DRAINED TRIAXIAL COMPRESSION TEST RESULTS

AECOM

Project Name:	TVA Kingston Dam RC Analysis
Project No.:	60095742
Client:	Tennessee Valley Authority
Location:	Kingston, TN

Test ID:	303
Soil Boring:	200-Series
Sample No.	N/A
Soil Type:	Gray Fly Ash
USCS:	ML
Specific Gravity	2.33
Sample Type:	Reconstituted
Preparation:	Moist Tamp
Type of Test:	CID-TXC

STAGE

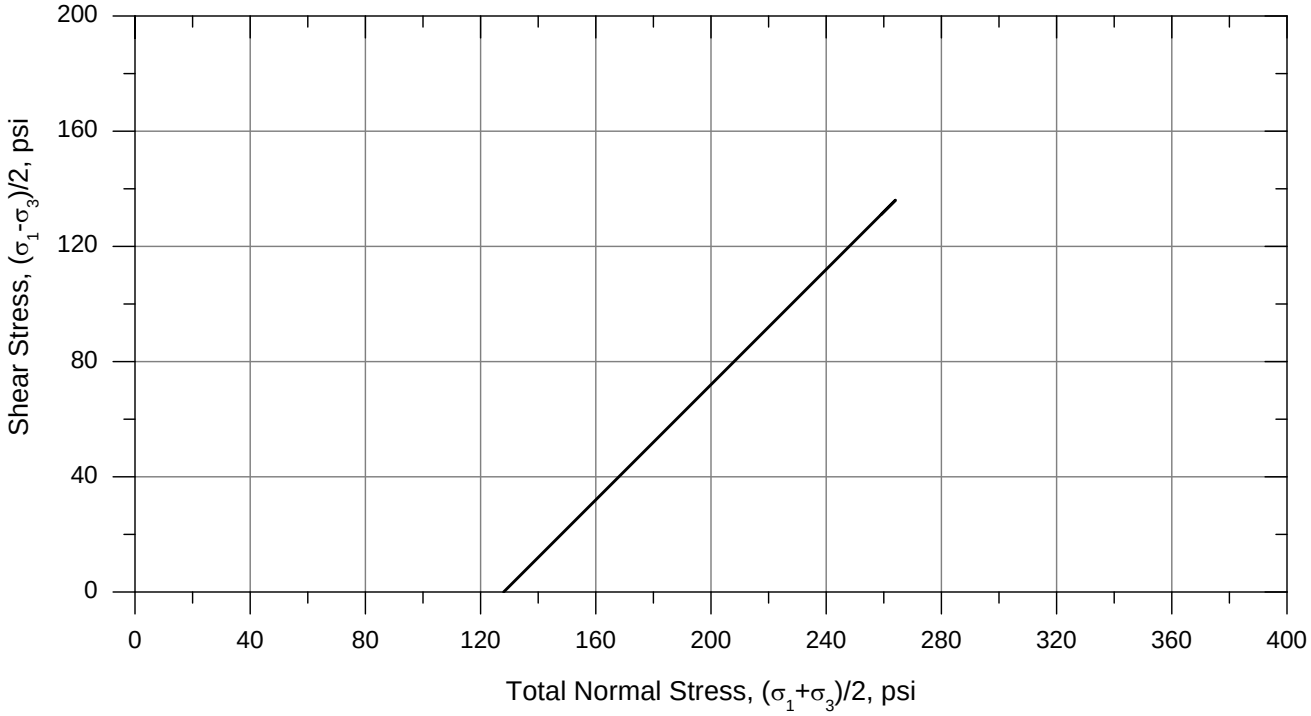
SATURATION	B (Skempton) value:	0.90
	Back Pressure, psi:	11.0
CONSOLIDATION	Type:	Isotropic
SHEAR	Type:	CID-TXC
	Strain rate, %/min:	0.009
	Max. Mobilized Friction Angle, deg:	31.0
	Max. Deviator Stress, psi:	272.1

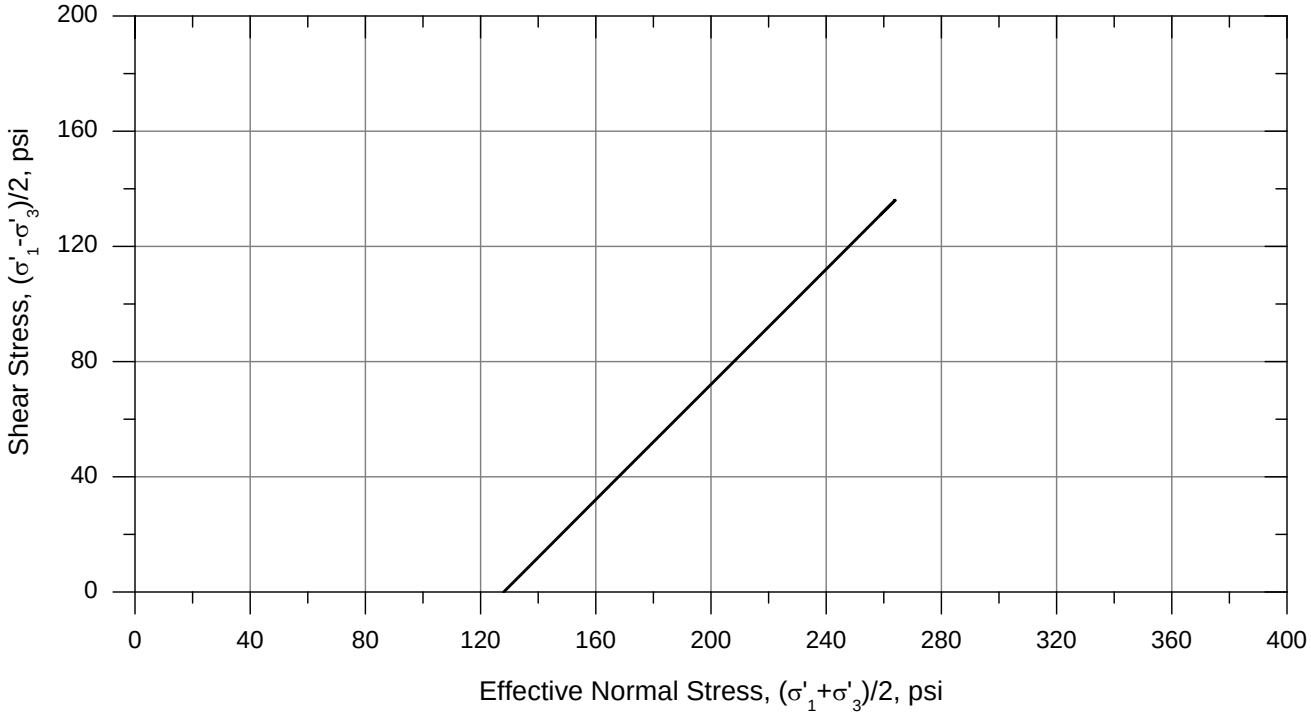
RESULTS

		CONSOLIDATION		SHEAR			
	INITIAL	INITIAL	FINAL	INITIAL	AT MAX STRESS RATIO	AT MAX DEVIATOR STRESS	FINAL
Height, mm:	161.5	162.1	158.8	158.8	146.0	146.0	139.8
Diameter, mm:	71.3	67.4	66.0	66.0	67.7	67.7	69.0
Axial Strain, %:		0.0	2.1	0.0	8.1	8.1	12.0
Volumetric Strain, %:		0.0	6.2	0.0	2.9	2.9	2.9
Deviator Stress, psi:		0.0	0.0	0.0	272.1	272.1	262.2
Vertical Effective Stress, psi:		4.0	128.0	128.0	400.0	400.0	390.1
Horizontal Effective Stress, psi:		4.0	128.0	128.0	127.9	127.9	127.9
Void Ratio:		0.96	0.84	0.84	0.79	0.79	0.79
Water Content, %:		41.4	36.2	36.2	33.9	33.9	33.9
Saturation, %:		100	100	100	100	100	100
Unit Weight, pcf:		104.7	107.4	107.4	108.8	108.8	108.8
Dry Unit Weight, pcf:		74.0	78.9	78.9	81.2	81.2	81.3

TRIAXIAL TEST RESULTS

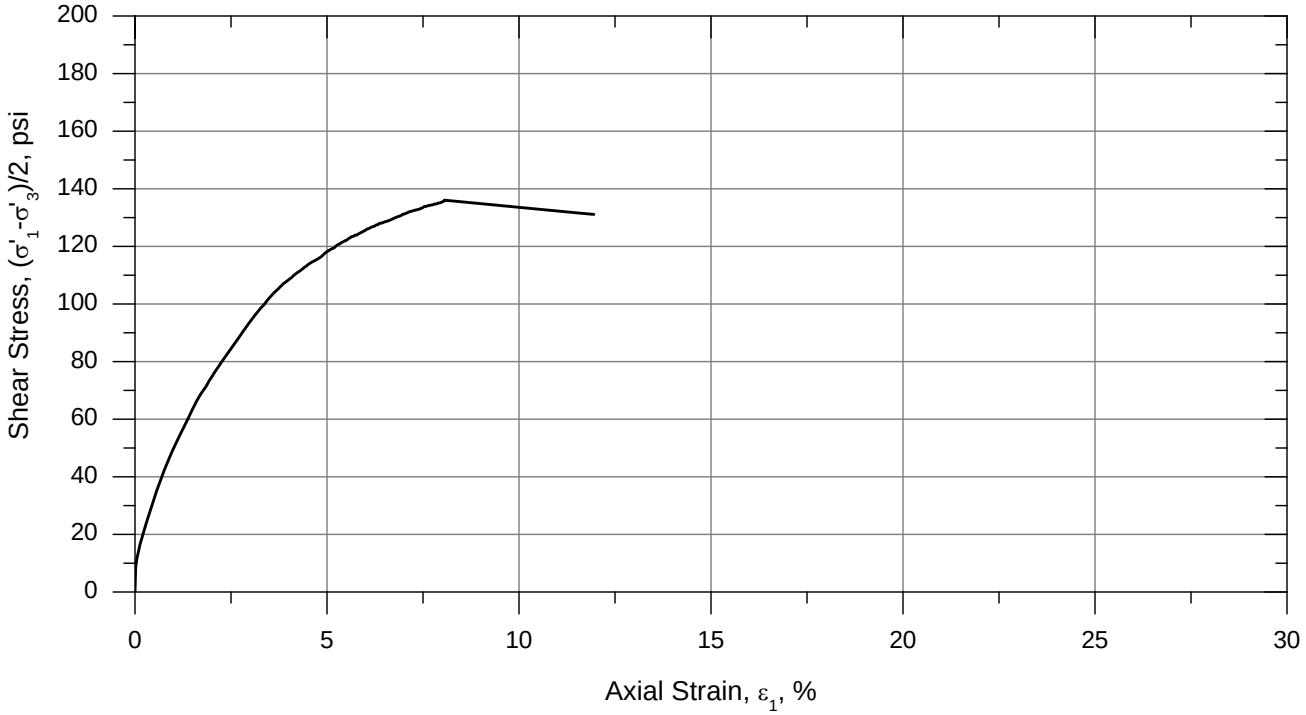
TEST ID: 303

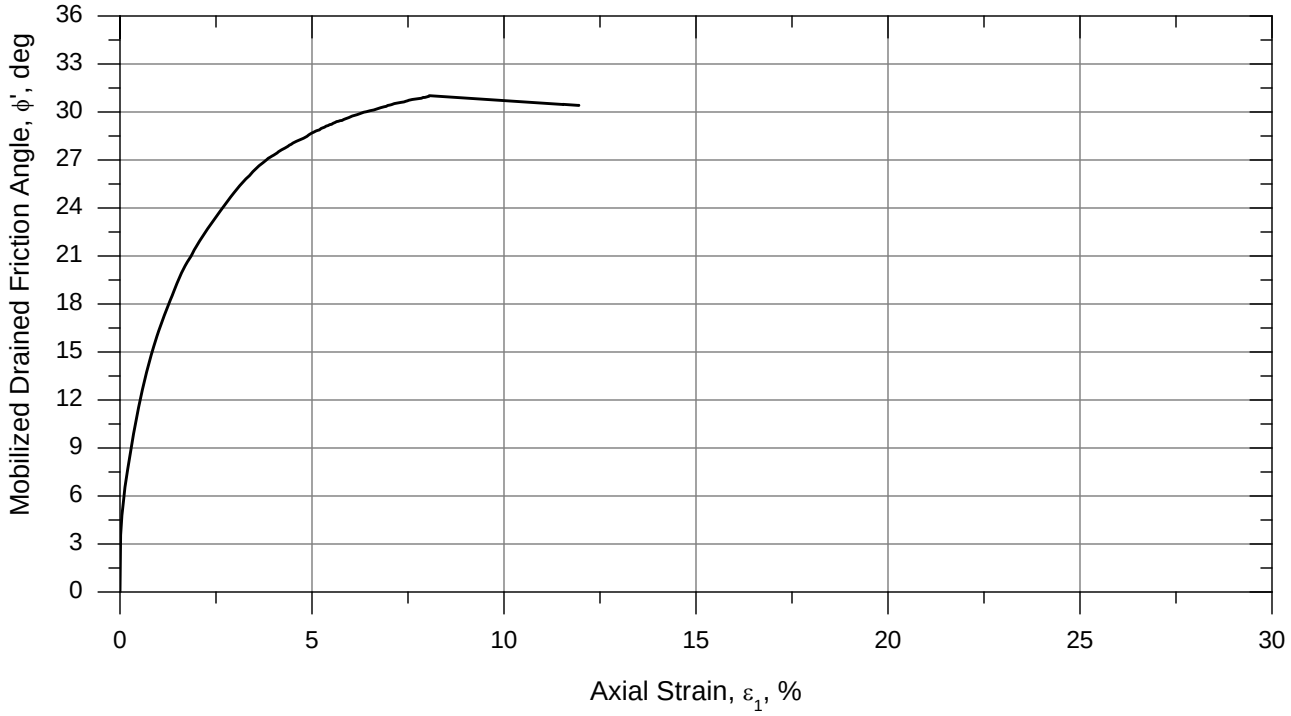




