

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(268) National Sustainable Pavement Consortium	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 checked="" type="checkbox"/> Quarter 3 (July 1 – September 30) <input type="checkbox"/> Quarter 4 (October 1 – December 31)	
Project Title: <p style="text-align: center;">National Sustainable Pavement Consortium</p>		
Name of Project Manager(s): Ben Bowers	Phone Number: (434) 293-1423	E-Mail Ben.Bowers@vdot.virginia.gov
Lead Agency Project ID: VCTIR 103567	Other Project ID (i.e., contract #): 448679	Project Start Date: 7/1/2012
Original Project End Date: 6/30/2018	Current Project End Date: 6/30/2018	Number of Extensions: 2

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
\$651,367 ¹	\$561,367	86%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$11,415 (2%)	11,415	86%

¹ Contracted after the contract modification processed in December; total commitment \$690,000.

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.):

- Continued work on synthesizing long-term performance data from states with active in-place recycling programs.
- Documented some of the previous work on the use of LCA in pavement-type selection and integration of sustainability into the pavement management process.
 - Prepared the following paper:
 - ✓ Qiao, Y.; Dawson, A.; Parry, T.; Flintsch, G.W. (2016). Pavement Life Cycle Cost and Climate Variability: Case Studies, submitted for consideration by the *International Journal of Pavement Engineering*.
- Supported the organization of the FHWA Sustainable Pavement Technical Working Group (SPTWG), November 7–8, 2017, Roanoke, Virginia
 - Made a presentation about the activities of the consortium.
 - Hosted a tour of relevant Virginia Tech facilities.
- Hosted the project TAC meeting in conjunction with the SPTWG meeting on Nov. November 8, 2017, Roanoke, Va (the Minutes are attached).

Anticipated work next quarter:

- Continue work on synthesizing long-term performance data from states with active in-place recycling programs.
- Organize a Pavement In-place recycling Workshop in Pennsylvania and explore the possibility of organizing a second one in Virginia.

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).

No problems were encountered in this quarter.

Potential Implementation: