

Hydraulic cell consolidation test : consolidation readings

Location	Job ref.	
	Borehole/Pit no.	
Soil description	Sample No.	
	Depth	m
	Date	

Test method BS1377: Part 6: 1990 : **3.5,3.6,3.7,3.8**

Drainage conditions

Pore pressure measurement location

Cell no.

Pressure system no.

UNDRAINED LOADING

Load increment/decrement*

Stage no.

Effective stress

kPa

	Initially	After pore pressure build up		Pore pressure build-up	
Diaphragm pressure kPa		p_d		Time min	Pore pressure kPa
Stress on specimen kPa		σ			
Pore pressure kPa		u_i			
Effective stress kPa		σ'			
Compression gauge					
Effective stress after consolidation		kPa			
Back pressure for consolidation		kPa		u_b	
Excess pore pressure		$(u_f - u_b)$ kPa			

CONSOLIDATION

Average temperature °C

Date	Clock time	Elapsed time	/ t or $t^{0.485*}$	Pore pressure			Compression gauge		Volume change	
				Value	difference	dissipation	Reading	Difference	Reading	Difference
		min		u kPa	$(u_i - u)$ kPa	U %		dH mm		dV mL
		0	0		0	0		0		0

Operator

Checked

Approved