

Project ID: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

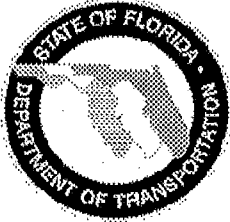
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SP 14-12359B

Single Sample Login Information



	LOT 1 SUB 1	LOT 1 SUB 2	LOT 1 SUB 3	LOT 1 SUB 4
Date Sampled	6/25/2015	6/26/2015	6/26/2015	6/27/2015
Sampled By (TIN):	R40079165-000	R40079165-000	L53601389-000	S52272063-000
Submitted By:	Jeff James	Jeff James	Jeff James	Jeff James
of:	Middlesex	Middlesex	Middlesex	Middlesex
Phone:	407-206-0078	407-206-0078	407-206-0078	407-206-0078
Intended Use:	STRUCTURAL	STRUCTURAL	STRUCTURAL	STRUCTURAL
Sample No.:	2C001X	2C002X	2C003X	2C004X
Station From:	+	+	+	+
Station To:	+	+	+	+
Lane, Load #, Ran. Tons	5	5	30	5

Asphalt Content

Performed By (TIN):	R40079165-000	R40079165-000	R40079165-000	S52272063-000
Performed On:	6/25/2015	6/26/2015	6/26/2015	6/27/2015
Basket wt., g (A)	2801.3	2818.2	3154.4	2897.0
Bgn. Basket + Sample wt., g (B)	4302.3	4319.1	4654.8	4398.2
Bgn. Sample wt., g, (B-A)	1501.0	1500.9	1500.4	1501.2
End Basket + Sample wt., g (C)	4219.6	4236.4	4577.3	4317.0
Final Sample wt., g, (C-A) (D)	1418.3	1418.2	1422.9	1420.0
AC from Print Out, % (E)	5.50	5.56	5.23	5.40
Calibration Factor, % (F)	-0.32	-0.32	-0.32	-0.32
Des. AC, %	5.20			
Percent AC, % (E+F)	5.18	5.24	4.91	5.08
Wt. of Extracted Agg., g (G)	1418.3	1417.1	1422.6	1420.3
Note: Diff. D & G shall not > 0.2% of D.	0.00	0.08	0.02	0.02
Wt. of Washed Sample, g (H)	1362.5	1360.1	1377.4	1359.9
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	55.8	57.0	45.2	60.4

Gradation

Sieve	Target	L53601389-000		R40079165-000		R40079165-000		S52272063-000	
		Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
1" (25.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00	0.0	100.00
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00	0.0	100.00
1/2" (12.5mm), g	100	4.9	99.65	10.1	99.29	21.0	98.52	8.2	99.42
3/8" (9.5mm), g	90	109.5	92.28	77.9	94.50	160.6	88.71	103.2	92.73
No.4 (4.75mm), g	72	436.6	69.22	366.5	74.14	513.7	63.89	435.2	69.36
No.8 (2.36mm), g	54	658.2	53.59	641.8	54.71	728.3	48.81	661.9	53.40
No.16 (1.18mm), g	37	788.4	44.41	812.7	42.65	844.9	40.61	785.3	44.71
No.30 (600µm), g	28	878.7	38.05	922.1	34.93	923.7	35.07	873.9	38.47
No.50 (300µm), g	20	1025.5	27.70	1056.8	25.43	1058.3	25.61	1019.5	28.22
No.100 (150µm), g	10	1262.7	10.97	1260.6	11.04	1275.6	10.33	1262.9	11.08
No.200 (75µm), g	5.6	1341.5	5.32	1336.7	5.67	1351.0	4.99	1342.7	5.45
Wt of Matl. in Pan, g		19.6		23.3		25.8		17.0	

G_{mm}

Performed By (TIN):	R40079165-000	L53601389-000	L53601389-000	S52272063-000
Performed On:	6/25/2015	6/26/2015	6/26/2015	6/27/2015
(Must be a numerical number) Flask No.:	1	2	3	4
Weight of Flask + Sample	1996.8	2105.8	2049.7	2102.7
Weight of Flask	968.3	1071.9	1016.5	1072.3
Weight of Sample (A)	1028.5	1033.9	1033.2	1030.4
Weight of Flask + Water (D)	3328.6	3394.7	3354.7	3392.9
Weight of Flask + Water + Sample (E)	3946.7	4017.7	3976.2	4011.9
Weight of Sample Surface Dry (B)				
G _{mm} = (A)/(B+D-E)	2.502	2.512	2.506	2.501
Corr. Factor	JMF G _{mm}	Difference		
-0.004	2.538	0.010	0.005	0.003
		2.507	2.504	2.507
				0.004
				2.505

Lab G _{mb}	Performed By (TIN):		L53601389-000		L53601389-000		L53601389-000		S52272063-000									
	Performed On:		6/25/2015		6/26/2015		6/26/2015		6/27/2015									
	Hgt. @ N _{int}		126.0	123.6	123.4	123.7	123.5	124.2	124.0	124.1								
	Hgt. @ N _{des}		119.6	117.3	116.5	116.6	117.1	117.6	117.8	117.9								
	Average Heights N _{int} , N _{des}		124.8	118.5	123.6	116.6	123.9	117.4	124.1	117.9								
	Dry Weight		4998.3	4897.7	4897.8	4901.1	4900.1	4899.1	4904.0	4906.4								
	Water Weight		2912.8	2853.3	2866.8	2872.2	2864.5	2861.6	2850.7	2852.5								
	SSD Weight		5000.8	4900.4	4901.2	4904.7	4903.1	4904.4	4906.6	4908.0								
	JMF G _{mb}	G _{mb}	2.394	2.393	2.407	2.411	2.404	2.398	2.385	2.387								
	2.436	Avg G _{mb}	2.394		2.409		2.401		2.386									
Roadway G _{mb}	Performed By (TIN):		R40079165-000				R40079165-000				R40079165-000				E42053163-000			
	Performed On:		7/6/2015				7/6/2015				7/6/2015				7/27/2015			
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Static Mode	Core # 1					2166.1	1226.6	2168.4	2.300	2108.1	1195.1	2110.1	2.304	1768.2	998.9	1771.3	2.289
		Core # 2					2047.1	1170.0	2048.8	2.329	2547.6	1459.4	2549.2	2.338	1731.1	1087.5	1934.4	2.044
		Core # 3	1867.1	1067.4	1867.9	2.332	2052.2	1171.0	2053.4	2.326	2244.2	1292.2	2245.4	2.354	1750.5	989.4	1752.7	2.293
		Core # 4	1747.9	999.4	1749.4	2.331	2243.3	1264.0	2245.8	2.285					2149.9	1233.6	2152.8	2.339
		Core # 5	1806.0	1028.9	1807.7	2.319	2995.0	1715.7	2997.0	2.337					2071.0	1194.5	2072.7	2.358
	Target	Avg G _{mb}	2.327				2.315				2.332				2.265			
	93.0	% G _{mm}	92.82				92.45				93.02				90.42			

Alternate Pay-Item: _____

Comments (Sublot 1): _____

PAY FACTORS

Comments (Sublot 2): _____

No.8 Sieve 0.91
No.200 Sieve 1.05

Comments (Sublot 3): _____

Percent AC 1.05
Air Voids 1.05
Density No Tons

Comments (Sublot 4): _____

Composite No Tons

Project ID: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

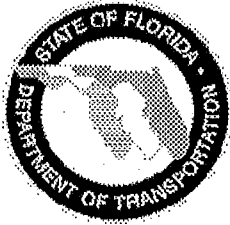
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SP 14-12359B

Single Sample Login Information



	LOT 2	SUB 1	LOT 2	SUB 2	LOT 2	SUB 3	LOT 2	SUB 4
Date Sampled	7/23/2015		7/23/2015		7/27/2015			
Sampled By (TIN):	R40079165-000		R40079165-000		L53601389-000		S52272063-000	
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James	
of:	Middlesex		Middlesex		Middlesex		Middlesex	
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078	
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL		STRUCTURAL	
Sample No.:	2C005X		2C006X		2C007X			
Station From:	+		+		+		+	
Station To:	+		+		+		+	
Lane, Load #, Ran. Tons	8		25		10			

Asphalt Content

Performed By (TIN):	R40079165-000	R40079165-000	L53601389-000
Performed On:	7/23/2015	7/23/2015	7/27/2015
Basket wt., g (A)	2803.1	3154.7	2802.4
Bgn. Basket + Sample wt., g (B)	4304.2	4658.9	4307.2
Bgn. Sample wt., g, (B-A)	1501.1	1504.2	1504.8
End Basket + Sample wt., g (C)	4223.6	4575.3	4233.1
Final Sample wt., g, (C-A) (D)	1420.5	1420.6	1430.7
AC from Print Out, % (E)	5.32	5.51	5.11
Calibration Factor, % (F)	-0.32	-0.32	-0.32
Des. AC, %	5.20		
Percent AC, % (E+F)	5.00	5.19	4.79
Wt. of Extracted Agg., g (G)	1420.9	1420.5	1428.2
Note: Diff. D & G shall not > 0.2% of D.	0.03	0.01	0.17
Wt. of Washed Sample, g (H)	1363.2	1368.7	1372.6
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	57.7	51.8	55.6

Gradation

Sieve	Target	R40079165-000		L53601389-000		R40079165-000		Wt Ret	% Pass
		Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass		
1" (25.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00		
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00		
1/2" (12.5mm), g	100	16.0	98.87	4.3	99.70	8.9	99.38		
3/8" (9.5mm), g	90	137.4	90.33	103.0	92.75	161.9	88.66		
No.4 (4.75mm), g	72	473.8	66.65	438.2	69.15	500.8	64.93		
No.8 (2.36mm), g	54	695.9	51.02	682.0	51.99	717.7	49.75		
No.16 (1.18mm), g	37	815.0	42.64	815.9	42.56	832.5	41.71		
No.30 (600µm), g	28	898.8	36.74	904.3	36.34	911.6	36.17		
No.50 (300µm), g	20	1036.9	27.03	1049.9	26.09	1048.6	26.58		
No.100 (150µm), g	10	1265.9	10.91	1267.8	10.75	1280.2	10.36		
No.200 (75µm), g	5.6	1344.7	5.34	1346.3	5.14	1352.0	5.23		
Wt of Matl. in Pan, g		18.2		21.2		19.1			

