

**NEW ENGLAND TRANSPORTATION CONSORTIUM
QUARTERLY PROJECT PROGRESS REPORT**

A. PROJECT NUMBER AND TITLE:

NETC 18-2: Framework of Asphalt Balanced Mix Design (BMD) for New England Transportation Agencies

B. PRINCIPAL INVESTIGATOR(S) & UNIVERSITY(S):

Professor Walaa Mogawer, PhD., PE, F.ASCE -University of Massachusetts Dartmouth

C. WEB SITE ADDRESS (If one exists):

<https://www.newenglandtransportationconsortium.org/research/netc-research-projects/netc-18-2/>

D. START DATE (Per NETC Agreement): 02/05/2019

E. END DATE (Per NETC Agreement): 06/30/20

F. ANTICIPATED COMPLETION DATE: 06/30/20

G. PROJECT OBJECTIVES:

The objective of this research project is to synthesize existing information and to develop recommendations for a rational BMD approach for use by New England transportation agencies. Gaps in testing and performance data will be identified through this project and an experimental plan for required future work will be developed.

H. REPORT PERIOD: *Quarter 2: April to June 2019*

I. ACCOMPLISHMENTS THIS PERIOD:

- 1. The kickoff meeting for the project was conducted via web conference on Tuesday April 16th, 2019. The PI and project consultant discussed the objectives and tasks for the project with the NETC Technical Committee.*
- 2. The research team developed a preliminary internet based survey for Task 1 - "Identify typical pavement distresses in each of the New England states." The main purpose of the survey was to determine the types of pavement distresses being observed by the NETC state agencies. The preliminary survey was reviewed by the project technical committee and correspondingly comments and changes were addressed by the research team. The survey was posted for solicitation responses in May 2019. The research team began to compile and analyze the results.*
- 3. The research team began compiling a list of currently available candidate performance tests for Task 2.*
- 4. The research team began searching for existing field performance data for Task 3.*

J. PROBLEMS ENCOUNTERED (If any): *n/a*

K. TECHNOLOGY TRANSFER ACTIVITIES: *n/a*

L. STATUS BY TASK:

Task Number	Description	Percent Complete
1	Identify typical pavement distresses in each of the New England states.	50%
2	Identify candidate performance tests for each identified common distress.	50%
3	Collect existing performance test data, available from recent state/regional projects, and related historical field performance data on the representative pavements.	0%
4	Analyze test and field performance data in order to develop preliminary recommendations for a BMD approach.	0%
5	Identify gaps in the test and performance data and develop an experimental plan for future research with the goal to further refine the development, validation, and implementation of a BMD approach for New England states.	0%

M. PERCENT COMPLETION OF TOTAL PROJECT: 25 %

N. ACTIVITIES PLANNED FOR NEXT QUARTER:

1. *Complete the survey data analysis (Task 1).*
2. *Continue work on Task 2 and 3.*

O. FINANCIAL STATUS:

As of: June 30th, 2019

Total Project Budget: \$ 127,499.00

Total Expenditures : \$ 2,543.80

Note: This report should not require more than 2-3 pages & should be e-mailed to the NETC Coordinator so as to arrive no later than three (3) working days after the end of each calendar quarter.