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Hot Mix Asphalt Ignition Oven 29/30

Final Report Date: 2/4/2015

PSP Enrollment #3879 University of Arkansas Fayetteville, Arkansas USA

Submitted by sgwill@uark.edu on 12/18/2014 at 1:37 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.

For more information on ratings, please review Proficiency Sample Ratings: Being Average Has Never Been

Repeatability(within-lab)

Lab Rating **

Asphalt Content by Ignition Method

Initial (as received) Mass of AMRL Pre-Mixed HMA Sample (for information only) (0.1 g) - T308/D6307

View Youden Dia	gram View	Performa	nce Chart								
			Sample 29					Sample 30			
Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	

15 Z-Score 978 1604 1600.29 1600.36 1603.6

Asphalt Content by Ignition Method Correction Factor for Asphalt Binder Content (for information only) - T308/D6307

View Yo	<u>uden Dia</u>	gram View	Performa	ince Chart										
		-		Sample 29					Sample 30			Repeat	tability(withi	n-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
2	980	0.03	0.072	**	**	**	0.03	0.072	**	**	**	**	**	**

Asphalt Content by Ignition Method

Corrected Asphalt Binder Content (0.01 percent) - T308/D6307 View Youden Diagram | View Performance Chart

					Sample 29					Sample 30			кереац	ability(withi	n-iab)
		Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	3	Labs 983	4.74	4.694	0.089	0.51	5	6.17	6.008	0.091	1.79	3	0.059	1.40	Rating 4
-															-

Mechanical Analysis of HMA

Mass Removed by Washing Over the 75-µm (No. 200) Sieve (0.1 g) - T30/D5444

View Youden Diagram | View Performance Chart

		·		Sample 29					Sample 30			Repeat	tability(withi	n-lab)
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
4	Labs 968	28.6	40.27	**	**	**	51.6	56.15	**	**	**	**	**	Rating **

Mechanical Analysis of HMA

Total Material Passing the 12.5-mm (1/2 in.) Sieve (0.1 percent) - T30/D5444

View Youden Diagram | View Performance Chart

				Sample 29					Sample 30			Repeat	ability(withi	n-lab)
	Total	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab
	Labs													Rating
5	981	90.7	91.08	0.85	-0.45	-5	94.5	93.74	0.65	1.16	4	0.62	1.29	4

Mechanical Analysis of HMA

Total Material Passing the 9.5-mm (3/8 in.) Sieve (0.1 percent) - T30/D5444

View Youden Diagram | View Performance Chart

				Sample 29					Sample 30			Repeat	ability(withi	n-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
6	981	79.0	79.69	1.10	-0.63	-5	86.9	85.85	0.83	1.26	4	0.64	1.92	3

Mechanical Analysis of HMA

Total Material Passing the 4.75-mm (No. 4) Sieve (0.1 percent) - T30/D5444 View Youden Diagram | View Performance Chart

Ť		aacii bia	Brain Tierr		Sample 29					Sample 30			Repeat	ability(withi	n-lab)
		Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	1\$	Z-Score	Lab Rating
	7	981	57.8	59.05	1.54	-0.81	-5	75.7	74.84	1.15	0.75	5	0.68	2.19	2

Mechanical Analysis of HMA

Total Material Passing the 2.36-mm (No. 8) Sieve (0.1 percent) - T30/D5444

View Youd	den Dia	gram View	Performa	nce Chart										
				Sample 29					Sample 30			Repeat	ability(with	in-lab)
	Total Labs	Lab Data	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
0	001	20.7	40 01	1 / 1	0.70		62.0	C1 E2	1 10	0.42		0.61	1 00	່ວັ

Mechanical Analysis of HMA

Total Material Passing the 1.18-mm (No. 16) Sieve (0.1 percent) - T30/D5444

View Youden Diagram | View Performance Chart Sample 30 Repeatability(within-lab)

