Quarterly Report – Public Page

Date of Report: *4th Quarterly Report, September 29, 2023*
Contract Number: *693JK32210001POTA*
Prepared for: *Government Agency: DOT and Co-funders*
Project Title: *Developing Corrosion Control Monitoring Technology for Hazardous Liquid Breakout Tanks*
Prepared by: *Pipeline Research Council International, Inc.*
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For quarterly period ending: *September 30, 2023*

1: Items Completed During this Quarterly Period:

Item #	***Task #***	***Activity/Deliverable***	***Title***	***Federal Cost***	***Cost Share***
14	*5*	*Quarterly Project Management & Status Update Reporting*	*Submit 4th quarterly report*	*$7,016*	*$7,016*

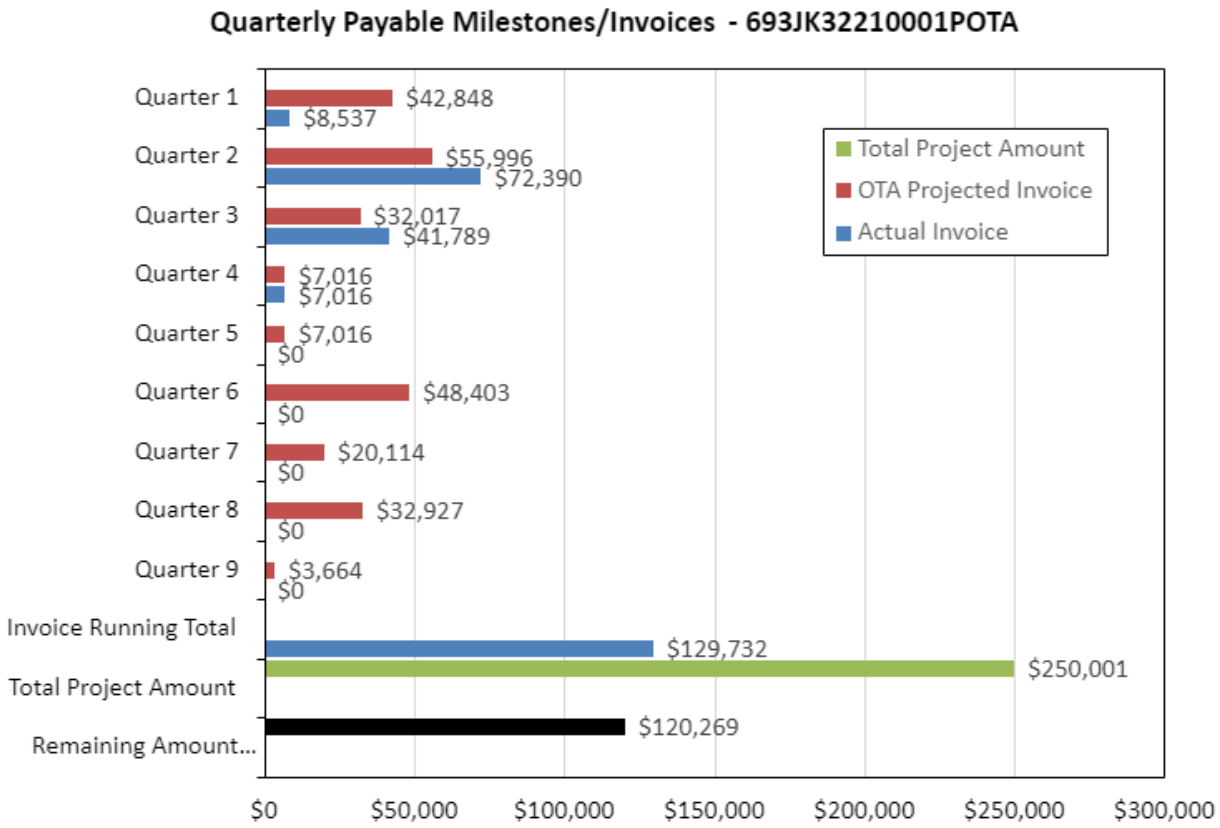
2: Items Not Completed During this Quarterly Period:

The following item from the second quarter has not yet been completed. It was erroneously stated in the second quarter report that Item 9, Task 4 has been completed; this task has been mostly completed. All four laboratory-scale experiments have been started, and one of the two large-scale experiments has been started. The second large-scale experiment will be started in the next quarter.

Item #	***Task #***	***Activity/Deliverable***	***Title***	***Federal Cost***	***Cost Share***
9	*4*	*Start of the laboratory experiments and large-scale control experiments*	*Details of the laboratory and large-scale control experiments during the second quarter will be included in the quarterly report*	*$8,144*	*$8,144*

3: Project Financial Tracking During this Quarterly Period:

Note that this chart reflects Federal share only.



4: Project Technical Status:

Item 14, Task 5 — Quarterly Project Management & Status Update Reporting, Submit 4th quarterly report: The 4th quarter project meeting was held on September 20, 2023. This item has been completed. This item links to items 10 and 12 in Attachment 1 Team Project Activities. This item also links to item 10 in Attachment 2 Project Deliverables.

5: Project Schedule:

Item 9, Task 4 — Start of the field testing, laboratory experiments, and large-scale control experiments, Details of the laboratory and large-scale control experiments during the second quarter will be included in the quarterly report: Four laboratory scale experiments have been started; these experiments are being conducted to determine the VCI reinjection interval. In each of the two experiments, a 3-ft long and 5.5 inch ID tube is filled with field sand, one end of the tube will be used to inject VCIs, and the VCIs will be allowed to escape from other end. ER probes are being used to monitor the change in corrosion rates; the corrosion rate change data will be used to develop a criterion for VCI injection. One of the two large-scale experiment was started, and the second one will be started in the next quarter. The delay in starting the second experiment occurred because of sand getting wet during its transportation. The sand

moisture content needs to be controlled to be able to study VCI migration in a controlled environment. Because of sand getting wet, it was necessary to dry it before starting the experiment. The sand is being dried in batches, and the drying process should complete in the next couple of weeks. This item links to items 7 and 8 in Attachment 1 Team Project Activities. This item links to item 6 in Attachment 2 Project Deliverables.

The project is behind schedule because of delay in starting the large-scale experiments. The delay predominantly occurred due to procurement of materials and supplies needed for the large-scale experiments.