

**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:** July 1, 2021 to September 30, 2021

**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

Federal Project Number:  
TPF-5(353)

**PRINCIPAL INVESTIGATOR:**  
Mark Gallagher, SRF Consulting

**ANNUAL BUDGET:** \$ 49,279

**PROJECT EXPENDITURES TO DATE:** \$ 15,480.10

**WORK COMPLETED:**

- Submitted Draft Literature Search
- Received comments, reviewed and submitted Draft Final Literature Search
- Submitted Survey questionnaire draft
- Received comments reviewed and submitted revised questionnaire draft
- Construction on-line survey instrument
- Distributed survey to respondents

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

- Receive survey responses & compile results
- Draft and submit Draft Survey technical memorandum
- Begin developing prioritization matrix

**STATUS AND COMPLETION DATE:**

Project start was delayed due to committee availability for kickoff. Final completion is not expected to be affected.

Contract expiration date is 7/31/2022.