 75% effective depth (Tp75) (mins)					
187	1.19	42					
231	1.27	Time water level reaches 25% effective depth (Tp25) (mins)					
292	1.36	265					
		Soil Infiltration Rate (f) (m/s)				1.63E-05	
		Remarks					
		Undertaken in accordance with BRE digest 365 (2016)					





SOIL SOAKAWAY INFILTRATION TEST

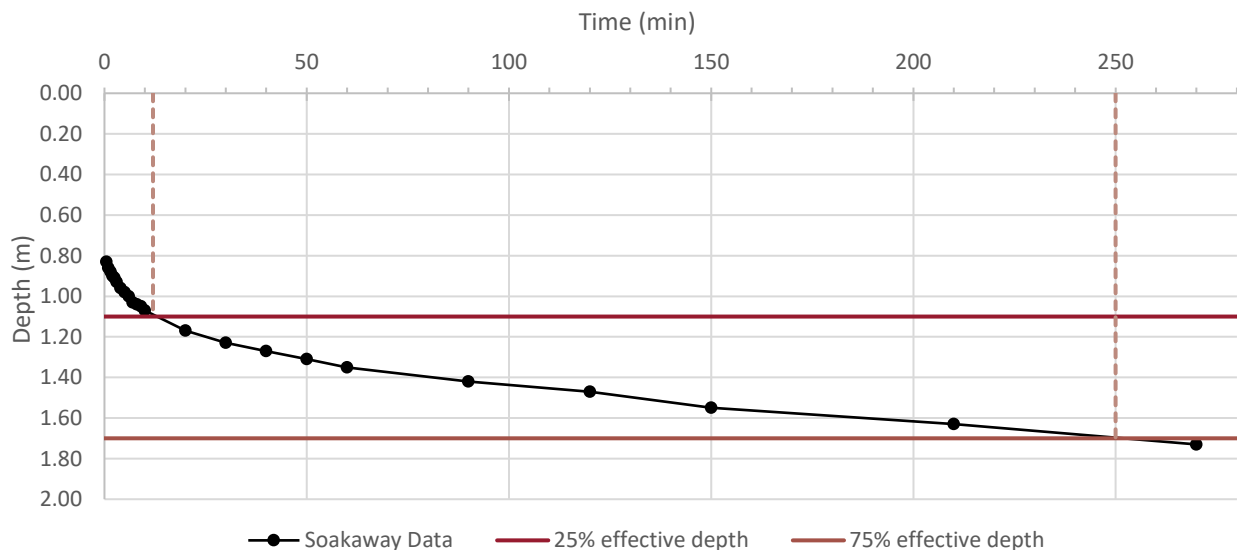
Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley							
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)					
TP103		1	285324.76	195859.75	270.01	2.00	2.40	0.60					
Test Data				Soakaway Construction					Vertical sides trimmed square. No fill material.				
Time Elapsed (mins)		Water Depth (m bgl)											
0.5		0.82											
1		0.85											
1.5		0.87											
2		0.88											
2.5		0.89											
3		0.90											
3.5		0.91											
4		0.93											
4.5		0.94											
5		0.95											
6		0.99											
7		1.02											
8		1.03											
9		1.05											
10		1.07											
20		1.17											
30		1.27											
40		1.30											
50		1.36											
60		1.47											
150		1.59											
210		1.71											
270		1.82											





SOIL SOAKAWAY INFILTRATION TEST

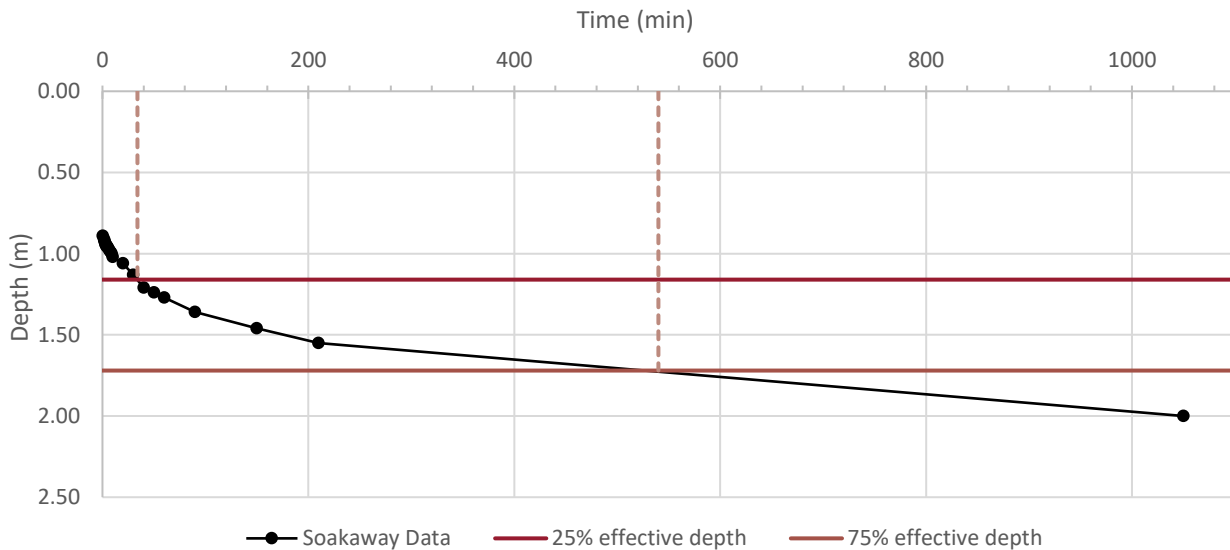
Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP103		2	285324.76	195859.75	270.01	2.00	2.40	0.60
Test Data			Soakaway Construction		Vertical sides trimmed square. No fill material.			
Time Elapsed (mins)	Water Depth (m bgl)							
0.5	0.83		Date of Test		04/07/2022	Weather		Overcast
1	0.86		Fill Porosity			Test Duration (mins)		210
1.5	0.88		Operative		SC	Checked by		AP
2	0.90							
2.5	0.91		Water Depth Test Start (m)		0.8	Base base area (m ²)		1.44
3	0.93		Water Depth Test End (m)		1.63	Pit sides area (m ²)		4.8
4	0.96		75% effective depth (m)		1.10	Vp75-25 (m ³)		0.864
5	0.98		50% effective depth (m)		1.40	ap50 (m ²)		3.93
6	1.00		25% effective depth (m)		1.70			
7	1.03							
8	1.04							
9	1.05							
10	1.07							
20	1.17							
30	1.23							
40	1.27							
50	1.31							
60	1.35							
90	1.42							
120	1.47							
150	1.55							
210	1.63							
270	1.73							
				Time water level reaches 75% effective depth (Tp75) (mins)		12		
				Time water level reaches 25% effective depth (Tp25) (mins)		250		
				Soil Infiltration Rate (f) (m/s)		1.54E-05		





SOIL SOAKAWAY INFILTRATION TEST

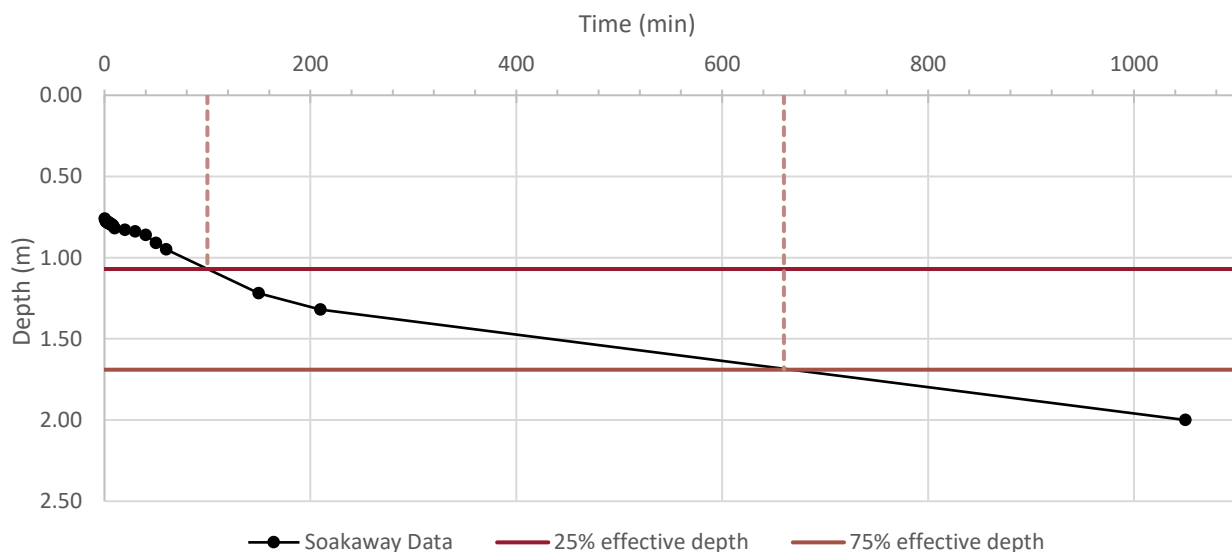
Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley			
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)	
TP103		3	285324.76	195859.75	270.01	2.00	2.40	0.60	
Test Data			Soakaway Construction	Vertical sides trimmed square. No fill material.					
Time Elapsed (mins)		Water Depth (m bgl)							
0.5		0.89							
1.5		0.91							
2		0.92		Date of Test		04/07/2022	Weather		
2.5		0.93		Fill Porosity		Test Duration (mins)		210	
3		0.94		Operative		SC	Checked by		
3.5		0.95				AP			
4		0.95		Water Depth Test Start (m)					0.88
4.5		0.96		Water Depth Test End (m)					1.55
5		0.96		75% effective depth (m)					1.16
6		0.97		50% effective depth (m)					1.44
7		0.98		25% effective depth (m)					1.72
8		0.99							
9		1.00		Time water level reaches 75% effective depth (Tp75) (mins)					34
10		1.02		Time water level reaches 25% effective depth (Tp25) (mins)					540
20		1.06							
30		1.13							
40		1.21							
50		1.24							
60		1.27							
90		1.36							
150		1.46							
210		1.55							
1050		2.00							
Remarks									
Undertaken in accordance with BRE digest 365 (2016)									
Engineer stayed 1hr after site closed to monitor. Test left to run overnight and dry in morning. 75% depth is estimated.									





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP104		1	285438.97	195683.65	286.35	2.00	2.80	0.80
Test Data		Soakaway Construction Vertical sides trimmed square. No fill material.	Date of Test		05/07/2022	Weather		Overcast
Time Elapsed (mins)			Fill Porosity			Test Duration (mins)		210
0.5			Operative		SC	Checked by		AP
1			Water Depth Test Start (m)		0.76	Base base area (m ²)		2.24
1.5			Water Depth Test End (m)		1.32	Pit sides area (m ²)		5.6
2			75% effective depth (m)		1.07	Vp75-25 (m ³)		1.39
2.5			50% effective depth (m)		1.38	ap50 (m ²)		4.26
3			25% effective depth (m)		1.69			
3.5			Time water level reaches 75% effective depth (Tp75) (mins)		100			
4			Time water level reaches 25% effective depth (Tp25) (mins)		660			
4.5								
5								
6								
7								
8								
9								
10								
20								
30								
40								
50								
60								
150								
210								
1050								
Remarks								
Undertaken in accordance with BRE digest 365 (2016)								
Test terminated as site closed. Engineer stayed 45 mins after site closed. Test left to run overnight and dry in morning. 75% depth is estimated.								





