



ADVANCED TERRA TESTING

CERCHAR Abrasiveness  
ASTM D7625

Sample

CLIENT		JOB NO.	
PROJECT		LOCATION	
PROJECT NO.			
BORING NO.			
DEPTH			
SAMPLE NO.			
DATE SAMPLED			
DATE TESTED			
TECHNICIAN			
ROCK TYPE		Sandstone	
Surface Type:		Saw Cut	
Moisture Condition		As Received	
Reading A.1 (in):		0.00359	
Reading A.2 (in):		0.00692	
Reading A.3 (in):		0.00410	
Reading A.4 (in):		0.00641	
Reading A.5 (in):		0.00603	
Reading B.1 (in):		0.00474	
Reading B.2 (in):		0.00469	
Reading B.3 (in):		0.00679	
Reading B.4 (in):		0.00645	
Reading B.5 (in):		0.00536	
Average Reading (in):		0.00551	
Average Reading (mm):		0.1399	
Uncorrected CAI or CAI <sub>s</sub> :		<b>1.40</b>	
Corrected CAI:		<b>1.87</b>	
NOTES		<p>CAI<sub>s</sub> is the CAI calculated on saw cut specimens.          Corrected CAI for saw cut specimens based on R. Plinger and H. Kasling          Suggested formula CAI = 0.99*CAI<sub>s</sub> + 0.48.          Applied pins had a Rockwell Hardness of 54-56.</p>	
Data entry by:		Date:	
Checked by:		Date:	
File name:			

**Unconfined Compressive Strength  
ASTM D7012 Method D**

CLIENT	BORING NO.
JOB NO.	DEPTH
PROJECT	SAMPLE NO.
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TECHNICIAN	

**Test Parameters**

Load Rate (lb/min):	2000
Load Rate (N/min):	8896

Raw Data Files: 1a.txt, 1failure.txt

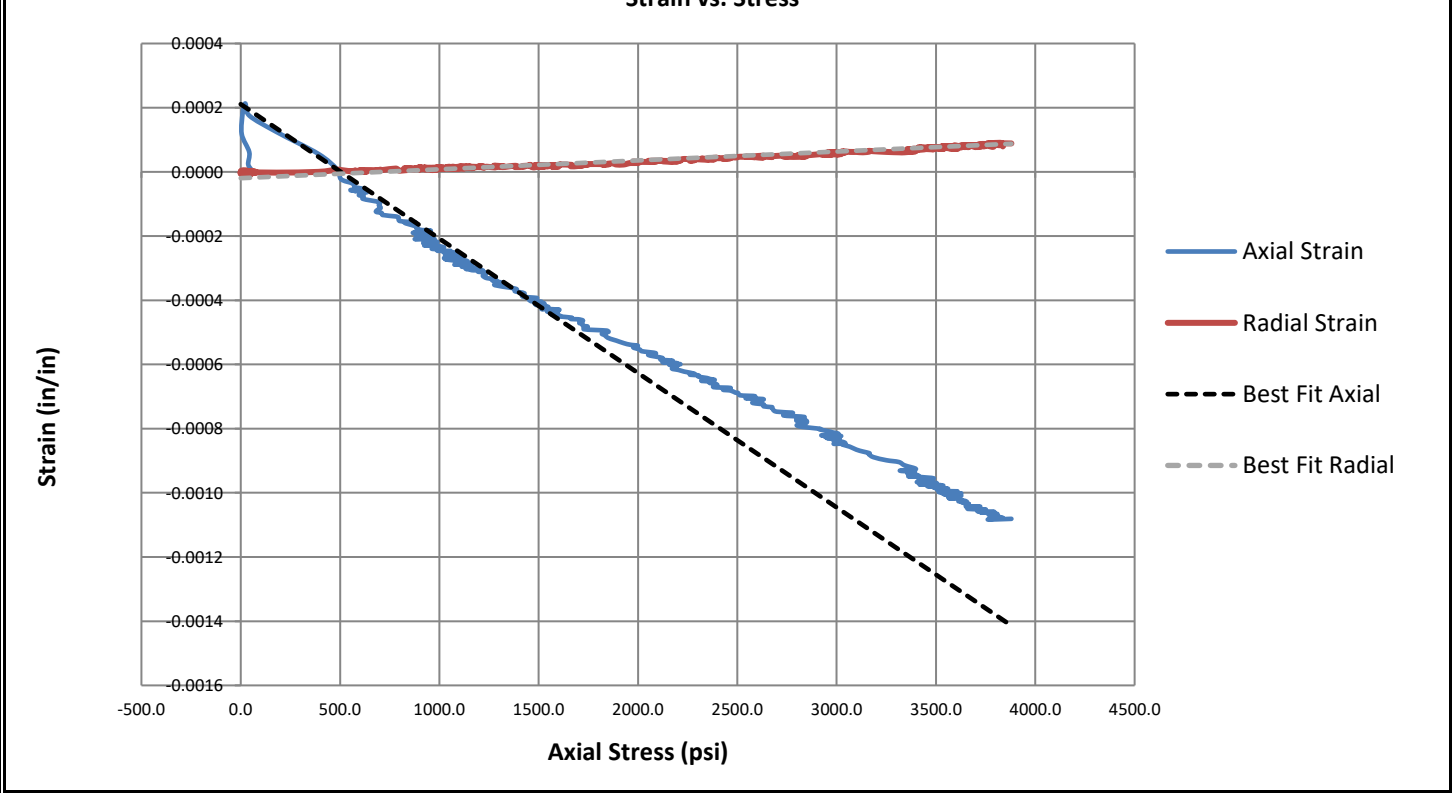
**Density Data**

Mass of Rock (g):	440.4	Initial Wet Density (pcf):	165.1
Initial Diameter (in):	1.845	Initial Wet Density (kg/m <sup>3</sup> ):	2645
Initial Height (in):	3.800		

**Test Results**

Peak Load (lbs):	27204	Failure Type:	Fracture / Bedding
Compressive Strength (psi):	10175	Height to Diameter Ratio:	2.06:1
Compressive Strength (MPa):	70	Poisson's Ratio:	0.066
		Young's Modulus (psi):	2.39 x10 <sup>6</sup>

**Strain vs. Stress**



NOTES:

Data entry by:	Date:
Checked by:	Date:
File name:	

**Unconfined Compressive Strength  
ASTM D7012 Method D**

CLIENT  
JOB NO.  
PROJECT  
PROJECT NO.  
LOCATION  
DATE TESTED  
TECHNICIAN

BORING NO.  
DEPTH  
SAMPLE NO.  
DATE SAMPLED  
ROCK TYPE

Before Test



NOTES

Picture File:  
File name:

**Unconfined Compressive Strength  
ASTM D7012 Method D**

CLIENT  
JOB NO.  
PROJECT  
PROJECT NO.  
LOCATION  
DATE TESTED  
TECHNICIAN

BORING NO.  
DEPTH  
SAMPLE NO.  
DATE SAMPLED  
ROCK TYPE

After Test



NOTES

Picture File:  
File name: