# 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.*

| **Transportation Pooled Fund Program Project #** *(i.e, SPR-2(XXX), SPR-3(XXX) or TPF-5(XXX)* TPF-5(215) | | **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:** Transportation Engineering and Road Research Alliance (TERRA) | | |
| **Name of Project Manager(s):** Maureen Jensen | **Phone Number:** 651-366-5507 | **E-Mail** maureen.jensen@state.mn.us |
| **Lead Agency Project ID:** TPF-5(215) | **Other Project ID (i.e., contract #):** | **Project Start Date:** 7/21/2009 |
| **Original Project End Date:** 7/2014 | **Current Project End Date:** 7/2014 | **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 |
|---|---|---|
| $157,500 | $20,329.35 | 40% |

***Quarterly*** Project Statistics:

| Total Project Expenses and Percentage This Quarter | Total Amount of Funds Expended This Quarter | Total Percentage of Time Used to Date |
|---|---|---|
| | $1,043.64 | |

**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.):**

Meetings held:
April 7 - Member and Partner Engagement Committee
May 3, June 3 - Marketing and Communication Committee
May 5,June 6 - Coordinating committee
June 7 - Research and Implementation committee

Other activities:
- Planning for the Innovation Series was conducted. a full day conference on the TERRA research at MnROAD was completed. Unfortunately, the Minnesota State Shutdown forced it to be rescheduled.

- A call for Research and Implementation ideas was conducted.

- Pooled fund proposals for non-destructive testing and Unbonded concrete overlays were finalized.

- Michigan Tech conducted a webinar on Warm Mix asphalt. It was widely attended. A recording of the seminar is at: http://mtu.adobeconnect.com/p6tbs8hu226/

**Anticipated work next quarter**:

- Posting of two pooled funds
- Continued planning for the MnROAD workshop
- Plan the annual Pavement Conference

**Significant Results:**

The Warm Mix Asphalt synthesis and webinar is a user friendly tool that can help practioners understand the best use of this technology.

**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.