

AQRP Monthly Technical Report

PROJECT TITLE	Improving Emission Rates Estimates of Commercial Marine Vessels	PROJECT #	24-003
PROJECT PARTICIPANTS	University of Houston, Ramboll, FluxSense	DATE SUBMITTED	03/10/2025
REPORTING PERIOD	From: 02/01/2025 To: 02/28/2025	REPORT #	7

A Financial Status Report (FSR) and Invoice will be submitted separately from each of the Project Participants reflecting charges for this Reporting Period. I understand that the FSR and Invoice are due to the AQRP by the 15th of the month following the reporting period shown above.

Detailed Accomplishments by Task for reporting period

- FluxSense personnel and instruments arrive in early February. The initial setup of the instrument was made at the University of Houston (UH) warehouse.
- UH finalized instrumentation and network setup.
- UH was trained in how to operate FluxSense's Mobile extractive Differential Optical Absorption Spectroscopy (MeDOAS) and Mobile extractive Fourier Transform Infra-Red (MeFTIR) instruments.
- Received canisters from Desert Research Institute (DRI).
- Deployed the UH boat on February 14, 2025. Final UH and FluxSense instruments installations were made once the boat was in the water.
- The boat will be housed at the Bayland Marina in Baytown during the campaign.
- Began collecting data both stationary and non-stationary while at the marina and in Galveston Bay.
 - Non-stationary days in February: 2/17, 2/24, and 2/26.



Preliminary Analysis

None

Data Collected

Yes

Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

No major problem encountered

Goals and Anticipated Issues for the Succeeding Reporting Period

- Continue to sample during favorable conditions.

Detailed Analysis of the Progress of the Task Order to Date

None

Do you have any publications related to this project currently under development? If so, please provide a working title, and the journals you plan to submit to.

Yes No

Do you have any publications related to this project currently under review by a journal? If so, what is the working title and the journal name? Have you sent a copy of the article to your AQRP Project Manager and your TCEQ Liaison?

Yes No

Do you have any bibliographic publications (ie: publications that cite the project) related to this project that have been published? If so, please list the reference information. List all items for the lifetime of the project.

Yes No

Do you have any presentations related to this project currently under development? If so, please provide working title, and the conference you plan to present it (this does not include presentations for the AQRP Workshop).

Yes No

Do you have any presentations related to this project that have been published? If so, please list reference information. List all items for the lifetime of the project.

Yes No

Have any personnel changes occurred that were not listed in the original proposal? If so, please include a detailed description of the personnel change(s) below.

Yes No

Are any delays expected in the progress of the research? If so, please include a detailed description of the potential delay below.

Yes No

Describe any possible concerns/issues (technical or non-technical) that AQRP should be made aware of.

N/A

Are you anticipating using all the available funds allocated to this project by the end date? If not, why and approximately what is the amount to be returned?

Yes No

Submitted to AQRP by
James Flynn