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: January 1, 2022, to March 31, 2022

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

PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Hafiz Munir / Tom Peters	MnDOT Contract No.	
	1044529	Planning
LEAD AGENCY: MnDOT	Federal Project Number: TPF-5(353)	X Research & Development
PRINCIPAL INVESTIGATOR:		
Mark Gallagher, SRF Consulting		
ANNUAL BUDGET: \$ 49 279	PROJECT EXPENDITURES TO DATE: \$ 72 083 52	

WORK COMPLETED:

- Met with committee to review prioritization matrix
- Finalized prioritization matrix and "Compile and Analyze Results" memorandum
- Collected data for model
- Designed model logic
- Created initial versions of geospatial tool
- Began testing tool for functionality and scalability.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Meet with committed to review initial tool version
- Received feedback on tool
- Develop "beta" version of tool
- Devise testing method for select committee members to test tool
- Engage with committee to determine post-project tool hosting and maintenance responsibilities

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.