TRANSPORTATION POOLED FUND PROGRAM
QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Maine DOT

INSTRUCTIONS:
Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)*	**Transportation Pooled Fund Program - Report Period:**
TPF-5(373)	☐ Quarter 1 (January 1 – March 31) ☑ Quarter 2 (April 1 – June 30) ☐ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31)

Project Title: New England Transportation Consortium VII		
Name of Project Manager(s): Dale Peabody	**Phone Number:** 207-624-3305	**E-Mail** dale.peabody@maine.gov
Lead Agency Project ID: 23430.18	**Other Project ID (i.e., contract #):**	**Project Start Date:** January 4, 2018
Original Project End Date: June 30, 2022	**Current Project End Date:** June 30, 2022	**Number of Extensions:** 0

Project schedule status:

☑ On schedule ☐ On revised schedule ☐ Ahead of schedule ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
$1,900,000	$514,682.00	27%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$514,682 (15% of total funds spent)	$79,682	69%

Project Description:

A transportation research program, where research projects are conducted primarily by the Land Grant Universities of the New England states. This study was preceded by TPF-5(222), TPF-5(201), TPF-5(168), SPR-3(089), SPR-3(029), and SPR-3(009). Other State DOTs may participate in individual research projects by providing funds and a project technical committee member to represent their agency.

The New England Transportation Consortium (NETC) is a research cooperative between the state DOTs of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont. The NETC is a valuable regional partnership for the identification, prosecution and dissemination of shared transportation research initiatives. The NETC represents:

- Financial leveraging opportunities and regional partnerships.
- Stronger partnerships between university faculty and state DOTs.
- User-defined, diverse research topics.
- Opportunities for research dissemination and training to practitioners in the field.

Now in its third decade, the NETC was developed to help New England states meet their special research needs by pooling resources and expertise. The NETC is now a well-established successful multistate partnership.

The objective of the pooled fund is to pool the financial, professional and academic resources of the region and to use them to research and develop improved methods of dealing with common problems in the planning, design, construction, maintenance, rehabilitation, reconstruction, and operation of transportation systems in the participating states. The program is intended to supplement, not to replace, ongoing state and federal research activities and other national programs such as the Cooperative Research Programs of the National Academies.

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

Monthly Advisory Committee meetings held on 1/28/20, 2/25/20 and 3/31/20.

18-1: Development of MASH Computer Simulated Steel Bridge Rail and Transition Details - Roadsafe LLC

- Project complete

18-2: Framework of Asphalt Balanced Mix Design for New England Agencies – University of Massachusetts-Dartmouth

- Project time line: 2/5/19 - 12/31/20. Project budget: $127,499.00
- Task 3 (Collect existing performance test data, available from recent state/regional projects, and related historical field performance data on the representative pavements.) - In progress. TC meeting held on 6/5/20 to review Tasks 3 and 4. PI is waiting for data from states.
- Task 4 (Analyze test and field performance data in order to develop preliminary recommendations for a BMD approach.) - In progress.
- Task 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.) - In progress. Without further data, the PI will have challenges developing specific BMD recommendations for each state and the recommendations/future workplans may be more generic in nature.

18-3: Integration of Unmanned Aircraft Systems into DOTs - WSP USA Inc.

- Project time line: 4/16/19 - 3/31/21. Project budget: $146,631.57
- Task 3 (Address challenges associated with the UAS technologies, FAA rules and regulations - In progress
- Task 4 (Develop procedures to carry out these UAS applications) - In progress
- TC meeting held on 5/27/20.

Anticipated work next quarter:

Monthly Advisory Committee meetings to be held on 7/28/20, 8/25/20 and 9/22/20.

18-2: Framework of Asphalt Balanced Mix Design for New England Agencies
• Continue work on Tasks 3-5.

18-3: Integration of Unmanned Aircraft Systems into DOTs
• Task 3 report will be sent to the TC and a review meeting will be scheduled in August.

19-1: Curved Integral Abutment Bridge Design
• TC meeting will be scheduled for late August/early September.

19-2: Erosion Modeling
• TC meeting will be held and work on Task 3 will begin.

19-3: Deteriorated Steel Beam Ends
• ME will finalize the contract with the selected PI. A kickoff meeting will be held.

Project Webinars
• One project webinar is scheduled for July.
---- NETC 18-1 - 7/16/20

Website Refresh
• CTC will begin website refresh effort in July.

20-series projects -
• The SOWs for all 20-series projects will be finalized and sent to ME for processing into RFPs. The RFPs will be posted

Significant Results:

See Progress this Quarter.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

None.

Potential Implementation:

Results from 18-1 will be used by MaineDOT to update standard details, and coupled with in service performance will form the basis of recommendations to accept the NETC bridge rail as MASH, in lieu of full scale crash testing.