

| Updated 5/8/2015 |   |   |                         | Start Date  |            | End Date    |        | Most Recent Quarterly Report Date = 4/1/2015  |               | Spent Burdget (as of most recent) |                 | Progress (as of most recent) |        | Progress Broken Down by Task   |
|------------------|---|---|-------------------------|-------------|------------|-------------|--------|---|---------------|-----------------------------------|-----------------|------------------------------|--------|--|
| Project Number   | Project Name  | PI  | Contract Execution Date | Anticipated | Actual     | Anticipated | Actual | Reasons for variations  | Total Budget  | Anticipated                       | Actual Invoiced | Anticipated                  | Actual |  |
| 06-4             | Preventative Maintenance and Timing of Applications   | Wala S. Mogawer, Umass                              | 8/21/2013               | 9/16/2013   | 9/16/2013  | 9/15/2016   | TBD    | NOTE: No Cost Extension was requested and approved by the Technical and Advisory Committee. New end date is 9/15/16. Old end date was 9/15/15.<br>4/2015 - Research Team is awaiting completed surveys (Task 3&4) from state DOTs before moving to Task 5&6.  | \$ 242,909.00 | \$ 124,671.10                     | \$ 27,045.53    | 51%                          | 11%    | Task 1: Kick-Off Meeting (100%)<br>Task 2: Literature Review (30%)<br>Task 3: Internet Survey (70%)<br>Task 4: Assess Current Preventive Maintenance (PM) Practices in New England States (0%)<br>Task 5: Development of Pavement Preventive Maintenance Procedures for New England (0%)<br>Task 6: Laboratory and Field Testing (10%)<br>Task 7: Determination of Feedback Mechanism (0%)<br>Task 8: Development of Pavement Preventive Maintenance (PPM) Manual (0%)<br>Task 9: Training (0%)<br>Task 10: Preparation of the Final Report (0%)   |
| 07-1             | In-Place Response Mechanisms of Recycled Layers Due to Temperature and Moisture Variations  | Jo Sias Daniel, UNH                                 | 7/23/2013               | 7/1/2013    | 7/23/2013  | 3/31/2016   | TBD    | 1. The PI originally listed a Project End Date beyond 4/2/16, which is the end date of UVM's contract to Coordinate NETC. The contract and proposal had to be revised accordingly.  | \$ 198,154.00 | \$ 124,502.05                     | \$ 95,348.99    | 63%                          | 48%    | Task 1: Conduct Survey and Identify Potential Test Sites (100%)<br>Task 2: Select Test Sites and Develop Work Plan (100%)<br>Task 3: Execution of Work Plan (80%)<br>Task 4: Data Analysis (25%)<br>Task 5: Final Report (0%)  |
| 09-2             | Effective Establishment of Native Grasses on Roadsides  | Julia Kuzovkina, Uconn                              | 10/16/2013              | 9/1/2013    | 10/16/2013 | 2/28/2016   | TBD    | 1. Uconn requested some revisions to the contractual language with respect to final financial reporting and insurance requirements.   | \$ 80,000.00  | \$ 49,202.31                      | \$ 19,282.98    | 62%                          | 24%    | Task 1: Literature Review (30%)<br>Task 2: Interviews (85%)<br>Task 3: Field Inspections/Testing (50%)<br>a. Select a suite of native grasses with the most potential for roadside establishment in New England<br>b. Develop effective establishment protocols through modification of existing approaches<br>Refinement of previously developed protocols<br>Establishments of the demonstration plots<br>c. Evaluate native grass tolerances and potential for degradation of roadside contaminants<br>Final Task: Publication of a Manual  |
| 09-3             | Advanced Composite Materials: Prototype Development and Demonstration   | Roberto Lopez-Anido, UMaine                         | 10/14/2013              | 9/1/2013    | 9/25/2013  | 8/31/2015   | TBD    | 1. Umaine requested some revisions to the contractual language with respect to insurance requirements (and some other minor requests) 3/2015 - looking for other bridge drains to inspect - if none found, will ask for NCE to finish the report (TC will meet again in May to decide)  | \$ 165,000.00 | \$ 129,425.53                     | \$ 107,748.37   | 78%                          | 65%    | Task 1: Conduct review of typical bridge drain details that are representative in New England. (99%)<br>Task 2: Develop standard drain requirements for new and rehabilitation projects (99%)<br>Task 3: Identify and contact FRP composite manufacturers (100%)<br>Task 4: Identify two or three bridges being constructed within New England where the FRP standard drains can be used. (80%)<br>Task 5: Coordinate with field personnel at each of the bridge sites selected and document the installation (5%)<br>Task 6: Document the FRP drain initial condition after installation (60%)<br>Task 7: Prepare a final project report highlighting the outcomes of the research (50%)  |
| 10-3             | Low Temperature and Moisture Susceptibility of RAP Mixtures with Warm Mix Technology  | Wala S. Mogawer, UmassD                             | 8/21/2013               | 9/16/2013   | 9/16/2013  | 9/15/2015   | TBD    | NOTE: No Cost Extension has been requested, and is currently being reviewed by the Technical Committee.   | \$ 150,158.00 | \$ 115,759.67                     | \$ 28,449.28    | 77%                          | 19%    | Task 1: Literature Review (70%)<br>Task 2: Determine Critical Information (50%)<br>Task 3: WMA Technologies Selection Process (50%)<br>Task 4: Identify Moisture Susceptibility Test (25%)<br>Task 5: Development of a Testing Matrix (60%)<br>Task 6: Obtain Plant Produced Samples (15%)<br>Task 7: Laboratory Testing of Plant Produced Samples (0%)<br>Task 8: Prepare a Final Report (0%)<br>Task 9: Execute Implementation Plan (0%)   |
