

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: Effective Pre-Treatment Method for Events Beginning as Rain

OBJECTIVES: The goal of this project is to evaluate pre-treatment options to determine their ability to effectively withstand rainfall through experimentation with the most common deicing materials in use. This research will document the effectiveness of these materials, mixed-in varying proportions and application rates, to determine their effectiveness.

PERIOD COVERED: October 1 – December 31, 2025

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

PROJECT MANAGER:
Hafiz Munir / Adam Wellner

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:
Andy Erickson, St. Anthony Falls
Laboratory, University of Minnesota

SP&R PROJECT NO:
MnDOT Contract No.
1057601

Federal Project Number:
TPF-5(479)

PROJECT IS:

____ Planning
 X Research & Development

ANNUAL BUDGET: ~\$75,000
PROJECT BUDGET: \$149,999

PROJECT EXPENDITURES TO DATE: \$7,467.38

WORK COMPLETED:

- Task 1: We had a kickoff meeting on September 9, 2025, where we presented the project workplan.
- Task 2: We've begun the literature search for relevant literature and will continue to collect studies and resources for the literature review.
- Task 3: We met with the TAP on December 15th to discuss the draft survey questions. We received great feedback and are revising the survey accordingly. We intend to send it back to the TAP in January and distribute it to the target audience shortly thereafter.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 1: Continued communications.
- Task 2: Develop the first draft of the literature review.
- Task 3: Develop the first draft of the survey.

STATUS AND COMPLETION DATE: On track and within budget. Completion date is 7/31/2027.