

**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, 2022

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
 Research & Development

LEAD AGENCY: MnDOT

PRINCIPAL INVESTIGATOR:
Mark Gallagher, SRF Consulting

Federal Project Number:
TPF-5(353)

ANNUAL BUDGET: \$49,279

PROJECT EXPENDITURES TO DATE: \$ 96,538.02

WORK COMPLETED:

- Completed and reviewed initial tool prototype with committee
- Developed 'beta' version of tool
- Delivered beta version for testing by four committee representatives
- Received initial feedback
- Began planning tool revisions for final version

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Update and deliver final version of tool
- Draft final report
- Discuss tool hosting/maintenance future for tool with committee

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 have made an extension of completion date for delivery of a revised tool attractive. Discussions are underway to extend the completion date to December 31, 2022 and increase the budget by roughly 10%.

Contract expiration date is 7/31/2022.