G_{mm}

Performed By (TIN):	L53601389-000	R40079165-000	L53601389-000
Performed On:	7/23/2015	7/23/2015	7/27/2015
(Must be a numerical number) Flask No.:	1	2	3
Weight of Flask + Sample	1996.9	2099.6	2047.2
Weight of Flask	967.7	1071.0	1015.9
Weight of Sample (A)	1029.2	1028.6	1031.3
Weight of Flask + Water (D)	3329.3	3395.6	3355.3
Weight of Flask + Water + Sample (E)	3946.6	4013.8	3972.4
Weight of Sample Surface Dry (B)			
G _{mm} = (A)/(B+D-E)	2.495	2.502	2.486
Corr. Factor	JMF G _{mm}	Difference	
0.004	2.538	0.007	0.002
		Average G _{mm}	0.005
			2.485
			2.504

Lab G _{mb}	Performed By (TIN):		L53601389-000				R40079165-000				L53601389-000							
	Performed On:		7/23/2015				7/23/2015				7/27/2015							
	Hgt. @ N _{int}		124.2	124.3	123.1	123.1	123.7	123.9										
	Hgt. @ N _{des}		117.9	117.8	116.5	116.5	117.6	117.6										
	Average Heights N _{int} , N _{des}		124.3	117.9	123.1	116.5	123.8	117.6										
	Dry Weight		4901.3	4896.9	4896.7	4899.4	4897.2	4896.6										
	Water Weight		2846.0	2845.9	2870.2	2872.2	2855.7	2855.1										
	SSD Weight		4906.4	4899.1	4898.9	4901.2	4901.3	4900.9										
	JMF G _{mb}	G _{mb}	2.379	2.385	2.414	2.415	2.394	2.393										
	2.436	Avg G _{mb}	2.382		2.415		2.394											
Roadway G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Static Mode	Core # 1	2024.8	1161.0	2026.8	2.339	1807.2	1030.2	1809.4	2.319	1930.8	1091.4	1931.9	2.297				
		Core # 2	2017.3	1153.9	2019.6	2.330					2148.0	1217.0	2149.2	2.304				
		Core # 3	2281.8	1268.5	2286.4	2.242	1646.2	935.7	1648.7	2.309	1695.4	963.0	1696.3	2.312				
		Core # 4	2120.5	1206.6	2123.2	2.313	2231.9	1280.0	2233.3	2.341	2008.0	1136.0	2008.8	2.301				
		Core # 5	1581.3	873.4	1585.9	2.219	2322.6	1326.3	2323.6	2.329	1929.4	1087.4	1930.3	2.289				
	Target	Avg G _{mb}	2.289				2.325				2.301							
	93.0	% G _{mm}	91.60				93.56				91.89							
Volumetrics	Performed By (TIN):																	
	Performed On:		7/23/2015				7/23/2015				7/27/2015							
	Agg Sp Grav (G _{sb})		2.706				2.706				2.706							
	Gyrations @ N _{des}		75				75				75							
	% Gmm @ N _{int}		89.00				90.41				91.97							
	% Gmm @ N _{des}		96.00				95.32				97.18							
	% Air Voids @ N _{des}		4.00				4.68				2.82							
	% VMA @ N _{des}		14.70				16.37				15.39							
	% VFA @ N _{des}		73.00				71.41				81.68							
	Dust / Asphalt		1.20				1.06				0.96							
	G _{mb} @ N _{des}		2.436				2.382				2.415							
	G _{se}		2.760				2.702				2.693							
	P _{ba}		0.70				-0.06				-0.18							
P _{be}		4.50				5.06				5.36								

Alternate Pay-Item:

Comments (Sublot 1):	
Comments (Sublot 2):	
Comments (Sublot 3):	
Comments (Sublot 4):	

PAY FACTORS

No.8 Sieve	0.80
No.200 Sieve	1.05
Percent AC	0.95
Air Voids	1.04
Density	No Tons
Composite	No Tons

Project ID.: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

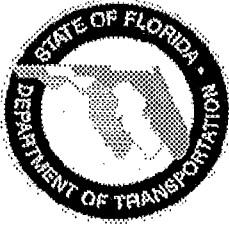
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix. No.: SP 14-12359B

Single Sample Login Information



	LOT 4	SUB 1	LOT 4	SUB 2	LOT 4	SUB 3	LOT 4	SUB 4
Date Sampled	9/3/2015		9/25/2015					
Sampled By (TIN):	R40079165-000		R40079165-000		R40079165-000		R40079165-000	
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James	
of:	Middlesex		Middlesex		Middlesex		Middlesex	
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078	
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL		STRUCTURAL	
Sample No.:	2C008X		2C009X					
Station From:	+		+		+		+	
Station To:	+		+		+		+	
Lane, Load #, Ran. Tons	2		5					

Asphalt Content

Performed By (TIN):	R40079165-000		R40079165-000					
Performed On:	9/3/2015		9/25/2015					
Basket wt., g (A)	2874.1		2896.9					
Bgn. Basket + Sample wt., g (B)	4375.8		4398.0					
Bgn. Sample wt., g, (B-A)	1501.7		1501.1					
End Basket + Sample wt., g (C)	4293.4		4316.9					
Final Sample wt., g, (C-A) (D)	1419.3		1420.0					
AC from Print Out, % (E)	5.61		5.36					
Calibration Factor, % (F)	-0.32		-0.32					
Des. AC, %	5.20	Percent AC, % (E+F)		5.29	5.04			
Wt. of Extracted Agg., g (G)	1418.7		1420.7					
Note: Diff. D & G shall not > 0.2% of D.	0.04		0.05					
Wt. of Washed Sample, g (H)	1346.1		1352.8					
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	72.6		67.9					

Gradation

Sieve	Target	Performed On: 9/3/2015		Performed On: 9/25/2015		Wt Ret	% Pass	Wt Ret	% Pass
		Wt Ret	% Pass	Wt Ret	% Pass				
1" (25.0mm), g	100	0.0	100.00	0.0	100.00				
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00				
1/2" (12.5mm), g	100	6.1	99.57	14.3	98.99				
3/8" (9.5mm), g	90	109.4	92.29	99.3	93.01				
No.4 (4.75mm), g	72	441.9	68.85	422.0	70.30				
No.8 (2.36mm), g	54	680.2	52.05	652.4	54.08				
No.16 (1.18mm), g	37	830.3	41.47	767.3	45.99				
No.30 (600µm), g	28	931.9	34.31	848.0	40.31				
No.50 (300µm), g	20	1062.1	25.14	998.4	29.72				
No.100 (150µm), g	10	1253.9	11.62	1240.8	12.66				
No.200 (75µm), g	5.6	1324.9	6.58	1329.4	6.38				
Wt of Matl. in Pan, g		20.8		22.7					

G_{mm}

Performed By (TIN):	R40079165-000		R40079165-000					
Performed On:	9/3/2015		9/25/2015					
(Must be a numerical number) Flask No.:	3	4	1	2				
Weight of Flask + Sample	2043.3	2099.2	1989.7	2092.9				
Weight of Flask	1015.2	1070.8	964.6	1067.8				
Weight of Sample (A)	1028.1	1028.4	1025.1	1025.1				
Weight of Flask + Water (D)	3353.1	3391.2	3326.7	3392.9				
Weight of Flask + Water + Sample (E)	3969.2	4007.0	3942.0	4007.2				
Weight of Sample Surface Dry (B)								
G _{mm} = (A/(B+D-E))	2.491	2.488	2.497	2.491				
Corr. Factor	JMF G _{mm}	Difference	0.003	0.006				
-0.004	2.538	Average G _{mm}	2.490	2.494				

Lab G _{mb}	Performed By (TIN):		R40079165-000		R40079165-000														
	Performed On:		9/3/2015		9/25/2015														
	Hgt. @ N _{int}		123.2	123.5	124.9	124.8													
	Hgt. @ N _{des}		115.9	116.1	118.4	118.3													
	Average Heights N _{int} , N _{des}		123.4	116.0	124.9	118.4													
	Dry Weight		4900.6	4900.3	4901.3	4902.5													
	Water Weight		2883.1	2882.6	2839.1	2841.1													
	SSD Weight		4902.9	4904.4	4903.9	4905.3													
	JMF G _{mb}	G _{mb}	2.426	2.424	2.374	2.375													
	2.436	Avg G _{mb}	2.425		2.375														

Roadway G _{mb}	Performed By (TIN):		E42053153-000																
	Performed On:		7/27/2015																
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	
	Static Mode	Core # 1	2024.8	1161.0	2026.8	2.339	1807.2	1030.2	1809.4	2.319									
		Core # 2	2017.3	1153.9	2019.6	2.330	1724.9	976.7	1726.7	2.300									
		Core # 3	2281.8	1268.5	2286.4	2.242	1642.2	935.7	1648.7	2.303									
		Core # 4	2120.5	1206.6	2123.2	2.313	1960.8	1121.4	1963.5	2.328									
		Core # 5	1581.3	873.4	1585.9	2.219	1768.2	1006.9	1769.2	2.320									
	Target	Avg G _{mb}	2.289				2.314												
	93.0	% G _{mm}	91.93				92.78												

