

Quarterly Report – Public Page

Date of Report: *January 27, 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: *December 31, 2018*

Progress to date:

The Project Kickoff meeting was held on October 18, 2018 via teleconference and was attended by project team members and the Agreement Officer's Technical Representative (AOTR) assigned to this project. The meeting was an introduction to the project team followed by a presentation of project status, goals, and objectives.

Preliminary background studies on vortex-induced vibrations are currently underway. 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.

Second iteration CAD design files and board schematics of the River Scour Monitoring System were completed and submitted to the PHMSA Technical Manager for review. These are confidential and thus were not uploaded onto the project website.

The project is currently on schedule with manufacturing of the five (5) prototype River Scour Monitoring Systems scheduled to be completed during Q2. The first field installation at a site along the South Saskatchewan River in Alberta is expected to occur in early Q3 as per the project schedule.