

Hydraulic cell consolidation test : calculations													
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.			
Loading conditions										Pressure system no.			
Specimen diameter Dmm				m_v calculated from change in height/volume* c_v calculated from pore pressure dissipation Initial time plot * square root time plot special power curve plot									
Initial height Ho mm													
Initial Voids ratio eo													
Stage no.	Effective stress kPa		Cumulative compression ΔH mm	Consolidation height H mm	Voids ratio change		Voids ratio e	Incremental change		Coef- ficient mv m ² /MN	Time t ₅₀ /t ₉₀ min	Time height H mm	Consolidation c _v m ² /year
	Value σ'	Incre- ment $\delta\sigma'$			cumu-lative ΔV cm ³	Incre- ment δe		height δH mm	volume δV mm ³				

Operator	Checked	Approved