

Transportation Pooled Fund Program

Project Title: HY-8 Culvert Analysis Program – Phase Three of Development Efforts		
Project Manager and Phone Number: Mr. Joe Krolak Principal Hydraulics Engineer FHWA Office of Bridge Technology, E75-322 1200 New Jersey Avenue, S.E. Washington DC 20590 202/366/4611 joe.krolak@dot.gov	Project No: TPF 5 (202)	Project is: <input type="checkbox"/> PLANNING <input checked="" type="checkbox"/> R&D
Reporting Period: FY 2011, first quarter (Oct - Dec)	Multi Year Project Yes	
Description of Work Performed and Progress: Work continued on Task 2 – Enhance Source Code Efficiencies: <ul style="list-style-type: none"> • Resized analysis code arrays to appropriate sizes. • Modified code so all arrays are zero-based (instead of one-based). • Reviewed all code and proposed improvements. • Provided flow charts illustrating logic underlying computational subroutines. Effort anticipated in next quarter: <ul style="list-style-type: none"> • Complete Task 2 efforts: <ul style="list-style-type: none"> ○ Refactor water-surface profile computation codes to simplify the functions and make them easier to understand. ○ Rewrite several computation subroutines to enhance efficiency. • Outline logic and “pseudo code” for Task 4 – Hydraulic Jump Code Implementation. • Outline logic for Task 7 – Horizontal Culvert Barrels. • Outline logic for Task 8 – Adversely Sloped Barrels. Interim version available at: http://www.fhwa.dot.gov/engineering/hydraulics/software/hy8/ Links to most recent “test” versions of the HY-8 software available upon request. However, these are NOT for any design or production use! Finally, Brian Beucler (brian.buecler@dot.gov) and Eric Brown (eric.r.brown@dot.gov) will be taking over project manager responsibilities. They will ensure more timely reports and outreach to the partners.		
STATUS AND COMPLETION DATE Percentage of work completed to date for total project Project is: 20% <input type="checkbox"/> on schedule <input checked="" type="checkbox"/> behind schedule, explain: <ul style="list-style-type: none"> • Acquisition process took much longer than expected. Awarded in September 2010. • Not all \$\$ commitments have been received from partners. This delays progress. Expected Completion Date: Summer 2012		