Volumetrics	Performed By (TIN):		R40079165-000		R40079165-000														
	Performed On:		9/3/2015		9/25/2015														
	Agg Sp Grav (G _{sb})		2.706		2.706		2.706												
	Gyrations @ N _{des}		75		75		75												
	% Gmm @ N _{int}		89.00		91.55		90.27												
	% Gmm @ N _{des}		96.00		97.39		95.23												
	% Air Voids @ N _{des}		4.00		2.61		4.77												
	% VMA @ N _{des}		14.70		15.12		16.65												
	% VFA @ N _{des}		73.00		82.74		71.35												
	Dust / Asphalt		1.20		1.24		1.24												
	G _{mb} @ N _{des}		2.436		2.425		2.375												
	G _{se}		2.760		2.704		2.697												
	P _{ba}		0.70		-0.03		-0.13												
	P _{be}		4.50		5.32		5.16												

Alternate Pay-Item:

Comments (Sublot 1):	
Comments (Sublot 2):	
Comments (Sublot 3):	
Comments (Sublot 4):	

PAY FACTORS

No.8 Sieve	1.05
No.200 Sieve	0.90
Percent AC	1.05
Air Voids	0.90
Density	No Tons
Composite	No Tons

Project ID: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

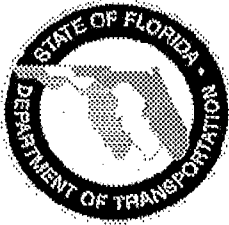
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SP 14-12359B

Single Sample Login Information



	LOT 6 SUB 1	LOT 6 SUB 2	LOT 6 SUB 3	LOT 6 SUB 4
Date Sampled	10/26/2015	11/3/2015		
Sampled By (TIN):	R40079165-000	R40079165-000	R40079165-000	R40079165-000
Submitted By:	Jeff James	Jeff James	Jeff James	Jeff James
of:	Middlesex	Middlesex	Middlesex	Middlesex
Phone:	407-206-0078	407-206-0078	407-206-0078	407-206-0078
Intended Use:	STRUCTURAL	STRUCTURAL	STRUCTURAL	STRUCTURAL
Sample No.:	2C010X	2C011X		
Station From:	246 + 60	41 + 90	+	+
Station To:	258 + 57	45 + 80	+	+
Lane, Load #, Ran. Tons	R2 13 273	10 832		

Asphalt Content

Performed By (TIN):	R40079165-000	S52272063-000		
Performed On:	10/26/2015	11/3/2015		
Basket wt., g (A)	2824.1	2901.6		
Bgn. Basket + Sample wt., g (B)	4326.2	4402.9		
Bgn. Sample wt., g, (B-A)	1502.1	1501.3		
End Basket + Sample wt., g (C)	4246.4	4320.3		
Final Sample wt., g, (C-A) (D)	1422.3	1418.7		
AC from Print Out, % (E)	5.31	5.31		
Calibration Factor, % (F)	-0.32	-0.32		
Des. AC, % 5.20	Percent AC, % (E+F)	4.99	4.99	
Wt. of Extracted Agg., g (G)	1422.3	1419.3		
Note: Diff. D & G shall not > 0.2% of D.	0.00	0.04		
Wt. of Washed Sample, g (H)	1357.9	1337.3		
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	64.4	82.0		

Gradation

Sieve	Target	R40079165-000		E42053153-000		Wt Ret	% Pass	Wt Ret	% Pass
		Wt Ret	% Pass	Wt Ret	% Pass				
1" (25.0mm), g	100	0.0	100.00	0.0	100.00				
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00				
1/2" (12.5mm), g	100	17.2	98.79	7.3	99.49				
3/8" (9.5mm), g	90	110.8	92.21	110.6	92.21				
No.4 (4.75mm), g	72	449.9	68.37	481.5	66.07				
No.8 (2.36mm), g	54	657.1	53.80	702.2	50.52				
No.16 (1.18mm), g	37	766.5	46.11	805.2	43.27				
No.30 (600µm), g	28	847.3	40.43	877.7	38.16				
No.50 (300µm), g	20	1000.4	29.66	1013.7	28.58				
No.100 (150µm), g	10	1248.0	12.25	1239.8	12.65				
No.200 (75µm), g	5.6	1335.8	6.09	1322.9	6.78				
Wt of Matl. in Pan, g		22.2		14.2					

G_{mm}

Performed By (TIN):	R40079165-000	S52272063-000		
Performed On:	10/26/2015	11/3/2015		
(Must be a numerical number) Flask No.:	3	4	1	2
Weight of Flask + Sample	2036.3	2082.7	2021.1	2125.6
Weight of Flask	1012.6	1068.1	963.2	1066.4
Weight of Sample (A)	1023.7	1014.6	1057.9	1059.2
Weight of Flask + Water (D)	3352.4	3390.6	3325.8	3391.8
Weight of Flask + Water + Sample (E)	3966.7	4000.6	3962.6	4031.3
Weight of Sample Surface Dry (B)				
G _{mm} = (A/(B+D-E))	2.496	2.504	2.508	2.520
Corr. Factor	JMF G _{mm}	Difference	0.008	0.012
-0.004	2.538	Average G _{mm}	2.500	2.514

Lab G _{mb}	Performed By (TIN):		R40079165-000		E42053153-000					
	Performed On:		10/26/2015		11/3/2015					
	Hgt. @ N _{int}		124.9	124.8	121.9	122.1				
	Hgt. @ N _{des}		118.3	118.3	115.5	115.9				
	Average Heights N _{int} , N _{des}		124.9	118.3	122.0	115.7				
	Dry Weight		4902.1	4901.3	4904.8	4906.7				
	Water Weight		2849.5	2846.6	2891.2	2892.0				
	SSD Weight		4907.2	4905.5	4907.1	4909.0				
	JMF G _{mb}	G _{mb}	2.382	2.381	2.433	2.433				
	2.436	Avg G _{mb}	2.382		2.433					

Roadway G _{mb}	Performed By (TIN):		E42053153-000															
	Performed On:		10/26/2015															
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Static Mode	Core # 1	2392.5	1361.4	2396.1	2.312	2422.0	1356.7	2423.4	2.271								
		Core # 2	2140.0	1224.7	2142.7	2.331	2237.2	1266.8	2238.1	2.303								
		Core # 3	1822.9	1032.9	1825.0	2.301	2292.4	1288.9	2293.4	2.282								
		Core # 4	2293.0	1300.2	2294.2	2.307												
		Core # 5	2042.9	1164.6	2043.6	2.324												
	Target	Avg G _{mb}	2.315				2.285											
	93.0	% G _{mm}	92.60				90.89											

Volumetrics	Performed By (TIN):		R40079165-000		S52272063-000					
	Performed On:		10/26/2015		11/3/2015					
	Agg Sp Grav (G _{sb})		2.706		2.706		2.706			
	Gyrations @ N _{des}		75		75		75			
	% Gmm @ N _{int}		89.00		90.25		91.78			
	% Gmm @ N _{des}		96.00		95.28		96.78			
	% Air Voids @ N _{des}		4.00		4.72		3.22			
	% VMA @ N _{des}		14.70		16.37		14.57			
	% VFA @ N _{des}		73.00		71.17		77.9			
	Dust / Asphalt		1.20		1.21		1.41			
	G _{mb} @ N _{des}		2.436		2.382		2.433			
	G _{se}		2.760		2.703		2.72			
	P _{ba}		0.70		-0.04		0.2			
	P _{be}		4.50		5.03		4.8			

Alternate Pay-Item:

Comments (Sublot 1):	[Redacted]
Comments (Sublot 2):	[Redacted]
Comments (Sublot 3):	[Redacted]
Comments (Sublot 4):	[Redacted]

PAY FACTORS

No. 8 Sieve	1.00
No. 200 Sieve	0.90
Percent AC	1.00
Air Voids	0.90
Density	No Tons
Composite	No Tons

Project ID: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

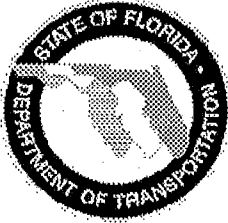
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SP 14-2843A

Single Sample Login Information



	LOT 7	SUB 1	LOT 7	SUB 2	LOT 7	SUB 3	LOT 7	SUB 4
Date Sampled	10/27/2015							
Sampled By (TIN):	R40079165-000		S52272063-000					
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James	
of:	Middlesex		Middlesex		Middlesex		Middlesex	
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078	
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL			
Sample No.:	1C003X							
Station From:	+		+		+		+	
Station To:	+		+		+		+	
Lane, Load #, Ran. Tons	7	194						

Asphalt Content

Performed By (TIN):	R40079165-000							
Performed On:	10/27/2015							
Basket wt., g (A)	2822.6							
Bgn. Basket + Sample wt., g (B)	4324.0							
Bgn. Sample wt., g, (B-A)	1501.4							
End Basket + Sample wt., g (C)	4238.1							
Final Sample wt., g, (C-A)	1415.5							
AC from Print Out, % (E)	5.76							
Calibration Factor, % (F)	-0.12							
Des. AC, %	5.60	Percent AC, % (E+F)	5.64					
Wt. of Extracted Agg., g (G)	1415.3							
Note: Diff. D & G shall not > 0.2% of D.	0.01							
Wt. of Washed Sample, g (H)	1352.9							
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	62.4							

Gradation

Performed By (TIN):	R40079165-000									
Performed On:	10/27/2015									
Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	
1" (25.0mm), g	100	0.0	100.00							
3/4" (19.0mm), g	100	0.0	100.00							
1/2" (12.5mm), g	100	0.0	100.00							
3/8" (9.5mm), g	96	66.2	95.32							
No.4 (4.75mm), g	74	375.9	73.44							
No.8 (2.36mm), g	52	682.6	51.77							
No.16 (1.18mm), g	36	876.1	38.10							
No.30 (600µm), g	27	997.2	29.54							
No.50 (300µm), g	19	1113.2	21.35							
No.100 (150µm), g	9	1264.5	10.65							
No.200 (75µm), g	5	1332.8	5.74							
Wt of Matl. in Pan, g	18.8									