TRIAXIAL TEST RESULTS

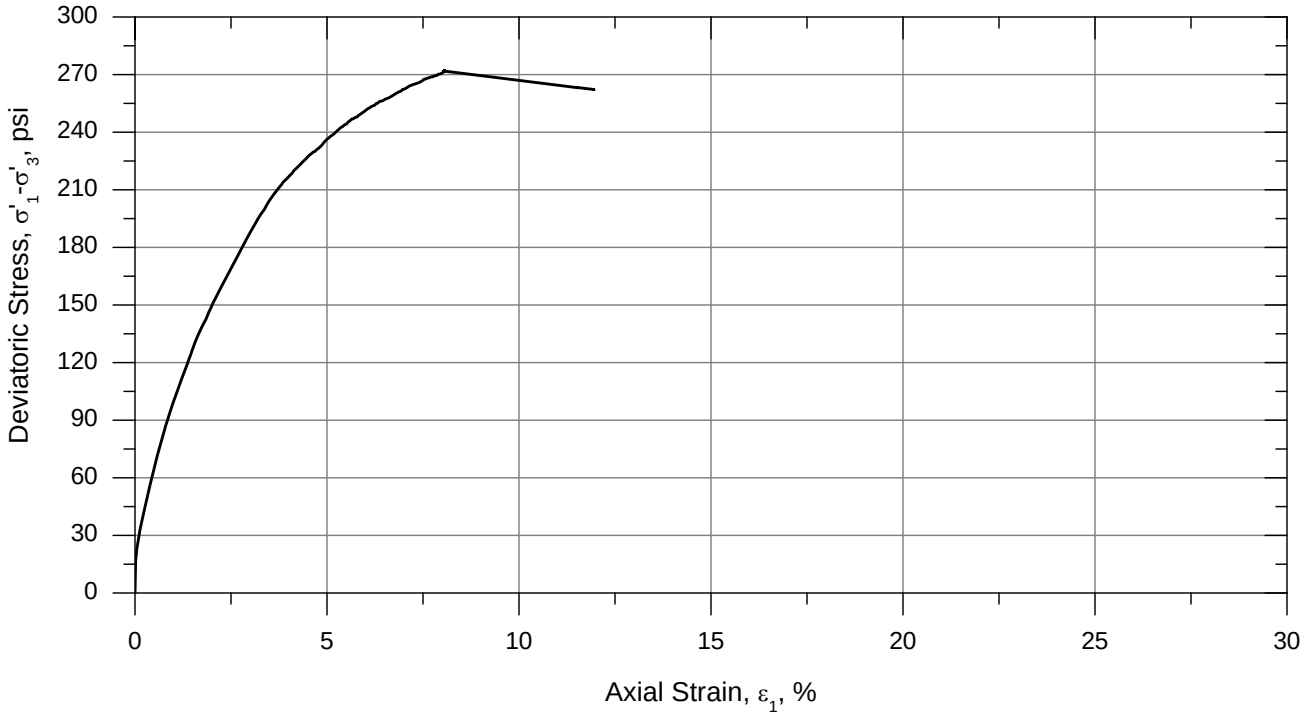
TEST ID: 303

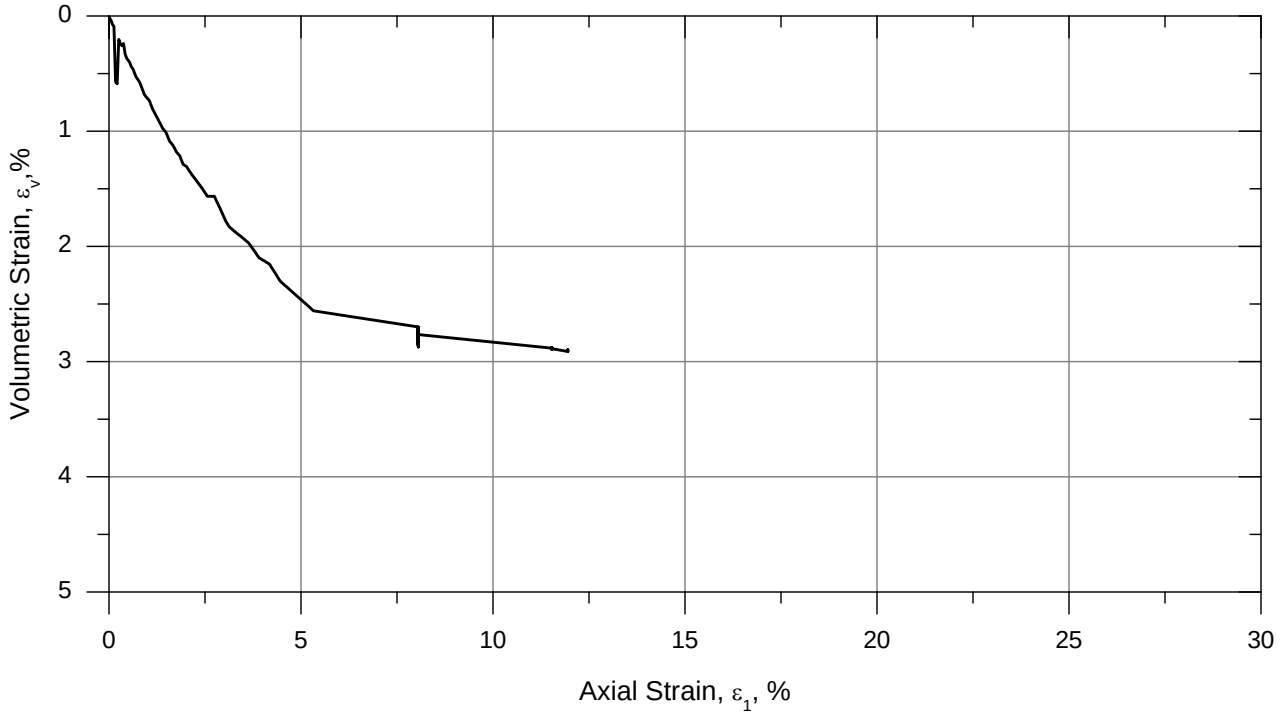


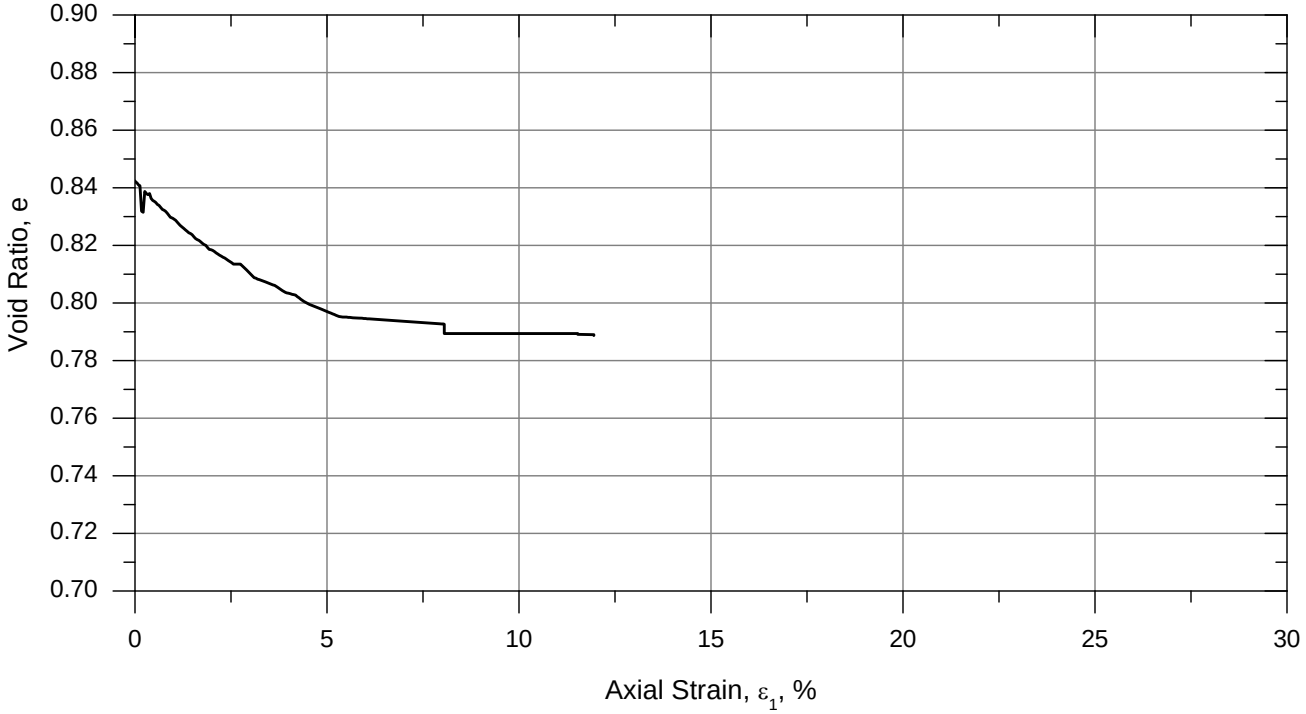
