

**State Planning and Research Program
Quarterly Report**

PROJECT TITLE: *Comprehensive Guide to Pre-Wetting Application Rates and Methods*

OBJECTIVES: This project aims to develop recommendations for pre-wetting rates and evaluate the difference between applying pre-wet in the chute vs. on the chain flight or in a mix chamber.

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
Wilfrid A. Nixon and Associates, LLC - Subcontractor
Monte Vista Associates LLC – Subcontractor
Roadtech, Inc. - Subcontractor

PROJECT MANAGER:

Hafiz Munir / Tom Peters

SP&R PROJECT NO:

MnDOT Contract No.
1051125

PROJECT IS:

____ Planning
 X Research & Development

LEAD AGENCY: MnDOT

Federal Project Number:
TPF-5(353)

PRINCIPAL INVESTIGATOR:

Xianming Shi, Washington State University

ANNUAL BUDGET: \$28,522 (FY23);
\$165,530 (FY24); \$5,923 (FY25)

PROJECT EXPENDITURES TO DATE: \$4,906

WORK COMPLETED:

The PI worked with the project TAC to hold the kickoff meeting online, on Feb. 24, 2023.

Task 1 (Literature Search): 80% complete. The draft literature review was submitted to the project TAC for review in June 2023.

Task 2 (Survey): 15% complete. The draft survey questionnaire was submitted to the project TAC for review in June 2023.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Project management activities.

Task 1 (Literature Search): to complete.

Task 2 (Survey): to finalize the survey, distribute it to stakeholders, and gather responses.

Task 3 (Initial Synthesis): to complete.

Task 4 (Experimental Design): to initiate.

STATUS AND COMPLETION DATE:

This project is about three months behind schedule, and we will work to catch up with the original schedule in the next two quarters.