

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

A. PROJECT NUMBER AND TITLE: NETC 15-3

B. PRINCIPAL INVESTIGATOR(s) & UNIVERSITY(s): Eshan V. Dave, University of New Hampshire

C. WEB SITE ADDRESS (If one exists):

D. START DATE (Per NETC Agreement): 8/1/2016

E. END DATE (Per NETC Agreement): 7/31/2018

F. ANTICIPATED COMPLETION DATE: 7/31/2018

G. PROJECT OBJECTIVES:

1. Evaluate good and poor performing asphalt mixtures in New England and determine mechanisms responsible for poor performing mixtures
2. Determine impacts of remedial measures (anti-stripping additives and hydrated lime) in reducing moisture susceptibility of poor performing mixtures
3. Assess impacts of moisture induced-damage on pavement performance and service life
4. Recommend an evaluation framework consisting of appropriate test procedure(s), specification, analysis procedure verified with field performance data that is reliable and suitable for moisture susceptibility testing of asphalt mixtures used in New England

H. REPORT PERIOD: 10/1/2016 – 12/31/2016

I. ACCOMPLISHMENTS THIS PERIOD:

The contract for this project between NETC and University of New Hampshire was set up during the reported quarter. The “notice to proceed” was sent to researchers on December 22nd 2016. Since only one working day was available in the reported quarter between the receipt of the notice to proceed and end of the quarter, insignificant progress has been accomplished. Researchers have started to collect published literature on the topic of moisture-induced damage in asphalt mixtures and have started to also collect standard specifications from various agencies to conduct a state of the practice review.

J. PROBLEMS ENCOUNTERED (If any):

K. TECHNOLOGY TRANSFER ACTIVITIES:

No activity to report.

L. STATUS BY TASK:

Task 1: State of the Practice and Literature Review: Researchers have initiated literature review process as well as started to collect current agency specifications to review the current state of practice. A survey is under development to collect additional information from various agencies regarding their practices as well as experiences in context of moisture-induced damage in asphalt mixtures.

Task 2: Identify and Inspect Moisture Susceptible Mixes and Develop Testing Plan: No activity to report.

Task 3: Laboratory Testing: No activity to report.

Task 4: Final Report and Recommendations: This quarterly report serves as the deliverable for the reported calendar quarter. No other activity is reported.

M. PERCENT COMPLETION OF TOTAL PROJECT: 0 %

N. ACTIVITIES PLANNED FOR NEXT QUARTER:

- Project kick-off meeting. Polls to the project technical committee will be sent in next few days to determine their availability for scheduling project kick-off meeting.
- Completion of literature and agency specification review
- Distribution of agency surveys to collect information on the state of the practice as well as for identifying various mixtures and their attributes that have shown good or poor moisture induced damage potentials.
- On basis of the literature review and the state of the practice review, initial testing and sampling plan for this project will be developed.

O. FINANCIAL STATUS:

As of: 1/1/2017

Total Project Budget: \$ 150,000

Total Expenditures: \$ 0

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.