

## TRANSPORTATION POOLED FUND PROGRAM QUARTERLY PROGRESS REPORT

Lead Agency (FHWA or State DOT): Mn/DOT

**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.*

<b>Transportation Pooled Fund Program Project #</b> <i>(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX))</i> <p style="text-align: center;">TPF-5(215)</p>	<b>Transportation Pooled Fund Program - Report Period:</b> <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)	
<b>Project Title:</b> <p style="text-align: center;">Transportation Engineering and Road Research Alliance (TERRA)</p>		
<b>Name of Project Manager(s):</b> <p style="text-align: center;">Maureen Jensen</p>	<b>Phone Number:</b> <p style="text-align: center;">651-366-5507</p>	<b>E-Mail</b> <p style="text-align: center;">maureen.jensen@state.mn.us</p>
<b>Lead Agency Project ID:</b> <p style="text-align: center;">TPF-5(215)</p>	<b>Other Project ID (i.e., contract #):</b>	<b>Project Start Date:</b> <p style="text-align: center; font-size: 1.2em;">7/21/2009</p>
<b>Original Project End Date:</b> <p style="text-align: center; font-size: 1.2em;">7/2014</p>	<b>Current Project End Date:</b> <p style="text-align: center;">7/2014</p>	<b>Number of Extensions:</b> <p style="text-align: center;">0</p>

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
\$157,500	\$26,757.92	45%

**Quarterly** Project Statistics:

Total Project Expenses and Percentage This Quarter	Total Amount of Funds Expended This Quarter	Total Percentage of Time Used to Date
	\$6,428.57	

**Project Description:**

TERRA is a consortium of government, industry and academia in a dynamic partnership to advance innovations in road engineering and construction, including issues related to cold climates. TERRA's research program is built on the principle of collaboration to meet research needs, and focuses on transforming the MnROAD facility from a Minnesota resource to a regional, national, and international research center. TERRA's partnering efforts reach beyond Minnesota to include transportation organizations in other states and in Europe.

The main objectives of the TERRA is to:

- Guide future pavement research investments and activities;
- Exchange information, share ideas, and learn research results;
- Develop relationships, and provide a network for expanded collaboration and development of proposals;
- Attract key public, industry, academic and other program partners to contribute resources;
- Expand entrepreneurial use of the capacity and capabilities of the MnROAD facility by pursuing opportunities to serve a broader research community.

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

Due to Minnesota Government shutdown in July, many meetings and activities were delayed until October.

Meetings for the TERRA Pavement Conference were held on August 23 and September 21. The event is scheduled for Feb 9, 2012. Subcommittee meetings were held. Performance measures for 2012 were developed. Iowa DOT and FHWA joined TERRA.

Other activities:

- Planning for the Innovation Series was completed and the event was rescheduled for October 4-5
- Rolling resistance measurements were conducted during the week of September 12. Presentations on Rolling Resistance and Step Frequency GPR were held at MnROAD on September 14.
- Pooled fund proposals for non-destructive testing and Unbonded concrete overlays were posted.
- Three project ideas were reviewed by the Member and partner engagement committee and recommended to be presented at the October Board Meeting.
- An E-News was sent on August 3rd.
- Regular maintenance and updates were performed on the TERRA website.
- An article for TERRA members to have published in their organization's publications was completed.

**Anticipated work next quarter:**

- Prepare for a potential meeting with FHWA at TRB
- Plan the annual Pavement Conference
- Evaluate the research needs submitted to TERRA

**Significant Results:**

Surface Characteristics of rehabilitated PCC pavements: the innovative diamond grind is already being deployed

**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).**

Minnesota State Government shutdown caused the innovation event to be rescheduled and work to develop it interrupted. This will not impact the overall pooled fund schedule or budget.

**Potential Implementation:**

The TERRA sponsored pooled fund on evaluation of guide sign fonts for older drivers has great potential of being implemented in the MUTCD once it's completed.

Several of the MnROAD research projects also have potential or are being implemented:

- Implements of Husbandry: Wisconsin association of nutrient haulers are using different equipment, and some modification to the use of roads in the spring is occurring due to the results of the study.

We are planning to develop a research implementation document that highlights all the implementation occurring from these projects.