

# Asphalt Binder ETG Oklahoma Update

Fairfield Inn & Suites  
Oklahoma City Airport  
September 15, 2015

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# Summary

- MSCR Implementation
- PPA / REOB
- GTR
- RAP / RAS
- Tack Coats

# MSCR Implementation

- 2012 – Caddo County Project
  - R3.2 Min. 95 PG 76-28 E
- 2014 – Partial Implementation
  - R3.2 Min. 50 PG 70-28 OK
  - R3.2 Min. 80 PG 76-28 OK
- 2016 – Full Implementation

# PPA / REOB

- TFHRC Data
- University of Oklahoma PPA Research
- In-House XRF
  - Setup
  - Research Testing

# GTR

- ODEQ Sponsored Research
  - County Road
  - University of Oklahoma Research

# RAP / RAS

- PBR – Percent Binder Replaced  
Demo Projects
- RAS 75-85 % Chemical vs.  
Ignition Oven Extraction

# Tack Coats

- County Road near Spiro, OK
  - SS-1 0.08 gal/SY Original Emulsion –Tracked & 2 Hour Break
  - SS-1 0.10 gal/SY 1:1 Diluted
  - eTac 0.08 gal/SY Original Emulsion

# SS-1 0.08 gal/SY Original Emulsion





# SS-1 0.08 gal/SY Original Emulsion



# eTac 0.08 gal/SY Original Emulsion



# eTac Distributor



# Tack Coats

- SS-1 0.06 gal/SY 1:1 Diluted
  - Plane Slippage

# Plane Slippage



# Plane Slippage



# Tack Coats

- NTQS-1HH 0.25 gal/SY Original Emulsion
  - Fat Spots

# Fat Spots





# Fat Spots



# Tack Coat Excel File

## Tack Coat

Project No.						SHOT @	100% NTQS-1HH									Line Item N
DATE	BEGINNING STATION	ENDING STATION	LENGTH	WIDTH	SQUARE YARDS	GAL. START	GAL. STOP	GAL. SHOT	OIL TEMP	TEMP CORR.	CORR. GAL.	GAL. @ 100%	ACC. GAL.	GAL./ S.Y.		
08/21/2014	12+25.00	10+60.00	165.00	14.33	262.72	1350	1320	30.00	160	0.97500	29.25	29.25	29.25	0.111		
08/22/2014	14+50.00	12+25.00	225.00	16	400.00	1320	1280	40.00	160	0.97500	39.00	39.00	68.25	0.098		
08/23/2014	19+30.00	14+50.00	480.00	16	853.33	1280	1175	105.00	160	0.97500	102.38	102.38	170.63	0.120		
08/24/2014	23+06.00	19+30.00	376.00	16	668.44	1175	1075	100.00	160	0.97500	97.50	97.50	268.13	0.146		
08/25/2014	12+95.00	12+25.00	70.00	5	38.89	1075	1065	10.00	160	0.97500	9.75	9.75	277.88	0.251		
08/26/2014	14+20.00	12+95.00	125.00	11	152.78	1065	1045	20.00	160	0.97500	19.50	19.50	297.38	0.128		
08/27/2014	14+20.00	13+75.00	45.00	13	65.00	1045	1030	15.00	160	0.97500	14.63	14.63	312.00	0.225		
08/28/2014	20+80.00	19+30.00	150.00	9.5	158.33	1030	1010	20.00	160	0.97500	19.50	19.50	331.50	0.123		
08/29/2014	21+70.00	20+80.00	90.00	19	190.00	1010	980	30.00	160	0.97500	29.25	29.25	360.75	0.154		
08/30/2014	22+00.00	21+70.00	30.00	12	40.00	980	970	10.00	160	0.97500	9.75	9.75	370.50	0.244		
08/31/2014	22+40.00	22+00.00	40.00	19	84.44	970	950	20.00	160	0.97500	19.50	19.50	390.00	0.231		
08/31/2014	60+67.00	58+40.00	227.00	10.5	264.83	950	900	50.00	160	0.97500	48.75	48.75	438.75	0.184		
08/31/2014	10+60.00	60+67.00	5007.00	12	6676.00	1500	950	550.00	160	0.97500	536.25	536.25	975.00	0.080		

# Questions?

[http://www.ok.gov/odot/Doing\\_Business/Construction/Materials\\_&\\_Testing\\_e-Guide/index.html](http://www.ok.gov/odot/Doing_Business/Construction/Materials_&_Testing_e-Guide/index.html)



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