TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Virginia DOT (VDOT)	
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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)		Transportation Pooled Fund Program - Report Period:			
		☐ Quarter 1 (January 1 – March 31)			
TPF-5(268)		☐ 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					
Name of Project Manager(s):	Phone Number:		E-Mail		
Ben Bowers	(434)) 293-1423	Ben.Bowers@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/	30/2018	0		
Project schedule status:					
☑ On schedule ☐ On revised s	chedule \square	Ahead of schedule	☐ Behind schedule		
Overall Project Statistics:					
Total Project Budget	Total Cos	st to Date for Project	Percentage of Work		

Quarterly Project Statistics:

\$558,944¹

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$9,277 (1.6%)	\$9,277	85%

\$472,528

Completed to Date

85%

¹ Contracted; total commitment \$665,000

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.):

- Presented the paper "Consideration of life cycle greenhouse gas emissions in a multi-objective optimization approach for sustainable pavement maintenance and rehabilitation programming" at the *Fifth International Symposium on Life-Cycle Civil Engineering*, Oct 16-19, Delft, the Netherlands.
- Participated in the final twinning meeting with LCE4Roads and delivered a presentation about the work of the consortium for the *1*st European Road Infrastructure Congress, Leeds, UK, Oct 18-20, 2016.
- Continued work on synthesizing long-term performance data from states with active in-place recycling programs.
- Planned the Fourth Technical Oversight Workshop in Blacksburg, VA.

Anticipated work next quarter:

Significant Results:

- Present the paper "Non-Destructive In Situ Characterization of Elastic Moduli of Full-Depth Reclamation Base Mixtures" at the 2017 *Annual Meeting of the Transportation Research Board*, Washington, DC and prepare the final version for publication.
- Continue work on the synthesis of long-term performance data from states with active in-place recycling programs.
- Design the experimental plan for the project on influence of additives on mix design of in-place recycled materials.

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: