

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Efficacy, Cost, and Impacts of Non-Chloride Deicers: An Educational Primer and Product Information Sheets*

OBJECTIVES: To collect and synthesize available information about non-chloride deicing products from available research and present the information as a comparison to chloride-based deicers in educational primers and product information sheets. Using the Mechanical Rocker Test, investigators will provide an examination and documentation of the performance of selected non-chloride deicers from the Clear Roads Qualified Products List (QPL) that have not yet been effectively tested.

PERIOD COVERED: July 1 – September 30, 2022

PARTICIPATING AGENCIES: Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
1048127

PROJECT IS:

____ Planning
 X Research & Development

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:

Laura Fay, WTI, Montana State University

Federal Project Number:
TPF-5(353)

ANNUAL BUDGET: \$114,946

PROJECT EXPENDITURES TO DATE: \$22,151

WORK COMPLETED:

- The kickoff meeting was held April 29, 2022. The kickoff meeting presentation and notes were submitted May 11, 2022.
- The Task 1 Literature Review was submitted August 25, 2022. A meeting was held September 12, 2022, to discuss the deliverable and next steps. The meeting slides, notes, and draft Task 2 surveys were submitted September 13, 2022. The revised Task 1 Literature Review was submitted for approval September 29, 2022.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- The Task 2 Surveys will be submitted to MSU IRB for review and approval.
- The Task 2 Survey Summary will be developed and submitted for review and comment.
- A meeting will be scheduled and held to review the Task 2 deliverable.
- The Task 3 Cast Studies effort will begin.

STATUS AND COMPLETION DATE: No issues to report at this time.