| 13-1             | Development of High-Early Strength Concrete for Accelerated Bridge Construction Closure Pour Connections                          | Sergio F. Breña University of Massachusetts Amherst | 8/18/2014               | 9/1/2014    | 9/1/2014   | 8/31/2016   | TBD    | The proposed project period was for 24 months. However, the NETC Coordinator's contract was set to end 4/2/16. We needed a No Cost Extension to the NETC Coordinator's Contract so that we could extend the research subawards to their actual end date (24 month project). This NCE was received and processed in Jan/Feb 2015.  | \$ 174,923.00 | \$ 50,799.56                      | \$ 24,294.21    | 29%                          | 14%    | Task 1: Literature Search – 85% complete<br>Task 2: Develop Mixture Design Specification – 35%<br>Task 3: Develop Mix Design – Work for this task has not started (10%)<br>Task 4: Test Mixture – Work for this task has not started (0%)  |
| 13-2             | HMA Mixtures Containing Recycled Asphalt Shingles (RAS): Low Temperature and Fatigue Performance of Plant-Produced Mixtures       | Wala S. Mogawer, UmassD                             | 7/21/2014               | 6/1/2014    | 7/21/2014  | 5/31/2016   | TBD    | 7/21/14 was the date the research contract with the PI was signed. The proposed project period was for 24 months. However, the NETC Coordinator's contract was set to end 4/2/16. We needed a No Cost Extension to the NETC Coordinator's Contract so that we could extend the research subawards to their actual end date (24 month project). This NCE was received and processed in Jan/Feb 2015. | \$ 249,785.00 | \$ 93,302.04                      | \$ -            | 37%                          | 0%     | Task 1: Kick-Off Meeting (0%)<br>Task 2: Literature Review (0%)<br>Task 3: Determine Critical RAS Information (0%)<br>Task 4: Determine Regional Asphalt Mixture Producers in New England with Capabilities and Willingness to Produce Mixtures Incorporating RAS for this Study (15%)<br>Task 5: Assist Producers in Evaluating the Properties of the RAS and RAP to be used in Production (0%)<br>Task 6: Assist Producers in Developing Laboratory Mixture Designs Utilizing RAS and Determine Actual RAS Binder Contribution to Mixtures (0%)<br>Task 7: Produce and Obtain Plant Produced RAS Mixtures (0%)<br>Task 8: Vary Production Parameters (Temperatures, Silo Storage, etc.) to Obtain Similar Virgin and RAS Mixtures (0%)<br>Task 9: Construct Test Matrix and Evaluate the Performance of the Plant-Produced Mixtures (0%)<br>Task 10: Identify Critical Material Properties and Plant Operations that Yield RAS Mixtures with Performance Properties Equivalent to Typical All-Virgin Material Mixtures (0%)<br>Task 11: Develop a Plant Guideline for the Use of RAS in Virgin and RAP Mixes (0%)<br>Task 12: Prepare a Final Report (0%)<br>Task 13: Execute Implementation Plan (0%) |
| 13-3             | Improved Regionalization of Quality Assurance (QA) Functions  | Eshan Dave, UNH                                     | 3/4/2015                | 12/1/2014   | 3/27/2015  | 3/31/2016   | TBD    | Contract Amended 3/27/15 change PI and extend end-date.<br>Kick-off meeting being planned   | \$ 100,000.00 | \$ 1,351.35                       | \$ -            | 1%                           | 0%     | Task 1: State of the Practice Review (0%)<br>Task 2: Development of Common Acceptance Standards for PCE/PSE (0%)<br>Task 3: Reporting and Technical Committee Meetings (0%)  |
| 14-1             | Measuring the Effectiveness of Competency Models for Job-Specific Professional Development of Engineers & Engineering Technicians | Christopher Ahmadjian, Umass Amherst                | New Project             |             |            |             |        |   | \$ 100,000.00 | \$ -                              | \$ -            |                              | 0%     | Contract being executed with PI (final documents sent to UMASS for Signature)  |
| 14-2             | Investigation of Northern Long-Eared Bat Roosting Sites on Bridges  | Scott Civjan, Umass Amherst                         | 5/6/2015                | 2/1/2015    |            | 4/2/2016    | TBD    | Contract fully executed 5/6/15. PI working with Technical Committee to set Kick-off meeting date  | \$ 205,554.00 | \$ -                              | \$ -            |                              | 0%     | Task 1: Knowledge Summary including Literature Search<br>Task 2: Regional Habitat Requirements<br>Task 3: Create Standard Protocol and Survey Inspection Personnel<br>Task 4: Protocol Survey of Bridges, Implementation and Field Observations<br>Task 5: Final Report  |
| 14-4             | Optimizing future work zones in New England for safety  | TBD   | New Project             |             |            |             |        |   | \$ 200,000.00 | \$ -                              | \$ -            |                              | 0%     | AC approved Scope of Work. RFP distributed - deadline 4/17/15. Technical Committee reviews due 5/11/15   |

Note: Highlighted boxes are used to demonstrate which projects are either behind schedule or over budget. Keep in mind that the "Anticipated" columns are calculated by dividing the days the project has been open by the total length of the project. Seeing as some project schedules and budgets are either front loaded or end loaded, these estimates are not always accurate. If a box is highlighted, the PI has been contacted and asked to explain the deviation in more detail to ensure we stay on track.