

## State Planning and Research Program Quarterly Report

**PROJECT TITLE:** TPF-5 (129) Recycled Unbound Pavement Materials

**OBJECTIVES:** To investigate the use of recycled materials in constructing unbound pavement layer. To identify the critical material properties of these recycled materials (strength, stiffness, drainage, volume changes, unsaturated properties, etc.) and develop a testing protocol that can accurately predict pavement performance. To determine what, if any, environmental concerns there may be surrounding the use of these recycled materials.

**PERIOD COVERED:**

October 1, 2007 – December 31, 2007

**PARTICIPATING AGENCIES:**

Minnesota, Texas, Ohio, Wisconsin, Michigan, California

**PROJECT MANAGER:**

Benjamin Worel

**SP&R PROJECT NO:**

TPF-5 (129)

**PROJECT IS:**

Planning  
 Research &  
Development

**LEAD AGENCY:**

Mn/DOT

**PRINCIPAL INVESTIGATOR:**

Craig Benson  
University of Wisconsin / RMRC

**ANNUAL BUDGET:**

\$390,000 Total (5 years of funding)

**PROJECT EXPENDITURES TO DATE:**

Past Quarters  

- June 30, 2007 TAP meeting

 This Quarter  

- No expenditures

**WORK COMPLETED:**

The design and strategy for the instrumentation and construction for MnROAD have been finalized. Bids were received and are in the process of being accepted (in January 2008). Again the costs of the instrumentation and construction are being paid out of Minnesota SPR funds.

A research team was selected and a work plan was developed/reviewed/updated to the TAPs approval. The PI and the University of Wisconsin is working to develop a contract with the 4<sup>th</sup> revision. This will be posted once the contract is complete this spring 2008.

**SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:**

1. Contract will be established with the University of Wisconsin.

**STATUS AND COMPLETION DATE:**

1. MnROAD Plans were shared with the team.
2. Future TAP meeting is planned at MnROAD for May/June 2008. This will allow the contractor to start the literature review and MnROAD construction will be going for review. A December 2008 meeting is planned in Madison, WI to visit the UofWI lab facilities and the RMRC center.

**TPF-5(129)**  
**Recycled Unbound Pavement Materials (MnROAD Study)**  
 Minnesota Lead State

**Commitments & Contacts**

Currently Funding = \$450,000 (only \$390,000 committed\*)  
 \$350,000 Contract (held \$25,000 WI\*)  
 + \$25,000 State Travel/Meetings (held \$5,000 WI\*)  
 + \$50,000 Monitoring (held \$30,000 WI\*)

	CA	MI	MN	OH	TX	WI	
<b>2007</b>	15,000	15,000	15,000	15,000	15,000	15,000	
<b>2008</b>	15,000	15,000	15,000	15,000	15,000	0*	
<b>2009</b>	15,000	20,000	15,000	15,000	15,000	0*	
<b>2010</b>	15,000	25,000	15,000	15,000	15,000	0*	
<b>2011</b>	15,000	0	15,000	15,000	15,000	0*	
<b>Total</b>	75,000	75,000	75,000	75,000	75,000	75,000*	<b>Totals</b> <b>\$450,000</b>
<b>Obligated FMIS as of (1/25/08)</b>	0***	30,000	75,000 807,352**	30,000	15,000	15,000	<b>\$165,000</b>
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\* Wisconsin only commits one year at a time but is in the study fully funded – we need to discuss this issue.  
 \*\* Minnesota is also using its own extra SPR funding for its construction costs.  
 \*\*\* Need to work on State Obligations (get money in the fund).