



QUARTERLY PROGRESS REPORT

Project Title:	A Proposal for the Development of High Performances Concrete for Transportation Structures in New Jersey		
RFP NUMBER:	NJDOT RESEARCH PROJECT MANAGER: Tony Chmiel		
TASK ORDER NUMBER/Study Number: 62 / 4-23806	PRINCIPAL INVESTIGATOR: Hani Nassif		
Period Starting: (Start Date of Study) 5/10/1999	Period Ending: 9/30/2000		

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Collection and Synthesis of Data	5%	2%	98%	4.9%
Selection of Mix Proportions and Test Methods	30%	1%	96%	28.8%
Evaluation of Mechanical and Long-term Properties	25%	10%	80%	20%
Collection of Data and Preparation of Samples During the Field Samples	15%	5%	20%	3%
Evaluation of Field Samples	15%	0%	0%	0%
Preparation of Specifications for HPC	5%	20%	20%	1%
Final Report	5%	0%	0%	0%
TOTAL	100%			57.7%

1. Progress this quarter by task:

- A. Mixes of Group C (w/c=0.3) and Group D (w/c=0.33) to achieve a strength of 10,000 psi are finished and a new mix E (W/C =0.29 and 0.28) is introduced to achieve a strength of 12000 psi.
- B. After contacting many RMC suppliers, it was decided to start the field testing of the mix design during the Fall. It was also decided that by the end of the summer the tests for the RCPT would be concluded and a mix for each w/c ratio can be selected. Few RCPT are still needed and will concluded by the end of September.

2. Proposed activities for next quarter by task

- A. Continue mixing group E with the same parameters as the group C and D mixes.

3. List of deliverables provided in this quarter by task (product date)

4. Progress on Implementation and Training Activities

- A. The PI, FHWA organized a two-day training workshop on HPC, to train NJDOT and other engineers on the use of HPC. Discussion with regard mix designs from various States was discussed.

5. Problems/Proposed Solutions

- A. Need to purchase RCP equipment. Each test takes about 3 days and the budget of the project is drained out since the beginning of summer. Although not part of the project scope, however, creep-testing set-up is needed to verify mix design for P/C girders.

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6. Budget Summary

Total Project Budget(# of years)	1.5 yr	\$70,814.00
Total Project Expenditure to date		100%
% of Total Project Budget Expended		100%
Task Order Number/Study Number:		62 / 4-23806
Current Task Order Budget (# of years)	Yr. 1.5	\$70,814.00
Actual Expenditure to date against current task order		
% of current task order budget expended		%

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