

**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: April 1 – June 30, 2026

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
☒ Research & Development

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

PROJECT EXPENDITURES TO DATE: \$26,505.12

WORK COMPLETED:

- Task 1: Communications: We held a project team meeting on 06/05/2026 to discuss the draft Literature Review and draft Survey Results. We received excellent feedback. We also had regular communication with the project administrator (Greg Waidley).
- Task 2: Review of Literature and Available Data: The final approved version of the literature review was submitted on June 5, 2026.
- Task 3: Survey of State DOTs: The final approved version of the survey results memo was submitted on June 5, 2026.
- Task 4: Testing Protocol Development and Experiments: The project team is developing a testing procedure and will share the draft testing plan with the project team before collecting any data.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 1: Continued communications.
- Task 2: None; task complete.
- Task 3: None; task complete.
- Task 4: Based on the final versions of the literature review and the survey, the testing protocol and experiments are in development, will be shared with the project team, and data collection will likely begin.

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