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.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF-5(352)	**Transportation Pooled Fund Program - Report Period:** ☐ Quarter 1 (January 1 – March 31) ☑ Quarter 2 (April 1 – June 30) ☐ Quarter 3 (July 1 – September 30) ☐ Quarter 4 (October 1 – December 31)	
Project Title: Recycled Materials Resources Center- Fourth Generation (RMRC-4G)		
Name of Project Manager(s): Edil/Pakes	**Phone Number:** 608-890-4966	**E-Mail** tbedil@wisc.edu angela.pakes@wisc.
Lead Agency Project ID: 0092-17-15	**Other Project ID (i.e., contract #):** AAC2312 MSN207489	**Project Start Date:** 4/17/17
Original Project End Date: 4/17/2022	**Current Project End Date:** 11/30/2022	**Number of Extensions:** 1

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
$382,932	$338,683.10	93%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$17555 / 5%	$17555	93%

Project Description:

The goal of RMRC-4G 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.):

• Continued weekly internal RMRC research administration meetings. This included meetings on revised schedules for the MSE wall projects. April 1 RMRC MSE Wall Projects Update meeting with WisDOT personnel.

2 projects requested for Change in Scope:
1. MSE walls/full-scale Phase 2 by Dr. Bill Likos
2. MSE: RCA-Geotextile Interaction ("Tufa")-Suitability of Using Recycled Concrete Aggregate (RCA) as a Backfill in Mechanically Stabilized Earth Walls Reinforced with Geotextiles Dr. Burak Tanyu

May 3 Project Update Meeting:
Board approval for scope of work change for above two projects.
Reviewed draft final report for Project Closeout Presentation by Dr. Burak Tanyu: Performance of Geotextiles Used Under RCA Base Course. Hosted researcher at May 3 meeting with Executive Board. Reviewed report questions and feedback. Final report and project closeout complete.

4G Program Closeout coming end of 2022- reviewed close out dates, expected deliverables in Nov, end RMRC 4G.

A Special Issue of ASTM Geotechnical Testing Journal on Recycled Materials with focus on testing and standards was initiated. Guest Editors are Tuncer Edil and Bora Çetin.

• Added research inquiries to growing list of research needs. Ideas will be shared in Q3 with Exec committee.

• Continued work in ASTM on proposed Standard E850 Characterization of Inorganic Process Wastes for Use as

Anticipated work next quarter:

Continue project meetings with active project teams. Weekly internal RMRC research administration meetings.

Close monitor of MSE Wall project progression.

AMS20 TRB Subcommittee summer meeting July 25, 2022.

Continue identifying new topics and issues relating to recycling materials for highways applications for potential RMRC next generation.

Continue work with ASTM on new recycled materials standards.

Significant Results:

• Responded to research inquiries regarding the MSE wall projects.

• Board approval for scope of work change for two projects.

• Performance of Geotextiles Used Under RCA Base Course. Reviewed final report and hosted presentation for Project Closeout by Dr. Burak Tanyu.

• Held researcher meeting with Executive Board. Reviewed MSE Wall scope and schedule change; board approved. Final report and project closeout complete.

• Further developments on proposed ASTM Standard E850 Characterization of Inorganic Process Wastes for Use as Structural Fill.

• Responded to research ideas and collected information for future sharing.

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:

Several opportunities via implementation by DOTs and other agencies for each of the individual projects.