

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Effects of Additives in Deicing Salts at Lower Temperatures*

OBJECTIVES: The goal of this project is to evaluate the impact additives to solid rock salt have on the eutectic temperature of the product through laboratory testing. From this testing, determine if the additives lower the eutectic temperature of the product, and if so by how much. The end goal is to determine if the additives improve performance.

PERIOD COVERED: April 1 – June 30, 2023

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.
1051718

PROJECT IS:

☐ Planning
☒ Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(479)

PRINCIPAL INVESTIGATOR:
Laura Fay, WTI, MSU

ANNUAL BUDGET: \$149,993

PROJECT EXPENDITURES TO DATE: \$26,845

WORK COMPLETED:

- Task 1 Kick off meeting was held March 22, 2023. Meeting slides and notes were submitted April 5, 2023.
- Task 2 Literature Review work continued.
- Task 3 draft Survey questionnaire started.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 2 literature review will be submitted.
- A meeting will be scheduled to review Task 2 deliverable and draft Task 3 Survey questionnaire.
- Task 3 Survey will be submitted to MSU IRB for approval and the survey will be disseminated.

STATUS AND COMPLETION DATE: Contract end date is 8/31/2024.