

## State Planning and Research Program Quarterly Report

**PROJECT TITLE:** *Update to CR 13-04: Best Practices for Protecting DOT Equipment from the Corrosion effect of Chemical Deicers*

**OBJECTIVES:** Overall, this project aims to produce new data and renewed understanding to update the anticorrosion coating section of *CR 13-04 - Manual of Best Practices for the Prevention of Corrosion on Vehicles and Equipment* and thus provide guidance to encourage good practices and procedures that may be implemented.

**PERIOD COVERED:** April 1 – June 30, 2023

**PARTICIPATING AGENCIES:**

Minnesota Department of Transportation and the Clear Roads Technical Advisory Committee - Sponsors  
Washington State University – Prime  
Monte Vista Associates LLC – Subcontractor  
Roadtech, Inc. - Subcontractor

**PROJECT MANAGER:**

Hafiz Munir / Tom Peters

**SP&R PROJECT NO:**

MnDOT No. 1047787

**PROJECT IS:**

\_\_\_\_ Planning  
  X   Research & Development

**LEAD AGENCY:** MnDOT

Federal Project No.  
TPF-5(353)

**PRINCIPAL INVESTIGATOR:**

Xianming Shi, Ph.D., P.E., Washington  
State University

**ANNUAL BUDGET:**

\$99,985

**PROJECT EXPENDITURES TO DATE:**

\$19,456

**WORK COMPLETED:**

*Project Management:* The PI submitted a Quarterly Progress Report in April 2023. We submitted a no-cost time extension of 6 months to extend the contract end date to July 31, 2024.

Task 1. Survey and Market Analysis (100% complete). In the last quarter, we submitted the draft task deliverable summarizing the findings of both the survey and the market analysis in April 2023, which was approved in May 2023. On May 1, 2023, the PI presented the findings of Task 1 to the project TAC via online meeting.

Task 2. Developing the Experimental Plan (100% complete). We submitted the draft task deliverable in April 2023, which was approved in May 2023. On May 1, 2023, the PI presented the findings of Task 2 to the project TAC via online meeting.

Task 3. Execution of the Experimental Plan (15% complete). We have started the ordering of supplies for the laboratory investigation.

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

Work in the coming quarter will consist of project management as well as the progress of Task 3 (Execution of the Experimental Plan).

**STATUS AND COMPLETION DATE:**

The updated timeline is as follows.

Task	Current Task Start Date	Current End Date for Task Approval	Revised Task Start Date	Revised Due Date to Submit Draft Deliverables	Revised End Date for Task Approval
1	05/01/2022	07/31/2022	05/15/2022	04/15/2023	05/31/2023
2	07/01/2022	10/31/2022	01/01/2023	04/15/2023	05/31/2023
3	11/01/2022	07/31/2023	06/01/2023	01/31/2024	03/31/2024
4	06/01/2023	10/31/2023	01/01/2024	03/31/2024	05/31/2024
5	10/01/2023	02/28/2024	03/01/2024	05/31/2024	07/31/2024