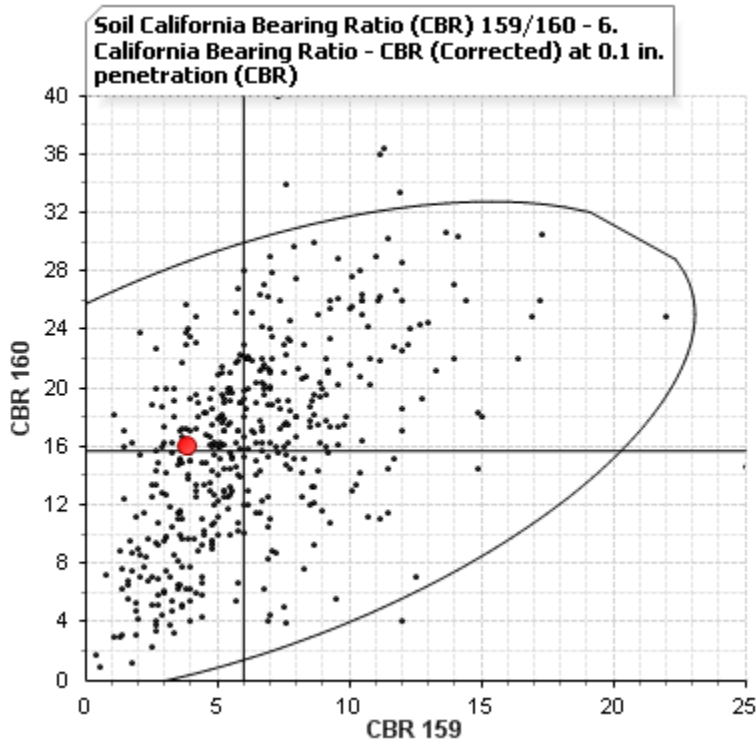


Sample Round Test Property Youden Diagram



● Your point is shown in red

CBR 159

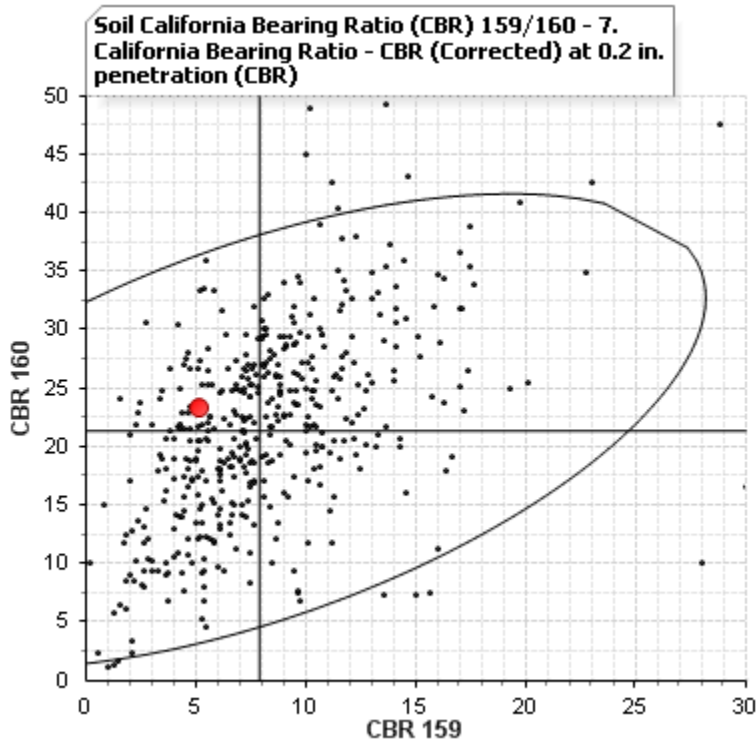
Avg	1S	1S%	1S Within Lab	1S% Within Lab
5.97	2.86	47.9	3.82	64.0

CBR 160

Avg	1S	1S%	1S Within Lab	1S% Within Lab
15.72	6.49	41.3	3.82	24.3

Final Report Date: 9/23/2009

Sample Round Test Property Youden Diagram



● Your point is shown in red

CBR 159

Avg	1S	1S%	1S Within Lab	1S% Within Lab
7.88	3.62	45.9	4.47	56.7

CBR 160

Avg	1S	1S%	1S Within Lab	1S% Within Lab
21.39	7.64	35.7	4.47	20.9

Final Report Date: 9/23/2009

Individual Enrollment Ratings Sheet



AASHTO Materials Reference Laboratory

Individual Enrollment Rating Sheet
Soil California Bearing Ratio (CBR) 159/160
Final Report Date: 9/23/2009

PSP Enrollment #4782
Jay Kay Testing, Baltimore, MD US

Submitted by jkammerer@jaykaytesting.com on 9/2/2009 at 5:40 PM
[View Your Data Submission Details](#)

The Z-Score indicates the number of standard deviations from the average value. The Z-Score is determined by the following calculation:

$$\text{Z-Score} = (\text{Laboratory Test Result} - \text{Average Value}) / (\text{Standard Deviation})$$

The laboratory Rating calculation is based on the absolute value of the Z-Score (or number of standard deviations from the average). The following describes the laboratory Rating system:

- If Z-Score ≤ 1 Then Rating = 5
- If Z-Score > 1 And ≤ 1.5 Then Rating = 4
- If Z-Score > 1.5 And ≤ 2 Then Rating = 3
- If Z-Score > 2 And ≤ 2.5 Then Rating = 2
- If Z-Score > 2.5 And ≤ 3 Then Rating = 1
- If Z-Score > 3 Then Rating = 0

A negative sign on a Z-Score or Rating indicates that the laboratory's result was below the average, while a positive Z-Score or Rating indicates that the laboratory's result was above the average.

Moisture Content of Soils

Water (Moisture) Content as Received (percent) - T265/D2216

[View Youden Diagram](#) | [View Performance Chart](#)

	Sample 159						Sample 160						Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating	
1	450	1.5	1.33	**	**	**	0.7	0.68	**	**	**	**	**	**	

	Labs	Data			Score		Data			Score			Score	Rating
6	454	3.8	5.97	2.86	-0.76	-5	16.1	15.72	6.49	0.06	5	3.82	0.47	5

California Bearing Ratio
CBR (Corrected) at 0.2 in. penetration - T193/D1883
[View Youden Diagram](#) | [View Performance Chart](#)

		Sample 159					Sample 160					Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
7	453	5.1	7.88	3.62	-0.77	-5	23.3	21.39	7.64	0.25	5	4.47	0.74	5

** Ratings Suppressed -- No Data Submitted or Data Out of Accepted Range

**** Suppressed Items:**
Moisture Content of Soils (*Water (Moisture) Content as Received (CBR)*) - Results for the water content as received are for informational purposes only, so ratings are not provided.