bs 30 31.7			Z-Score	Rating	Lab Data	Avg	1S	Z-Score	Rating	15	Z-Score	Lab
-	32.62	1.25	-0.74	-5	48.9	48.42	1.03	0.47	5	0.57	1.73	Rating 3
	32.02	1.23	-0.74	-5	40.3	40.42	1.03	0.47		0.57	1./3	
Analysis of HMA												
al Passing the 6).1 percent)	- T30/D5	144							
n Diagram View	Performan						6 1 20				1 212 / 211	
4-1 1-b D-4-	A	Sample 29	7.6	D-4:	Lab Data	A	Sample 30	7.0	D-4!		ability(withi	
	Avg	15	Z-Score	Kating	Lab Data	Avg	15	2-Score	Kating	15	2-Score	Lab Rating
	20.48	0.88	-0.54	-5	29.9	29.61	0.84	0.35	5	0.41	1.33	4
Analysis of HMA												
).1 percent)	- T30/D5	144							
<u> Diagram View</u>	Performan											
	Avg	15	Z-Score	Rating	Lab Data	Avg	15	Z-Score	Rating	15	Z-Score	Lab Rating
	10.52	0.45	-0.52	- 5	1/10	1/1 06	0.41	-0.15	- E	0.22	0.51	5
al Passing the 1	50-um (No.	100) Siovo	10 1									
n Diagram View			(U.1 percent	:) - 130/D:	5444		Sample 30			Repeat	ability(withi	in-lab)
		ice Chart	Z-Score	Rating	Lab Data	Avg	Sample 30	Z-Score	Rating	Repeat 1S	ability(withi Z-Score	in-lab) Lab Rating
<u>n Diagram</u> <u>View</u> tal Lab Data	Performan	<u>sample 29</u>	` '			Avg 6.93		Z-Score 0.25	Rating 5			Lab
n <u>Diagram</u> <u>View</u> tal Lab Data bs	Avg 4.89 5-µm (No. 2	ce Chart Sample 29 1S 0.28 200) Sieve (0	Z-Score 0.04	Rating 5	Lab Data	-	15		Ü	1S 0.16	Z-Score	Lab Rating 5
n Diagram View tal Lab Data bs 31 4.9 Analysis of HMA al Passing the 7	Avg 4.89 5-µm (No. 2	ce Chart Sample 29 1S 0.28 200) Sieve (Once Chart	Z-Score 0.04	Rating 5	Lab Data	-	1S 0.27		Ü	1S 0.16	Z-Score 0.25	Lab Rating 5
tal Lab Data bs 31 4.9 Analysis of HMA al Passing the 7:	Avg 4.89 5-µm (No. 2 Performan	ce Chart Sample 29 1S 0.28 200) Sieve (Once Chart Sample 29	Z-Score 0.04 0.01 percent	Rating 5 :) - T30/D	Lab Data 7.0 5444	6.93	1S 0.27 Sample 30	0.25	5	1S 0.16 Repeat	Z-Score 0.25 cability(withi	Lab Rating 5 in-lab)
	Analysis of HMA al Passing the 3i Diagram View tal Lab Data bs 31 10.3	10 20.0 20.48 Analysis of HMA al Passing the 300-μm (No. 1 Diagram View Performan tal Lab Data Avg bs 11 10.3 10.53 Analysis of HMA	bs 12 20.0 20.48 0.88 Analysis of HMA al Passing the 300-μm (No. 50) Sieve (Ω Diagram View Performance Chart Sample 29 tal Lab Data Avg 1S bs 10.3 10.53 0.45	20.0 20.48 0.88 -0.54	20.0 20.48 0.88 -0.54 -5	1 20.0 20.48 0.88 -0.54 -5 29.9 Analysis of HMA al Passing the 300-μm (No. 50) Sieve (0.1 percent) - T30/D5444 1 Diagram View Performance Chart	Name Name	20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 Analysis of HMA al Passing the 300-μm (No. 50) Sieve (0.1 percent) - T30/D5444 1.Diagram View Performance Chart Sample 29 Sample 30 tal	20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.85 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.85 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.85 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.85 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 20.0 20.48 0.88 -0.54 -5 29.9 29.61 20.0 20.48 0.88 -0.54 -5 29.9 29.61 20.0 20.48 0.88 -0.54 -5 29.9 20.0 20.48 0.88 -0.54 -5 29.9 20.0 20.48 0.88 -0.54 -5 29.9 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.48 -5 20.61 -5 20.0 20.	20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 5 Analysis of HMA al Passing the 300-μm (No. 50) Sieve (0.1 percent) - T30/D5444 1.Diagram View Performance Chart Sample 29 Sample 30 tal Lab Data Avg 1S Z-Score Rating Lab Data Avg 1S Z-Score Rating bs 10.3 10.53 0.45 -0.52 -5 14.9 14.96 0.41 -0.15 -5 1 10.3 10.53 0.45 -0.52 -5 14.9 14.96 0.41 -0.15 -5	20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 5 0.41 Analysis of HMA al Passing the 300-μm (No. 50) Sieve (0.1 percent) - T30/D5444 1.Diagram View Performance Chart Sample 29 Sample 30 Repeat tal Lab Data Avg 1S Z-Score Rating Lab Data Avg 1S Z-Score Rating 1S Data Avg Data Da	20.0 20.48 0.88 -0.54 -5 29.9 29.61 0.84 0.35 5 0.41 1.33 Analysis of HMA 21 Passing the 300-μm (No. 50) Sieve (0.1 percent) - T30/D5444 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 Ital Lab Data Avg 1S Z-Score Rating Lab Data Avg 1S Z-Score Rating 1S Z-Score State

Asphalt Content by Ignition Method (Initial (as received) Mass of AMRL Pre-Mixed HMA Sample (for information only)) - This is for informational purposes only. Asphalt Content by Ignition Method (Correction Factor for Asphalt Binder Content (for information only)) - This is for informational purposes only. Mechanical Analysis of HMA (Mass Removed by Washing Over the 75-µm (No. 200) Sieve) - This is for informational purposes only.



