

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Virginia DOT (VDOT).

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 # <i>(i.e., SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> TPF-5(345) Pavement Surface Properties Consortium – A Research Program at the Virginia Smart Road Phase II		Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) <input type="checkbox"/> Quarter 2 (April 1 – June 30) <input type="checkbox"/> Quarter 3 (July 1 – September 30) <input checked="" type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: <div style="text-align: center;">Pavement Surface Properties Consortium: A Research Program</div>			
Name of Project Manager(s): Kevin Kenneth McGhee		Phone Number: (434) 293-1956	
Lead Agency Project ID: 82650		Other Project ID (i.e., contract #):	
Original Project End Date: 2/28/2022		Current Project End Date: 2/28/2022	
		E-Mail Kevin.McGhee@VDOT.Virginia.gov	
		Project Start Date: 5/19/2016	
		Number of Extensions: --	

Project schedule status:

☒ On schedule
 ☐ On revised schedule
 ☐ Ahead of schedule
 ☐ Behind schedule

Overall Project Statistics:

Total Project Budget	Total Cost to Date for Project	Percentage of Work Completed to Date
\$1,422,181*	\$808,067	57%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$12,032 (1%)	\$12,032	1%

* Committed; the actual contracted budget is \$1,283,774 (VTTI)

Project Description:

This program of research focuses on optimizing pavement surface texture characteristics. Phase I of the program demonstrated that a collaborative research program can provide an accessible and efficient way for highway agencies and other organizations to conduct research on pavement surface properties. This second phase focuses on addressing some of the emerging challenges in the evaluation of pavement surface properties and the changes needed to best support the next generation of pavement and asset management systems, including support for MAP21-related initiatives. The program includes the following main broad activities: (1) equipment comparisons; (2) technology transfer; and (3) research on emerging topics.

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

Gerardo Flintsch made a presentation on Splash and Spray and Hydroplaning as part of the RPUG virtual presentation webinar-series event on October 15, 2020.

The Pooled Fund held a Virtual TAC meeting on December 2, 2020 discussing the following topics:

Introductions and approvals of the minutes from the previous meeting.

Pooled Fund Administration Report [Both for the 345 and the upcoming 463 (Phase III)].

Pooled Fund Operations Report, presentation on the FHWA PFM Project.

FHWA Related Topics.

NCHRP 10-98 Protocols for Network Based Macrottexture report update.

Kentucky Transportation Cabinet Friction Data Collection Project with Continuous Friction.

All of the members received the minutes of the meeting and presentations on December 3, 2020.

Delivered the Final Data Report on the Continuous Friction Measurement and Pavement Friction Management Demonstration for the Kansas Department of Transportation on December 21, 2020.

The report provides a preliminary analysis of the friction and texture road properties measured in Kansas with the SCRIM, limited to a statistical description of the data and examples of select routes that exhibit low friction and/or texture.

The report also contains recommendations to implement a proactive PFMP to reduce the risk of crashes and associated fatalities.

Anticipated work next quarter:

Complete data processing and analysis will follow for Illinois.

Make a presentation in TRB for the Lectern Session of the TRB AKP50 Committee meeting on New Advances in Pavement Surface Characteristics.

Schedule another TAC meeting during this quarter to continue discussing Pavement Surface Characteristics, especially Macrottexture topics and others not dealt on the December 2 meeting for lack of time.

Significant Results:

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).

Data collection efforts during this quarter have been slowed down because of COVID-19 restrictions.

Potential Implementation: