NorthEast Transportation Training & Certification Program

HMA Asphalt Content, Gradation & Marshall Volumetrics Test Report (T 329, T 164, T 30, T 166, T 209, T 245)

Date/Time:		Lab/Location:			
Weather:		Date Rec'd #:		Random Sample:	Yes No
Project:		Lab Login #:		Lot #:	
Contract #:		Material ID:		Sublot #:	
Contractor:		Material #:		Sample Location:	
Pay Item #:		Sample #:		Station:	
Source:		Sample Type:	QC A-V IA DR Other	Offset:	
Plant Type:		Sampled By/Cert. #:			

Moisture Content (T 329)		Asphalt Content of HMA by Extraction Method (T 164)			
Sample Wet Mass (A):		Initial Sample Mass (W_1i):		Extracted Agg.+ Pan (W_3p):	
Sample Dry Mass (B):		Corrected Sample Mass (W_1):		Pan Tare Mass (P):	
Water Mass (C): (A - B)		(W_1i / (1+(.01*M)))		Extracted Agg. (W_3): (W_3p-P):	
% Moisture (M):		Initial Filter Mass (Fi):		Total Agg. Mass: (W_3 + W_4)	
(100*((A-B)/B))		Final Filter Mass (Ff):		PG Binder Mass (Wpg):	
Note:		Fines on Filter (W_4f): (Ff - Fi)		(W_1 - (W_3 + W_4))	
Total Ash Correction from Form T111		Ash Correction (W_4a):		**%PG Binder (Pb):**	
HMA Temperature		Mineral Matter Mass (W_4):		((Wpg/W_1)*100)	
Sample Temp, ºC:		(W_4f + W_4a)		PG Binder JMF:	

Mechanical Analysis of Extracted Aggregate (T 30)

Sieve, in. (mm)	Mass Retained	Percent Retained	Percent Passing	Job Mix Formula	+ / - Tolerance	Variance
1 1/2 (37.5)						
1 (25)						
3/4 (19)						
1/2 (12.5)						
3/8 (9.5)						
#4 (4.75)						
#8 (2.36)						
#16 (1.18)						
#30 (600 µm)						
#50 (300 µm)						
#100 (150 µm)						
#200 (75 µm)						
PAN						
TOTAL:						

Bulk Specific Gravity of Compacted HMA (T 166)

Specimen #	Mass in Air	Mass in H_2O	SSD Mass	Volume	G_{mb}

Maximum Specific Gravity of HMA (T 209)

Specimen #	(A)	Bowl Method: Pyc on weigh below	Bowl Method: Pyc and Sample on Weigh Below	Flask Method (D)	Flask Method (E)	G_{mm}	Unit Weight	
								A = Sample
								D = Pycn. + H2O
								E = Pycn. + H2O + A
					Average:			

Specimen #	Volumetric Analysis: G_{sb}	% Air Voids	VMA	VFA	HMA Marshall Stability and Flow (T 245): Dial Reading	Corr. Factor	Stability	Corr. Stability	Flow
	Average:						Average:		

Comments:

Tested by:		Reviewed by:	
Certification #:		Certification #:	
Date:		Date:	

Test Results Within Engineering Limits: YES ☐ NO ☐