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AASHTO Materials Reference Laboratory **Individual Enrollment Rating Sheet**

Coarse Aggregate 185/186 Final Report Date: 11/5/2014

PSP Enrollment #3879 University of Arkansas Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 9/24/2014 at 2:25 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:

Z-Score = (Laboratory Test Result - Average Value) / (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.

 $For more information on ratings, please review \underline{Proficiency Sample \ Ratings: Being \ Average \ Has \ Never \ Been}$

Material Finer Than 75-μm (No. 200) Sieve **Percentage Finer than the 75-μm sieve by washing** (0.01 percent) - T11/C117

VIEW IO	uuen Diag	Talli View	remoninan	CE CHAIL											
				Sample 185					Sample 186			Repeata	bility(withi	n-lab)	
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	1\$	Z-Score	Rating	1\$	Z-Score	Lab Rating	
1	1707	0.42	0.467	0.101	-0.46	-5	0.44	0.518	0.103	-0.76	-5	0.047	-0.47	-5	

Sieve Analysis of Aggregates

Total Material Passing the 25.0-mm (1-in.) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

Total Lab Data Avg 1S Z-Score Rating Lab Data Avg 1S Z-Score Rating	1S Z-Score	Lah
	15 2 500.0	Lab
Labs Labs Labs Labs Labs Labs Labs Labs		Rating
2 1717 99.6 100.00 ** ** ** 100 100.00 ** ** **	** **	**

Sieve Analysis of Aggregates

Total Material Passing the 19.0-mm (3/4-in.) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

Sample 185								Sample 186						Repeatability(within-lab)		
		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating	
[3	1717	87.0	86.90	0.61	0.17	5	86.2	85.89	0.69	0.45	5	0.44	0.34	5	

Sieve Analysis of Aggregates

Total Material Passing the 12.5-mm (1/2-in.) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

				Sample 185			Sample 186						Repeatability(within-lab)		
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab	
	Labs					_		_			_			Rating	
4	1717	51.5	50.78	1.10	0.65	5	51.4	50.55	1.10	0.78	5	0.50	0.20	5	

Sieve Analysis of Aggregates

Total Material Passing the 9.5-mm (3/8-in.) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Charles

Sample 185								Sample 186						in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
5	1716	16.3	16.54	0.65	-0.38	-5	15.8	15.65	0.61	0.24	5	0.31	0.90	5

Sieve Analysis of Aggregates

Total Material Passing the 4.75-mm (No. 4) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

				Sample 185					Sample 186	Repeatability(within-lab)				
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs											i		Rating
6	1716	0.7	0.90	0.34	-0.60	-5	0.8	0.94	0.34	-0.40	-5	0.10	0.49	5

Coarse Aggregate Specific Gravity and Absorption

Bulk Specific Gravity [or Relative Density, OD for C127] - T85/C127 View Youden Diagram | View Performance Chart

_			·		Sample 185			Sample 186						Repeatability(within-lab)		
		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab	
		Labs													Rating	
	7	1605	2.815	2.8121	0.0078	0.38	5	2.816	2.8089	0.0077	0.92	5	0.0040	0.74	5	

Coarse Aggregate Specific Gravity and Absorption Bulk Specific Gravity, SSD [or Relative Density, SSD for C127] - T85/C127 View Youden Diagram | View Performance Chart

				Sample 185					Sample 186		Repeatability(within-lab)			
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	15	Z-Score	Lab Rating
8	1605	2.824	2.8237	0.0061	0.05	5	2.826	2.8211	0.0059	0.83	5	0.0034	0.96	5

Coarse Aggregate Specific Gravity and Absorption

Apparent Specific Gravity [or Apparent Relative Density for C127] - T85/C127 View Youden Diagram | View Performance Chart

				Sample 185					Sample 186			Repeata	bility(with	n-lab)
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs													Rating
9	1604	2.842	2.8454	0.0044	-0.77	-5	2.844	2.8437	0.0038	0.09	5	0.0027	0.98	5

Coarse Aggregate Specific Gravity and Absorption **Absorption** (0.01 percent) - T85/C127 View Youden Diagram | View Performance Chart Sample 185 Sample 186 Repeatability(within-lab) 15 Z-Score Lab Data 15 Z-Score Total Lab Data Avg Rating Avg Z-Score Rating 15 Lab Rating Labs 0.081 0.432 0.032 Abrasion of Coarse Aggregate Percentage of Loss by Abrasion and Impact (0.01 percent) - T96/C131

View Youden Diagram | View Performance Chart

Sample 185 Repeatability(within-lab) Sample 186 Lab Data 15 Z-Score Rating Z-Score Lab Data Avg 15 Z-Score Rating Avg Rating Labs 11 604 41.286 2.497 38.950 2.126 Sulfate Soundness of Aggregates

Sodium Sulfate-Percentage of 19.0 to 9.5-mm fraction passing 8.0-mm sieve (0.01 percent) - T104/C88 View Youden Diagram | View Performance Chart Sample 185 Repeatability(within-lab) ample 186 Rating Rating Lab Data 15 Z-Score Lab Data 15 Z-Score 15 Z-Score Lab Avg Rating Labs 12 356 0.749 0.463 0.795 0.463 Sulfate Soundness of Aggregates Sodium Sulfate-Percentage of 9.5 to 4.75-mm fraction passing 4.0-mm sieve (0.01 percent) - T104/C88 <u>View Youden Diagram</u> | <u>View Performance Chart</u> Sample 185 Repeatability(within-lab) Total Lab Data 15 7-Score Rating Lab Data Avg 15 7-Score Rating 15 Z-Score Lah Labs 355 Rating 1.150 0.744 1.076 0.661 13 Sulfate Soundness of Aggregates

Magnesium Sulfate-Percentage of 19.0 to 9.5-mm fraction passing 8.0-mm sieve (0.01 percent) - T104/C88

View Youden Diagram | View Performance Chart Sample 185 Sample 186

Sample 185 I 7.5-Score | Rating | Lab Data | Avg | 15 Repeatability(within-lab) Rating 15 Z-Score Rating Z-Score 15 Avg Lab Labs Rating 14 1.587 0.867 1.588 0.832 160 Sulfate Soundness of Aggregates

Magnesium Sulfate-Percentage of 9.5 to 4.75-mm fraction passing 4.0-mm sieve (0.01 percent) - T104/C88

View Youden Diagram | View Performance Chart
Sample 185
Sample 186
Sample 186 Repeatability(within-lab) Z-Score Total Lab Data 15 Z-Score Rating Lab Data Z-Score Rating Avg 15 15 Lab Labs Rating 1.838 15 159 1.648 -- No Data Submitted or Data Out of Accepted Range Ratings Suppressed Suppressed Items: Sieve Analysis of Aggregates (Total Material Passing the 25.0-mm (1-in.) Sieve) - Since nearly all laboratories submitting results for Test No. 2 reported 100 percent passing, no ratings have been assigned for this test and the scatter diagram on the AMRL website has been omitted.



