

**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

Research & Development

**LEAD AGENCY:** MnDOT

Federal Project Number:

TPF-5(353)

**PRINCIPAL INVESTIGATOR:**

Laura Fay, WTI, Montana State University

**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.