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.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX) TPF-5(268)		Transportation Pooled Fund Program - Report Period:				
		☐ Quarter 1 (January 1 – March 31)				
		☐ Quarter 2 (April 1 – June 30)				
National Sustainable Pavement Consortium		☐ Quarter 3 (July 1 – September 30)				
		☑ Quarter 4 (October 1 – December 31)				
Project Title:						
National Sustainable Pavement Consortium						
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Name of Project Manager(s): Phone Nu			E-Mail			
Kevin Kenneth McGhee	(434) 293-1956		Kevin.McGhee@VDOT.Virginia.gov			
Lead Agency Project ID:	Other Project ID	(i.e., contract #):	Project Start Date:			
VCTIR 103567		148679	7/1/2012			
Original Project End Date:	Current Project		Number of Extensions:			
6/30/2018	6/30/2019		3			
Desired a la Lineatata						
Project schedule status:						
☑ On schedule ☐ On revised schedule ☐ A		Ahead of schedule	☐ Behind schedule			
Overall Project Statistics:						
Total Project Budget	Total Cos	t to Date for Project	Percentage of Work Completed to Date			
\$690,000 ¹		\$604,328	88%			

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$11,615 (2%)	\$11,615	88%

¹Total available funds; \$651,324 contracted.

Project Description:

Through a regional pooled fund, this program of research focuses on enhancing pavement sustainability. The initial project scope covers:

- Examine emerging sustainable materials, technologies, products and pavement systems, how to facilitate their adoption, and what testing approaches and methods are needed to implement these technological improvements.
- ✓ Identify an appropriate set of metrics that comprises all aspects of pavement sustainability and the adaption or development of tools designed to assess pavement sustainability on qualitative and quantitative scales.
- Examine how sustainability considerations will affect all aspects of pavement engineering and management such as planning, design, construction, maintenance, management, and reclamation and develop guidelines for integration of these tools into pavement/ asset management business processes.
- ✓ Investigate the effect of climatic change on regional pavement engineering in terms of design, construction, maintenance, and management.

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

- Completed the data collection for synthesis about long-term performance of in-place recycled pavements.
- Continued work on the incorporation of LCA and sustainability considerations into the pavement management processes.

Anticipated work next quarter:

• Complete the synthesis about long-term performance of in-place recycled pavements.

Significant Results:

• Final publication of the paper: Santos, J., Ferreira, A., Flintsch, G.W., Cerezo, V., "A Multi-Objective Optimisation Approach for Sustainable Pavement Management," *Structure and Infrastructure Engineering: Maintenance, Management, Life-Cycle Design and Performance*, vol. 14(7), 2018, https://doi.org/10.1080/15732479.2018.1436571 (Published online: 18 Feb 2018).

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).

No problems were encountered in this quarter.

Potential Implementation:	