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP104	2	285438.97	195683.65	286.35	2.00	2.80	0.80
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0.5	0.58	Date of Test		06/07/2022	Weather		Overcast
1	0.59	Fill Porosity			Test Duration (mins)		360
1.5	0.60	Operative		SC	Checked by		AP
2	0.60	Water Depth Test Start (m)					
2.5	0.60	0.57		Base base area (m ²)		2.24	
3	0.60	Water Depth Test End (m)		1.37		Pit sides area (m ²)	
3.5	0.61	75% effective depth (m)		0.93		Vp75-25 (m ³)	
4	0.61	50% effective depth (m)		1.29		ap50 (m ²)	
4.5	0.61	25% effective depth (m)		1.64		5.12	
5	0.61	Time water level reaches 75% effective depth (Tp75) (mins)					
6	0.62	125					
7	0.62	Time water level reaches 25% effective depth (Tp25) (mins)					
8	0.62	760					
9	0.63	Soil Infiltration Rate (f) (m/s)					
10	0.63	8.21E-06					
20	0.66	Remarks					
30	0.69	Undertaken in accordance with BRE digest 365 (2016)					
90	0.86	Test left to run overnight and dry in morning. 75% depth is estimated.					
240	1.19						
360	1.37						
1260	2.00						

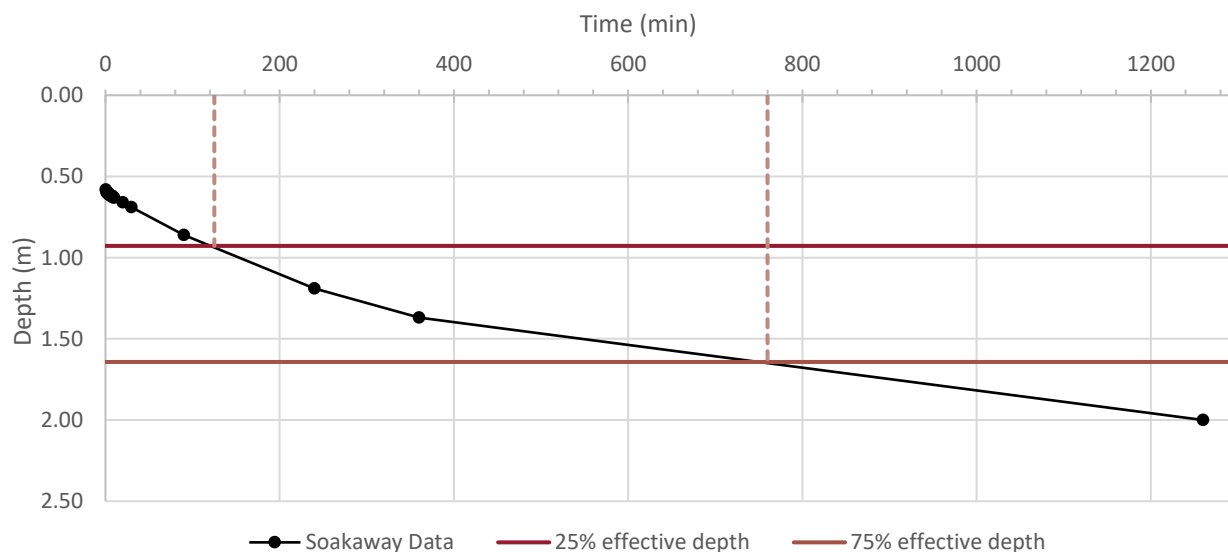




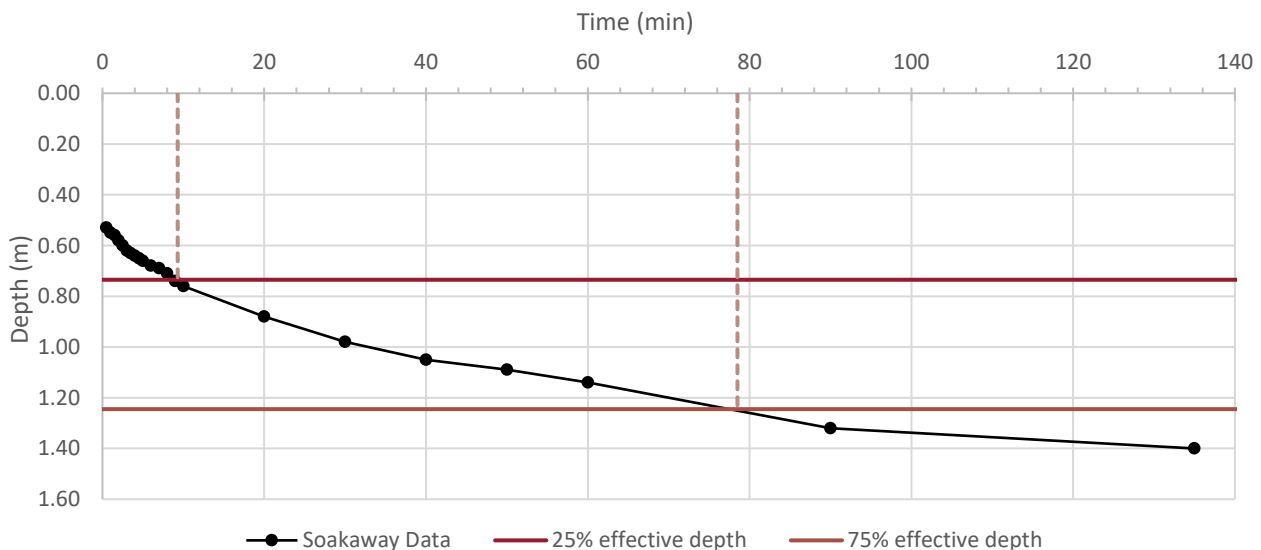
Figure 10 is a line graph showing the relationship between Depth (m) and Time (min) for the soakaway. The y-axis represents Depth (m) from 0.00 to 2.50, and the x-axis represents Time (min) from 0 to 1200. The graph includes three data series: Soakaway Data (black line with dots), 25% effective depth (dark red horizontal line), and 75% effective depth (brown horizontal line). Vertical dashed lines indicate the time to reach these depths: approximately 220 min for 25% and 850 min for 75%.

Time (min)	Depth (m) - Soakaway Data	25% effective depth (m)	75% effective depth (m)
0	0.80	1.10	1.70
100	0.85	1.10	1.70
200	0.95	1.10	1.70
220	1.10	1.10	1.70
300	1.20	1.10	1.70
400	1.30	1.10	1.70
850	1.70	1.10	1.70
1200	2.00	1.10	1.70



SOIL SOAKAWAY INFILTRATION TEST

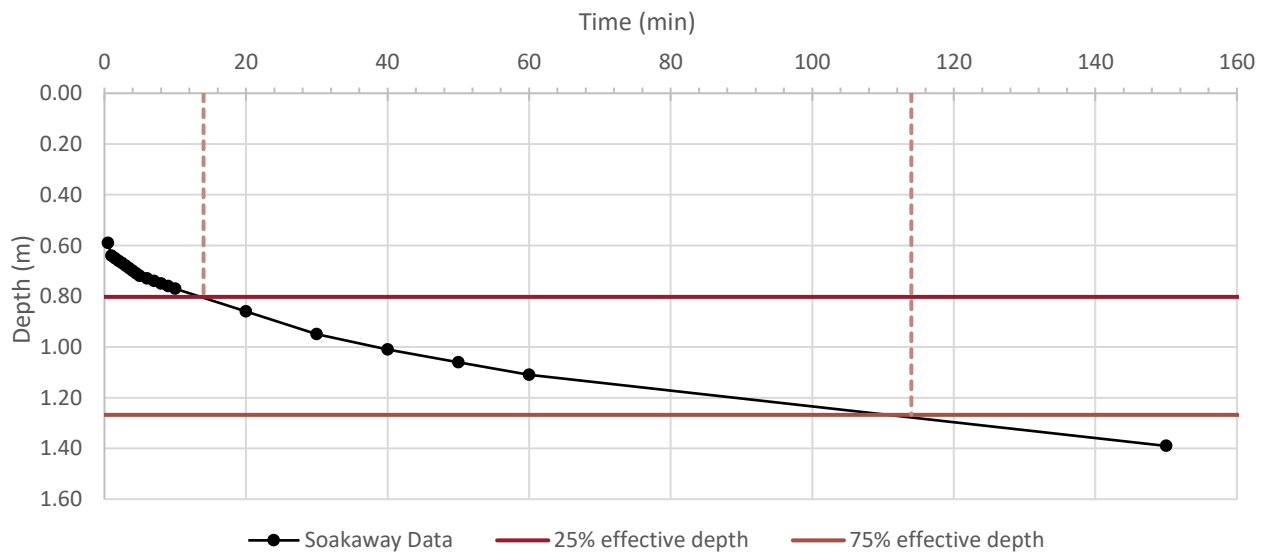
Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP105	1	285411.12	195426.99	303.46	1.50	2.70	0.80
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0.5	0.53	Date of Test		01/07/2022	Weather		Sunny spells
1	0.55	Fill Porosity			Test Duration (mins)		135
1.5	0.56	Operative		SC	Checked by		AP
2	0.58	Water Depth Test Start (m)					
2.5	0.60	0.48		Base base area (m ²)		2.16	
3	0.62	Water Depth Test End (m)		1.4	Pit sides area (m ²)		4.05
3.5	0.63	75% effective depth (m)		0.74	Vp75-25 (m ³)		1.10
4	0.64	50% effective depth (m)		0.99	ap50 (m ²)		5.38
4.5	0.65	25% effective depth (m)		1.25			
5	0.66	Time water level reaches 75% effective depth (Tp75) (mins)					
6	0.68	9.3					
7	0.69	Time water level reaches 25% effective depth (Tp25) (mins)					
8	0.71	78.5					
9	0.74	Soil Infiltration Rate (f) (m/s)					
10	0.76	4.93E-05					
20	0.88	Remarks					
30	0.98	Undertaken in accordance with BRE digest 365 (2016)					
40	1.05						
50	1.09						
60	1.14						
90	1.32						
135	1.40						





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP105	2	285411.12	195426.99	303.46	1.50	2.70	0.80
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0.5	0.59	Date of Test		04/07/2022	Weather		Overcast
1	0.64	Fill Porosity			Test Duration (mins)		150
1.5	0.65	Operative		SC	Checked by		AP
2	0.66	Water Depth Test Start (m)					
2.5	0.67	0.57		Base base area (m ²)		2.16	
3	0.68	Water Depth Test End (m)		1.39		Pit sides area (m ²)	
3.5	0.69	75% effective depth (m)		0.80		Vp75-25 (m ³)	
4	0.70	50% effective depth (m)		1.04		ap50 (m ²)	
4.5	0.71	25% effective depth (m)		1.27		5.03	
5	0.72	Time water level reaches 75% effective depth (Tp75) (mins)					
6	0.73	14					
7	0.74	Time water level reaches 25% effective depth (Tp25) (mins)					
8	0.75	114					
9	0.76	Soil Infiltration Rate (f) (m/s)					
10	0.77	3.33E-05					
20	0.86	Remarks					
30	0.95	Undertaken in accordance with BRE digest 365 (2016)					
40	1.01						
50	1.06						
60	1.11						
150	1.39						





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort		Project No		G22033	Client	Wildfox Resorts - Afan Valley					
Exploratory Hole ID		Test No	Easting		Northing		Ground Level	Depth (m)	Length (m)	Width (m)		
TP105		3	285411.12		195426.99		303.46	1.50	2.70	0.80		
Test Data				Soakaway Construction		Vertical sides trimmed square. No fill material.						
Time Elapsed (mins)		Water Depth (m bgl)										
0.5		0.76		Date of Test		04/07/2022		Weather		Overcast		
1		0.77										
1.5		0.78		Fill Porosity				Test Duration (mins)		165		
2		0.78										
2.5		0.79		Water Depth Test Start (m)		0.75		Base base area (m ²)		2.16		
3		0.79										
3.5		0.80										
4		0.81										
4.5		0.82										
5		0.83		Water Depth Test End (m)		1.37		Pit sides area (m ²)		4.05		
6		0.85										
7		0.86										
8		0.87										
9		0.88										
10		0.89		75% effective depth (m)		0.94		Vp75-25 (m ³)		0.81		
20		1.00										
30		1.03										
40		1.06										
50		1.09										
60		1.11		50% effective depth (m)		1.13		ap50 (m ²)		4.33		
90		1.19										
135		1.31										
165		1.37										
												25% effective depth (m)
			Time water level reaches 75% effective depth (Tp75) (mins)				14					
			Time water level reaches 25% effective depth (Tp25) (mins)				140					
			Soil Infiltration Rate (f) (m/s)					2.47E-05				
			Remarks									
			Undertaken in accordance with BRE digest 365 (2016)									

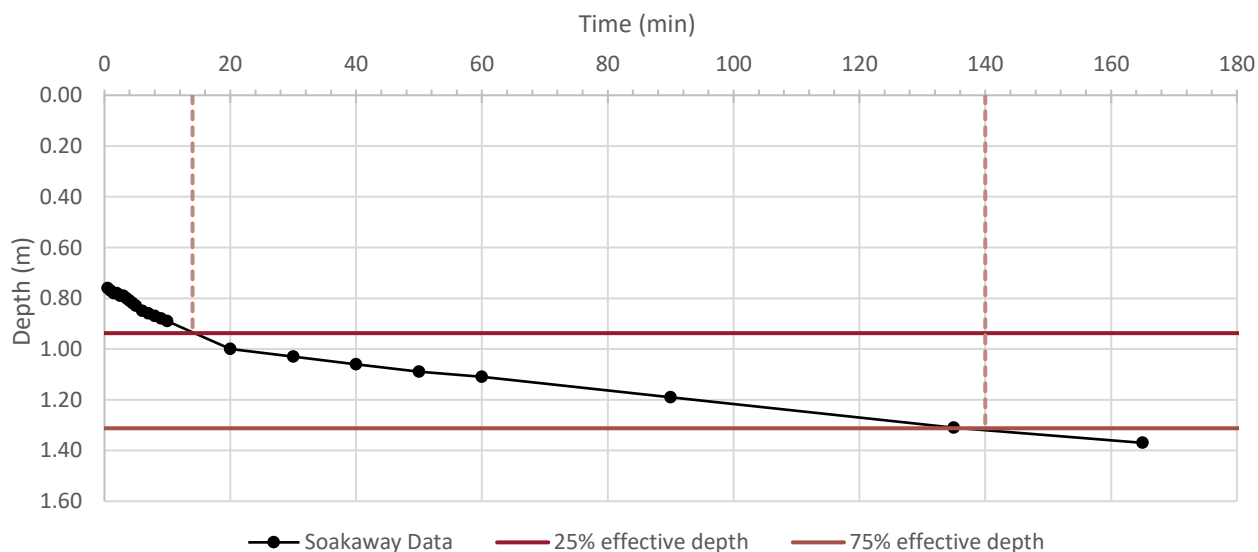




Figure 10 is a line graph showing the relationship between Time (min) on the x-axis and Depth (m) on the y-axis. The x-axis ranges from 0 to 2500 minutes, and the y-axis ranges from 0.00 to 1.40 meters. The graph displays 'Soakaway Data' as a black line with circular markers, showing a gradual decrease in depth over time. Two horizontal red lines represent '25% effective depth' at approximately 0.70 meters and '75% effective depth' at approximately 1.22 meters. The soakaway data starts at a depth of about 0.42 meters at 0 minutes and reaches approximately 0.62 meters at 2500 minutes.

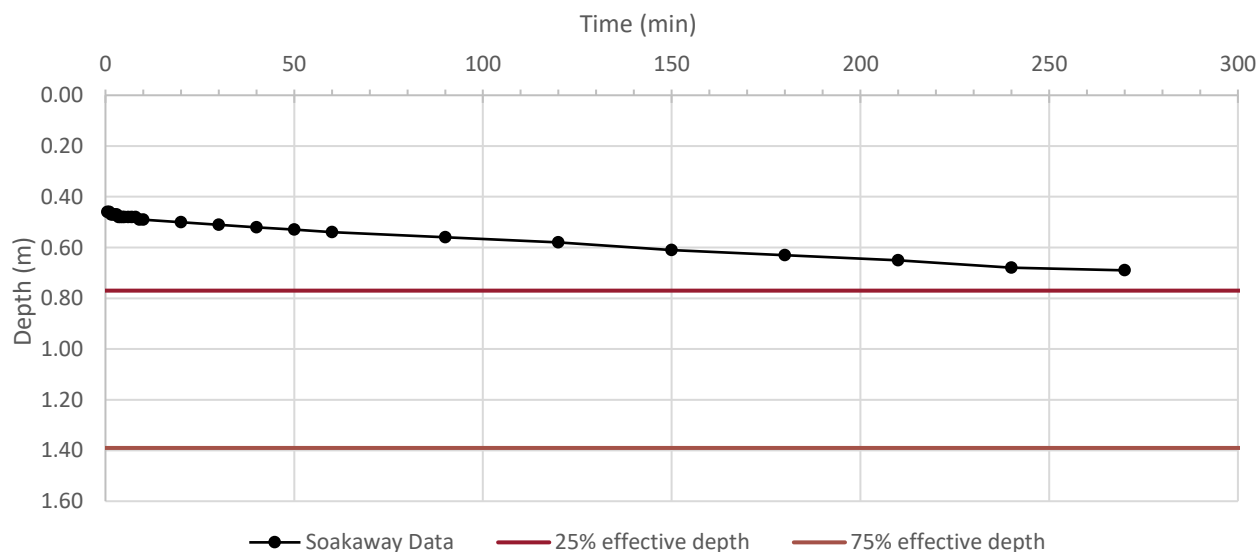
Time (min)	Soakaway Data (m)	25% effective depth (m)	75% effective depth (m)
0	0.42	0.70	1.22
250	0.43	0.70	1.22
500	0.43	0.70	1.22
750	0.43	0.70	1.22
1000	0.58	0.70	1.22
1250	0.61	0.70	1.22
1500	0.62	0.70	1.22



SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort		Project No		G22033	Client	Wildfox Resorts - Afan Valley					
Exploratory Hole ID		Test No	Easting		Northing		Ground Level	Depth (m)	Length (m)	Width (m)		
TP108		1	286056.32		195514.79		289.73	1.70	2.20	0.60		
Test Data				Soakaway Construction		Vertical sides trimmed square. No fill material.						
Time Elapsed (mins)		Water Depth (m bgl)										
0.5		0.46		Date of Test		27/06/2022		Weather		Dry		
1		0.46										
1.5		0.47		Fill Porosity				Test Duration (mins)		270		
2		0.47										
2.5		0.47		25% effective depth (m)		1.39		Base base area (m ²)		1.32		
3		0.47										
3.5		0.48										
4		0.48										
4.5		0.48										
5		0.48		Time water level reaches 75% effective depth (Tp75) (mins)				Pit sides area (m ²)		3.74		
10		0.49										
20		0.5										
30		0.51										
40		0.52										
50		0.53		Time water level reaches 25% effective depth (Tp25) (mins)				Vp75-25 (m ³)		0.82		
60		0.54										
90		0.56										
120		0.58										
150		0.61										
180		0.63		Soil Infiltration Rate (f) (m/s)				ap50 (m ²)		1.96		
210		0.65										
240		0.68										
270		0.69										

Remarks											
Undertaken in accordance with BRE digest 365 (2016)											
Soakaway terminated due to lack of infiltration as per client request											





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)	
TP109	1	286268.57	195612.34	278.27	1.60	2.20	0.75	
Test Data								
Time Elapsed (mins)	Water Depth (m bgl)							
0.5	0.58							
1	0.60							
1.5	0.62							
2	0.64							
2.5	0.66							
3	0.68							
3.5	0.70							
4	0.71							
4.5	0.72							
5	0.74							
6	0.78							
7	0.81							
8	0.83							
9	0.86							
10	0.89							
20	1.06							
30	1.17							
40	1.25							
50	1.31							
60	1.38							
70	1.43							

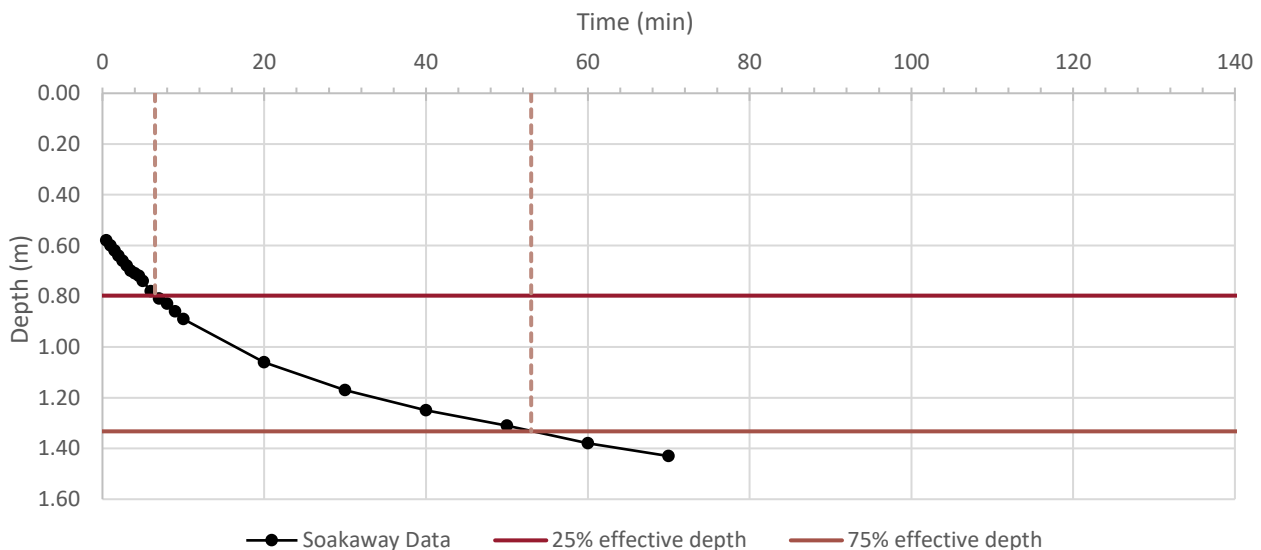
Soakaway Construction		Vertical sides trimmed square. No fill material.	
Date of Test	27/06/2022	Weather	Dry
Fill Porosity		Test Duration (mins)	70
Operative	SC	Checked by	AP

Water Depth Test Start (m)	0.53	Base base area (m²)	1.65
Water Depth Test End (m)	1.43	Pit sides area (m²)	3.52
75% effective depth (m)	0.80	Vp75-25 (m³)	0.88
50% effective depth (m)	1.07	ap50 (m²)	4.31
25% effective depth (m)	1.33		

Time water level reaches 75% effective depth (Tp75) (mins)	6.5
Time water level reaches 25% effective depth (Tp25) (mins)	53

Soil Infiltration Rate (f) (m/s)	7.35E-05
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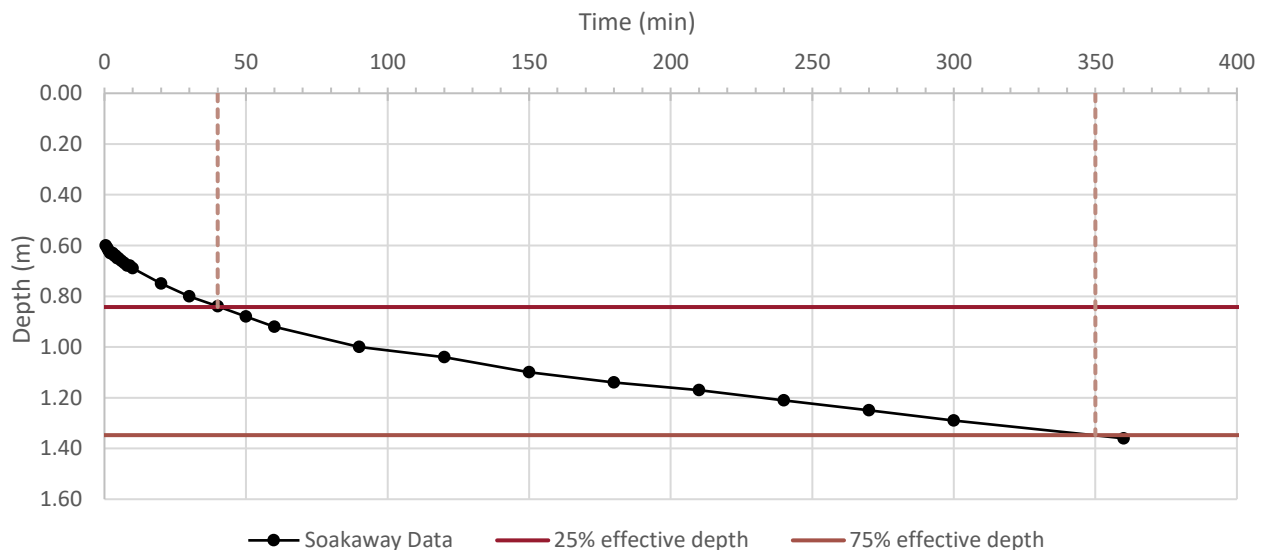
Remarks
 Undertaken in accordance with BRE digest 365 (2016)





SOIL SOAKAWAY INFILTRATION TEST

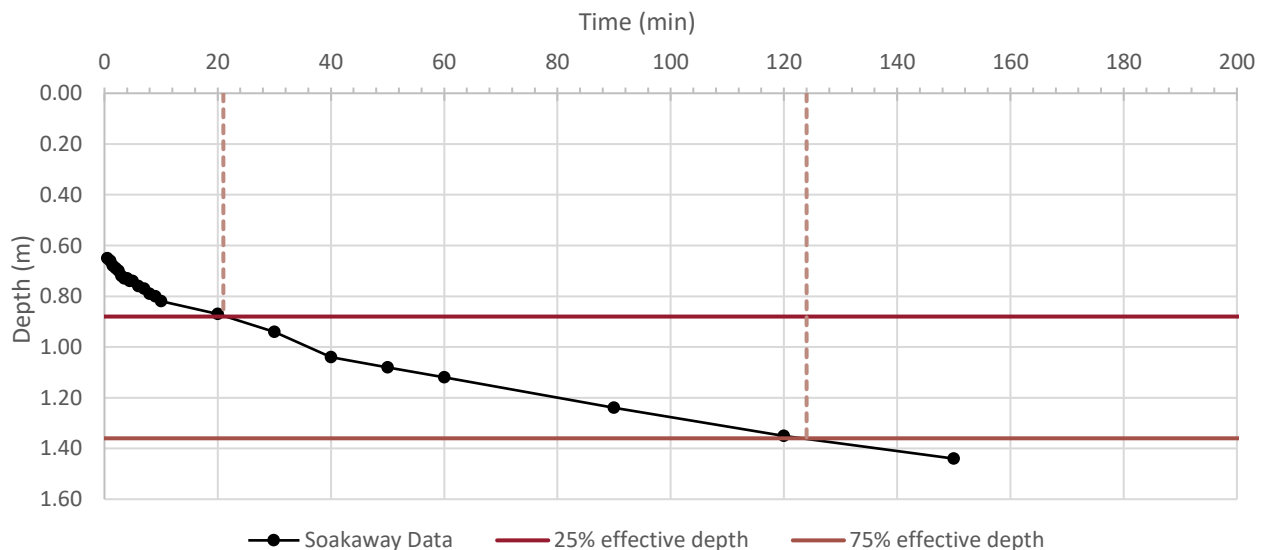
Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley				
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)		
TP109		2	286268.57	195612.34	278.27	1.60	2.20	0.75		
Test Data			Soakaway Construction Vertical sides trimmed square. No fill material.							
Time Elapsed (mins)		Water Depth (m bgl)								
0.5		0.60								
1		0.61								
1.5		0.62								
2		0.63								
2.5		0.63								
3		0.63								
3.5		0.64								
4		0.64								
4.5		0.65								
5		0.65								
10		0.69								
20		0.75								
30		0.80								
40		0.84								
60		0.92								
90		1.00								
120		1.04								
150		1.10								
180		1.14								
210		1.17								
240		1.21								
270		1.25								
360		1.36								
				Date of Test		28/06/2022	Weather		Drizzly rain	
				Fill Porosity			Test Duration (mins)		360	
				Operative		SC	Checked by		AP	
				Water Depth Test Start (m)		0.59	Base base area (m ²)		1.65	
				Water Depth Test End (m)		1.36	Pit sides area (m ²)		3.52	
				75% effective depth (m)		0.84	Vp75-25 (m ³)		0.83	
				50% effective depth (m)		1.10	ap50 (m ²)		3.92	
				25% effective depth (m)		1.35				
				Time water level reaches 75% effective depth (Tp75) (mins)						40
				Time water level reaches 25% effective depth (Tp25) (mins)						350
				Soil Infiltration Rate (f) (m/s)						1.14E-05
				Remarks						
				Undertaken in accordance with BRE digest 365 (2016)						