G_{mm}

Performed By (TIN):	R40079165-000							
Performed On:	10/27/2015							
(Must be a numerical number) Flask No.:	1	2						
Weight of Flask + Sample	1981.7	2084.5						
Weight of Flask	963.9	1067.1						
Weight of Sample (A)	1017.8	1017.4						
Weight of Flask + Water (D)	3326.1	3392.3						
Weight of Flask + Water + Sample (E)	3939.5	4005.1						
Weight of Sample Surface Dry (B)								
G _{mm} = (A/(B+D-E))	2.517	2.515						
Corr. Factor	JMF G _{mm}	Difference	0.002					
0	2.540	Average G _{mm}	2.516					

Lab G _{mb}	Performed By (TIN):		R40079165-000	
	Performed On:		10/27/2015	
	Hgt. @ N _{int}	124.0	123.8	
	Hgt. @ N _{des}	116.0	115.9	
	Average Heights N _{int} , N _{des}	123.9	116.0	
	Dry Weight	4900.9	4901.1	
	Water Weight	2887.1	2889.2	
	SSD Weight	4903.3	4903.4	
	JMF G _{mb}	G _{mb}	2.431	2.433
	2.540	Avg G _{mb}	2.432	

Roadway G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Static Mode	Core # 1																
		Core # 2																
		Core # 3																
		Core # 4																
		Core # 5																
	Target	Avg G _{mb}																
	93.0	% G _{mm}																

Volumetrics	Performed By (TIN):			
	Performed On:		10/27/2015	
	Agg Sp Grav (G _{sb})	2.715	2.715	
	Gyrations @ N _{des}	50	50	
	% Gmm @ N _{int}	89.00	90.50	
	% Gmm @ N _{des}	96.00	96.66	
	% Air Voids @ N _{des}	4.00	3.34	
	% VMA @ N _{des}	11.70	15.48	
	% VFA @ N _{des}	66.00	78.42	
	Dust / Asphalt	1.10	1.11	
	G _{mb} @ N _{des}	2.540	2.432	
	G _{se}	2.782	2.753	
	P _{ba}	0.90	0.52	
P _{be}	4.70	5.15		

Alternate Pay-Item:

Comments (Sublot 1):

PAY FACTORS

Comments (Sublot 2):

No.8 Sieve 1.05
No.200 Sieve 1.00

Comments (Sublot 3):

Percent AC 1.05
Air Voids 1.00
Density No Tons

Comments (Sublot 4):

Composite No Tons

Project ID.: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

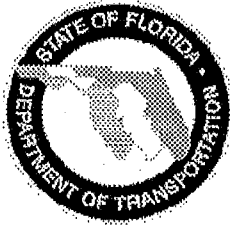
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SP 14-12359B

Single Sample Login Information



	LOT 9	SUB 1	LOT 9	SUB 2	LOT 9	SUB 3	LOT 9	SUB 4
Date Sampled	1/26/2016		1/30/2016		2/1/2016		2/17/2016	
Sampled By (TIN):	R40079165-000		R40079165-000		R40079165-000		R40079165-000	
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James	
of:	Middlesex		Middlesex		Middlesex		Middlesex	
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078	
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL		STRUCTURAL	
Sample No.:	2C012X		2C013X		2C014X		2C015X	
Station From:	204 + 10		234 + 11		204 + 10		+	
Station To:	211 + 77		253 + 23		247 + 00		+	
Lane, Load #, Ran. Tons	L2	15	330	L2	4	732	4	1272
							6	

Asphalt Content

Performed By (TIN):	R40079165-000	R40079165-000	R40079165-000	R40079165-000
Performed On:	1/26/2016	1/30/2016	2/1/2016	2/17/2016
Basket wt., g (A)	2827.4	2903.2	2828.2	2916.3
Bgn. Basket + Sample wt., g (B)	4329.5	4406.9	4333.8	4416.5
Bgn. Sample wt., g, (B-A)	1502.1	1503.7	1505.6	1500.2
End Basket + Sample wt., g (C)	4242.5	4317.3	4245.7	4337.0
Final Sample wt., g, (C-A) (D)	1415.1	1414.1	1417.5	1420.7
AC from Print Out, % (E)	5.69	5.94	5.82	5.41
Calibration Factor, % (F)	-0.32	-0.32	-0.32	-0.32
Des. AC, %	5.20			
Percent AC, % (E+F)	5.37	5.62	5.50	5.09
Wt. of Extracted Agg., g (G)	1412.1	1412.8	1416.8	1420.7
Note: Diff. D & G shall not > 0.2% of D.	0.21	0.09	0.05	0.00
Wt. of Washed Sample, g (H)	1349.5	1352.0	1354.3	1351.0
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	62.6	60.8	62.5	69.7

Gradation

Sieve	Target	R40079165-000		R40079165-000		R40079165-000		R40079165-000	
		Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
1" (25.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00	0.0	100.00
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00	0.0	100.00
1/2" (12.5mm), g	100	2.6	99.82	2.6	99.82	4.8	99.66	8.4	99.41
3/8" (9.5mm), g	90	119.5	91.54	92.6	93.45	113.7	91.97	101.3	92.87
No. 4 (4.75mm), g	72	466.0	67.00	434.9	69.22	451.9	68.10	445.1	68.67
No. 8 (2.36mm), g	54	670.0	52.55	665.4	52.90	676.1	52.28	646.2	54.52
No. 16 (1.18mm), g	37	785.3	44.39	782.0	44.65	790.4	44.21	772.2	45.65
No. 30 (600µm), g	28	870.2	38.38	866.3	38.68	869.4	38.64	859.9	39.47
No. 50 (300µm), g	20	1016.7	28.00	1019.3	27.85	1019.5	28.04	1005.5	29.23
No. 100 (150µm), g	10	1255.9	11.06	1256.6	11.06	1252.5	11.60	1240.0	12.72
No. 200 (75µm), g	5.6	1335.8	5.37	1332.6	5.66	1335.0	5.72	1333.6	6.10
Wt of Matl. in Pan, g		13.3		19.2		18.6		16.9	

G_{mm}

Performed By (TIN):	R40079165-000	R40079165-000	R40079165-000	R40079165-000
Performed On:	1/26/2016	1/30/2016	2/1/2016	2/17/2016
(Must be a numerical number) Flask No.:	3	4	3	4
Weight of Flask + Sample	2068.3	2095.3	2066.2	2090.1
Weight of Flask	1038.8	1064.6	1038.7	1064.3
Weight of Sample (A)	1029.5	1030.7	1027.5	1025.8
Weight of Flask + Water (D)	3358.7	3387.5	3358.7	3387.5
Weight of Flask + Water + Sample (E)	3974.5	4003.4	3974.4	4001.5
Weight of Sample Surface Dry (B)				
G _{mm} = (A/(B+D-E))	2.485	2.481	2.491	2.487
Corr. Factor	JMF G _{mm}	Difference		
-0.004	2.538	0.004	0.004	0.004
		Average G _{mm}	2.489	2.488
				2.489

		Performed By (TIN):		R40079165-000		R40079165-000		R40079165-000		R40079165-000								
		Performed On:		1/26/2016		1/30/2016		2/1/2016		2/17/2016								
Lab G _{mb}	Hgt. @ N _{inj}	123.4	123.7	122.5	122.8	122.6	123.0	124.1	124.5									
	Hgt. @ N _{des}	117.2	117.4	116.1	116.4	116.4	116.8	117.9	118.3									
	Average Heights N _{inj} , N _{des}	123.6	117.3	122.7	116.3	122.8	116.6	124.3	118.1									
	Dry Weight	4899.0	4899.8	4896.9	4899.4	4898.4	4901.0	4902.3	4900.6									
	Water Weight	2861.0	2857.5	2867.8	2872.6	2867.1	2871.2	2841.6	2835.3									
	SSD Weight	4902.3	4903.9	4897.6	4901.3	4900.6	4903.2	4903.9	4902.8									
	JMF G _{mb}	G _{mb}	2.400	2.394	2.413	2.415	2.409	2.412	2.377	2.370								
	2.436	Avg G _{mb}	2.397		2.414		2.411		2.374									
	Performed By (TIN):		R40079165-000															
	Performed On:																	
Roadway G _{mb}	Static Mode	Fine Graded	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
		Core # 1	1823.1	1047.0	1824.1	2.346	1959.0	1128.0	1960.4	2.353	2858.3	1661.4	2859.4	2.386				
		Core # 2					1719.3	985.4	1719.9	2.341								
		Core # 3	2200.3	1261.2	2201.2	2.341	2060.9	1170.7	2062.7	2.310					2092.9	1211.4	2093.8	2.372
		Core # 4	1722.3	974.7	1724.4	2.297	2686.9	1481.2	2687.3	2.338	1980.2	1146.1	1981.4	2.368	2376.6	1368.6	2378.0	2.354
		Core # 5	1700.9	982.5	1701.7	2.365	2238.0	1274.2	2239.4	2.319	2311.5	1342.5	2313.0	2.382	2222.3	1257.1	2225.4	2.295
	Target	Avg G _{mb}	2.337				2.332				2.379				2.340			
93.0	% G _{mm}	94.12				93.69				95.62				94.01				
Performed By (TIN):		R40079165-000				R40079165-000				R40079165-000				R40079165-000				
Performed On:		1/26/2016				1/30/2016				2/1/2016				2/17/2016				
Volumetrics	Agg Sp Grav (G _{sb})	2.706	2.706			2.706			2.706			2.706						
	Gyrations @ N _{des}	75	75			75			75			75						
	% Gmm @ N _{int}	89.00	91.62			91.93			92.01			90.62						
	% Gmm @ N _{des}	96.00	96.54			96.99			96.91			95.38						
	% Air Voids @ N _{des}	4.00	3.46			3.01			3.09			4.62						
	% VMA @ N _{des}	14.70	16.17			15.8			15.8			16.73						
	% VFA @ N _{des}	73.00	78.6			80.95			80.44			72.38						
	Dust / Asphalt	1.20	0.98			1.04			1.05			1.16						
	G _{mb} @ N _{des}	2.436	2.397			2.414			2.411			2.374						
	C _{se}	2.760	2.699			2.718			2.711			2.694						
	P _{ba}	0.70	-0.1			0.17			0.07			-0.17						
	P _{be}	4.50	5.46			5.46			5.43			5.25						

