**TRANSPORTATION POOLED FUND PROGRAM**

**QUARTERLY PROGRESS REPORT**

Lead Agency (FHWA or State DOT): \_\_\_\_IOWA DOT \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**INSTRUCTIONS:**

*Project Managers and/or research project investigators should complete a quarterly progress report for each calendar quarter during which the projects are active. Please provide a project schedule status of the research activities tied to each task that is defined in the proposal; a percentage completion of each task; a concise discussion (2 or 3 sentences) of the current status, including accomplishments and problems encountered, if any. List all tasks, even if no work was done during this period.*

|  |  |  |  |
| --- | --- | --- | --- |
| **Transportation Pooled Fund Program Project #**  *TPF-5(205)* | | **Transportation Pooled Fund Program - Report Period:**  □Quarter 1 (January 1 – March 31)  □ Quarter 2 (April 1 – June 30)  X Quarter 3 (July 1 – September 30)  □Quarter 4 (October 4 – December 31) | |
| **Project Title:**  Concrete Pavement Mixture Design and Analysis (MDA) | | | |
| **Project Manager: Phone: E-mail:**  Peter Taylor 294-9333 ptaylor@iastate.edu | | | |
| **Project Investigator: Phone: E-mail:**  Peter Taylor 294-9333 ptaylor@iastate.edu | | | |
| **Lead Agency Project ID:**  RT 0327 | **Other Project ID (i.e., contract #):**  Addendum 353 | | **Project Start Date:**  5/15/09 |
| **Original Project End Date:**  6/30/13 | **Current Project End Date:** | | **Number of Extensions:** |

Project schedule status:

x On schedule □ On revised schedule □ Ahead of schedule □ Behind schedule

Overall Project Statistics:

|  |  |  |
| --- | --- | --- |
| **Total Project Budget** | **Total Cost to Date for Project** | **Total Percentage of Work**  **Completed** |
| $385,000 | $200,692 | 20% |

***Quarterly*** Project Statistics:

|  |  |  |
| --- | --- | --- |
| **Total Project Expenses**  **This Quarter** | **Total Amount of Funds**  **Expended This Quarter** | **Percentage of Work Completed**  **This Quarter** |
| $36,934 |  | 5% |

**Project Description:**

The work to be covered by this pooled fund addresses focused activities under the [Concrete Pavement Road Map](http://www.fhwa.dot.gov/pavement/pccp/pubs/05047/) (CP Road Map) Track 1, Mix Design and Analysis. The activities are intended to meet some of the needs identified by the track. These include the need for:

* Verification tests that are easier to perform or better characterize materials and mixtures, both for uniformity control and for acceptance.
* Relationships and models that predict the performance of a mixture based on knowledge of the characteristics and proportions of the materials in it.
* Guides and Specifications that help users make good decisions, and make clear who is responsible for what and how it will be measured and paid for.
* Communication and education tools that help practitioners stay abreast of innovations being developed under this pooled fund.

This pooled fund is being set up to address specific tasks within the Road Map, notably those tasks that can, and should, be addressed in the short term, with high probability of achieving significant improvements in the quality and uniformity of concrete mixtures.

**Progress this Quarter (includes meetings, work plan status, contract status, significant progress, etc.):**

* Paper presented at NRMCA Conference on proportioning
* Presentation made at NC2 meeting on portable XRF
* Paper on proportioning submitted to ACPT conference
* Analysis of data from XRF continued.
* Final report on XRF was started.
* Tests of lab mixtures prepared for integral waterproofer has been completed and analysis of the data has begun.
* Mix proportions being prepared for paste aspect of proportioning task
* Specification team met and combined work to date, debated details and agreed on scope for future writing.

**Anticipated work next quarter:**

* Work will continue on all tasks

**Significant Results:**

* Portable XRF device will work on paste mixtures, but the error on mortars was unacceptably large.

**Circumstance affecting project or budget (Describe any challenges encountered or anticipated that might affect the completion of the project within the time, scope, and fiscal constraints set forth in the agreement, along with recommended solutions to those problems).**

***Refer to November 2011 Project Progress Report***