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP109	3	286268.57	195612.34	278.27	1.60	2.20	0.75
Test Data							
Time Elapsed (mins)	Water Depth (m bgl)	Soakaway Construction		Vertical sides trimmed square. No fill material.			
0.5	0.65	Date of Test		29/06/2022	Weather		Overcast
1	0.66	Fill Porosity			Test Duration (mins)		150
1.5	0.68	Operative		SC	Checked by		AP
2	0.69						
2.5	0.70	Water Depth Test Start (m)		0.64	Base base area (m²)		1.65
3	0.72	Water Depth Test End (m)		1.44	Pit sides area (m²)		3.52
3.5	0.73	75% effective depth (m)		0.88	Vp75-25 (m³)		0.79
4	0.73	50% effective depth (m)		1.12	ap50 (m²)		4.01
4.5	0.74	25% effective depth (m)		1.36			
5	0.74						
6	0.76	Time water level reaches 75% effective depth (Tp75) (mins)		21			
7	0.77	Time water level reaches 25% effective depth (Tp25) (mins)		124			
8	0.79						
9	0.8	Soil Infiltration Rate (f) (m/s)		3.20E-05			
10	0.82						
20	0.87						
30	0.94						
40	1.04						
50	1.08						
60	1.12						
90	1.24						
120	1.35						
150	1.44						
Remarks							
Undertaken in accordance with BRE digest 365 (2016)							





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort		Project No		G22033	Client	Wildfox Resorts - Afan Valley					
Exploratory Hole ID		Test No	Easting		Northing		Ground Level		Depth (m)	Length (m)	Width (m)	
TP110		1	286299.74		195412.90		305.11		1.50	2.30	0.70	
Test Data				Soakaway Construction		Vertical sides trimmed square. No fill material.						
Time Elapsed (mins)		Water Depth (m bgl)										
0.5		0.64										
1		0.65										
1.5		0.66										
2.5		0.66										
3		0.67										
3.5		0.67										
4		0.67										
4.5		0.67										
5		0.67										
10		0.68										
20		0.70										
30		0.73										
40		0.75										
50		0.77										
60		0.79										
90		0.82										
120		0.84										
180		0.99										
270		1.09										
1260		1.50										

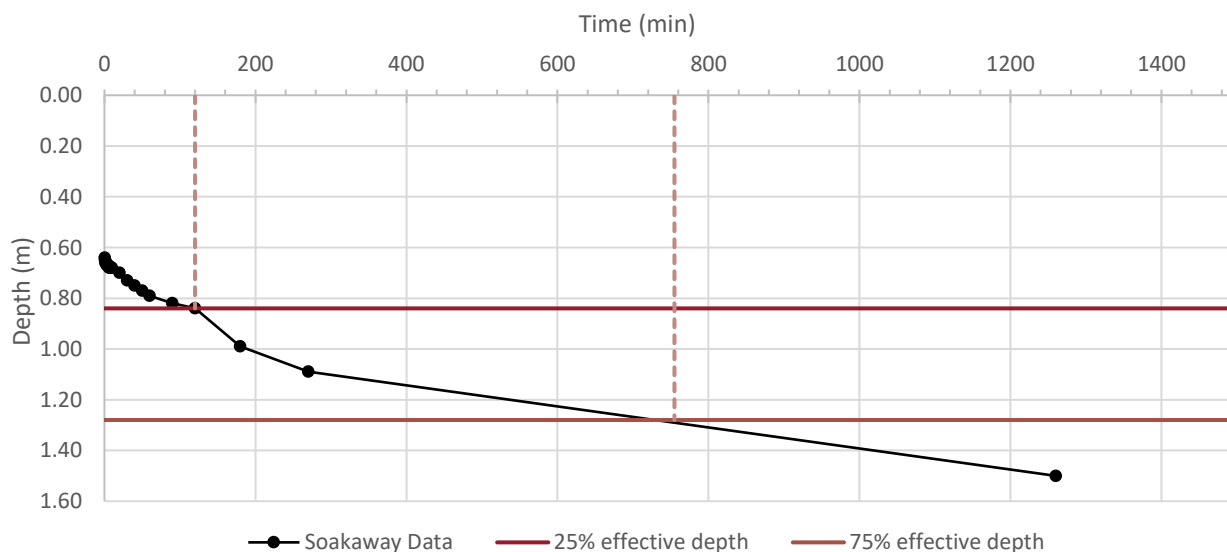
Date of Test				29/06/2022		Weather		Overcast	
Fill Porosity						Test Duration (mins)		270	
Operative				SC		Checked by		AP	

Water Depth Test Start (m)		0.62		Base base area (m ²)		1.61	
Water Depth Test End (m)		1.09		Pit sides area (m ²)		3.45	
75% effective depth (m)		0.84		Vp75-25 (m ³)		0.71	
50% effective depth (m)		1.06		ap50 (m ²)		3.02	
25% effective depth (m)		1.28					

Time water level reaches 75% effective depth (Tp75) (mins)				120			
Time water level reaches 25% effective depth (Tp25) (mins)				755			

Soil Infiltration Rate (f) (m/s)				6.16E-06			
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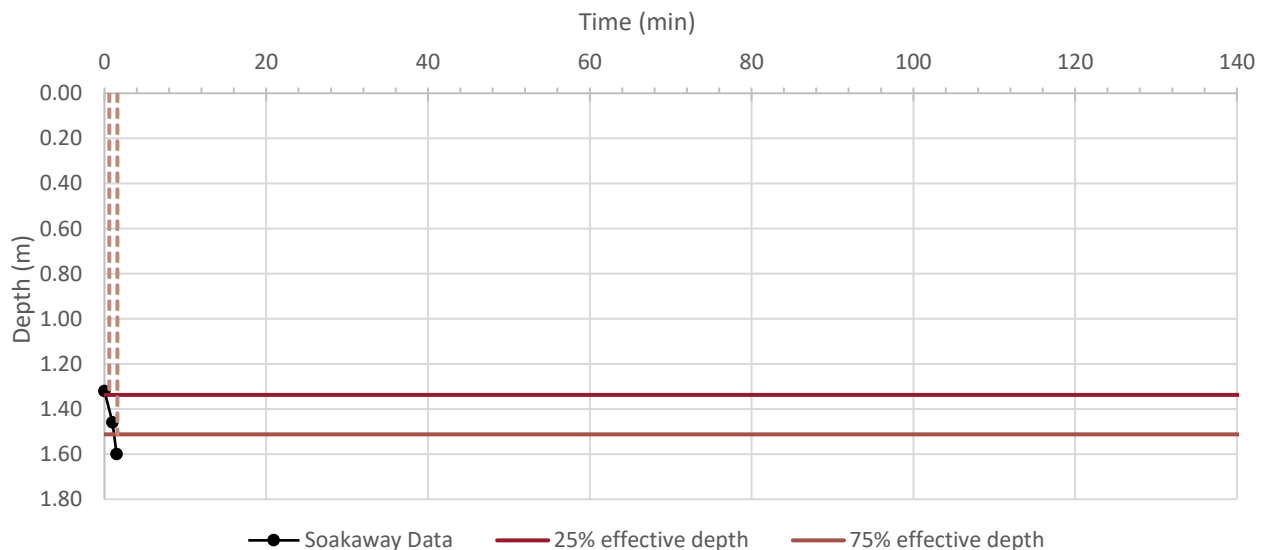
Remarks							
Undertaken in accordance with BRE digest 365 (2016)							
Trial pit left open overnight, dry when dipped 21 hrs after start of test. Unknown what time trial pit became dry. Soakage rate calculated based on this datapoint and therefore conservative.							





SOIL SOAKAWAY INFILTRATION TEST

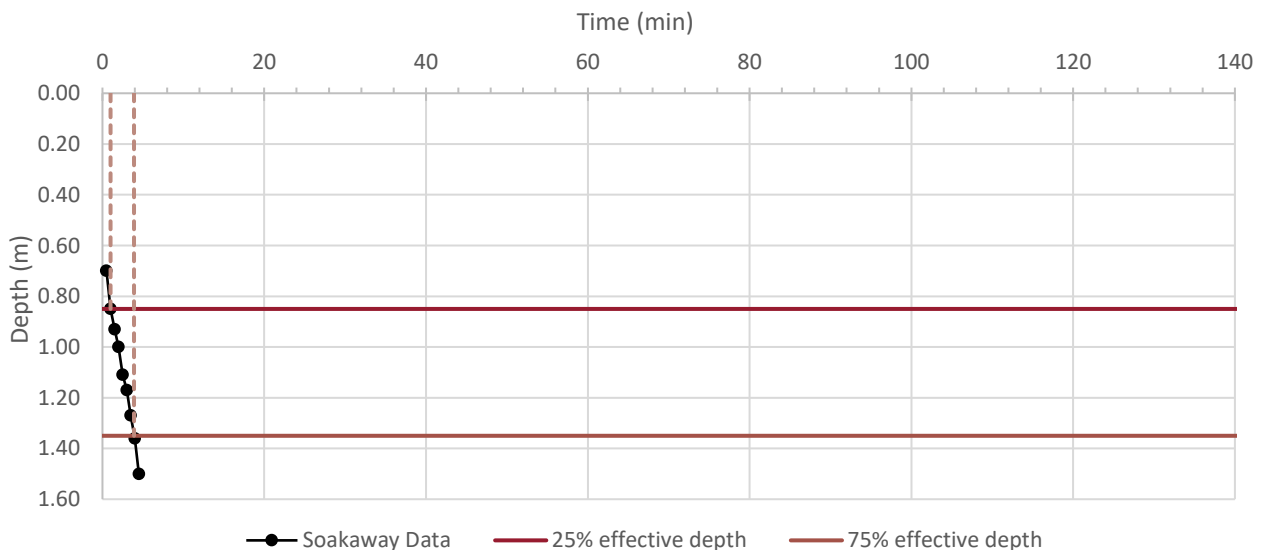
Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP111	1	286382.26	195464.88	296.88	1.60	3.00	0.80
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0	1.32	Date of Test		30/06/2022	Weather		Sunny
1	1.46	Fill Porosity			Test Duration (mins)		2
1.5	1.60	Operative		SC	Checked by		AP
		Water Depth Test Start (m)		1.25	Base base area (m ²)		2.4
		Water Depth Test End (m)		1.5	Pit sides area (m ²)		4.8
		75% effective depth (m)		1.34	Vp75-25 (m ³)		0.42
		50% effective depth (m)		1.43	ap50 (m ²)		3.35
		25% effective depth (m)		1.51			
		Time water level reaches 75% effective depth (Tp75) (mins)		0.6			
		Time water level reaches 25% effective depth (Tp25) (mins)		1.6			
		Soil Infiltration Rate (f) (m/s)		2.09E-03			
		Remarks					
		Undertaken in accordance with BRE digest 365 (2016)					
		Bowser ran out of water during fill. 1000 litres discharged in 1.50 minutes.					