Alternate Pay-Item:

Comments (Sublot 1):	
Comments (Sublot 2):	
Comments (Sublot 3):	
Comments (Sublot 4):	

PAY FACTORS

No.8 Sieve	1.05
No.200 Sieve	1.05
Percent AC	0.95
Air Voids	0.97
Density	No Tons
Composite	No Tons

Project ID: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

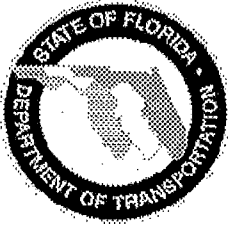
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SP 14-2843A

Single Sample Login Information



	LOT	SUB	LOT	SUB	LOT	SUB	LOT	SUB
	10	1	10	2	10	3	10	4
Date Sampled								
Sampled By (TIN):	R40079165-000	S52272063-000						
Submitted By:	Jeff James	Jeff James	Jeff James	Jeff James				
of:	Middlesex	Middlesex	Middlesex	Middlesex				
Phone:	407-206-0078	407-206-0078	407-206-0078	407-206-0078				
Intended Use:	STRUCTURAL	STRUCTURAL	STRUCTURAL	STRUCTURAL				
Sample No.:	1A004X							
Station From:		+		+		+		+
Station To:		+		+		+		+
Lane, Load #, Ran. Tons	5							

Asphalt Content

Performed By (TIN):	R40079165-000			
Performed On:	2/17/2016			
Basket wt., g (A)	2828.4			
Bgn. Basket + Sample wt., g (B)	4329.0			
Bgn. Sample wt., g, (B-A)	1500.6			
End Basket + Sample wt., g (C)	4242.6			
Final Sample wt., g, (C-A)	1414.2			
AC from Print Out, % (E)	5.81			
Calibration Factor, % (F)	-0.12			
Des. AC, %	5.60	Percent AC, % (E+F)	5.69	
Wt. of Extracted Agg., g (G)	1413.3			
Note: Diff. D & G shall not > 0.2% of D.	0.06			
Wt. of Washed Sample, g (H)	1361.5			
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	51.8			

Gradation

Performed By (TIN):	R40079165-000								
Performed On:	2/17/2016								
Sieve	Target	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
1" (25.0mm), g	100	0.0	100.00						
3/4" (19.0mm), g	100	0.0	100.00						
1/2" (12.5mm), g	100	5.3	99.62						
3/8" (9.5mm), g	96	68.5	95.15						
No.4 (4.75mm), g	74	416.9	70.50						
No.8 (2.36mm), g	52	704.8	50.13						
No.16 (1.18mm), g	36	897.7	36.48						
No.30 (600µm), g	27	1015.2	28.17						
No.50 (300µm), g	19	1111.2	21.38						
No.100 (150µm), g	9	1270.5	10.10						
No.200 (75µm), g	5	1338.4	4.96						
Wt of Matl. in Pan, g	18.3								

G_{mm}

Performed By (TIN):	R40079165-000				
Performed On:	2/17/2016				
(Must be a numerical number) Flask No.:	3	4			
Weight of Flask + Sample	2067.3	2093.5			
Weight of Flask	1038.1	1063.6			
Weight of Sample	(A) 1029.2	1029.9			
Weight of Flask + Water	(D) 3359.9	3389.2			
Weight of Flask + Water + Sample	(E) 3981.2	4010.4			
Weight of Sample Surface Dry	(B)				
G _{mm} = (A/(B+D-E))	2.523	2.520			
Corr. Factor	JMF G _{mm}	Difference	0.003		
0	2.540	Average G _{mm}	2.522		

Lab G _{mb}	Performed By (TIN):		R40079165-000	
	Performed On:		2/17/2016	
	Hgt. @ N _{int}	124.5	124.8	
	Hgt. @ N _{des}	115.5	115.7	
	Average Heights N _{int} , N _{des}		124.7	115.6
	Dry Weight		4899.9	4899.1
	Water Weight		2895.2	2895.2
	SSD Weight		4902.7	4903.5
	JMF G _{mb}	G _{mb}	2.441	2.439
	2.540	Avg G _{mb}	2.440	

Roadway G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Static Mode	Core # 1																
		Core # 2																
		Core # 3																
		Core # 4																
		Core # 5																
	Target	Avg G _{mb}																
	93.0	% G _{mm}																

Volumetrics	Performed By (TIN):		R40079165-000	
	Performed On:		2/17/2016	
	Agg Sp Grav (G _{sb})	2.715	2.715	
	Gyrations @ N _{des}	50	50	
	% Gmm @ N _{int}	89.00	89.69	
	% Gmm @ N _{des}	96.00	96.75	
	% Air Voids @ N _{des}	4.00	3.25	
	% VMA @ N _{des}	11.70	15.24	
	% VFA @ N _{des}	66.00	78.67	
	Dust / Asphalt	1.10	0.98	
	G _{mb} @ N _{des}	2.540	2.44	
	G _{se}	2.782	2.764	
	P _{ba}	0.90	0.67	
	P _{be}	4.70	5.06	

Alternate Pay-Item:

Comments (Sublot 1):

Comments (Sublot 2):

Comments (Sublot 3):

Comments (Sublot 4):

PAY FACTORS

- No. 8 Sieve 1.05
- No. 200 Sieve 1.05
- Percent AC 1.05
- Air Voids 1.00
- Density No Tons
- Composite No Tons

Project ID: 43551516801

Pay Item No.:

Material ID:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

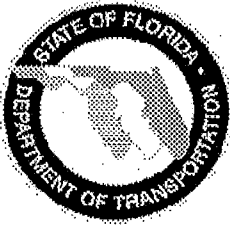
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SP 14-12359B

Single Sample Login Information



	LOT 11	SUB 1	LOT 11	SUB 2	LOT 11	SUB 3	LOT 11	SUB 4
Date Sampled	2/18/2016		2/18/2016					
Sampled By (TIN):	R40079165-000		R40079165-000		R40079165-000		R40079165-000	
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James	
of:	Middlesex		Middlesex		Middlesex		Middlesex	
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078	
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL		STRUCTURAL	
Sample No.:	2C016X		2C017X					
Station From:	+		+		+		+	
Station To:	+		+		+		+	
Lane, Load #, Ran. Tons	5	316	20	715				

Asphalt Content

Performed By (TIN):	R40079165-000	R40079165-000		
Performed On:	2/18/2016	2/18/2016		
Basket wt., g (A)	2828.6	2916.4		
Bgn. Basket + Sample wt., g (B)	4328.9	4417.7		
Bgn. Sample wt., g, (B-A)	1500.3	1501.3		
End Basket + Sample wt., g (C)	4244.7	4334.5		
Final Sample wt., g, (C-A) (D)	1416.1	1418.1		
AC from Print Out, % (E)	5.64	5.54		
Calibration Factor, % (F)	-0.32	-0.32		
Des. AC, %	5.20	Percent AC, % (E+F)	5.32	5.22
Wt. of Extracted Agg., g (G)	1415.5	1418.6		
Note: Diff. D & G shall not > 0.2% of D.	0.04	0.04		
Wt. of Washed Sample, g (H)	1377.1	1340.5		
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	38.4	78.1		

Gradation

Sieve	Target	R40079165-000		R40079165-000					
		Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
1" (25.0mm), g	100	0.0	100.00	0.0	100.00				
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00				
1/2" (12.5mm), g	100	7.7	99.46	9.5	99.33				
3/8" (9.5mm), g	90	94.3	93.34	94.0	93.37				
No.4 (4.75mm), g	72	430.1	69.61	434.1	69.40				
No.8 (2.36mm), g	54	647.0	54.29	653.7	53.92				
No.16 (1.18mm), g	37	768.7	45.69	777.8	45.17				
No.30 (600µm), g	28	851.0	39.88	861.8	39.25				
No.50 (300µm), g	20	998.0	29.49	1002.3	29.35				
No.100 (150µm), g	10	1248.5	11.80	1241.1	12.51				
No.200 (75µm), g	5.6	1338.7	5.28	1328.7	6.28				
Wt of Matl. in Pan, g		36.3		11.0					

G_{mm}

Performed By (TIN):	R40079165-000	R40079165-000		
Performed On:	2/18/2016	2/18/2016		
(Must be a numerical number) Flask No.:	1	2	1	2
Weight of Flask + Sample	2004.3	2103.4	2021.4	2127.1
Weight of Flask	959.3	1062.9	959.5	1062.8
Weight of Sample (A)	1045.0	1040.5	1061.9	1064.3
Weight of Flask + Water (D)	3324.7	3390.9	3324.7	3390.9
Weight of Flask + Water + Sample (E)	3950.9	4013.7	3963.1	4028.9
Weight of Sample Surface Dry (B)				
G _{mm} = (A/(B+D-E))	2.491	2.487	2.503	2.493
Corr. Factor	JMF G _{mm}	Difference	0.004	0.010
-0.004	2.538	Average G _{mm}	2.489	2.498

Lab G _{mb}	Performed By (TIN):		R40079165-000		R40079165-000					
	Performed On:		2/18/2016		2/18/2016					
	Hgt. @ N _{int}		123.2	123.8	123.6	123.5				
	Hgt. @ N _{des}		117.2	117.4	117.3	117.3				
	Average Heights N _{int} , N _{des}		123.5	117.3	123.6	117.3				
	Dry Weight		4899.2	4902.1	4903.4	4902.5				
	Water Weight		2853.2	2859.0	2859.9	2855.8				
	SSD Weight		4902.0	4905.3	4906.9	4905.6				
	JMF G _{mb}	G _{mb}	2.391	2.396	2.395	2.392				
	2.436	Avg G _{mb}	2.394		2.394					

