

Triaxial cell consolidation : consolidation readings					
Location			Job ref.		
			Borehole/Pit no.		
Soil description			Sample No.		
			Depth		m
			Date		
Test method BS1377: Part 6: 1990 : 5.5					
Initial specimen diameter	D_o mm		Cell no.		
			kPa		
height	L_o mm		Pressure system no.		
volume	V_o mm ³		Test Temperature °C		
void ratio	e_o				
Stage no.		1	2	3	4
Effective stress applied	σ' kPa				
increment	$\delta\sigma'$ kPa				
B value (undrained stage)					
Volume change :cumulative	ΔV mL				
increment	δV mL				
$\frac{\Delta V}{V_o}$					
Height $H = H_o \left(1 - \frac{1}{3} \frac{\Delta V}{V_o}\right)$		mm			
Voids ratio $e = e_o - (1 + e_o) \frac{\Delta V}{V_o}$					
Coefficient of volume compressibility (mvi)		m ² /MN			
Time t_{50}		min			
Mean height		H mm			
Coefficient of consolidation c_{vi}		m ² /year			
Temperature correction factor					
Corrected coefficient		m ² /year			
$m_{vi} = \frac{\delta V}{V_o - \Delta V} \frac{1000}{\delta\sigma'}$		m ² /MN			
$c_{vi} = \frac{0.38 H^2}{t_{50}}$		m ² /year			
		Operator	Checked	Approved	