State Planning and Research Program Quarterly Report

PROJECT TITLE: Efficacy, Cost, and Impacts of Non-Chloride Deicers: An Educational Primer and Product Information Sheets

OBJECTIVES: The goal of this project is to synthesize available information on non-chloride deicers to allow for a more comprehensive understanding by winter maintenance professionals and allow for easy comparison between products and with sodium chloride (salt brine, rock salt). This will be accomplished through a literature search, survey, and evaluation of currently used standards and tests. Laboratory testing may be used to provide supplemental information. The outcomes will include a comprehensive literature review document, one to two-page product summaries and product information sheets for key non-chloride deicers.

PERIOD COVERED: October 1, 2022 – December 31, 2022

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

Advisory Committee		
PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Hafiz Munir / Tom Peters	MnDOT Contract No.	
	1048127	Planning
LEAD AGENCY: MnDOT		X Research & Development
	Federal Project Number:	
PRINCIPAL INVESTIGATOR:	TPF-5(353)	
Laura Fay, WTI, Montana State University		
ANNUAL BUDGET: \$114.946	PROJECT EXPENDITURES TO DATE: \$40,000	

WORK COMPLETED:

- The kickoff meeting was held April 29, 2022. The kickoff meeting presentation and notes were submitted May 11, 2022.
- The Task 1 Literature Review was submitted August 25, 2022. A meeting was held September 12, 2022 to discuss the deliverable and next steps. The meeting slides, notes, and draft Task 2 surveys were submitted September 13, 2022. The revised Task 1 Literature Review was submitted for approval September 29, 2022.
- Task 2 Surveys were submitted to MSU IRB and approved October 11, 2022. Task 2 Surveys were disseminated October 25, 2022. The online survey tool was closed November 28, 2022. The Task 2 Survey Results were submitted for review December 12, 2022. A meeting was scheduled for the next quarter to discuss the deliverable.
- Task 3 QPL Evaluation & Lab Testing Recommendations work has begun on this task.
- Task 4 Educational Primers work has begun on this task.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Hold the Task 2 Surveys meeting to discuss the deliverable, receive feedback, revise and submit for approval.
- Develop the Task 3 QPL Evaluation & Lab Testing Recommendations document and submit for review.
- Schedule a meeting to review the Task 3 deliverable.
- Continue work on the Task 4 Educational Primers.

STATUS AND COMPLETION DATE: No issues to report at this time.