

OHIO DEPARTMENT OF TRANSPORTATION QUARTERLY RESEARCH REPORT



For Quarter Ending: June 30, 2007

Date Submitted: August 6, 2007

Project Title: Monitoring and Modeling of Pavement Response and Performance

Research Agency: Ohio University

Principal Investigator(s): Shad Sargand, J. Ludwig Figueroa

State Job No.: 134287(0)

Agreement No.: 21182

Federal Contract No.: TPF-5(121)

Project Start Date: May 1, 2006 **Contract Funds Approved:** \$1,379,372.06

Project Completion Date: May 1, 2011 (or 2012)

Spent and Encumbered To Date: \$562,199.65

40.7% Funds Expended 20% Work Done 23.3% Time Expired

List the Technical Liaisons and other individuals who should receive copies of this report: Roger Green, Aric Morse

SUMMARY OF PROGRESS FOR QUARTER

- Collected environmental and TDR data from WAY30 and NY 186 in June. Prepared WAY30 environmental data collection station for summer.

- Conducted controlled vehicle tests on I86 in New York on June 7. The data are being reviewed and prepared for analysis.
- Continued to purchase sensors, calibrated and prepare instrumentation for DEL23 PCC installation later this summer
- Attended two progress meetings with DEL23 contractors at which we provided instrumentation layouts for the sections.
- Conducted initial surveys of the Route 23 sections.

PROPOSED WORK FOR NEW QUARTER:

- Continue collecting environmental data from DEL23, WAY30, and NY I86, including weather (all sites) and LVDT and vibrating wire data (as made available with solar power, and not on I86 westbound)
- Continue testing of asphaltic materials from NY I86 to obtain their engineering properties
- Instrument 5 replacement PCC sections on DEL23.
- Collect curing data on PCC sections after installation.
- FWD and further controlled vehicle testing on NY I86 in November after construction ends.

IMPLEMENTATION (if any):

None

PROBLEMS & RECOMMENDED SOLUTIONS (if applicable):

On I86, one lane westbound has been closed for construction. We will not have access to the road or the data being collected until the end of summer. We can still collect weather station data. The controlled vehicle testing was conducted on the eastbound section only, and the trucks had to move with traffic, rather than at slower speeds because the eastbound section could not be closed down for the test.

It has also been noted that the first page of the contract gives the project duration as 6 years, but incorrectly lists the completion date as May 1, 2011, after only five years. This appears to be a typographical error and should be corrected to May 1, 2012.

EQUIPMENT PURCHASED (if any):

Finished purchasing sensors for DEL23. Some new data acquisition devices will need to be purchased in July.

CONTACTS & MEETINGS (if any):

None