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Fine Aggregate 183/184 Final Report Date: 3/26/2014

PSP Enrollment #3879 University of Arkansas Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 2/17/2014 at 3:26 PM

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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
 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.

Material Finer Than 75- μm (No. 200) Sieve Total Oven Dry Mass of Specimen Before Washing (0.1 g) - T11/C117

VIEW TO	uuen Diag	statti view	renomian	Sample 183					Sample 184			Repeata	bility(withi	in-lab)
	Total Labs	Lab Data	Avg	1S	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
1	1674	510.5	510.14	**	**	**	443.9	456.29	**	**	**	**	**	**

Material Finer Than 75-µm (No. 200) Sieve Percentage Finer than the 75-µm sieve by washing (0.01 percent) - Т11/С117

View Youden Diagram | View Performance Chart

					Sample 183					Sample 184			Repeata	bility(with	in-lab)
		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
-[2	1673	0.49	0.510	0.104	-0.19	-5	0.70	0.866	0.127	-1.31	-4	0.063	-1.64	-3

Sieve Analysis of Aggregates

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

-	new to	uden Diag	statti view	renomian	Sample 183					Sample 184			Repeata	bility(with	in-lab)
		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
	3	1682	99.5	99.61	**	**	**	99.7	99.28	**	**	**	**	**	**

Sieve Analysis of Aggregates

Total Material Passing the 2.36-mm (No. 8) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

•			, <u>, , , , , , , , , , , , , , , , , , </u>		Sample 183					Sample 184			Repeata	bility(with	in-lab)
		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
		Labs													Rating
	4	1682	84.4	84.88	0.32	-1.49	-4	82.9	82.73	0.77	0.22	5	0.50	0.92	5

Sieve Analysis of Aggregates

Total Material Passing the 1.18-mm (No. 16) Sieve (0.1 percent) - T27/C136

View Youden Diagram | View Performance Chart

				Sample 183					Sample 184			Repeata	bility(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
														rtating
5	1682	62.1	62./4	0.58	-1.11	I -4	60.6	60.54	1 0.78	0.07	5	0.47	1.06	4 4

Sieve Analysis of Aggregates

Total Material Passing the 600-µm (No. 30) Sieve (0.1 percent) - T27/C136 View Youden Diagram | View Performance Chart

-					Sample 183					Sample 184			Repeata	bility(with	in-lab)
Г		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
L		Labs													Rating
-[6	1682	33.3	33.98	0.84	-0.81	-5	32.5	32.91	0.84	-0.50	-5	0.29	0.65	5

Sieve Analysis of Aggregates
Total Material Passing the 300-μm (No. 50) Sieve (0.1 percent) - T27/C136
View Youden Diagram | View Performance Chart

				Sample 183					Sample 184			Repeata	bility(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
7	1682	10.8	11.33	0.38	-1.40	-4	10.1	10.56	0.38	-1.22	-4	0.15	0.33	5

Sieve Analysis of Aggregates
Total Material Passing the 150-µm (No. 100) Sieve (0.1 percent) - T27/C136

1	riew yo	uden Diaş	<u>gram view</u>	Performan	ice Chart											
					Sample 183					Sample 184			Repeata	bility(withi	in-lab)	
		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating	
ľ	8	1682	2.1	2.34	0.17	-1.38	-4	2.0	2.43	0.16	-2.71	-1	0.10	-1.37	-4	

Sieve Analysis of Aggregates Total Material Passing the 75- μm (No. 200) Sieve (0.01 percent) - T27/C136

- 1	view to	uuen Dias	raiii view	Periorilari	ce chart										
					Sample 183					Sample 184			Repeata	bility(withi	n-lab)
		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1\$	Z-Score	Lab Rating
		Laus													nating
	9	1681	0.61	0.616	0.102	-0.06	-5	0.81	1.000	0.106	-1.79	-3	0.074	-1.76	-3

Fine Aggregate Specific Gravity and Absorption

		gram View		Sample 183	1 = 0		1		Sample 184	1 = 0			bility(with	
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
.0	1530	2.610	2.6061	0.0130	0.30	5	2.611	2.6059	0.0127	0.40	5	0.0068	0.13	5
		pecific Gravi		orption Density, SSD f	or C128] -	T84/C128								
v Yo	uden Dia	gram View		ce Chart Sample 183					Sample 184			Repeata	bility(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	1S	Z-Score	Lab Rating
.1	1531	2.627	2.6233	0.0101	0.37	5	2.627	2.6232	0.0097	0.39	5	0.0057	0.01	5
arei	nt Specifi	pecific Gravi c Gravity [o gram View	r Apparent	Relative Den ice Chart	sity for C1	28] - T84/	C128							
	Total	Lab Data	Avg	Sample 183	Z-Score	Rating	Lab Data	Avg	Sample 184	Z-Score	Rating	1S	bility(with Z-Score	Lab
2	1529	2.654	2.6511	0.0089	0.33	5	2.653	2.6516	0.0090	0.15	5	0.0051	-0.21	Rating -5
orpt	ion (0.01	pecific Gravi percent) - 1	784/C128	-										
v Yo	uden Dia	gram View		ce Chart Sample 183					Sample 184			Repeata	bility(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
13	1527	0.62	0.643	0.153	-0.15	-5	0.60	0.654	0.155	-0.35	-5	0.073	-0.30	-5
d Eq			Performan	(whole numl ice Chart Sample 183	ber) - T176	/D2419			Sample 184			Repeata	bility(with	in-lab)
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
4	Labs 882		93.6	2.7				93.2	2.7					Rating
eria	l Finer Th	s of Aggregann the 1.18 gram View	R-mm Sieve Performan	, Na (0.01 per ice Chart Sample 183	rcent) - T10	04/C88			Sample 184			Repeata	bility(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	15	Z-Score	Lab Rating
5	336		1.866	1.286				1.780	1.216					
v to	uuen Dia	granij view												
	Total Labs	Lab Data	Avg	ce Chart Sample 183	Z-Score	Rating	Lab Data	Avg	Sample 184	Z-Score	Rating	1\$	bility(with Z-Score	Lab Rating
		Lab Data		Sample 183	Z-Score	Rating	Lab Data	Avg 1.006		Z-Score	Rating			Lab
6 ate S	Labs 336 Soundnes	 ss of Aggreg	Avg 1.032	183 15 0.668				_	15			1\$	Z-Score	Lab Rating
.6 ate S	Labs 336 Soundnes	 ss of Aggreg	Avg 1.032 ates -µm Sieve,	Sample 183 1S 0.668 Na (0.01 percond Chart				_	15 0.668			1S 	Z-Score	Lab Rating
.6 ate S	Labs 336 Soundnes Il Finer Thuden Dia	 ss of Aggregation the 300	Avg 1.032 ates -µm Sieve,	Sample 183 1S 0.668				_	15			1S 	Z-Score	Lab Rating in-lab)
6 ate 9 eria 7 Yo	Soundnes I Finer Thuden Dia	ss of Aggreganan the 300-	Avg 1.032 ates - µm Sieve, Performan	Sample 183	 cent) - T104	1/C88		1.006	15 0.668 Sample 184			1S Repeata	Z-Score bility(with	Lab Rating
6 ate S eria 7 ate S eria	Soundnes I Finer Thuden Dia Total Labs 334 Soundnes	ss of Aggreg. an the 300- gram View Lab Data ss of Aggreg.	Avg 1.032 ates	Sample 183 15 0.668 Na (0.01 perce Chart Sample 183 15 0.674 , Mg (0.01 perce Chart	zent) - T104	1/C88 Rating	 Lab Data	1.006	15 0.668 Sample 184 15 0.664	z-Score	Rating	Repeata 15	z-Score bility(with z-Score	Lab Rating in-lab) Lab Rating
ate Seria	Labs 336 Soundness I Finer Thuden Dia Labs 334 Soundness I Finer Thuden Dia	ss of Aggregant the 300-gram View Lab Data ss of Aggregant the 1.18	Avg 1.032 ates	Sample 183 15 0.668 Na (0.01 percoce Chart Sample 183 15 0.674 Mg (0.01 pe	zent) - T104	1/C88 Rating	 Lab Data	1.006	1S 0.668 Sample 184	z-Score	Rating	Repeata 15	z-Score bility(with	in-lab) Lab Rating in-lab) Lab Rating in-lab) Lab
6 eria 7 ate \$ eria v Yo	Labs 336 Soundness Il Finer Thuden Dia Total Labs 334 Soundness Il Finer Thuden Dia	ss of Aggreg- nan the 300- gram View Lab Data Lab Data ss of Aggreg- nan the 1.18 gram View	Avg 1.032 ates µm Sieve, Performan Avg 0.953 ates -mm Sieve	Sample 183 1S 0.668 Na (0.01 percice Chart Sample 183 1S 0.674 Mg (0.01 percice Chart Sample 183 1S	z-Score	 1/C88 Rating 04/C88	Lab Data	1.006 Avg O.931	Sample 184 15 0.664	Z-Score	Rating	Repeata 1S Repeata	z-Score bility(with z-Score	in-lab) Lab Rating in-lab) Lab Rating
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mp	642		44.000	**	**	**			**	**	**	**	**	Rating **
ıρ		44.47	44.823	**	**	**	44.57	44.738	**	**	**	**	**	**
np	acted Vo	id Content o	of Fine Aggr	egate										
You	acted Vo	oids, Averag	e of Two Ru	uns (0.01 perd	ent) - T30	4/C1252								
	ıden Dia	gram View							C			D	Lattice of contains	:- !-!-\
	Total	Lab Data	Avg	Sample 183	Z-Score	Rating	Lab Data	Avg	Sample 184	Z-Score	Rating	1S	bility(with	l Lab
	Labs	Lab Data	Avg	13	2-30016	Nating	Lab Data	Avg	13	2-30016	Nating	13	2-30016	Rating
3	642	44.45	44.835	0.550	-0.70	-5	44.53	44.751	0.563	-0.39	-5	0.274	0.42	5
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ка	itings Sup	ppressed			NO	Data Subi	nitted or Da	ata Out of A	Accepted Ran	ge				
וממ	essed Ite	ems:												
			No. 200) Sie	eve (Total Ove	n Drv Ma	ss of Speci	men Before	Washina) -	For informat	ional purp	oses only.			
Δn	alvsis of	Aggregates	(Total Mat	erial Passing	the 4 75-m	m (No. 4)	Sieve) - For	informatio	nal nurnoses	only	oses omy.			
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mp	acted vo	ola Content	of Fine Agg	regate (Unco	траства у	olas, Test	Kun # 2) - F	or informat	ionai purposi	es only.				



