State Planning and Research Program Quarterly Report

PROJECT TITLE: Expanded Use of AVL/GPS Technology

OBJECTIVES: To help state transportation agencies optimize the value gained from the acquisition of AVL/GPS units by deploying them year-round, rather than just in winter maintenance operations.

PERIOD COVERED: July 1, 2021 to September 30, 2021

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

Advisory Committee		
PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:
Hafiz Munir / Tom Peters	MnDOT Contract No.	
	1044528	Planning
LEAD AGENCY: MnDOT		X Research & Development
	Federal Project Number:	
PRINCIPAL INVESTIGATOR:	TPF-5(353)	
Ming-Shiun Lee, PhD, PE		
AECOM Technical Services, Inc.		
ANNUAL BUDGET : \$73,123.72	PROJECT EXPENDITURES TO DATE: \$ 19,729.69	

WORK COMPLETED:

- Task 1: Literature Review
 - o Finalized literature review summary.
- Task 2: Survey of Practice
 - o Developed questionnaires for the three surveys.
 - o Identified contacts for survey distribution.
 - o Reviewed the draft surveys with the Subcommittee.
 - o Executed surveys and conducted follow-ups with survey respondents.
 - o Analyzed survey responses.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

- Task 2: Survey of Practice
 - o Develop a survey summary report.
 - o Conduct additional surveys to non-transportation agencies/industry.
 - o Identify case study recommendations.
 - o Conduct a progress meeting with the Subcommittee.
 - o Finalize survey summary report and case study recommendations.
- Task 3: Develop Case Studies
 - o Develop case study interview questions.
 - o Make arrangements for case study interviews.

STATUS AND COMPLETION DATE:

On schedule and budget. Expected project completion August 31, 2022.