**Federal Contract # DTFH61-17D00001 – Task Order #1**

**LONG-TERM BRIDGE PERFORMANCE PROGRAM**

PROGRESS REPORT NO. 12

Report Period: September 1, 2018 – September 30, 2018

Prepared For:

**Federal Highway Administration**

Prepared By:



**A. Account of work performed in this period**

* 1. **Coordination and Meetings Between the Contractor, FHWA LTBP Team, and State Highway Departments**

The Rutgers team had a few correspondences with the FHWA team over the phone or by email.

Program Manager: 10 hours

* 1. **Data Gap Analysis**

The Data Gap Analysis group accomplished the following tasks for the month of September:

* The primary focus of the group for this period was the identification and analysis of gaps in the areas of treated bridge decks and bridge bearings.
* For the area of treated bridge deck gaps, the biggest issue identified was the lack of any data or documentation collected for bridges with treated decks. The following areas are likely to have data gaps in based off of our investigation:
  + Lack of functionally data
  + Lack of cost data
  + Lack live load data
  + Lack of construction related data
  + Lack of maintenance and preservation data
* For the area of bridge bearing data gaps, the following gaps were identified:
  + Maintenance and preservation data
  + Construction-related data
  + Live load data
  + Cost data
  + Lack of inspection protocols bearings other than elastomeric and rocker
  + Lack of modern tools used during inspection
* A detailed explanation of each of the data gap subsections identified above was written and included in the updated data gap analysis report which includes data gaps relating to treated bridge decks and bridge bearings.
* Recommendations for solutions for all identified data gaps were also written and will be included in the submitted report.
* All other sections from the previously submitted May 2018 interim report have been reviewed and updated as needed.

Co-PI: 45.5 hours

Program Manager: 8 hours

Project Engineer: 37.5 hours

Staff Engineer: 30.0 hours

Technician: 46.07

Project Support: 5 hours

* 1. **Communication**

The Rutgers team prepared the electronic version of the monthly progress report and submitted it to FHWA. Moreover, the Rutgers team updated the MS Project file showing the project milestone and submitted it to FHWA.

Co-PI: 10 hours

Project Support: 17.5 hours

**B. Work to be accomplished during the next period**

* 1. **Coordination and Meetings Between the Contractor, FHWA LTBP Team, and State Highway Departments**

The Rutgers team will meet with reach out to FHWA to set up a meeting for the month of August.

* 1. **Data Gap Analysis**

Work in October is anticipated to focus on maintenance data collection.

* 1. **Communication**

The Rutgers team will prepare the electronic version of the monthly progress report and will submit it to FHWA. Moreover, the Rutgers team will submit the updated MS Project file to FHWA.

**C. Problems/Recommended Solutions**

No problems encountered during this period.

**D. How the results of the work performed supports one or more of the FHWA, DOT and LTBP Goals**

All of the work conducted under this task order aims to ensure that the LTBP program collects the data required to realize the following four use cases: (1) Advance research in bridge deterioration and predictive modeling, (2) Advance research in cost analysis, (3) Support improved bridge design methods, and (4) Quantify the effectiveness of bridge maintenance, preservation, repair, and rehabilitation strategies. These use cases encapsulate the overarching goals of the LTBP program and its vision for positively impacting the practice of bridge engineering.

**E. Purchases and Rentals**

Nothing was purchased or rented during this period.

**F. Travel Details for Reporting Period**

None.

**G. Current and Cumulative Expenditures (cost shown includes benefits and overhead)**

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| --- | --- | --- |
| **Institution** | **Current Expenditures**  **9/1/2018 – 9/30/2018** | **Cumulative Expenditures**  **10/1/2017 – 9/30/2018** |
| Rutgers, the State University of New Jersey | $ 11,634.00 | $ 302,664.12 |
| Bridge Intelligence LLC | $ 7,215.00 | $ 27,670.53 |
| New Jersey Institute of Technology | $ 3,178.83 | $ 60,499.49 |

**H. Subcontractor’s Progress Report**