***‘Performance of Recycled Asphalt Shingles (RAS) in Hot Mix Asphalt’***

**National Pooled Fund Study TPF-5 (213)**

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During the twelfth quarter, July 1, 2012 through September 30, 2012, the TPF-5 (213) team achieved the following components on the project:

1. University of Minnesota completed semi-circular bend testing on Illinois and Wisconsin mixtures.
2. ISU completed beam fatigue testing for Illinois, Wisconsin, and Colorado mixtures.
3. ISU completed dynamic modulus testing for Colorado, Illinois and Wisconsin mixtures.
4. MnDOT completed the binder extractions and recoveries on mixture samples from Illinois, Colorado and Wisconsin.
5. HMA gyratory compacted samples for BBR testing were delivered to MoDOT for testing.
6. Next steps for the study include:
7. Semi-circular bend testing completed for the Colorado state demonstration projects and; and
8. Complete Draft Executive Summaries for each state demonstration projects.