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:** 4/17/2022	**Number of Extensions:** 0

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	$175,539.83	46%

Quarterly Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
$29290.22 / 8%	$29290.22	46%

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.):

Weekly internal RMRC research administration meetings.
Continue project meetings with all active project teams.
Formed agenda for project updates for TRB presentations in this quarter:

- Closeout: Physical and Chemical Factors Controlling pH and Alkalinity of RCA Leachate
- Closeout: Recycled Material Network: Connecting Consumers and Producers - Phase II: Upgrades and Maintenance
- Use of Waste Quarry Fines as a Binding Material in Unpaved Roads
- Long-term Drainage Performance of Mechanically Stabilized Earth Retaining Walls with Recycled Backfill
- Long-Term Performance of Asphalt Concrete Mixed with RAP and RAS
- Performance of Geotextiles Used Under RCA Base Course
- System-wide Life Cycle Benefits of Recycled Materials-Phase for NCDOT
- Phase II: Use of Concrete Grinding Residue as Concrete and Soil Amendment
- MSE: RCA-Geotextile Interaction ("Tufa")
- Recycled Materials (RCA and RAP) behind MSE walls/full-scale Phase 2

TRB 2020 meeting prep.
ADC60 TRB Subcommittee Workshop presentation on current research.
Started tracking updates to be made for the RMRC.wisc.edu website.
Modifications of the ASTM standard "Standard Guide for Characterization of Inorganic Residual Wastes and Byproducts for Use as Structural Fill and Base Course" based on ballots.
Participated in D18.14 committee meeting (teleconference).
Outreach: Responded inquiries about recycled asphalt shingles, recycled glass (Madison), coal cinders, plastic recycling.

Anticipated work next quarter:

Weekly internal RMRC research administration meetings.
Continue project meetings with all active project teams.
Expecting draft report on Performance of Geotextiles Used Under RCA Base Course
Expecting draft report on System-wide Life Cycle Benefits of Recycled Materials-Phase for NCDOT

Summer executive board meeting to provide updates on projects.
ADC60 TRB Subcommittee Summer Workshop - present updates on current research projects.
Continue with updates for the RMRC.wisc.edu website.

Finalize approval of the ASTM standard "Standard Guide for Characterization of Inorganic Residual Wastes and Byproducts for Use as Structural Fill and Base Course".

Participate in the planned webinar/workshop on Resilient and Sustainable Transportation being organized by ASTM and FHWA.

Continue responding the inquiries relating to recycled materials.

Significant Results:

Approved final report for the Recycled Materials webmap.
Each project provided a presentation (closeout or update) to TRB Executive Committee in January.
Promoting research papers as a result via social media (Twitter) and the website.
The ASTM standard "Standard Guide for Characterization of Inorganic Residual Wastes and Byproducts for Use as Structural Fill and Base Course" developed by RMRC is nearing final ballot.

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 each of the individual projects.