

State Planning and Research Program Quarterly Report

PROJECT TITLE: *Using GIS to Highlight Highway Segments Sensitive to Deicing Materials*

OBJECTIVES: Develop a geospatial tool that incorporates data about roadways, topography, hydrology, and ecology to model the impact of de-icing chemical application on the local environment.

PERIOD COVERED: April 1 to June 30, 2023

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

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.

1044529

PROJECT IS:

 Planning

 X Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:

TPF-5(353)

PRINCIPAL INVESTIGATOR:

Mark Gallagher, SRF Consulting

ANNUAL BUDGET: \$49,279

PROJECT EXPENDITURES TO DATE: \$ 132,257.76

REVISED: \$71,116

WORK COMPLETED:

- Demonstrated revised tool.
- Distributed revised tool.
- Updated set up and usage guides.
- Developed script for set up guide video.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Continued work on expanded scope items.
 - Complete video guides.
 - Finalize tool.
 - Develop final report.

STATUS AND COMPLETION DATE:

Project start was delayed due to committee availability for kickoff.

Some delays in tool development and initial installations by beta testers made an extension of the completion date for delivery of a revised tool necessary. Based on committee requests, a more comprehensive amendment was submitted to upgrade some features of the tool and include a user and startup guide.

The current contract expiration date is 9/30/2023.