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:									
January 1, 2007 – March 31, 2008									
PARTICIPATING AGENCIES:									
Minnesota, Texas, Ohio, Wisconsin, Michigan, California									
PROJECT MANAGER:	SP&R PROJECT NO:	PROJECT IS:							
Benjamin Worel									
	TPF-5 (129)	Planning							
LEAD AGENCY:		X Research &							
Mn/DOT		Development							
		-							
PRINCIPAL INVESTIGATOR:									
Craig Benson									
University of Wisconsin / RMRC									
ANNUAL BUDGET:	PROJECT EXPENDITURES TO DATE:								
	Past Quarters								
\$390,000 Total (5 years of funding)	• 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 our of Minnesota SPR funds. Construction expected to start after May 1st.

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 4th revision. This will be posted once the contract is complete this next quarter (May 2008).

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

1. Contract will be established and work will begin with the University of Wisconsin (May 2008).

STATUS AND COMPLETION DATE:

1. Future TAP meeting is planned at MnROAD for June/July 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	ОН	TX	WI	
2007	15,000	15,000	15,000	15,000	15,000	15,000	
2008	15,000	15,000	15,000	15,000	15,000	0*	
2009	15,000	20,000	15,000	15,000	15,000	0*	
2010	15,000	25,000	15,000	15,000	15,000	0*	
2011	15,000	0	15,000	15,000	15,000	0*	Totals
Total	75,000	75,000	75,000	75,000	75,000	75,000*	\$450,000
Obligated							
FMIS							
as of			75,000				
(1/25/08)	0***	30,000	807,352**	30,000	15,000	15,000	\$165,000
Technical Contacts	Mehdi Parvini mehdi parvini@dot.ca.gov	Michael Eacker eackerm@michigan.gov	Ben Worel Ben.worel@dot.state.mn.us	Lloyd Welker Lloyd.Welker@dot.state.oh.us	Mark McDaniel mmcdanie@dot.state.tx.us	Tom Brokaw thomas.brokaw@dot.state.wi.us	

^{*} 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).