NETTCP Laboratory Qualification Program

Inspection Summary Report

LABORATORY INFORMATION							
Laboratory Name:	Massachusetts Ready Mix			**Lab Qualification No.:**	262		
Street Address:	80 Ayer Road						
City/Town:	Littleton	**State:**	MA	**Zip:**	01460	**Phone #:**	978-501-9873
Billing Address:							
City/Town:		**State:**		**Zip:**			

LABORATORY MANAGEMENT AND QUALIFICATIONS							
Laboratory Manager/Supervisor:	Amir Zand / Kayanja Kamya				QAT Cert #:	1153	
Laboratory Category:	Category 1 ☐		Category 2 ☐		Category 3 ☒		
Materials Qualified to Test:	HMA ☐		Aggregate ☒	Soils ☐	PCC ☒		
Technician NETTCP Certifications:	HMA PT #:		S&A T #:	374	CT #:		
AASHTO/ASTM Test Methods Qualified to Perform: (Please Attach Inspection Checklist)							

GENERAL REQUIREMENTS (All Laboratory Categories)		
♦ The Laboratory Manager/Supervisor has a minimum of 3 years relevant experience in testing of construction materials.	YES ☒	NO ☐
♦ All Laboratory Technicians performing testing on Agency projects, unless working in an interim status under the direct supervision of a NETTCP certified technician, possess a valid NETTCP certification, or are qualified through another FHWA or FAA approved certification program, for the sampling and testing they perform.	YES ☒	NO ☐
♦ The laboratory facility adequately houses and allows proper operation of all required testing equipment in accordance with applicable test procedures.	YES ☒	NO ☐
♦ All laboratory test equipment has been calibrated, verified, or standardized at the frequencies specified by AASHTO or ASTM. Complete documentation of calibration for all laboratory test equipment is kept by the laboratory and available for review.	YES ☒	NO ☐
♦ All laboratory test equipment has been adequately maintained and was determined to be in proper working order.	YES ☒	NO ☐
♦ The laboratory maintains the following current Reference Manuals: • Current (within last year) AASHTO & ASTM standard testing procedures. • NETTCP Technician course manual(s) covering all test methods performed by the laboratory. • Transportation Agency/NETTCP policies for the handling, identification, conditioning, storage, and retention of test samples for all test methods performed by the laboratory.	YES ☒	NO ☐

GENERAL REQUIREMENTS (- Continued -)		
♦ All laboratory test results are recorded using the NETTCP standard Test Report Forms (TRFs) or equivalent forms acceptable to the responsible Transportation Agency(s).	YES ☒	NO ☐
CATEGORY 1 & 2 LABORATORY REQUIREMENTS		
♦ The laboratory maintains a Laboratory Quality Manual which conforms to the requirements of the "NETTCP Laboratory Quality Manual Guidelines" (See Appendix B) and which has been reviewed and accepted by the responsible Transportation Agency.	YES ☐	NO ☐
CATEGORY 1 & 2 LABORATORY REQUIREMENTS		
♦ The laboratory undergoes proficiency evaluation to verify continuing acceptable performance and maintains a record of all proficiency evaluation results, including any necessary follow-up actions taken. This is being accomplished through <u>one</u> of the following options: (1) **<u>AMRL/CCRL Proficiency Evaluation</u>** – The laboratory participates in all AMRL/CCRL proficiency testing programs relevant to the testing being performed by the laboratory. The laboratory has investigated to determine the cause(s) for any proficiency rating of "2" or less and has implemented indicated corrective action. Copies of all AMRL/CCRL reports, along with laboratory responses, are maintained at the laboratory. (2) **<u>NETTCP Proficiency Evaluation</u>** – The laboratory participates in a proficiency testing program established and operated by NETTCP (or a Transportation Agency) utilizing one or more AASHTO-accredited laboratories. The NETTCP proficiency program is similar in nature to the AMRL/CCRL proficiency testing program. Copies of all proficiency evaluation reports, along with laboratory responses, are maintained at the laboratory. (3) **<u>IA Evaluation</u>** – A Transportation Agency's Independent Assurance (IA) system is being used to evaluate the personnel and equipment of the laboratory. IA evaluation is being performed at a minimum frequency of once per year. Records of IA evaluation are being maintained at the laboratory.	YES ☐	NO ☐

LABORATORY QUALIFICATION DETERMINATION				
Inspecting Entity (NETTCP or Agency):		NETTCP		
Inspected By:	**Dan Brodeur**	**Inspection Date:**	7/3/24	
		Expiration Date:	7/3/25	
This lab is ASSHTO / CCRL Accredited			YES ☐	
This Laboratory meets all relevant NETTCP LQP requirements			YES ☒	NO ☐

