

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

A. PROJECT NUMBER AND TITLE:

NETC 21-1 Quality Review and Assessment of Pavement Condition Survey Vehicle Data Across New England

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

Gonzalo R. Rada, Ph.D., P.E., WSP USA Environment & Infrastructure Inc.

C. WEB SITE ADDRESS (If one exists):

www.wsp.com

D. START DATE (Per NETC Agreement):

February 15, 2022

E. END DATE (Per NETC Agreement):

July 31, 2023

F. ANTICIPATED COMPLETION DATE:

July 31, 2023

G. PROJECT OBJECTIVES:

- To review the New England States' Data Quality Management Plans for pavement condition data.
- To summarize control sites used by the New England States with potential for inter-agency sharing.
- To develop recommendations for regional efficiencies in collection and analysis of QC/QA data for each of the participating transportation agencies.
- To develop or adapt forms and macros as "Best Practices" recommendations to assist states with data reporting requirements for compliance with FHWA approved DQMPs.

H. REPORT PERIOD:

July 1 to September 30, 2022

I. ACCOMPLISHMENTS THIS PERIOD:

- Prepared for and participated in technical committee meeting on August 12, 2022 to review and discuss the Tasks 1 and 2 outcomes, including report. Both tasks are considered to have been completed.
- Made significant progress in the Task 3 effort, including development of draft tools for the identification of control site requirements and associated control site characteristics. In addition, a significant portion of the Task 3 report has been completed.
- Continued working on the draft final report. To date, the report introduction and the Tasks 1 and 2 chapters and associated appendices have been completed and revised based on NETC input – they

are considered final. Significant work also has been spent on the draft of the Task 3 chapter associated appendices.

- Began preparations for October 14, 2022 technical committee meeting to review and discuss the project team's progress and findings to date related to the anticipated Task 3 tools.
- Prepared and submitted quarterly progress report covering the period of April 1 to June 30, 2022.
- Prepared and submitted monthly invoices for July, August, and September 2022.

J. PROBLEMS ENCOUNTERED (If any):

No problems to report to date.

K. TECHNOLOGY TRANSFER ACTIVITIES:

The control site requirements and characteristics tools being developed under Task 3 will be key components to the project's technology transfer activities. As these tools and other DQMP guidelines are refined under Task 3, greater attention will be spent on technology transfer activities. It is anticipated that technology transfer will take on a greater focus in the remaining project tasks.

L. STATUS BY TASK:

- Task 1 Review and analyze data QMPs – 100% complete.
- Task 2 Identify test site characteristics needed to establish precision and bias values for pavement metrics – 100% complete.
- Task 3 Develop guidelines for validating that equipment is producing sound data – 60% complete (draft best practices guidelines and tools have been developed and they are presently being refined).
- Task 4 Draft final report and technology transfer strategy and toolbox – 20% complete (draft report), activities under this task will continue in the upcoming reporting period.
- Task 5 Final report – 0% complete: work on this task is not anticipated to start until 2023

M. PERCENT COMPLETION OF TOTAL PROJECT: 50 %

N. ACTIVITIES PLANNED FOR NEXT QUARTER:

- Prepare for and participate in monthly technical committee meetings to report on the project team's progress and to discuss project-related matters. The first meeting for the coming quarter will take place on October 14, 2022.
- Continue working on Task 3 activities, including development of best practices DQMP guidelines and control site requirements and characterization tools for validating and verifying pavement performance metric data collection equipment.
- Continue to update Task 4 draft project report to include the Task 3 findings, guidelines and tools.
- Prepare and submit quarterly progress report covering the July 1 to September 30, 2022 timeframe.
- Prepare and submit monthly invoices for October, November, and December 2022.

O. FINANCIAL STATUS:

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|-----------------------|--------------------|
| As of: | September 30, 2022 |
| Total Project Budget: | \$ <u>174,932</u> |
| Total Expenditures: | \$ <u>78,449</u> |