

******THIS IS A NEW APPENDIX. - PLEASE READ CAREFULLY.******

CIR-3 1/04								DAILY COLD-IN-PLACE ASPHALT RECYCLING REPORT							
Project No.: <u>STP-S-CO85(12)--5E-85</u>				Contractor/sub: <u>Quality Asphalt Inc./Recycling Specialties Inc.</u>				Report No.: <u>1</u>							
County: <u>Story</u>				Contract ID: <u>85-CO85-12</u>				Report Date: <u>07/12/03</u>							
Date Recycled: <u>07/11/03</u>				Date Tested: <u>07/11/03</u>				Tested By: <u>Ray J. Johnson Jr.</u>				Recycle Depth: <u>4 in.</u>			
Test Number or Location:	1	2	3	4	5	6	7								
Station:	123+12	136+25	144+54	158+02	166+66	175+75	188+42								
Centerline Reference:	2' RT	4' RT	2' RT	6' RT	6' RT	2' RT	8' RT								
Probe Depth:	4"	4"	4"	4"	4"	4"	4"								
Gauge Wet Density PCF:	131.1	132.2	133.5	129.6	127.6	130.1	129.5								
Gauge Dry Density PCF:	120.2	121.3	122.1	119.9	116.8	120.4	120.3								
Moisture PCF:	10.9	10.9	11.4	9.7	10.8	9.7	9.2								
Moisture Correction Factor:	8.3	8.3	8.3	8.3	8.3	8.3	8.3								
Corrected Dry Density PCF:	128.5	129.6	130.4	128.2	125.1	128.7	128.6								
Percent of Lab Density:	96.18	97.01	97.60	95.96	93.64	96.33	96.26								
Lab Dry Density avg. PCF: <u>133.6</u>				Avg. Corrected Dry Density PCF: <u>128.44</u>				Type of Rejuvenating Agent: <u>HFMS-2s</u>							
Lab Density avg. Gmb: <u>2.141</u>				Avg. Corrected % of Lab Density: <u>96.14</u>											
Lab Percent Moisture: <u>2.7</u>				Specified % of Lab Density: <u>92</u>											
<p>Q.I. = $\frac{128.44 - 122.91}{1.66} = 3.34$ Low Outlier: _____ High Outlier: _____</p>															
Samples Submitted								Production and Placement Record							
Material	Senders Number	Material	Senders Number	From Station	To Station	Side	Sq. Yds. Today	Sq. Yds. To Date	Recycle Width: <u>12 ft.</u>						
HFMS-2s	RJJ03-1	MIX	RJJ03-2	120+00	190+77	EB	9436	9436							
Weather: <u>Sunny, low 69, high 90</u>															
Remarks: <u>First day. Mix appears consistent. Two rollers - 20 ton rubber 6 passes, 16 ton steel vibratory 2 passes.</u>															
Distribution: Dist. Matls. _____ Proj. Engr. _____ Contractor _____ Inspector <u>X</u> Inspector: <u>Ray J. Johnson Jr.</u>															

CIR-1 1/04	Yield Check		Date: <u>07/11/03</u>
Square Yards Recycled:	9436.000		Project Number: <u>STP-S-CO85(12)--5E-85</u>
Gallons of Rejuvenator Used:	12560.300		
Actual Milling Depth - inches:	4.000		Contract ID: <u>85-CO85-12</u>
Rejuvenator Weight per Gallon:	8.530		
Gallons of Rejuvenating Agent per Sq. Yd. Per Inch:		0.33	
Percent Rejuvenating Agent:		2.61	Expressed as percent of dry RAP Assuming 145 PCF for Existing Pavement
Percent Rejuvenating Agent:		2.54	Expressed as percent of total dry mix - Foam only Assuming 145 PCF for Existing Pavement

CIR-2 1/04	Determination of Moisture Correction Factor										
Date:	<u>07/11/03</u>										
Test Number:	1	2	3	4	5	6	7	8	9	10	
Gauge Wet Density PCF:	131.1	132.2	133.5	129.6	127.6	130.1	129.5	127.8	126.6	129.8	
Gauge Moisture Content PCF:	10.9	10.9	11.4	9.7	10.8	9.7	9.2	12	12.5	11.9	
Lab % Moisture Pan Dry:	2.1	2.3	2.5	2	2.2	1.8	1.9	1.9	1.9	1.8	
Actual in-place Moisture PCF:	2.70	2.97	3.26	2.54	2.75	2.30	2.41	2.38	2.36	2.30	
Correction Factor PCF:	8.20	7.93	8.14	7.16	8.05	7.40	6.79	9.62	10.14	9.60	
Avg. Gauge Wet Density PCF:		129.78		<u>STP-S-CO85(12)--5E-85</u>				Project Number			
Avg. Gauge Moisture PCF:		10.90		<u>85-CO85-12</u>				Contract ID			
Avg. Lab % Moisture:		2.04									
Avg. Actual Moisture PCF:		2.60									
Avg. Correction Factor:		8.30									