SOIL SOAKAWAY INFILTRATION TEST

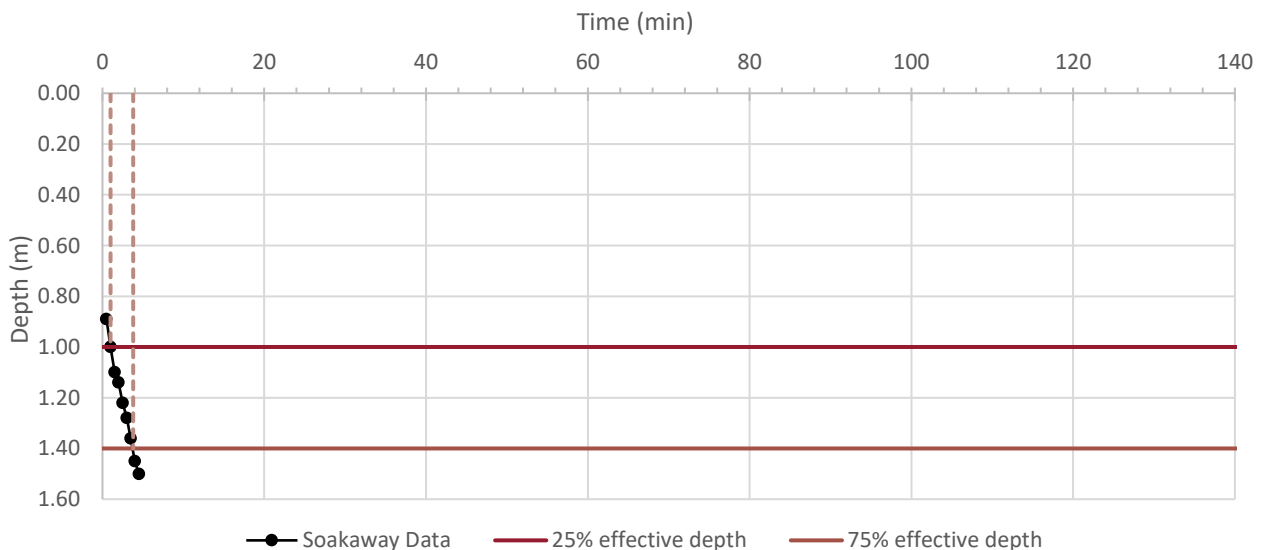
Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP111	2	286382.26	195464.88	296.88	1.60	3.00	0.80
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0.5	0.70	Date of Test		30/06/2022	Weather		Sunny
1	0.85	Fill Porosity			Test Duration (mins)		5
1.5	0.93	Operative		SC	Checked by		AP
2	1.00	Water Depth Test Start (m)					
2.5	1.11	0.6		Base base area (m ²)		2.40	
3	1.17	Water Depth Test End (m)		1.5	Pit sides area (m ²)		4.80
3.5	1.27	75% effective depth (m)		0.85	Vp75-25 (m ³)		1.20
4	1.36	50% effective depth (m)		1.10	ap50 (m ²)		5.82
4.5	1.50	25% effective depth (m)		1.35			
		Time water level reaches 75% effective depth (Tp75) (mins)					
						1	
		Time water level reaches 25% effective depth (Tp25) (mins)					
						3.9	
		Soil Infiltration Rate (f) (m/s)					
						1.18E-03	
		Remarks					
		Undertaken in accordance with BRE digest 365 (2016)					





SOIL SOAKAWAY INFILTRATION TEST

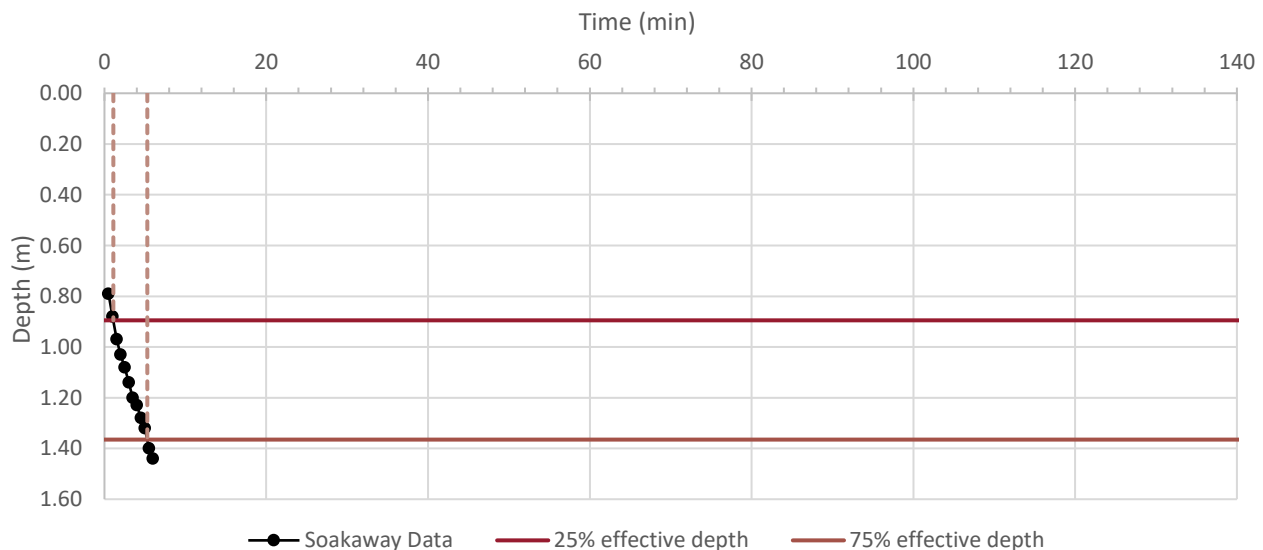
Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP111	3	286382.26	195464.88	296.88	1.60	3.00	0.80
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0.5	0.89	Date of Test		30/06/2022	Weather		Sunny
1	1.00	Fill Porosity			Test Duration (mins)		5
1.5	1.10	Operative		SC	Checked by		AP
2	1.14	Water Depth Test Start (m)					
2.5	1.22	0.8					
3	1.28	Base base area (m ²)					
3.5	1.36	2.4					
4	1.45	Water Depth Test End (m)					
4.5	1.50	1.5					
		Pit sides area (m ²)					
		4.8					
		75% effective depth (m)					
		1.00					
		Vp75-25 (m ³)					
		0.96					
		50% effective depth (m)					
		1.20					
		ap50 (m ²)					
		5.06					
		25% effective depth (m)					
		1.40					
		Time water level reaches 75% effective depth (Tp75) (mins)					
		1					
		Time water level reaches 25% effective depth (Tp25) (mins)					
		3.8					
		Soil Infiltration Rate (f) (m/s)					
		1.13E-03					
		Remarks					
		Undertaken in accordance with BRE digest 365 (2016)					





SOIL SOAKAWAY INFILTRATION TEST

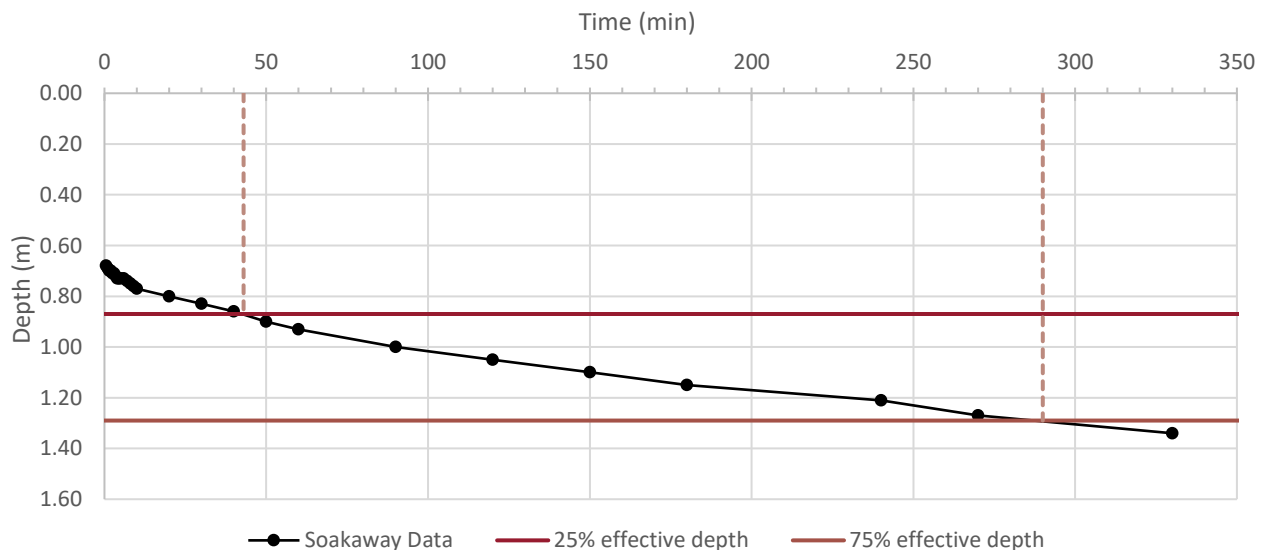
Project	Afan Valley Adventure Resort	Project No	G22033	Client	Wildfox Resorts - Afan Valley		
Exploratory Hole ID	Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)
TP111	4	286382.26	195464.88	296.88	1.60	3.00	0.80
Test Data		Soakaway Construction					
Time Elapsed (mins)	Water Depth (m bgl)	Vertical sides trimmed square. No fill material.					
0.5	0.79	Date of Test		30/06/2022	Weather		Sunny
1	0.88	Fill Porosity			Test Duration (mins)		6
1.5	0.97	Operative		SC	Checked by		AP
2	1.03	Water Depth Test Start (m)					
2.5	1.08	0.66		Base base area (m ²)		2.40	
3	1.14	Water Depth Test End (m)		1.44		Pit sides area (m ²)	
3.5	1.20	75% effective depth (m)		0.90		Vp75-25 (m ³)	
4	1.23	50% effective depth (m)		1.13		ap50 (m ²)	
4.5	1.28	25% effective depth (m)		1.37		5.36	
5	1.32	Time water level reaches 75% effective depth (Tp75) (mins)					
5.5	1.40	1.1					
6	1.44	Time water level reaches 25% effective depth (Tp25) (mins)					
		5.3					
		Soil Infiltration Rate (f) (m/s)					
		8.34E-04					
		Remarks					
		Undertaken in accordance with BRE digest 365 (2016)					





SOIL SOAKAWAY INFILTRATION TEST

Project	Afan Valley Adventure Resort		Project No	G22033	Client	Wildfox Resorts - Afan Valley			
Exploratory Hole ID		Test No	Easting	Northing	Ground Level	Depth (m)	Length (m)	Width (m)	
TP112		1	286425.65	195608.89	274.44	1.50	2.90	0.60	
Test Data			Soakaway Construction Vertical sides trimmed square. No fill material.						
Time Elapsed (mins)		Water Depth (m bgl)							
0.5		0.68							
1		0.69							
1.5		0.70							
2		0.70							
2.5		0.71							
3		0.71							
3.5		0.72							
4		0.73							
4.5		0.73							
5		0.73							
10		0.77							
20		0.8							
30		0.83							
40		0.86							
50		0.90							
60		0.93							
90		1.00							
120		1.05							
150		1.10							
180		1.15							
240		1.21							
270		1.27							
330		1.34							
				Date of Test		28/06/2022	Weather		Overcast
				Fill Porosity			Test Duration (mins)		330
				Operative		SC	Checked by		AP
				Water Depth Test Start (m)		0.66	Base base area (m ²)		1.74
				Water Depth Test End (m)		1.34	Pit sides area (m ²)		4.35
				75% effective depth (m)		0.87	Vp75-25 (m ³)		0.73
				50% effective depth (m)		1.08	ap50 (m ²)		4.12
				25% effective depth (m)		1.29			
						Time water level reaches 75% effective depth (Tp75) (mins)		43	
						Time water level reaches 25% effective depth (Tp25) (mins)		290	
						Soil Infiltration Rate (f) (m/s)		1.20E-05	
Remarks									
Undertaken in accordance with BRE digest 365 (2016)									



Appendix III

Geotechnical Laboratory Testing

GSTL laboratory testing report

Report no. 60330



Laboratory Report



Contract Number: 60330

Client Ref: **G22033**

Client PO:

Date Received: **14-07-2022**

Date Completed: **09-08-2022**

Report Date: **09-08-2022**

Client: **Jackson Drilling Holdings Ltd**
Northwood Farm
Coxbridge Road
Baltonsborough
Somerset
BA6 8RA

This report has been checked and approved by:

Wayne Honey

Human Resources/ Health and Safety Coordinator

Contract Title: **Afan Adventure Park**

For the attention of: **Adam Putt**

Test Description	Qty
PSD Wet Sieve method BS 1377:1990 - Part 2 : 9.2 - * UKAS	11
PSD: Sedimentation by pipette carried out with Wet Sieve (Wet Sieve must also be selected) BS 1377:1990 - Part 2 : 9.4 - * UKAS	3
Disposal of samples for job	1

Notes: **Observations and Interpretations are outside the UKAS Accreditation**

* - denotes test included in laboratory scope of accreditation

- denotes test carried out by approved contractor

@ - denotes non accredited tests

This certificate is issued in accordance with the accreditation requirements of the United Kingdom Accreditation Service. The results reported herein relate only to the material supplied to the laboratory. This certificate shall not be reproduced except in full, without the prior written approval of the laboratory.

