

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Standardized Test Procedures for Ice Melting Capacity of Deicers*

OBJECTIVES: The goal of this research is to evaluate the suitability of the mechanical rocker test as “a standardized laboratory test that can realistically and robustly assess the performance of deicers is needed to allow DOTs to make data-driven procurement decisions.”

PERIOD COVERED:

April 1, 2021 – June 30, 2021

PARTICIPATING AGENCIES:

Washington State University – Prime
Monte Vista Associates LLC – Subcontractor
Roadtech, Inc. - Subcontractor

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Project No.
1033080

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY: MnDOT

Federal Project No.
TPF-5(353)

PRINCIPAL INVESTIGATOR:

Xianming Shi, Ph.D., P.E., WSU

ANNUAL BUDGET:

\$74,086

PROJECT EXPENDITURES TO DATE:

\$36,040

WORK COMPLETED:

Project Management

The PI has maintained regular communication with peer labs and with team members.

Task 1. Mechanical Rocker Test Procedure Evaluation (100% complete).

Task 2. Interim Report (100% complete). During the last quarter, we received some feedback on the data analysis section and thus significantly revised that section and submitted the revised Interim Report on May 20, 2021.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Once the interim report is approved by the project panel, the work in the coming quarter will consist of project management as well as the beginning of Task 3 (Standard Test Procedure Development).

STATUS AND COMPLETION DATE:

We are now about three months behind schedule, based on the most up-to-date schedule as follows:

Task	Current Task Start Date	Current End Date for Task Approval	Revised Task Start Date	Revised Due Date to Submit Draft Deliverables	Revised End Date for Task Approval
1	02/01/2020	08/31/2020	02/01/2020	03/31/2021	05/31/2021
2	07/01/2020	10/31/2020	11/01/2020	04/30/2021	06/30/2021
3	10/01/2020	12/31/2020	02/01/2021	05/31/2021	07/30/2021
4	10/01/2020	03/31/2021	02/01/2021	09/30/2021	11/30/2021
5	12/01/2020	04/30/2021	05/01/2021	10/31/2021	12/31/2021
6	04/01/2021	07/31/2021	08/01/2021	01/31/2022	03/31/2022
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