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Coarse Aggregate 189/190 Final Report Date: 11/6/2015

PSP Enrollment #3879 University of Arkansas Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 9/29/2015 at 11:45 AM

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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</li>
   If Z-Score > 2 And <= 2.5 Then Rating = 2</li>
   If Z-Score > 2.5 And <= 3 Then Rating = 1</li>
- 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 Youden Diagram! View Performance Chart

-			, <u>, , , , , , , , , , , , , , , , , , </u>		Sample 189					Sample 190			Repeatability(within-lab)		
		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
L		Labs													Rating
	1	1720	0.24	0.210	0.042	0.71	5	0.23	0.213	0.041	0.41	5	0.015	-0.60	-5

Sieve Analysis of Aggregates

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

V1011				Sample 189					Sample 190		Repeatability(within-lab)			
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs													Rating
2	1736	100	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 Chala 180

	Sample 189								Sample 190			Repeatability(within-lab)			
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1S	Z-Score	Lab Rating	
3	1737	88.1	88.01	0.80	0.11	5	88.1	88.00	0.81	0.13	5	0.48	0.02	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 190					Repeatability(within-lab)		
Total Lab Data Avg 1S	Z-Score   F	Rating   Lab Data	Avg	1S	Z-Score	Rating	15	Z-Score	Lab	
Labs		ŭ	"			, ĭ		1 1	Rating	
4 1737 <b>52.2</b> 51.27 1.01	0.92	5 53.0	51.91	1.00	1.10	4	0.49	0.23	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 Chart

 	uucii Diuş	rain riew	remonition	Sample 189			Sample 190						Repeatability(within-lab)		
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating	
5	1736	18.2	17.88	0.78	0.41	5	19.1	18.23	0.80	1.08	4	0.42	0.91	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 189			Sample 190						Repeatability(within-lab)			
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab		
	Labs													Rating		
6	1737	0.7	0.51	0.14	1.34	4	0.7	0.54	0.15	1.08	4	0.08	-0.28	-5		

Coarse Aggregate Specific Gravity and Absorption

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

Ť			rain rien		Sample 189					Sample 190	Sample 190				
		Total	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	<b>1</b> S	Z-Score	Lab
L		Labs													Rating
-[	7	1603	2.842	2.8396	0.0057	0.42	5	2.841	2.8390	0.0053	0.39	5	0.0030	-0.08	-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 189								Sample 190		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	1604	2.848	2.8466	0.0047	0.29	5	2.847	2.8460	0.0042	0.24	5	0.0026	-0.10	-5

Coarse Aggregate Specific Gravity and Absorption

Apparent Specific Gravity [or Apparent Relative Density for C127] - T85/C127

view Youden Diag	gramı view	Perrorman	ce Chart						
			Sample 189					Sample 190	
Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	I

				Sample 189					Sample 190		Repeatability(within-lab)			
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs													Rating
9	1603	2.859	2.8599	0.0038	-0.24	-5	2.859	2.8593	0.0035	-0.08	-5	0.0022	0.20	5

Coarse Aggregate Specific Gravity and Absorption **Absorption** (0.01 percent) - T85/C127 View Youden Diagram | View Performance Chart Sample 189 Sample 190 Repeatability(within-lab) 15 Lab Data 15 Z-Score Z-Score Total Lab Data Avg Z-Score Rating Avg Rating 15 Lab Rating Labs 10 1601 0.250 0.051 0.22 0.251 0.051 0.021 Abrasion of Coarse Aggregate Percentage of Loss by Abrasion and Impact (0.01 percent) - T96/C131

View Youden Diagram | View Performance Chart

Sample 189 Repeatability(within-lab) Sample 190 Lab Data 15 Z-Score Rating Z-Score Lab Data 15 Z-Score Rating Avg Avg Rating Labs 11 596 0.744 15.578 0.718 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 189 Repeatability(within-lab) ample 190 Rating Rating Lab Data 15 Z-Score Lab Data 15 Z-Score 15 Z-Score Lab Avg Rating Labs 12 340 0.149 0.112 0.153 0.116 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 189 Repeatability(within-lab) Total Lab Data 15 7-Score Rating Lab Data Avg 15 7-Score Rating 15 Z-Score Lah Rating 340 0.226 0.154 0.226 0.157 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 189 Sample 190

Sample 190

1 7 Score | Rating | Lab Data | Avg | 15 Repeatability(within-lab) Rating 15 Z-Score Rating Z-Score 15 Avg Lab Labs Rating 14 0.271 0.227 0.271 0.201 149 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 189
Sample 190
Sample 190
15 Repeatability(within-lab) Z-Score Rating Total Lab Data 15 Z-Score Rating Lab Data 15 15 Z-Score Avg Lab Labs Rating 0.434 0.324 149 0.312 Resistance to Abrasion by Micro-Deval (Coarse Aggregate) Percentage of Loss in the Micro-Deval (0.01 percent) - T327/D6928 View Youden Diagram | View Performance Chart Sample 189 Repeatability(within-lab) Sample 190 Rating Z-Score Lab Data 15 Z-Score Rating Avg Rating Labs 16 79 4 869 0.744 4 848 0.738 Ratings Suppressed Sieve Analysis of Aggregates (Total Material Passing the 25.0-mm (1-in.) Sieve) - For informational purposes only.



