

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Aftermarket Cameras in Winter Maintenance Vehicles*

OBJECTIVES: Research the existing uses of cameras on winter maintenance vehicles and provide recommendations for best practices regarding their selection, installation, use and maintenance.

PERIOD COVERED: April 1 to June 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.
1028783

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(535)

PRINCIPAL INVESTIGATOR:
Mark Gallagher, SRF Consulting Group

ANNUAL BUDGET: \$44,434
Total Budget: \$92,977.42

PROJECT EXPENDITURES TO DATE: \$87,203.70

WORK COMPLETED:

- Finalized technical memo for Task 8
- Completed Final Report (Task 7)
- Completed Final Presentation (Task 7)

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- None. Project is complete as of 6/30/2021

STATUS AND COMPLETION DATE:

Amendment had been requested to adjust project completion date to June 30, 2021.
Original project completion date was October 31, 2019.

NOTES:

- Task 6 (Recommendations) has exceeded budget due to the unforeseen need to obtain additional information. Overall budget is not expected to be affected.
- MnDOT District 4 had been identified as a partner for Task 8 (Pilot Deployment). Completion of Task 8 required winter conditions. Due to the initial difficulties in identifying a project partner and scope, completion of the pilot deployment was delayed until Winter 2020-21. After further discussion with MnDOT District 4 and the Clear Roads TAC, the scope of Task 8 was modified to an interview of district staff and a technical memo reporting on that interview.