

TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): WisDOT

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-S(270)	Transportation Pooled Fund Program - Report Period: <input type="checkbox"/> Quarter 1 (January 1 – March 31) 2014 <input checked="" type="checkbox"/> Quarter 2 (April 1 – June 30) 2014 <input type="checkbox"/> Quarter 3 (July 1 – September 30) 2014 <input type="checkbox"/> Quarter 4 (October 1 – December 31) 2014	
Project Title: Recycled Materials Resources Center- Third Generation (RMRC-3G)		
Name of Project Manager(s): Angela Pakes Ahlman and Tuncer B. Edil	Phone Number: 608-890-4966	E-Mail apakes@sustainability.wisc.edu
Lead Agency Project ID: TPH-5(270)	Other Project ID (i.e., contract #):	Project Start Date: August 30, 2012
Original Project End Date: September 30, 2015	Current Project End Date: September 30, 2015	Number of Extensions: NA

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
\$42,097.00	\$21,607.69	51.3%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
\$0; 0%	\$0	51.3%

Project Description:

The goal of RMRC-3G is to provide the resources and activities needed to break down barriers and increase utilization of recycled materials and industrial byproducts. This is being done through carefully integrated and orchestrated activities that include applied research in key areas relevant to transportation applications combined with outreach programs that provide the educational and technical resources needed to maximize the rate at which recycled materials and industrial byproducts are used in transportation applications.

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

RFPs for 3 projects with a well-defined scope were prepared and approved by the Executive Committee. They were sent to potential researchers with appropriate qualifications and proposals were solicited:

1. Development of Recycled Materials Informational Data Sheets and Quantification of System-wide Life Cycle Benefits (UW-Madison-PIs: Edil and Pakes Ahlman)
2. Development of a Recycled Materials Web Map to Connect Consumers and Producers (U. of Alabama-PI Graetinger)
3. Use of Recycled Materials as Mechanically Stabilized Earth (MSE) Retaining Wall Reinforced Backfills (UW-Madison with subcontract to George Mason University-PIs: Likos and Tanyu)

Proposals were evaluated and contracting activities were initiated with WisDOT and UW-Madison Research Office.

Phone calls and emails were used as means to promote the new RMRC-3G. The new webpage is reviewed and improved continually.

A Life Cycle Analysis was conducted for C-FIRE to compare cost-effective means of managing pavements in poor condition. Eleanor Bloom conducted the analysis under the supervision of Edil and Pakes Ahlman. The work is completed and will be published as a paper by RMRC-3G.

I-94 life cycle evaluations were continued to complete the main line except the ramps.

Edil was invited to give a keynote lecture on "Recycled Concrete Aggregate" in an international conference and promoted the RMRC program.

Anticipated work next quarter:

- Initiate the project "**Development of Recycled Materials Informational Data Sheets and Quantification of System-wide Life Cycle Benefits**" and start data collection from all member states. Engage students in the project.
- Complete contracting the other two projects.

Significant Results:

- Continuing outreach activities for active members, future potential members and industry.
- RFPs for 3 research projects are finalized.

Circumstance affecting project or budget. (Please describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope and fiscal constraints set forth in the agreement, along with recommended solutions to those problems). none

Potential Implementation:

The three research projects will have significant implementation potential.