## $NorthEast\ Transportation\ Training\ \&\ Certification\ Program$

		Sound	dness of Co	arse Aggre	gate Test Re	eport (T 104	<b>!</b> )			
Date/Time:				Lab/Location:						
Weather:	Weather:				Date Rec'd #: Ra			andom Sample: Yes No		
Project:				Lab Login #:	Lab Login #:			Lot #:		
Contract #:			Material ID:			Sublot #:				
Contractor:				Material #: Sample			imple Location:			
Pay Item #:				Sample #: Statio			Station:			
Source:	Sample Type: QC A-V IA DR Other Offset:									
Plant Type: Sampled By/Cert. #:										
Soundness of Aggregate by Use of Sodium Sulfate or Magnesium Sulfate (T 104)										
, ,										
Na <sub>2</sub> S	O <sub>4</sub> Solution Sp. (	Gr. 1.151/1.174			Temp. °F			New Solution: Yes No		
MgSO <sub>4</sub> Solution Sp. G					Temp. °F			New Solution: Yes No		
<u> </u>	7			ļ.	<u> </u>					
Soundness Test of Coarse Aggregate: # 4 (4.75 mm) - 2 1/2 in. (63 mm)										
Sieve Size		(A)	(B)				<u> </u>			
(Eliminate size if < 5% present)		Original	Original Mass	Mass after 1st Soaking M		Mass after :	Mass after 2nd Soaking		Mass after 3rd Soaking	
Passing, in. (mm)	Retained, in. (mm)	% Retained	Oven Dry	Oven dry	2 hr later	Oven Dry	2 hr Later	Oven Dry	2 hr later	
2 1/2 (63)	1 1/2 (37.5)		,	,		j		,		
Note: 3000g - 2 1/2 in. (63 mm) to +2 in (50 mm); 2000g -2 in. (50 mm) to +1 1/2 in. (37.5 mm); Total Mass = 5000g +/- 300g										
1 1/2 (37.5)	3/4 (19)	(==)				(01101111	,,,	array warray		
(67.6)	Note: 1000g -1 1	1/2 in. (37.5 mm	1) to + 1 in. (25 r	nm): 500a -1 in	(25 mm) to + 3	3/4 in. (19 mm):	Total Mass = 1	500a +/- 50a		
3/4 (19)	3/8 (9.5)	(071011111	, , , , , , , , , , , , , , , , , , , ,	,, coog	(20 11111) to 1 1	(1711111)	Total Mass	ordy it day		
0/1(17)	Note: 670g -3/4	in (19 mm) to +	-1/2 in (12 5 mr	n)· 330a -1/2 in	(12.5 mm) to -	+3/8 (9 5 mm)·	Total Mass = 10	000a +/- 10a		
3/8 (9.5)	#4 (4.75)	(17 11111) to 1	172 111. (12.0 1111	11,7 000g 172 111	. (12.0 11111) to	7.0 (7.0 11111)	Total Wass	700g 17 10g		
0/0 (7.0)	Note: 300g +/- 5	a -3/8 in. (9.5 m	nm) to + #4 (4.7!	5 mm)						
		g (	, (			(C)	(D)	(E)	(F)	
						Mass	Mass	Percent	Mass	
Sieve Size		Mass after	4th Soaking	Mass after 5th Soaking		Retained	Lost	Loss	% Loss	
Passing, in. (mm) Retained, in. (mm)		Oven Dry	2 hr later	Oven Dry	2 hr later	after Test	(B-C)	(D/B)x100	(AxE)/100	
2 1/2 (63)	1 1/2 (37.5)		= 111 14141	21021			(= -)	(=,=)	(),	
1 1/2 (37.5)	3/4 (19)									
3/4 (19)	3/8 (9.5)									
3/8 (9.5)	#4 (4.75)									
676 (7.0)	" 1 (1.70)									
% Loss ( Sum of F ):										
Qualitative Examination of Coarse Sizes										
Particles Exhibiting Distress										
Particle	Initial No. of	Spli	ttina					cking Flaking		
Sieve Size	Particles	No.	Percent	No.	Percent	No.	Percent	No.	Percent	
1 1/2 (37.5) - 2 1/2 (63)		140.	1 or oom	140.	1 or oom	140.	1 or cont	110.	1 010011	
3/4 (19) - 1 1/2 (37.5)										
( ,	<u>'</u>		<u> </u>							
Comments:										
Comments.										
Tested by:					Reviewed by:					
Certification #: Certification #:										
-										
Date:	esults Within Eng	inoorina Limito	YES		Date:					
1621 K	องนแง พทแทท ENG	meening Lilling:	152	_	NO	_				