

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Best Management Practices for Liquid Chloride Storage and Pumping Systems*

OBJECTIVES: The goal of this project is to examine and document liquid deicing storage and pump systems currently being used by departments of transportation (DOTs) and public works agencies across the country and best practices for managing and maintaining these systems.

PERIOD COVERED: April 1 to June 30, 2024

PARTICIPATING AGENCIES: Minnesota Department of Transportation, Clear Roads Technical Advisory Committee, and the Western Transportation Institute at Montana State University.

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
1051126

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(479)

PRINCIPAL INVESTIGATOR:

Karalyn Clouser, WTI, MSU
Laura Fay (Co-PI), WTI, MSU

ANNUAL BUDGET: \$75,000

PROJECT EXPENDITURES TO DATE: \$37,951.19

WORK COMPLETED:

- Presented the Task 3 Agency and Vendor Interview Task Report (Draft) to the Clear Roads TAC on April 12, 2024.
- Task 3 Agency and Vendor Interview Task Report was updated based on Clear Roads TAC feedback and finalized on May 3, 2024.
- The Task 4 Liquid Deicer Storage and Pump System Equipment and Best Practices Manual is currently in development.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 4 draft manual is currently in development and should be ready to present to the Clear Roads TAC mid to late-summer 2024.
- Task 5 Final Report will be developed which will summarize the methodology and information gained from the previous tasks of this project.

STATUS AND COMPLETION DATE:

In Progress. Anticipated Project Completion Date: December 31, 2024.