

**State Planning and Research Program  
Quarterly Report**

**PROJECT TITLE:**

*Quantifying the Impact New Capital Projects will have on Roadway Snow and Ice Control Operations*

**OBJECTIVES:**

1. *Survey other state DOTs for potential case studies*
2. *Develop a Methodology*
3. *Develop a Calculation Tool*
4. *Apply the Tool to the Case Studies*

**PERIOD COVERED:** October 1, 2017 – December 31, 2017

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

**PROJECT MANAGER:**

Debra Fick/ Tom Peters

**SP&R PROJECT NO:**

MnDOT Contract No.  
06428

**PROJECT IS:**

Planning  
 Research & Development

**LEAD AGENCY:** Mn/DOT

**PRINCIPAL INVESTIGATOR:**

Jim Sullivan, University of Vermont

Federal Project Number:  
TPF-5(218)

**TOTAL BUDGET:** \$145,622

**PROJECT EXPENDITURES TO DATE:** 100%

**WORK COMPLETED:**

- Completed survey data collection and preliminary selection of case studies
- Completed the first round of field data collection for four case study routes in NH and Minnesota
- Completed the integrated RSIC model development and tested its application for Vermont
- Applied the integrated RSIC model to four case studies in Vermont
- Created and delivered presentation materials for the Task 2 deliverable
- Participated in the third of four teleconferences (kickoff, Task 1, and Task 2)
- Conducted the second round of field data for four case study routes in NH and Minnesota
- Completed development of the MS Excel decision-support tool
- Completed and submitted the Draft Project Report for review
- Conducted webinar presentation
- Incorporated comments and submitted Final Project Report

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:** None.

**STATUS AND COMPLETION DATE:** Project is complete.