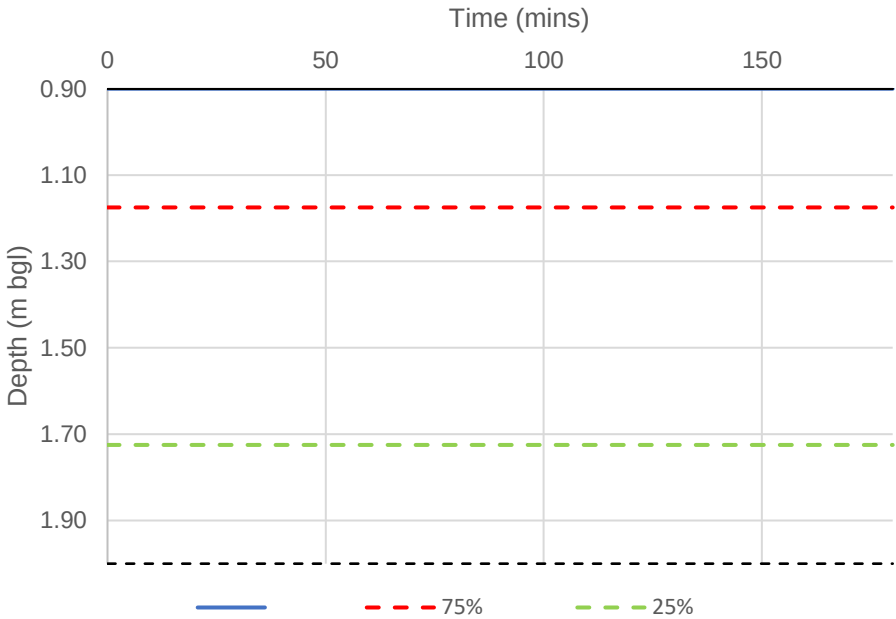


		SUTCLIFFE INVESTIGATIONS				BRE 365 Soil Infiltration Test		
		TEL: 0151 227 3155						
		FAX: 0151 227 3156						
Job No.:	33585LG	Job Name:	Former Apollo Public House					
Position Ref.:	TP102/SA	Date:	26/03/2025	Site Team:	MW/AW			
Pit Dimensions								
Depth (m)	2.00	Width (m)	0.70	Length (m)	1.50			
Depth to Water (m bgl)	0.90	Effective Depth (m)	1.10					
Soil Infiltration Test Data		Volume Outflowing between 75% and 25% of effective depth						
Time (mins)	Depth (m bgl)							
0	0.90	V_{p75-25}	=	L	x	B	x	D_{75-25}
1	0.90		=	1.50	x	0.70	x	0.55
10	0.90		=	0.17	m ³	(30% Void Allowance Made)		
20	0.90	Mean surface area through which outflow occurs, taken to be pit sides to 50% effective depth and including the base of the pit						
180	0.90							
		a_{p50}	=	L_{side} Area	+	B_{side} Area	+	Base Area
			=	1.65	+	0.77	+	1.05
			=	3.47	m ²			
Soil Infiltration Test Graph								
								
		Depth at 75% (m bgl)	1.18	Depth at 25% (m bgl)	1.73			
Infiltration Rate Calculation								
		t_{p75-25}	=	Time at 25%	-	Time at 75%		
			=		-	60	=	-
		Soil Infiltration Rate	=	$V_{p75-25} / (a_{p50} * t_{p75-25} * 60)$				
			=	-	m/s	=	-	mm/hr
Comments								
Test Failed - The test results did not provide an infiltration rate due to the inefficiencies of the ground to infiltrate. Infiltration testing has been undertaken and failed, therefore alternative drainage solutions will be required.								