

Quarterly Report – Public Page

Date of Report: *October 1, 2019*

Agreement No.: *693JK31810011*

Prepared for: *Government Agency: DOT*

Project Title: *River Scour Monitoring System for Pipeline Threat Prevention*

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For quarterly period ending: *September 30, 2019*

Progress to date:

Background studies on vortex-induced vibrations are currently being conducted. One of the project goals is to understand and determine the length of free-span that would make a given pipeline susceptible to vortex-induced vibration through finite element modeling. This task spans from Q1 to Q4.

The desktop software/website Version 2.0 was completed and submitted to the PHMSA Technical Manager for review. The software has been tested and is field ready.

The system upgrade Version 3.0 was completed and submitted to the PHMSA Technical Manager for review. These improvements will be reflected in the field units.

Several logistics site planning trips and meetings with Enbridge Pipelines were done regarding the first installation site across the Elk River, Kansas. We are finalizing the final permits for this site and have schedule two installations at this site for the first two weeks of October. Two RSS units will be installed at this site to compare two pipelines; one that is buried and one that is exposed. This will provide an excellent initial validation of the RSS units.

The project is currently slightly behind schedule due to the permitting delays; however, we anticipate moving forward quickly once these have been resolved and the installations occur.