

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

**LONG-TERM BRIDGE PERFORMANCE PROGRAM**

PROGRESS REPORT NO. 13

Report Period: October 1, 2018 – October 31, 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. Furthermore, the Rutgers team had a web conference meeting with Dr. Zobel on October 31st.

Program Manager: 10 hours

### **2. Data Gap Analysis**

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

- All new data gaps identified for treated bridge decks have been added to the updated data gap analysis report. The following sections were added:
  - Lack of functionally data
  - Lack of cost data
  - Lack of live load data
  - Lack of construction related data
  - Lack of maintenance and preservation data
- All new data gaps identified for bridge bearings have been added to the updated data gap analysis report. The following sections were added:
  - 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

Technician: 83.82

### **3. 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.

Program Manager: 12 hours

Project Support: 9 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 November.

**2. Data Gap Analysis**

Work in November is anticipated to focus on maintenance data collection and analysis.

**3. 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)**

<b>Institution</b>	<b>Current Expenditures 1/1/2018 – 1/31/2018</b>	<b>Cumulative Expenditures 10/1/2017 – 10/31/2018</b>
Rutgers, the State University of New Jersey	\$ 3,859.00	\$ 306,523.12
Bridge Intelligence LLC	-	\$ 27,670.53
New Jersey Institute of Technology	\$ 5,783.58	\$ 66,283.07



## **H. Subcontractor's Progress Report**



**Sub-recipient Name:** New Jersey Institute of Technology

**Subaward No:** 00000290

**Principal Investigator:** Matthew P. Adams

**LTBP TSSC – Task Order 1**

**Federal Contract # DTFH61-17-D00001**

For the Period from 10/1/2018 through 10/30/2018

## A. Accomplishments/Work Performed

The following is a complete account of all accomplishments and work performed on each task during this reporting period.

### Task 2 Data Gap Analysis

NJIT continued assisting on identifying research and data gaps in the literature with a focus on preservation from deterioration mechanism, maintenance policies, construction data, environmental data, and performance metrics. Input and output parameters were further refined from previous months.

Number of hours during this period: 46 hours

## B. Work Anticipated During the Next Period

For the next period, the team at NJIT will continue to assist and work on directed documents as directed by Rutgers and FHWA.

## C. Changes /Problems

None.

## D. Participants & charged Level of Efforts

Personnel Name	Role/Contribution	Total Hours	Billed Cost
Aaron Strand	Technician	83.8	\$69/hour



E. Travel

None.