Roadway G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Core # 1		2408.5	1391.6	2407.9	2.368					1785.9	1009.0	1788.4	2.291				
	Core # 2		2178.6	1263.0	2179.9	2.376					2055.8	1166.6	2058.6	2.305				
	Core # 3		2298.1	1320.3	2299.9	2.346	2787.4	1589.1	2790.0	2.321								
	Core # 4		1973.2	1120.2	1975.2	2.308	2459.0	1380.9	2462.5	2.273								
	Core # 5						2146.3	1236.9	2147.3	2.358								
	Target	Avg G _{mb}	2.350				2.317				2.298							
	93.0	% G _{mm}	94.42				92.75											

Volumetrics	Performed By (TIN):		R40079165-000		R40079165-000					
	Performed On:		2/18/2016		2/18/2016					
	Agg Sp Grav (G _{sb})		2.706	2.706	2.706					
	Gyrations @ N _{des}		75	75	75					
	% G _{mm} @ N _{int}		89.00	91.35	90.95					
	% G _{mm} @ N _{des}		96.00	96.18	95.84					
	% Air Voids @ N _{des}		4.00	3.82	4.16					
	% VMA @ N _{des}		14.70	16.24	16.15					
	% VFA @ N _{des}		73.00	76.48	74.24					
	Dust / Asphalt		1.20	0.99	1.22					
	G _{mb} @ N _{des}		2.436	2.394	2.394					
	G _{se}		2.760	2.704	2.711					
	P _{ba}		0.70	-0.03	0.07					
P _{be}		4.50	5.35	5.15						

Alternate Pay-Item:

Comments (Sublot 1):

PAY FACTORS

Comments (Sublot 2):

No. 8 Sieve 1.05
No. 200 Sieve 1.00

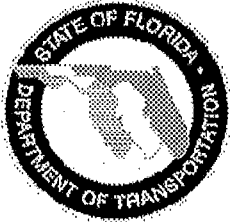
Comments (Sublot 3):

Percent AC 1.05
Air Voids 1.05
Density No Tons

Comments (Sublot 4):

Composite No Tons

Project ID: 43551515801 Pay Item No.: Material ID:
 Sample Level: Q Alt Density Sublot: N/A Resolution Sample: N Spec. Authority:
 Spec. Year: Destination LabID: Manfr or Prod: Middlesex Asphalt
 Plant No.: A0743 Design Mix No.: SP 14-12359B



Single Sample Login Information

	LOT 12	SUB 1	LOT 12	SUB 2	LOT 12	SUB 3	LOT 12	SUB 4
Date Sampled	3/22/2016		3/29/2016		4/1/2016			
Sampled By (TIN):	R40079165-000		R40079165-000		R40079165-000		R40079165-000	
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James	
of:	Middlesex		Middlesex		Middlesex		Middlesex	
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078	
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL		STRUCTURAL	
Sample No.:	2C018X		2C019X		2C020X			
Station From:	+		+		+		+	
Station To:	+		+		+		+	
Lane, Load #, Ran. Tons	10	319	5	669	6	1193		

Asphalt Content

Performed By (TIN):	M42517080-000	M42517080-000	M42517080-000
Performed On:	3/22/2016	3/29/2016	4/1/2016
Basket wt., g (A)	2903.0	2802.7	2802.9
Bgn. Basket + Sample wt., g (B)	4403.4	4304.6	4304.1
Bgn. Sample wt., g, (B-A)	1500.4	1501.9	1501.2
End Basket + Sample wt., g (C)	4321.7	4220.3	4223.9
Final Sample wt., g, (C-A) (D)	1418.7	1417.6	1421.0
AC from Print Out, % (E)	5.33	5.63	5.38
Calibration Factor, % (F)	-0.32	-0.32	-0.32
Des. AC, %	5.20		
Percent AC, % (E+F)	5.01	5.31	5.06
Wt. of Extracted Agg., g (G)	1420.0	1416.9	1420.7
Note: Diff. D & G shall not > 0.2% of D.	0.09	0.05	0.02
Wt. of Washed Sample, g (H)	1362.6	1352.1	1357.7
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	57.4	64.8	63.0

Gradation

Sieve	Target	M42517080-000		M42517080-000		R40079165-000		Wt Ret	% Pass
		Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass		
1" (25.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00		
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00		
1/2" (12.5mm), g	100	11.9	99.16	2.8	99.80	9.9	99.30		
3/8" (9.5mm), g	90	100.7	92.91	99.0	93.01	156.7	88.97		
No.4 (4.75mm), g	72	438.6	69.11	438.4	69.06	485.1	65.85		
No.8 (2.36mm), g	54	661.2	53.44	649.9	54.13	671.0	52.77		
No.16 (1.18mm), g	37	785.5	44.68	777.5	45.13	789.3	44.44		
No.30 (600µm), g	28	874.9	38.39	866.0	38.88	874.7	38.43		
No.50 (300µm), g	20	1025.3	27.80	1018.0	28.15	1015.3	28.54		
No.100 (150µm), g	10	1264.4	10.96	1259.5	11.11	1255.5	11.63		
No.200 (75µm), g	5.6	1343.1	5.42	1350.0	5.44	1340.3	5.65		
Wt of Matl. in Pan, g		19.5		12.3		17.3			

G_{mm}

Performed By (TIN):	M42517080-000	M42517080-000	E42053153-000
Performed On:	3/22/2016	3/29/2016	4/1/2016
(Must be a numerical number) Flask No.:	1	2	1 2
Weight of Flask + Sample	1990.6	2103.1	2003.7 2113.9
Weight of Flask	958.2	1061.6	958.3 1061.7
Weight of Sample (A)	1032.4	1041.5	1045.4 1052.2
Weight of Flask + Water (D)	3323.4	3389.6	3323.4 3389.6
Weight of Flask + Water + Sample (E)	3944.2	4016.3	3951.6 4022.9
Weight of Sample Surface Dry (B)			
G _{mm} = (A/(B+D-E))	2.504	2.507	2.502 2.508
Corr. Factor	JMF G _{mm}	Difference	
-0.004	2.538	0.003	0.006 0.008
		Average G _{mm}	2.506 2.505 2.506

Lab G _{mb}	Performed By (TIN):		M42517080-000	M42517080-000	M42517080-000				
	Performed On:		3/22/2016	3/29/2016	4/1/2016				
	Hgt. @ N _{int}		122.7	122.8	123.6	123.3	123.1	123.0	
	Hgt. @ N _{des}		116.5	116.5	117.3	117.2	117.2	117.0	
	Average Heights N _{int} , N _{des}			122.8	116.5	123.5	117.3	123.1	117.1
	Dry Weight			4898.9	4899.0	4902.0	4896.2	4900.2	4899.2
	Water Weight			2859.6	2865.1	2858.0	2845.8	2853.9	2858.0
	SSD Weight			4901.5	4901.6	4904.7	4899.1	4902.3	4901.6
	JMF G _{mb}	G _{mb}		2.399	2.406	2.395	2.385	2.392	2.397
	2.436	Avg G _{mb}		2.403		2.390		2.395	

Roadway G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Core # 1																	
	Core # 2																	
	Core # 3																	
	Core # 4																	
	Core # 5																	
	Target	Avg G _{mb}																
	93.0	% G _{mm}																

Volumetrics	Performed By (TIN):		M42517080-000	M42517080-000	R40079165-000	
	Performed On:		3/22/2016	3/29/2016	4/1/2016	
	Agg Sp Grav (G _{sb})		2.706	2.706	2.706	2.706
	Gyrations @ N _{des}		75	75	75	75
	% Gmm @ N _{int}		89.00	90.97	90.62	90.91
	% Gmm @ N _{des}		96.00	95.89	95.41	95.57
	% Air Voids @ N _{des}		4.00	4.11	4.59	4.43
	% VMA @ N _{des}		14.70	15.65	16.37	15.97
	% VFA @ N _{des}		73.00	73.74	71.96	72.26
	Dust / Asphalt		1.20	1.1	1.07	1.14
	G _{mb} @ N _{des}		2.436	2.403	2.39	2.395
	G _{se}		2.760	2.711	2.724	2.713
	P _{ba}		0.70	0.07	0.25	0.1
P _{be}		4.50	4.94	5.07	4.97	

Alternate Pay-Item:

Comments (Sublot 1):

PAY FACTORS

Comments (Sublot 2):

No.8 Sieve 1.05
No.200 Sieve 1.05

Comments (Sublot 3):

Percent AC 1.05
Air Voids 1.05
Density No Tons

Comments (Sublot 4):

Composite No Tons

Project ID: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

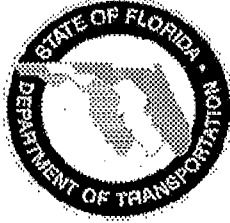
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SPM 13-11014B

Single Sample Login Information



	LOT 13	SUB 1	LOT 13	SUB 2	LOT 13	SUB 3	LOT 13	SUB 4
Date Sampled	3/24/2016		4/5/2016		4/9/2016		4/9/2016	
Sampled By (TIN):	R40079165-000		R40079165-000		R40079165-000		R40079165-000	
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James	
of:	Middlesex		Middlesex		Middlesex		Middlesex	
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078	
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL		STRUCTURAL	
Sample No.:	1F001Q		1F002Q		1F003Q		1F004Q	
Station From:	+		223 + 70		+		+	
Station To:	+		267 + 40		+		+	
Lane, Load #, Ran, Tons	6	107	5	731	3	1039	35	1781

Asphalt Content

Performed By (TIN):	R40079165-000	R40079165-000	R40079165-000	R40079165-000
Performed On:	3/24/2016	4/5/2016	4/9/2016	4/9/2016
Basket wt., g (A)	2829.2	2903.4	2829.7	2803.2
Bgn. Basket + Sample wt., g (B)	4332.0	4404.1	4330.4	4306.9
Bgn. Sample wt., g, (B-A)	1502.8	1500.7	1500.7	1503.7
End Basket + Sample wt., g (C)	4246.7	4316.0	4242.6	4217.9
Final Sample wt., g, (C-A) (D)	1417.5	1412.6	1412.9	1414.7
AC from Print Out, % (E)	5.57	5.83	5.84	5.90
Calibration Factor, % (F)	-0.20	-0.20	-0.20	-0.20
Des. AC, %	5.80	Percent AC, % (E+F)	5.37	5.63
			5.64	5.70
Wt. of Extracted Agg., g (G)	1415.6	1411.9	1412.3	1414.3
Note: Diff. D & G shall not > 0.2% of D.	0.13	0.05	0.04	0.03
Wt. of Washed Sample, g (H)	1361.6	1347.2	1353.8	1346.8
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	54.0	64.7	58.5	67.5

Gradation

Sieve	Target	R40079165-000		R40079165-000		E42053053-000		E42053053-000	
		Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
1" (25.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00	0.0	100.00
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00	0.0	100.00
1/2" (12.5mm), g	100	1.9	99.87	2.6	99.82	0.0	100.00	0.0	100.00
3/8" (9.5mm), g	99	27.4	98.06	17.0	98.80	13.4	99.05	23.0	98.37
No.4 (4.75mm), g	75	476.6	66.33	422.6	70.07	362.1	74.36	355.9	74.84
No.8 (2.36mm), g	52	726.4	48.69	682.2	51.68	653.4	53.74	640.8	54.69
No.16 (1.18mm), g	37	871.6	38.43	837.2	40.70	823.9	41.66	813.0	42.52
No.30 (600µm), g	28	966.0	31.76	939.0	33.49	930.0	34.15	921.7	34.83
No.50 (300µm), g	20	1086.9	23.22	1071.4	24.12	1068.2	24.36	1059.7	25.07
No.100 (150µm), g	9	1277.2	9.78	1261.5	10.65	1265.2	10.42	1259.2	10.97
No.200 (75µm), g	5.1	1350.4	4.54	1335.0	5.44	1340.4	5.08	1336.4	5.50
Wt of Matl. in Pan, g		10.3		12.1		13.2		10.3	

G_{mm}

Performed By (TIN):	R40079165-000	R40079165-000	R40079165-000	R40079165-000
Performed On:	3/24/2016	4/5/2016	4/9/2016	4/9/2016
(Must be a numerical number) Flask No.:	3	4	1	2
	3	4	3	4
Weight of Flask + Sample	2068.9	2092.1	1989.3	2093.3
Weight of Flask	1036.8	1062.3	958.5	1061.7
Weight of Sample	(A) 1032.1	1029.8	1030.8	1031.6
Weight of Flask + Water	(D) 3358.7	3387.6	3322.7	3389.1
Weight of Flask + Water + Sample	(E) 3983.4	4010.2	3944.8	4011.3
Weight of Sample Surface Dry	(B)			
G _{mm} = (A/(B+D-E))	2.532	2.528	2.521	2.519
Corr. Factor	JMF G _{mm}	Difference	0.004	0.002
	-0.001	2.524	2.530	2.520
		Average G _{mm}	2.517	2.519

Lab G _{mb}	Performed By (TIN):		R40079165-000		R40079165-000		E42053153-000		E42053063-000	
	Performed On:		3/24/2016		4/5/2016		4/9/2016		4/9/2016	
	Hgt. @ N _{int}		124.5	124.4	124.3	124.0	125.1	125.1	124.8	124.8
	Hgt. @ N _{des}		117.7	117.7	117.3	117.1	118.1	118.0	117.8	117.8
	Average Heights N _{int} , N _{des}		124.5	117.7	124.2	117.2	125.1	118.1	124.8	117.8
	Dry Weight		5001.3	5002.8	5003.8	5001.7	4999.8	5002.7	5002.4	5001.7
	Water Weight		2950.7	2950.8	2952.0	2955.2	2939.2	2944.1	2947.0	2947.0
	SSD Weight		5002.7	5004.0	5005.4	5003.2	5001.6	5003.7	5003.9	5003.8
	JMF G _{mb}	G _{mb}	2.437	2.437	2.437	2.442	2.424	2.429	2.432	2.432
	2.423	Avg G _{mb}	2.437		2.440		2.427		2.432	

Roadway G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Core # 1																	
	Core # 2																	
	Core # 3																	
	Core # 4																	
	Core # 5																	
	Target	Avg G _{mb}																
	93.0	% G _{mm}																

Volumetrics	Performed By (TIN):		R40079165-000		R40079165-000		R40079165-000		R40079165-000	
	Performed On:		3/24/2016		4/5/2016		4/9/2016		4/9/2016	
	Agg Sp Grav (G _{sb})		2.711	2.711	2.711	2.711	2.711	2.711	2.711	2.711
	Gyrations @ N _{des}		75	75	75	75	75	75	75	75
	% Gmm @ N _{int}		89.00	91.06	91.37	91.03	91.13	91.03	91.13	91.13
	% Gmm @ N _{des}		96.00	96.32	96.83	96.42	96.55	96.42	96.55	96.55
	% Air Voids @ N _{des}		4.00	3.68	3.17	3.58	3.45	3.58	3.45	3.45
	% VMA @ N _{des}		15.80	14.94	15.06	15.53	15.4	15.53	15.4	15.4
	% VFA @ N _{des}		75.00	75.37	78.95	76.95	77.6	76.95	77.6	77.6
	Dust / Asphalt		1.00	0.96	1.08	1	1.08	1	1.08	1.08
	G _{mb} @ N _{des}		2.423	2.437	2.44	2.427	2.432	2.427	2.432	2.432
	G _{se}		2.772	2.758	2.758	2.755	2.76	2.755	2.76	2.76
	P _{ba}		0.80	0.65	0.65	0.61	0.67	0.61	0.67	0.67
	P _{be}		5.00	4.75	5.02	5.06	5.07	5.06	5.07	5.07

Alternate Pay-Item:

Comments (Sublot 1):	
Comments (Sublot 2):	
Comments (Sublot 3):	
Comments (Sublot 4):	

PAY FACTORS

No.8 Sieve	0.94
No.200 Sieve	1.05
Percent AC	1.02
Air Voids	1.05
Density	No Tons
Composite	No Tons

Project ID: 43551515801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

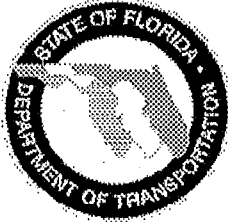
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix No.: SPM 13-11014B

Single Sample Login Information



	LOT 14	SUB 1	LOT 14	SUB 2	LOT 14	SUB 3	LOT 14	SUB 4	
Date Sampled	4/12/2016		4/14/2016		4/15/2016		4/16/2016		
Sampled By (TIN):	R40079165-000		R40079165-000		R40079165-000		R40079165-000		
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James		
of:	Middlesex		Middlesex		Middlesex		Middlesex		
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078		
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL		STRUCTURAL		
Sample No.:	1F005Q		1F006Q		1F007Q		1F008Q		
Station From:	34 + 00		198 + 22		266 + 99		250 + 00		
Station To:	45 + 45		253 + 30		148 + 57		219 + 48		
Lane, Load #, Ran. Tons	L1	3	135	15	624	3	1262	7	1860

Asphalt Content

Performed By (TIN):	R40079165-000	R40079165-000	R40079165-000	R40079165-000		
Performed On:	4/12/2016	4/14/2016	4/15/2016	4/16/2016		
Basket wt., g (A)	2804.1	2903.6	2804.6	2830.4		
Bgn. Basket + Sample wt., g (B)	4309.7	4405.3	4305.2	4333.3		
Bgn. Sample wt., g, (B-A)	1505.6	1501.7	1500.6	1502.9		
End Basket + Sample wt., g (C)	4222.2	4316.8	4218.1	4243.7		
Final Sample wt., g, (C-A) (D)	1418.1	1413.2	1413.5	1413.3		
AC from Print Out, % (E)	5.88	5.98	5.85	6.03		
Calibration Factor, % (F)	-0.20	-0.20	-0.20	-0.20		
Des. AC, %	5.80	Percent AC, % (E+F)	5.68	5.78	5.65	5.83
Wt. of Extracted Agg., g (G)	1416.8	1412.6	1413.2	1413.1		
Note: Diff. D & G shall not > 0.2% of D.	0.09	0.04	0.02	0.01		
Wt. of Washed Sample, g (H)	1354.0	1357.6	1361.7	1359.2		
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	62.8	55.0	51.5	53.9		

Gradation

Sieve	Target	E42053153-000		E42053153-000		E42053153-000		E42053153-000	
		Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
1" (25.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00	0.0	100.00
3/4" (19.0mm), g	100	0.0	100.00	0.0	100.00	0.0	100.00	0.0	100.00
1/2" (12.5mm), g	100	5.9	99.58	3.7	99.74	0.0	100.00	0.0	100.00
3/8" (9.5mm), g	99	20.6	98.55	17.6	98.75	7.8	99.45	12.9	99.09
No.4 (4.75mm), g	75	375.4	73.50	399.5	71.72	380.7	73.06	360.7	74.47
No.8 (2.36mm), g	52	674.3	52.41	665.7	52.87	681.3	51.79	661.0	53.22
No.16 (1.18mm), g	37	843.7	40.45	827.2	41.44	848.4	39.97	828.2	41.39
No.30 (600µm), g	28	949.0	33.02	932.9	33.96	948.4	32.89	935.8	33.78
No.50 (300µm), g	20	1076.3	24.03	1077.9	23.69	1078.5	23.68	1077.2	23.77
No.100 (150µm), g	9	1265.2	10.70	1269.3	10.14	1276.9	9.64	1270.7	10.08
No.200 (75µm), g	5.1	1338.8	5.52	1341.1	5.05	1346.4	4.77	1342.9	4.97
Wt of Matl. in Pan, g		15.4		16.4		15.9		16.3	

