

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:

April 1 – June 30, 2008

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:

Tuncer B. Edil, Ph.D., P.E.
University of Wisconsin / RMRC

ANNUAL BUDGET:

\$450,000 Total (5 years of funding)
(\$349,910 Contract + \$40K admin meetings
+ \$60,090 agency discretion)

PROJECT EXPENDITURES TO DATE:

Past Quarters
• June 30, 2007 TAP meeting
This Quarter
• No expenditures

WORK COMPLETED:

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.

- May 20, 2008 – Contract completed with University of Wisconsin
- June 2008 - 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). The costs of the instrumentation and construction are being paid out of Minnesota SPR funds. Construction started April 2008 and continued through the quarter. Expect paving to be done in August 2008.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

1. Future TAP meeting needs to be agreed upon by the TAP. It could be at MnROAD or at the University of Wisconsin to visit the UofWI lab facilities / RMRC center. This will allow the contractor to start the literature review and MnROAD construction will be complete.

STATUS AND COMPLETION DATE:

1. Contract started (May 2008)
2. Next quarter the University of Wisconsin will also give an update on each task they are contracted to complete.