Approved Signatories:

Brendan Evans (Office Administrator) - Emma Sharp (Business Support Manager) - Paul Evans (Director)

Richard John (Quality/Technical Manager) - Shaun Jones (Laboratory manager) - Shaun Thomas (Site Manager)

Wayne Honey (Human Resources/ Health and Safety Coordinator)

GEO Site & Testing Services Ltd

Units 3-4, Heol Aur, Dafen, Llanelli, Carmarthenshire, Wales SA14 8QN

Tel: 01554 784040 Fax: 01554 784041 info@gstl.co.uk gstl.co.uk

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 60330

Borehole/Pit No. TP101

Site Name Afan Adventure Park

Sample No. 2

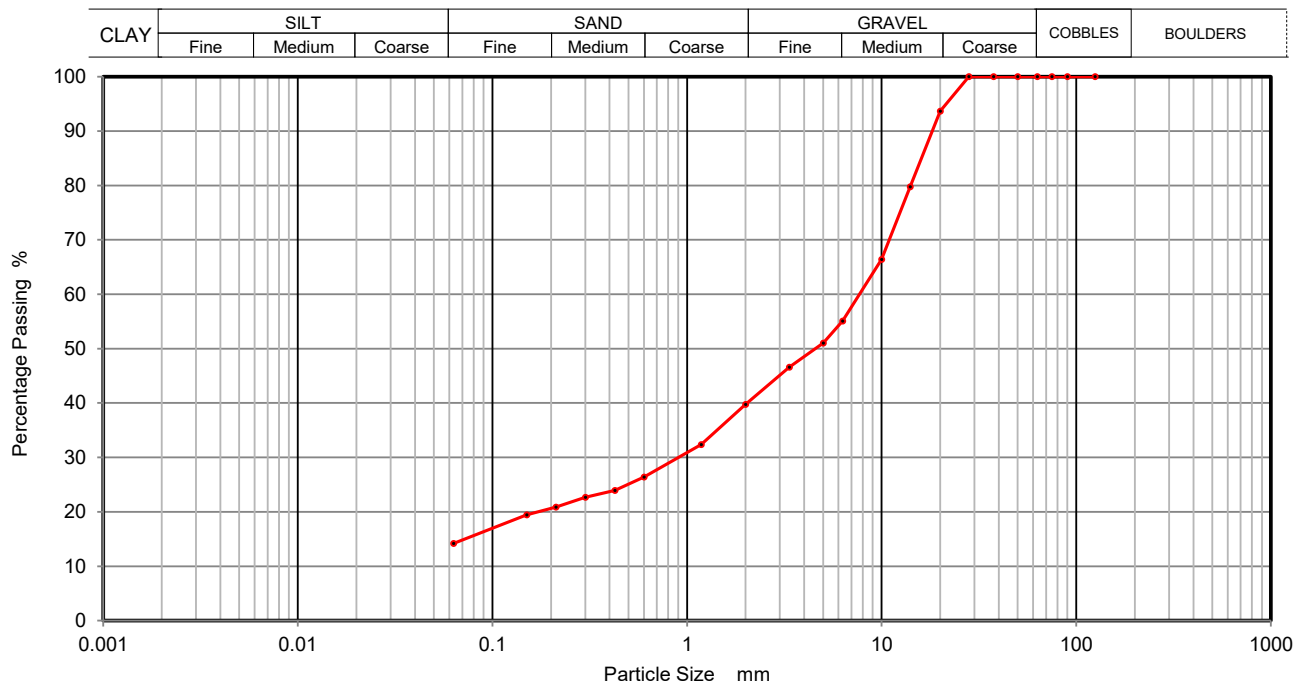
Soil Description Brown silty/ clayey fine to coarse sandy fine to coarse GRAVEL

Depth Top 0.80

Depth Base 1.20

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	80		
10	66		
6.3	55		
5	51		
3.35	47		
2	40		
1.18	32		
0.6	26		
0.425	24		
0.3	23		
0.212	21		
0.15	19		
0.063	14		

Sample Proportions	% dry mass
Cobbles	0
Gravel	60
Sand	26
Silt and Clay	14

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Contract Number 60330

Borehole/Pit No. TP102

Site Name Afan Adventure Park

Sample No. 2

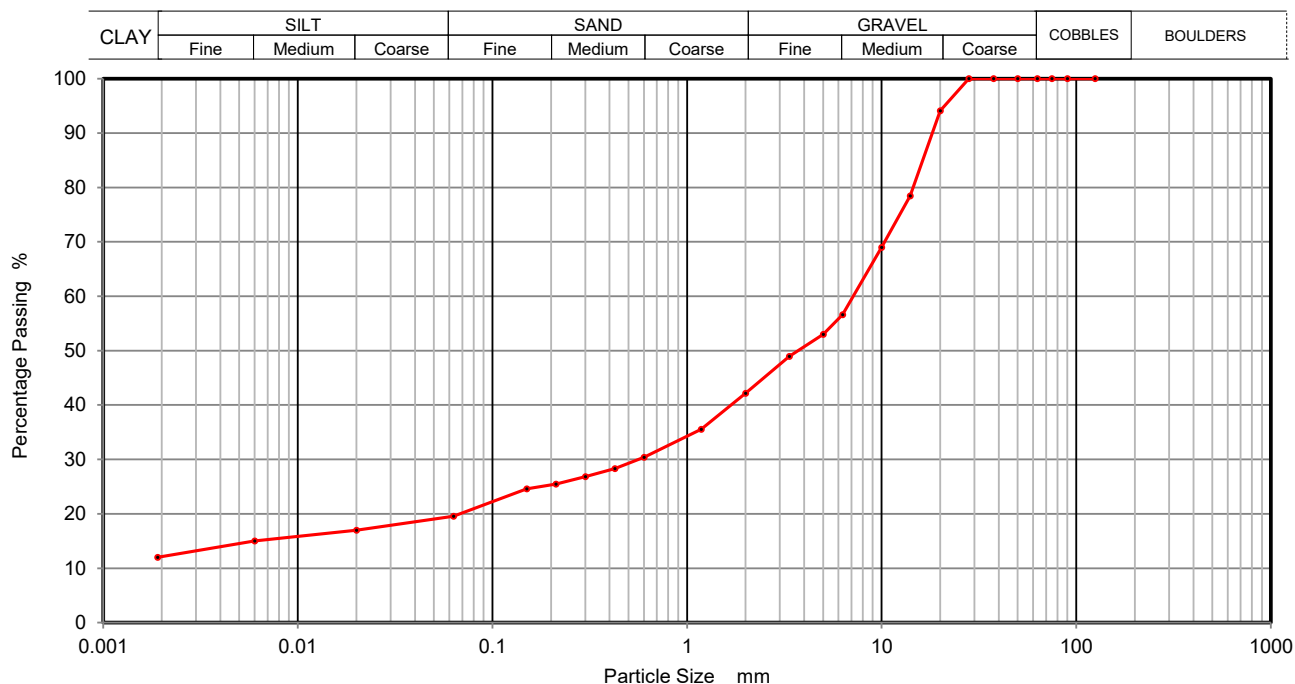
Soil Description Brown slightly silty clayey fine to coarse sandy fine to coarse GRAVEL

Depth Top 1.20

Depth Base 1.40

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	17
90	100	0.0060	15
75	100	0.0020	12
63	100		
50	100		
37.5	100		
28	100		
20	94		
14	78		
10	69		
6.3	57		
5	53		
3.35	49		
2	42		
1.18	36		
0.6	30		
0.425	28		
0.3	27		
0.212	25		
0.15	25		
0.063	20		

Sample Proportions	% dry mass
Cobbles	0
Gravel	58
Sand	22
Silt	8
Clay	12

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 60330

Borehole/Pit No. TP103

Site Name Afan Adventure Park

Sample No. 2

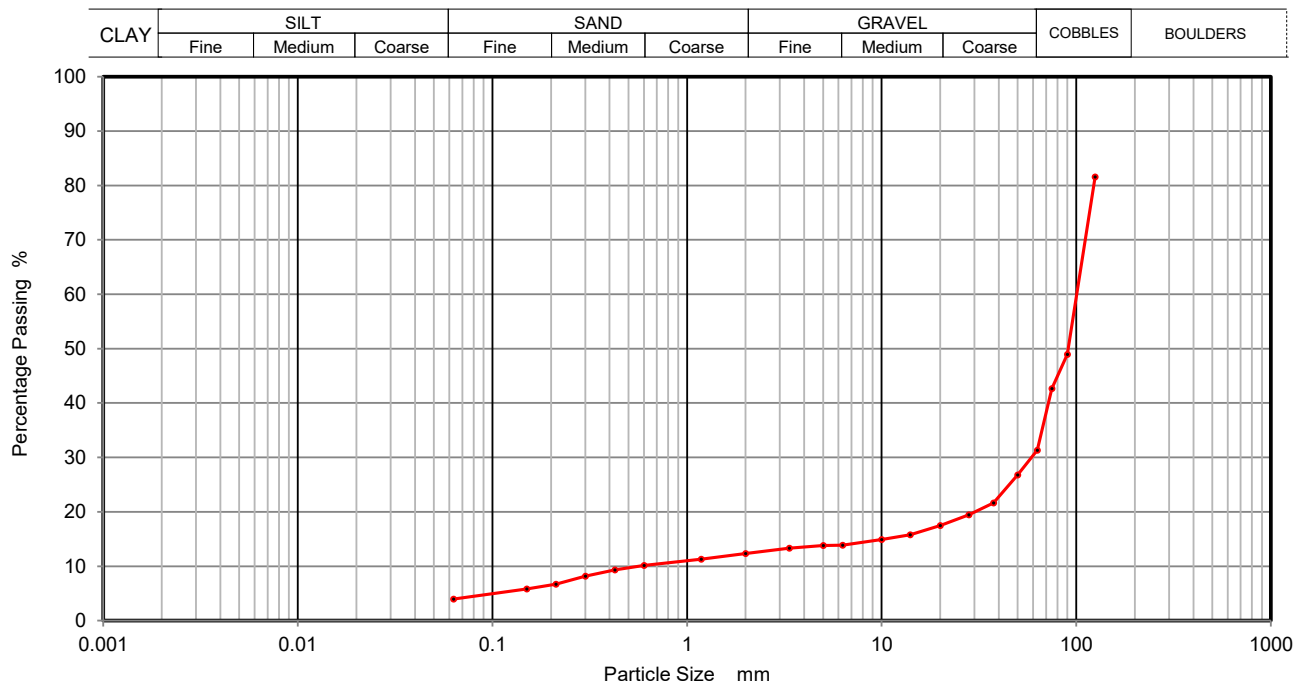
Soil Description Brown slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL with cobbles

Depth Top 1.00

Depth Base 1.40

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	82		
90	49		
75	43		
63	31		
50	27		
37.5	22		
28	19		
20	17		
14	16		
10	15		
6.3	14		
5	14		
3.35	13		
2	12		
1.18	11		
0.6	10		
0.425	9		
0.3	8		
0.212	7		
0.15	6		
0.063	4		

Sample Proportions	% dry mass
Cobbles	69
Gravel	19
Sand	8
Silt and Clay	4

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 60330

Borehole/Pit No. TP104

Site Name Afan Adventure Park

Sample No. 2

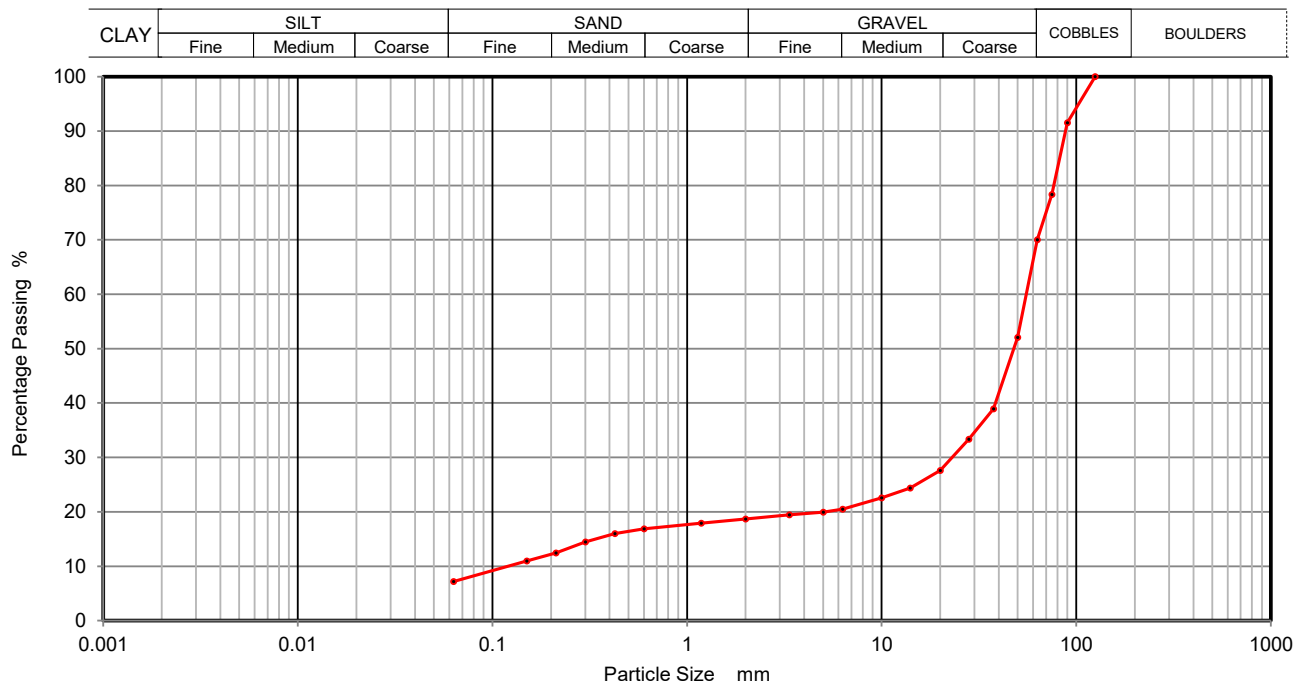
Soil Description Brown slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL with cobbles

