

## 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 07– June 07

**PARTICIPATING AGENCIES:**

Minnesota, Texas, Ohio, Wisconsin, Michigan, California

**PROJECT MANAGER:**

Nancy Whiting  
Benjamin Worel

**SP&R PROJECT NO:**

TPF-5 (129)

**PROJECT IS:**

☐ Planning  
☒ Research &  
Development

**LEAD AGENCY:**

Mn/DOT

**PRINCIPAL INVESTIGATOR:**

To be determined

**ANNUAL BUDGET:**

\$390,000 for 5 years

**PROJECT EXPENDITURES TO DATE:**

Travel Costs for designated state representative for the June 30, 2007 TAP meeting held in Minnesota.

**WORK COMPLETED:** TAP Meetings: Telephone conference May 25, 2007 and full TAP meeting at MnROAD, MN, Friday, June 29, 2007.

The individual state's concerns were identified and Scope of Work detailed. The recycled materials of greatest concern by the participating states, on which this project will focus is crushed concrete and RAP. The design and materials for the 3 MnROAD cells was elected to be 100% crushed concrete, 100% RAP and 50/50 crushed concrete and natural aggregate. All materials will have the same gradation, and have the same gradation as the 100% natural aggregate base that the control section. Potential PI selection PI was discussed.

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

1. Finalize strategy for instrumentation for MnROAD cells
2. Select a PI/Consultant/Research Group for this project
3. Final design for MnROAD test cells

**STATUS AND COMPLETION DATE:**

1. The PI selection process will continue via telephone conferences and e-mails.
2. A detailed work plan will be develop with the chosen PI.
3. October 15, 2007 has tentatively been set for the next full meeting that should include the PI.