

**State Planning and Research Program
Quarterly Report (2nd Quarter 2009)**

PROJECT TITLE:

Evaluation of Non-intrusive Traffic Detection Technologies – Phase III

OBJECTIVES:

The use of non-intrusive technologies for traffic detection has become a widespread alternative to conventional roadway-based detection methods. This project will conduct field tests of the latest generation of non-intrusive traffic sensors in order to assess their capabilities and limitations in a variety of test conditions. Specific test conditions will be driven by the needs of participating state agencies.

PERIOD COVERED:

April 1, 2009 to June 30, 2009

PARTICIPATING AGENCIES:

Connecticut DOT, Florida DOT, Georgia DOT, Hawaii DOT, Idaho DOT, Illinois DOT, Iowa DOT, New York DOT, Minnesota DOT, Mississippi DOT, Montana DOT, Ohio DOT and Texas DOT.

PROJECT MANAGER:

Jerry Kotzenmacher, Mn/DOT

SP&R PROJECT NO:

TPF-5(171)

PROJECT IS:

Planning
 Research & Development

LEAD AGENCY:

Mn/DOT

PRINCIPAL INVESTIGATOR:

Erik Minge, SRF Consulting Group, Inc.

ANNUAL BUDGET:

\$85,000

PROJECT EXPENDITURES TO DATE:

\$XX,XXX

TOTAL CONSULTANT BUDGET:

\$149,985.74

CONSULTANT EXPENDITURES TO DATE:

\$42,664.57

WORK COMPLETED THIS QUARTER:

Conducted a face-to-face Technical Advisory Committee (TAC) meeting on April 29, 2009. This meeting allowed the participating agencies to report on their non-intrusive research, provide input into the project objectives, and select sensors for evaluation. The Draft Test Plan was prepared and submitted to the stakeholders for review. Sensor procurement began with good cooperation from the sensor vendors. Basic test site setup was completed including setup of video recording equipment and the traffic recorder to be used for the baseline.

SUMMARY OF ACTIVITIES EXPECTED TO BE PERFORMED NEXT QUARTER:

Procure remaining sensors for testing (Task 3). Install two piezo sensors in each of the three eastbound lanes and groundtruth the loops and piezos for use as baseline data source (Task 4). Begin field testing (Task 5).

STATUS AND COMPLETION DATE:

Project is currently on schedule, with an anticipated completion date of September 30, 2010. However, an unforeseen expense may impact the project budget. The test site needs to have piezo sensors installed at the test site to provide baseline data for axle classification. The piezo installation requires consultant time and direct expense that was not planned for in the site preparation task (Task 4). The expense will be mitigated by being more efficient with the remaining tasks and/or by allocating additional pooled fund budget to the consultant contract to cover these costs.