

## State Planning and Research Program Quarterly Report

**PROJECT TITLE:** *Review and Summary of Pre-Wet Methods and Procedures*

**OBJECTIVES:** The goal of this research is to “to compile a summary of pre-wetting practices, including equipment, materials, methods, and application rates and identify the history of successes and failures that have contributed to the current practices.”

**PERIOD COVERED:**

January 1 – March 31, 2021

**PARTICIPATING AGENCIES:**

Washington State University – Prime  
Monte Vista Associates LLC – Subcontractor  
Ice and Snow Technologies, Inc. - Subcontractor

**PROJECT MANAGER:**

Debbie Sinclair / Tom Peters

**SP&R PROJECT NO:**

MnDOT Contract No.  
1031544

**PROJECT IS:**

Planning  
 Research & Development

**LEAD AGENCY:** MnDOT

Federal Project No.  
TPF-5(353)

**PRINCIPAL INVESTIGATOR:**

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

**ANNUAL BUDGET:**

\$74,722

**PROJECT EXPENDITURES TO DATE:**

\$51,965

**WORK COMPLETED:**

*Project Management*

The PI has maintained regular communication with peer labs and with team members. A project progress meeting was held online on Feb. 19, 2021.

Task 1. Literature review (100% complete).

Task 2. Survey questions (100% complete). We updated the Task 2 deliverable based on things we learned from Task 3 case studies regarding the user experience of electric vs. hydraulic pumps.

Task 3. Interviews and case studies (90% complete) We completed the interview of all survey respondents identified as case studies and submitted the DRAFT Task 3 deliverable to the project panel in March 2021.

Task 4. Outreach to manufacturers (80% complete) In the last quarter, we reached out ten identified equipment manufacturers for the outreach and eight of them provided valid responses. We then started to prepare the DRAFT Task 4 deliverable.

Task 5. Final synthesis report (0% complete)

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

Work in the coming quarter will consist of project management as well as the completion of Tasks 3 and 4. We also plan to start Task 5 (Final Report) and complete the entire project.

**STATUS AND COMPLETION DATE:**

The revised project timeline (with the approved no-cost time extension) is shown as follows. We are now on schedule.

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	10/01/2019	2/28/2020	10/01/2019	1/31/2020	6/30/2020
2	12/1/2019	4/30/2020	12/1/2019	5/30/2020	11/15/2020
3	3/1/2020	8/31/2020	8/1/2020	1/30/2021	2/28/2021
4	4/1/2020	9/30/2020	8/1/2020	2/28/2021	3/30/2021
5	7/1/2020	12/31/2020	2/1/2021	4/30/2021	6/30/2021