Depth Top 1.50

Depth Base 1.90

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	92		
75	78		
63	70		
50	52		
37.5	39		
28	33		
20	28		
14	24		
10	23		
6.3	20		
5	20		
3.35	19		
2	19		
1.18	18		
0.6	17		
0.425	16		
0.3	14		
0.212	12		
0.15	11		
0.063	7		

Sample Proportions	% dry mass
Cobbles	30
Gravel	51
Sand	12
Silt and Clay	7

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 60330

Borehole/Pit No. TP105

Site Name Afan Adventure Park

Sample No. 2

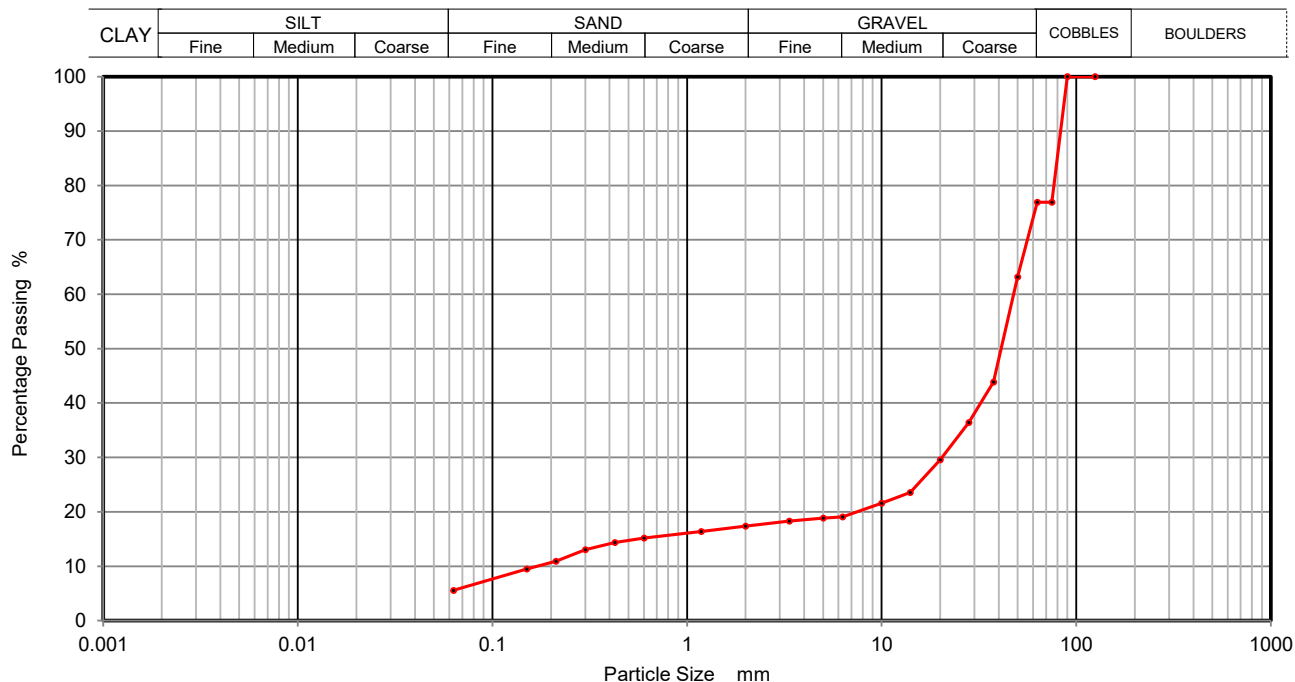
Soil Description Brown slightly silty/ clayey fine to coarse sandy fine to coarse GRAVEL with cobbles

Depth Top 1.00

Depth Base 1.30

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	77		
63	77		
50	63		
37.5	44		
28	36		
20	30		
14	24		
10	22		
6.3	19		
5	19		
3.35	18		
2	17		
1.18	16		
0.6	15		
0.425	14		
0.3	13		
0.212	11		
0.15	9		
0.063	6		

Sample Proportions	% dry mass
Cobbles	23
Gravel	60
Sand	11
Silt and Clay	6

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Contract Number 60330

Borehole/Pit No. TP106

Site Name Afan Adventure Park

Sample No. 2

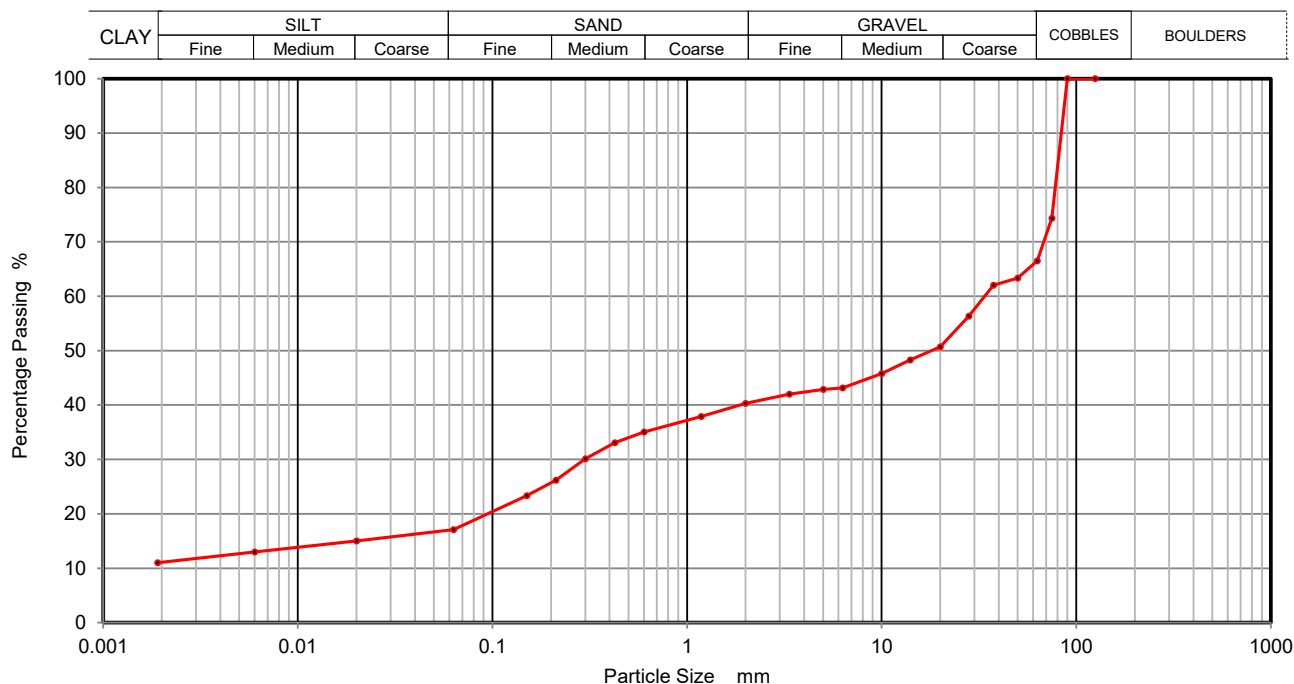
Soil Description Brown slightly silty clayey fine to coarse sandy fine to coarse GRAVEL with cobbles

Depth Top 1.00

Depth Base 1.30

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	15
90	100	0.0060	13
75	74	0.0020	11
63	67		
50	63		
37.5	62		
28	56		
20	51		
14	48		
10	46		
6.3	43		
5	43		
3.35	42		
2	40		
1.18	38		
0.6	35		
0.425	33		
0.3	30		
0.212	26		
0.15	23		
0.063	17		

Sample Proportions	% dry mass
Cobbles	33
Gravel	27
Sand	23
Silt	6
Clay	11

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2

Contract Number 60330

Borehole/Pit No. TP108

Site Name Afan Adventure Park

Sample No. 1

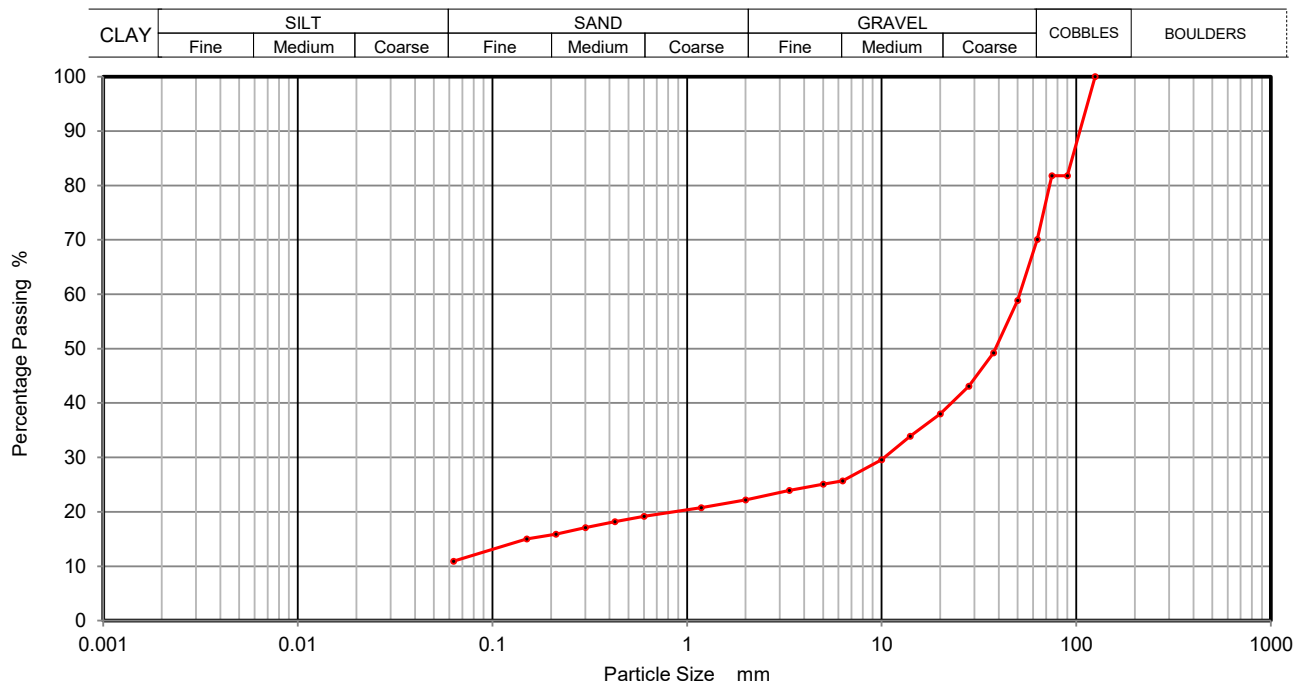
Soil Description Brown silty/ clayey fine to coarse sandy fine to coarse GRAVEL with cobbles

Depth Top 0.80

Depth Base 1.30

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	82		
75	82		
63	70		
50	59		
37.5	49		
28	43		
20	38		
14	34		
10	30		
6.3	26		
5	25		
3.35	24		
2	22		
1.18	21		
0.6	19		
0.425	18		
0.3	17		
0.212	16		
0.15	15		
0.063	11		

Sample Proportions	% dry mass
Cobbles	30
Gravel	48
Sand	11
Silt and Clay	11

Remarks

Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 60330

Borehole/Pit No. TP109

Site Name Afan Adventure Park

Sample No. 1

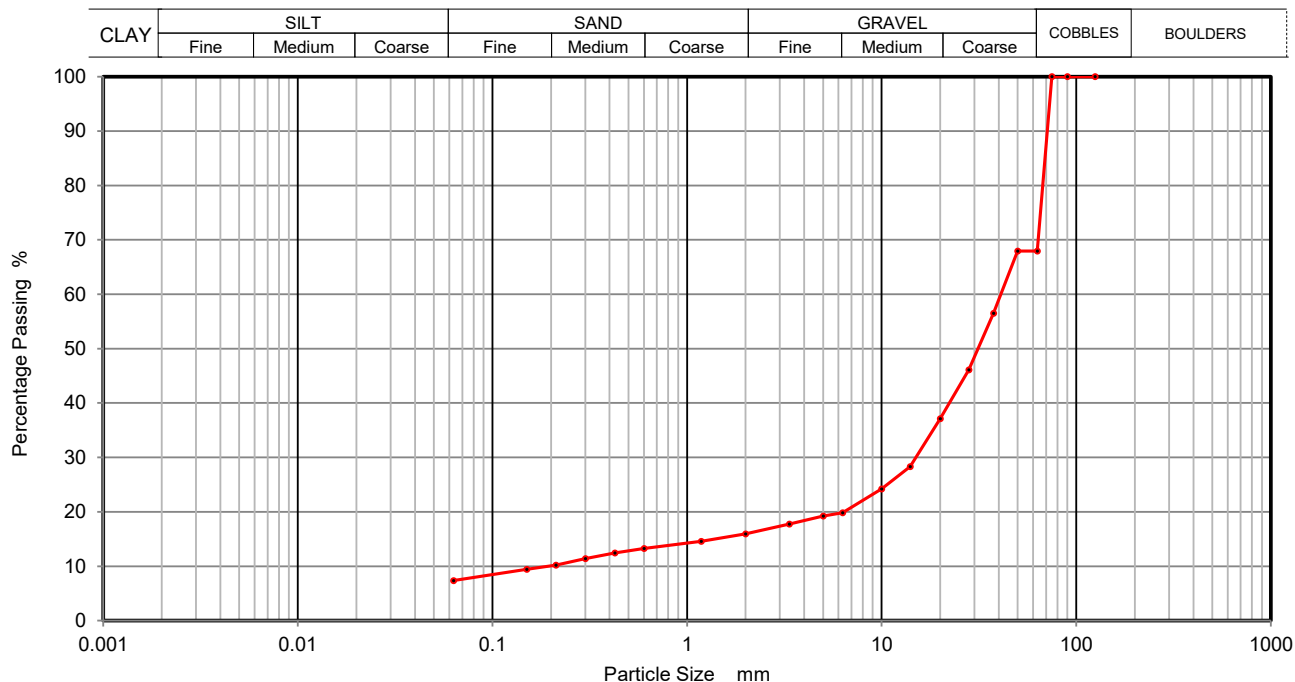
Soil Description Brown slightly silty/ clayey slightly fine to coarse sandy fine to coarse GRAVEL with cobbles

