

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): IOWA DOT

INSTRUCTIONS:

Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.

Transportation Pooled Fund Program Project # SPR-TPF5(498)-8H-00		Transportation Pooled Fund Program - Report Period: Quarter 1 (January 1 – March 31) Quarter 2 (April 1 – June 30) Quarter 3 (July 1 – September 30) X Quarter 4 (October 4 – December 31)	
Project Title: VKelly Slipform Paving Vibration Test TPF-5(498)			
Project Manager: Todd Hanson		Phone: 515-239-	E-mail: Todd.hanson@iowadot.us
Project Investigator: Peter Taylor		Phone: 515-294-	E-mail: ptaylor@iastate.edu
Lead Agency Project ID:	Other Project ID (i.e., contract #): Addendum 843	Project Start Date: 04/01/2023	
Original Project End Date: 03/31/2025	Project End Date:	Number of Extensions:	

On schedule
 On revised schedule
 Ahead of schedule
 Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Total Percentage of Work Completed
\$195,000	\$34,329	%

Quarterly Project Statistics:

Total Project Expenses This Quarter	Total Amount of Funds Expended This Quarter	Percentage of Work Completed This Quarter
\$17,120		%

Project Description:

The aim of the work is to:

1. Model how the test works as a function of concrete properties
2. Investigate how mixtures affect VKelly results and how they correlate with rheology parameters
3. Modify the test to work with mixtures with slumps greater than 3"

Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):

For Quarter Ending December 31, 2023:

- The student reviewed and corrected the model being used to predict how the device may be expected to behave. An initial literature review has been prepared and is being reviewed. A critical part of this effort is understanding the parameters related to mixture flow and vibration energy.
- The modified device with an automated rate system was received on December 21. Work is starting connect it to a computer and calibrate it.

Anticipated work next quarter:

- It is planned to start lab tests this quarter

Significant Results: