

**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:** July 1 to September 30, 2023

**PARTICIPATING AGENCIES:** Minnesota Department of Transportation, Clear Roads Pooled Fund, and the Western Transportation Institute at Montana State University.

**PROJECT MANAGER:**

Hafiz Munir / Tom Peters

**SP&R PROJECT NO:**

MnDOT Contract No.

**PROJECT IS:**

\_\_\_\_\_ Planning

  X   Research & Development

**LEAD AGENCY:** MnDOT

Federal Project Number:

TPF-5(479)

**PRINCIPAL INVESTIGATOR:**

Karalyn Clouser, WTI, MSU

Laura Fay (Co-PI)

**ANNUAL BUDGET:** \$75,000

**PROJECT EXPENDITURES TO DATE:** \$5,183

**WORK COMPLETED:**

- The project kickoff meeting was held July 20, 2023.
- Meeting notes and an updated draft agency survey was sent to the Clear Roads TAC on August 3, 2023.
- Agency survey was updated based on Clear Roads TAC feedback and submitted to Montana State University's Institutional Review Board (IRB) for approval on September 1, 2023.
- Agency survey was sent to the Clear Roads Member list on September 15, 2023.
- Agency survey was sent to Dan Schacher to be distributed to the APWA Winter Maintenance Group on September 18, 2023.
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- Agency survey was sent to Anna Arvidsson to be distributed to the TRB Winter Maintenance Committee and Friends on September 18, 2023.
- Agency survey was distributed to the TRB Winter Maintenance Committee and Friends on September 25, 2023.
- Agency survey was sent to the Snow & Ice Listserv for distribution on September 18, 2023.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

- Agency survey distributed to the Snow & Ice Listserv on October 3, 2023.
- Agency survey reminder email to Clear Roads Member list on October 3, 2023.
- Agency survey will close October 20, 2023.
- Agency survey results write up will be completed and sent to the Clear Roads TAC for review and check-in meeting.
- Interview question list will be developed and sent to the Clear Roads TAC for review and approval.

**STATUS AND COMPLETION DATE:**

This project is on time and on budget. The completion date is 12/31/2024.