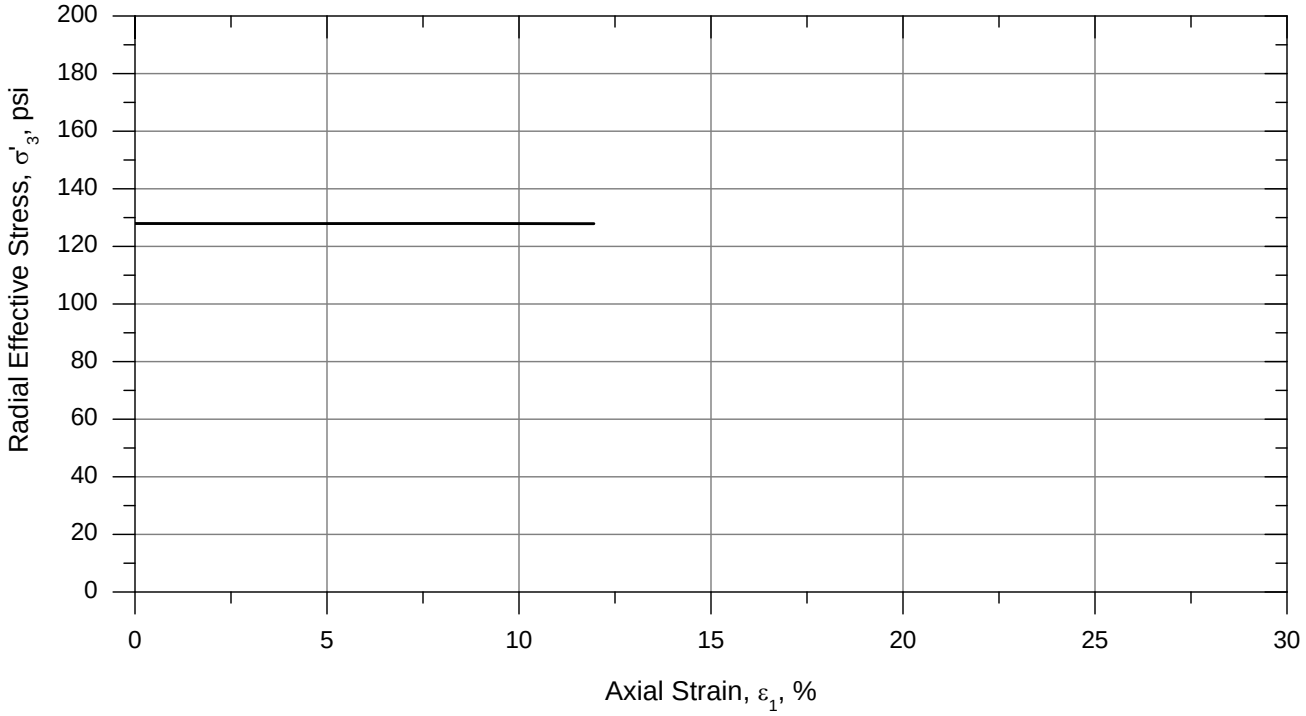


TRIAXIAL TEST RESULTS

TEST ID: 303





TRIAXIAL TEST RESULTS

TEST ID: 303