G_{mm}

Performed By (TIN):	E42053153-000	E42053153-000	E42053153-000	E42053153-000				
Performed On:	4/12/2016	4/14/2016	4/15/2016	4/16/2016				
(Must be a numerical number) Flask No.:	3	4	1	2	1	2	1	2
Weight of Flask + Sample	2062.8	2088.2	1978.8	2082.3	2007.4	2106.9	1989.3	2094.2
Weight of Flask	1035.9	1061.6	957.3	1060.7	957.4	1060.7	957.2	1060.6
Weight of Sample (A)	1026.9	1026.6	1021.5	1021.6	1050.0	1046.2	1032.1	1033.6
Weight of Flask + Water (D)	3358.5	3387.4	3322.7	3389.1	3322.7	3389.1	3322.7	3389.1
Weight of Flask + Water + Sample (E)	3976.4	4006.0	3937.0	4003.4	3956.0	4019.0	3942.4	4008.4
Weight of Sample Surface Dry (B)								
G _{mm} = (A/(B+D-E))	2.510	2.515	2.508	2.507	2.519	2.512	2.502	2.494
Corr. Factor	JMF G _{mm}	Difference	0.005	0.001	0.007	0.008		
-0.001	2.524	Average G _{mm}	2.513	2.508	2.516	2.498		

Lab G _{mb}	Performed By (TIN):		E42053153-000	E42053153-000	E42053153-000	E42053153-000				
	Performed On:		4/12/2016	4/14/2016	4/15/2016	4/16/2016				
	Hgt. @ N _{int} :		123.6	123.8	124.0	124.0	124.5	124.8	124.8	124.9
	Hgt. @ N _{des} :		116.3	116.4	116.9	117.0	117.3	117.5	117.5	117.6
	Average Heights N _{int} , N _{des} :		123.7	116.4	124.0	117.0	124.7	117.4	124.9	117.6
	Dry Weight		5002.0	5003.2	4999.9	5000.2	5000.1	5001.6	4998.4	5002.5
	Water Weight		2952.0	2950.0	2952.6	2951.9	2954.2	2956.2	2942.7	2948.8
	SSD Weight		5003.1	5004.0	5000.8	5000.4	5001.6	5003.2	4999.4	5003.5
	JMF G _{mb}	G _{mb}	2.439	2.436	2.441	2.441	2.442	2.443	2.430	2.435
	2.423	Avg G _{mb}	2.438		2.441		2.443		2.433	

Roadway G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Core # 1																	
	Core # 2																	
	Core # 3																	
	Core # 4																	
	Core # 5																	
	Target	Avg G _{mb}																
	93.0	% G _{mm}																

Volumetrics	Performed By (TIN):																					
	Performed On:		4/12/2016				4/14/2016				4/15/2016				4/16/2016							
	Agg Sp Grav (G _{sb})		2.711				2.711				2.711				2.711							
	Gyrations @ N _{des}		75				75				75				75							
	% Gmm @ N _{int}		89.00				91.29				91.83				91.41				91.71			
	% Gmm @ N _{des}		96.00				97.02				97.33				97.10				97.40			
	% Air Voids @ N _{des}		4.00				2.98				2.67				2.90				2.60			
	% VMA @ N _{des}		15.80				15.17				15.16				14.98				15.48			
	% VFA @ N _{des}		75.00				80.36				82.39				80.64				83.2			
	Dust / Asphalt		1.00				1.07				0.96				0.94				0.91			
	G _{mb} @ N _{des}		2.423				2.438				2.441				2.443				2.433			
	G _{sa}		2.772				2.752				2.75				2.754				2.74			
	P _{ba}		0.80				0.57				0.54				0.59				0.4			
	P _{be}		5.00				5.14				5.27				5.09				5.45			

Alternate Pay-Item:

Comments (Sublot 1):		PAY FACTORS
Comments (Sublot 2):		No.8 Sieve 1.05 No.200 Sieve 1.05
Comments (Sublot 3):		Percent AC 1.05 Air Voids 0.79 Density No Tons
Comments (Sublot 4):		Composite No Tons

Project ID.: 43551516801

Pay Item No.:

Material ID.:

Sample Level: Q

Alt Density Sublot: N/A

Resolution Sample: N

Spec. Authority:

Spec. Year:

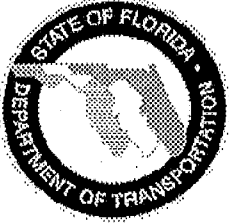
Destination LabID:

Manfr or Prod: Middlesex Asphalt

Plant No.: A0743

Design Mix. No.: SPM 13-11014B

Single Sample Login Information



	LOT 15	SUB 1	LOT 15	SUB 2	LOT 15	SUB 3	LOT 15	SUB 4
Date Sampled	4/18/2016							
Sampled By (TIN):	R40079165-000		R40079165-000		R40079165-000		R40079165-000	
Submitted By:	Jeff James		Jeff James		Jeff James		Jeff James	
of:	Middlesex		Middlesex		Middlesex		Middlesex	
Phone:	407-206-0078		407-206-0078		407-206-0078		407-206-0078	
Intended Use:	STRUCTURAL		STRUCTURAL		STRUCTURAL		STRUCTURAL	
Sample No.:	1F009Q							
Station From:	+		+		+		+	
Station To:	+		+		+		+	
Lane, Load #, Ran. Tons	3	474						

Asphalt Content

Performed By (TIN):	R40079165-000					
Performed On:	4/18/2016					
Basket wt., g (A)	2830.4					
Bgn. Basket + Sample wt., g (B)	4333.1					
Bgn. Sample wt., g, (B-A)	1502.7					
End Basket + Sample wt., g (C)	4244.0					
Final Sample wt., g, (C-A) (D)	1413.6					
AC from Print Out, % (E)	5.98					
Calibration Factor, % (F)	-0.20	-0.20				
Des. AC, %	5.80	Percent AC, % (E+F)	5.78			
Wt. of Extracted Agg., g (G)	1412.3					
Note: Diff. D & G shall not > 0.2% of D.	0.09					
Wt. of Washed Sample, g (H)	1348.9					
Wt of - 75um Mat'l lost due to Washing, g, (G-H)	63.4					

Gradation

Sieve	Target	Performed By (TIN): E42053153-000		Performed On: 4/18/2016							
		Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass	Wt Ret	% Pass
1" (25.0mm), g	100	0.0	100.00								
3/4" (19.0mm), g	100	0.0	100.00								
1/2" (12.5mm), g	100	0.0	100.00								
3/8" (9.5mm), g	99	16.0	98.87								
No.4 (4.75mm), g	75	364.9	74.16								
No.8 (2.36mm), g	52	643.8	54.41								
No.16 (1.18mm), g	37	811.3	42.55								
No.30 (600µm), g	28	919.6	34.89								
No.50 (300µm), g	20	1062.6	24.76								
No.100 (150µm), g	9	1262.3	10.62								
No.200 (75µm), g	5.1	1338.0	5.24								
Wt of Matl. in Pan, g	10.6										

G_{mm}

Performed By (TIN):	E42053153-000					
Performed On:	4/18/2016					
(Must be a numerical number) Flask No.:	1	2				
Weight of Flask + Sample	1973.7	2078.5				
Weight of Flask	957.3	1060.6				
Weight of Sample (A)	1016.4	1017.9				
Weight of Flask + Water (D)	3322.7	3389.1				
Weight of Flask + Water + Sample (E)	3934.9	4001.6				
Weight of Sample Surface Dry (B)						
G _{mm} = (A)/(B+D-E)	2.514	2.510				
Corr. Factor	JMF G _{mm}	Difference	0.004			
-0.001	2.524	Average G _{mm}	2.512			

Lab G _{mb}	Performed By (TIN):		E42053153-000	
	Performed On:		4/18/2016	
	Hgt. @ N _{int} :	125.2	125.3	
	Hgt. @ N _{des} :	117.9	118.1	
	Average Heights N _{int} , N _{des} :	125.3	118.0	
	Dry Weight:	4997.0	5001.4	
	Water Weight:	2939.3	2940.6	
	SSD Weight:	4998.5	5002.3	
	JMF G _{mb}	G _{mb}	2.427	2.426
	2.423	Avg G _{mb}	2.427	

Roadway G _{mb}	Performed By (TIN):																	
	Performed On:																	
	Fine Graded		Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb	Dry	Water	SSD	Gmb
	Static Mode	Core # 1																
		Core # 2																
		Core # 3																
		Core # 4																
		Core # 5																
	Target	Avg G _{mb}																
	93.0	% G _{mm}																

Volumetrics	Performed By (TIN):			
	Performed On:		4/18/2016	
	Agg Sp Grav (G _{sb})	2.711	2.711	
	Gyrations @ N _{des}	75	75	
	% Gmm @ N _{int}	89.00	90.99	
	% Gmm @ N _{des}	96.00	96.62	
	% Air Voids @ N _{des}	4.00	3.38	
	% VMA @ N _{des}	15.80	15.65	
	% VFA @ N _{des}	75.00	78.4	
	Dust / Asphalt	1.00	1.01	
	G _{mb} @ N _{des}	2.423	2.427	
	G _{se}	2.772	2.755	
	P _{ba}	0.80	0.61	
P _{be}	5.00	5.21		

Alternate Pay-Item:

Comments (Sublot 1):		PAY FACTORS
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Comments (Sublot 2):		No.8 Sieve 1.00	No.200 Sieve 1.05
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Comments (Sublot 3):		Percent AC 1.05	Air Voids 1.00	Density No Tons
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Comments (Sublot 4):		Composite No Tons
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