

**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:** January 1 to March 31, 2023

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

**PROJECT MANAGER:**

Hafiz Munir / Tom Peters

**LEAD AGENCY:** MnDOT

**PRINCIPAL INVESTIGATOR:**

Karalyn Clouser and Laura Fay (Co-PI)  
WTI, Montana State University

**SP&R PROJECT NO:**

MnDOT Contract No.  
1051126

Federal Project Number:  
TPF-5(479)

**PROJECT IS:**

☐ Planning  
☒ Research & Development

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

**PROJECT EXPENDITURES TO DATE:** \$24,736.54

**WORK COMPLETED:**

- Task 3 Interview Questions lists were updated based on Clear Roads TAC feedback received.
- Task 3 Agency Interviews completed with the following ten organizations over the months of January/February 2024:
  - Alaska Department of Transportation & Public Facilities
  - City of Farmington Hills, Michigan
  - Iowa Department of Transportation
  - Idaho Transportation Department (Boise)
  - Kansas Department of Transportation
  - Maine Department of Transportation
  - Massachusetts Department of Transportation
  - Nebraska Department of Transportation
  - Oregon Department of Transportation
  - South Dakota Department of Transportation
- Task 3 Vendor Questionnaire sent out via the AASHTO Snow & Ice Listserv on February 13, 2024 and a reminder email on February 27, 2024
  - Outreach with the following vendors was completed in February/March 2024:
    - Assmann & Poly Processing
    - Dultmeier
    - GVM
    - K-Tech Specialty Coatings
    - Sno-Biz
    - VariTech
- Task 3 Agency and Vendor Interview Task Report (Draft) sent to Clear Roads TAC on March 20, 2024

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

- Task 4 draft manual will be developed based on findings from the survey and interviews

**STATUS AND COMPLETION DATE:**

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