

<b>UNCONFINED COMPRESSION TEST</b>						DATE	
PROJECT			EXCAVATION NUMBER		SAMPLE NUMBER		
PROVING RING DIAL NUMBER		PROVING RING NUMBER			CALIBRATION CURVE NUMBER		
PROVING RING CONSTANT, $K_r$		VERTICAL DIAL NUMBER		RATE OF LOAD APPLICATION			
FORMULAS $\text{Area} = \frac{D^2}{4} = \frac{C^2}{4K_r} \quad \text{Corrected Area, } A = \frac{A_o (\text{sq. ft.})}{1 - E} \quad \text{Unit Strain, } E = \frac{\Delta L}{L_o} \quad \text{Unit Stress} = \frac{P (\text{lb.})}{A (\text{sq. ft.})}$							
INITIAL MEASUREMENTS ON SAMPLE					AVERAGE AREA, $A_o$		
	DIAMETER, D (in.)	CIRCUMFERENCE, C (in.)	AREA (sq. in.)		SQ. IN.	SQ. FT.	
TOP							
TOP					HEIGHT, $L_o$ (in.)		
BOTTOM							
ELAPSED TIME (min.)	PROVING RING DIAL READING (0.0001 in.)	LOAD, P (lb.) (Ring Dial $\times K_r$ , or from calibration curve)	VERTICAL DIAL READING (in.)	VERTICAL DIAL DIFFERENCE, $\Delta L$ (in.)	UNIT STRAIN, E (in./in.)	CORRECTED AREA, A (sq. ft.)	UNIT STRESS (lb./sq. ft.)
WATER CONTENT (%)			UNCONFINED COMPRESSIVE STRENGTH, $q_u$ (lb./sq. ft.)				
REMARKS AND CALCULATIONS (Use reverse side, if more space is needed)							
TECHNICIAN (Signature)			COMPUTED BY (Signature)			CHECKED BY (Signature)	