Certified / Qualified in the Following Test Procedures

		AASHTO	ASTM
Aggregates			
	AASHTO / ASTM		
Material Finer Than #200 Sieve by Washing	(T11/C117)	✓	✓
Unit Weight and Voids in Aggregates	(T19/C29)	✓	✓
Organic Impurities in Fine Aggregate for Concrete	(T21/C40)	✓	✓
Sieve Analysis of Fine and Coarse Aggregates	(T27/C136)	✓	✓
Sieve Analysis of Extracted Aggregate	(T30/D5444)		
Reducing Aggregate Samples	(R76/C702)	✓	✓
Specific Gravity and Absorption of Fine Aggregate	(T84/C128)	✓	✓
Specific Gravity and Absorption of Coarse Aggregates	(T85/C127)		
Coarse Aggregate L.A. Abrasion	(T96/C131)		
Soundness of Aggregates	(T104/C88)		
Sand Equivalent Test	(T176/--)		
Moisture Contents of Aggregates	(T255/C566)	✓	✓
Un-compacted Void Content of Fine Aggregate	(T304/--)		
Flat & Elongated Particles in Coarse Aggregate	(T335/D4791)		
Percentage of Fractured Particles in Coarse Aggregate	(--/D5821)		
Specific Gravity and Absorption of Aggregate using Vacuum Saturation and Rapid Submersion	(--/D7370)		
Asphalt Mix			
Extraction of Asphalt Binder from Asphalt Mixtures	(T164/D2172)		
Bulk Specific gravity of Asphalt Mixtures	(T166/D2726)		
Theoretical Specific Gravity of Asphalt Mixtures	(T209/D2041)		
Marshall Test Procedure	(T245/D6926)		
Resistance of Compacted HMA to Moisture Induced Damage	(T283/--)		
Draindown in Uncompacted Asphalt Mixtures	(T305/--)		
Asphalt Binder Content by Ignition Oven	(T308/D6307)		
Density of Asphalt Mixtures by SuperPave Gyratory	(T312/D6925)		
Moisture Control of Asphalt Mixtures	(T329/--)		
Bulk Specific Gravity - Asphalt Mix using Automatic Vacuum Sealing	(T331/--)		
Thickness of Compacted Asphalt Mixtures Specimens	(--/D3549)		
Vacuum Drying Compacted Asphalt Mixtures Specimens	(R79/--)		

Concrete			
Compressive Strength of Concrete Cylinders	(T22/C39)	✓	✓
Making and Curing Concrete Specimens in the Field	(T23/C31)		
Flexural Strength of Concrete with Third Point Loading	(T97/C78)		
Slump of Concrete	(T119/C143)	✓	✓
Density and Yield of Concrete	(T121/C138)	✓	✓
Moist Rooms and Water Storage Tanks for Curing Concrete Specimens	(M201/C511)	✓	✓
Air Content of Concrete by Pressure Method	(T152/C231)	✓	✓
Air Content of Concrete by Volumetric Method	(T196/C173)	✓	✓
Capping Cylindrical Concrete Specimens	(T231/C617)	✓	✓
Temperature of Concrete	(T309/C1064)	✓	✓
Soils			
Materials Finer than #200 Sieve by Washing	(T11/C117)	✓	✓
Sieve Analysis of Fine and Coarse Aggregates	(T27/C136)	✓	✓
Particle Size Analysis of Soils	(T88/C422)		
Liquid Limit of Soils	(T89/D4318)		
Plastic Limit of Soils	(T90/D4318)		
Moisture Density Relation of Soils with 5.5lb Hammer	(T99/D698)		
Moisture Density Relation of Soils with 10.0lb Hammer	(T180/D1557)		
Moisture Content of Soils	(T265/D2216)		
Gain Size Analysis of Granular Soils	(T311/--)		

NorthEast Transportation Training and Certification Program

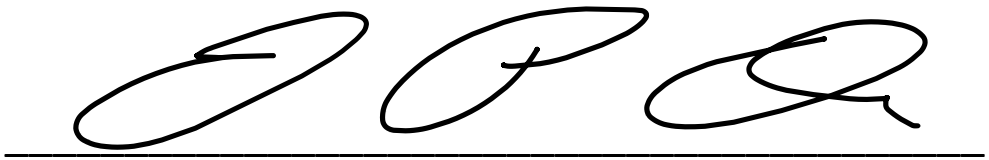
NETTCP

Laboratory Certification is given to:

Massachusetts Ready Mix
80 Ayer Road, Littleton, MA 01460

Please refer to the NETTCP website (www.nettcp.com)
for approved AASHTO and ASTM procedures

Expiration Date: 07/03/25 Certification Number: 262



Authorized Signature