Depth Top 1.00

Depth Base 1.30

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	68		
50	68		
37.5	57		
28	46		
20	37		
14	28		
10	24		
6.3	20		
5	19		
3.35	18		
2	16		
1.18	15		
0.6	13		
0.425	12		
0.3	11		
0.212	10		
0.15	9		
0.063	7		

Sample Proportions	% dry mass
Cobbles	32
Gravel	52
Sand	9
Silt and Clay	7

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve & Pipette Analysis, Clause 9.2 & 9.4

Contract Number 60330

Borehole/Pit No. TP110

Site Name Afan Adventure Park

Sample No. 2

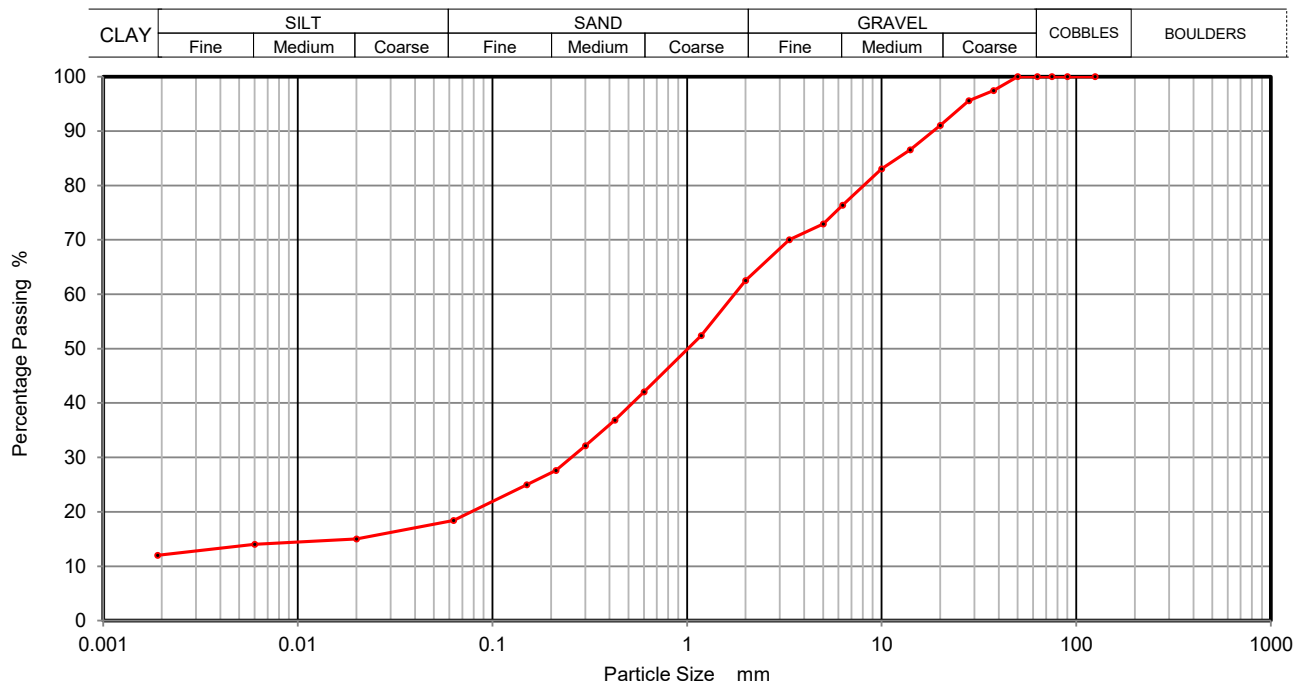
Soil Description Brown slightly silty clayey slightly fine to coarse gravelly fine to coarse SAND

Depth Top 1.10

Depth Base 1.40

Date Tested 03/08/2022

Sample Type D



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100	0.0200	15
90	100	0.0060	14
75	100	0.0020	12
63	100		
50	100		
37.5	97		
28	96		
20	91		
14	87		
10	83		
6.3	76		
5	73		
3.35	70		
2	63		
1.18	52		
0.6	42		
0.425	37		
0.3	32		
0.212	28		
0.15	25		
0.063	18		

Sample Proportions	% dry mass
Cobbles	0
Gravel	37
Sand	45
Silt	6
Clay	12

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 60330

Borehole/Pit No. TP111

Site Name Afan Adventure Park

Sample No. 2

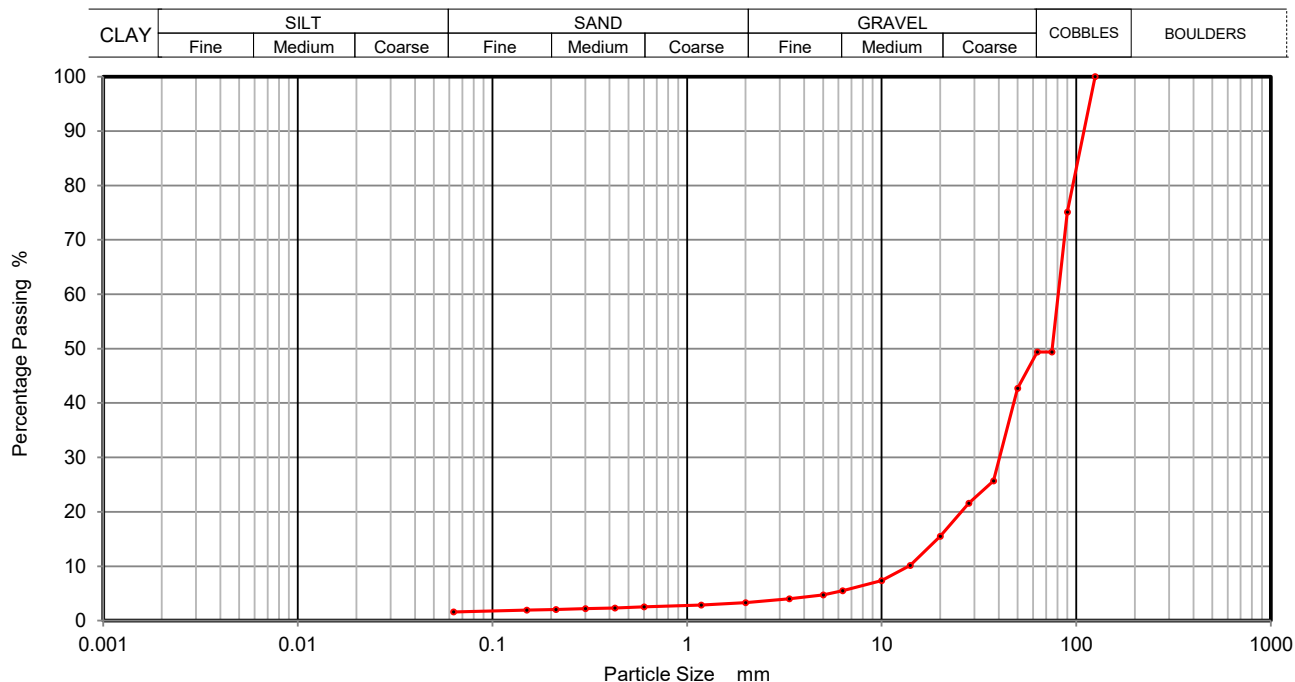
Soil Description Brown slightly fine to coarse sandy slightly silty/ clayey fine to coarse GRAVEL with cobbles

Depth Top 1.20

Depth Base 1.40

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	75		
75	49		
63	49		
50	43		
37.5	26		
28	22		
20	16		
14	10		
10	7		
6.3	5		
5	5		
3.35	4		
2	3		
1.18	3		
0.6	3		
0.425	2		
0.3	2		
0.212	2		
0.15	2		
0.063	2		

Sample Proportions	% dry mass
Cobbles	51
Gravel	46
Sand	1
Silt and Clay	2

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards

**PARTICLE SIZE DISTRIBUTION
BS 1377 Part 2:1990
Wet Sieve, Clause 9.2**

Contract Number 60330

Borehole/Pit No. TP112

Site Name Afan Adventure Park

Sample No. 1

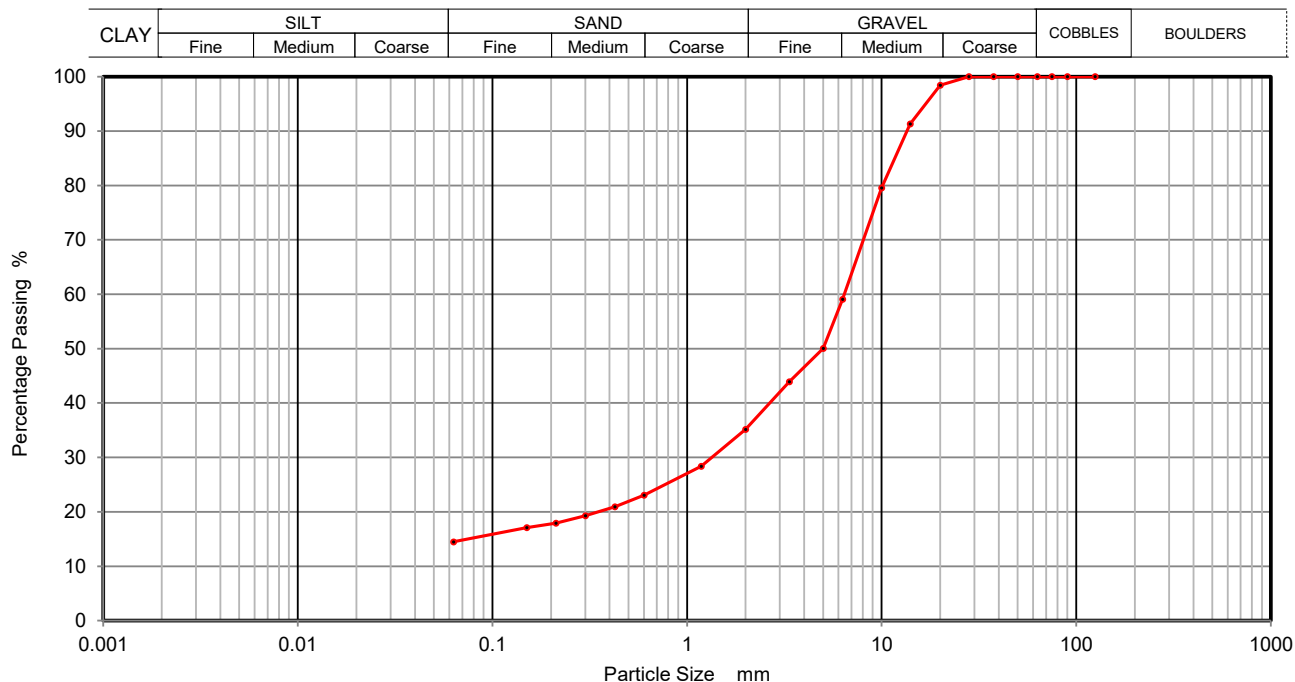
Soil Description Brown silty/ clayey fine to coarse sandy fine to coarse GRAVEL

Depth Top 1.10

Depth Base 1.40

Date Tested 03/08/2022

Sample Type B



Sieving		Sedimentation	
Particle Size mm	% Passing	Particle Size mm	% Passing
125	100		
90	100		
75	100		
63	100		
50	100		
37.5	100		
28	100		
20	98		
14	91		
10	80		
6.3	59		
5	50		
3.35	44		
2	35		
1.18	28		
0.6	23		
0.425	21		
0.3	19		
0.212	18		
0.15	17		
0.063	14		

Sample Proportions	% dry mass
Cobbles	0
Gravel	65
Sand	21
Silt and Clay	14

Remarks
Preparation and testing in accordance with BS1377 unless noted below

Operator

David Edwards