

AQRP Monthly Technical Report

PROJECT TITLE	Dallas Field Study (DFS); Ozone Precursors, Local Sources and Remote Transport Including Biomass Burning	PROJECT #	22-010
PROJECT PARTICIPANTS	Dr. Ed Fortner PI	DATE SUBMITTED	03/10/2023
REPORTING PERIOD	From: 2/01/2023 To: 2/28/2023	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

Task 2: Base Site Selection:

The Fort Worth Northwest Site owned by TCEQ at the Meachum field airport continues to be the primary choice for the base site location. A major accomplishment during the month of February was an upgrade to the electrical infrastructure to accommodate both the Aerodyne Mobile Laboratory (AML) and the Baylor trailer which will be operating there as part of project 22-006. The site access agreement for this location has been drafted with the inputs of Vince Torres and RoseAnna Goewey (TX AQRP), Ed Fortner Aerodyne Research Incorporated and Dakota Shaw at Fort Worth Meachum Field. This document has been sent to officials in the city government of Fort Worth for their approval. Considering that this document may not be approved by the time that measurements are scheduled to begin (Apr 2) alternative base location plans are being established. The Fort Worth RV Park at 5319 Rueben Lane Fort Worth TX is being discussed as a preferred RV park location if it becomes necessary to locate somewhere other than the Meachum Field Site. Communications with the RV park have begun and the necessary reservations will be executed within the next week (03/13 – 03/17) unless the Meachum Field Site obtains approval by that time. Other RV parks are also being considered as well as the possibility of shifting intensive measurement timing slightly (one to two weeks) in order to give more time for the approval of the access agreement at Meachum Field.

Task 3: Campaign Planning:

The field staffing plan has been completed, all positions are filled, and date commitments have been made. The measurement intensive dates are being planned for Apr 3 – 23. Lodging (refundable) has been booked by members of the measurement intensive team and flights will be booked within the next week. Regarding the option of slightly shifting the timing of the campaign while this could be done if necessary, it presents some staffing issues and so this would be the last base sighting option to consider if Meachum Field and RV parks in the area are unavailable. Flights will not be booked until a base sighting location for the AML at the appropriate time is established.

The necessary ordering of calibration equipment has occurred to ensure its availability for the measurement campaign.

Task 4: Instrument Integration

Instruments are currently being integrated into the AML at Aerodyne and will continue to be optimized over the next 2 ½ weeks at Aerodyne.

Preliminary Analysis

N/A

Data Collected

N/A

Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

As discussed above in tasks 2 and 3 the site access to Meachum Field is being worked through and this has major implications. Solutions are discussed within tasks 2 and 3 above.

Goals and Anticipated Issues for the Succeeding Reporting Period

The successful execution of a site agreement at Meachum Field is an important goal for the month of March. The AML will be completely integrated during the next 2 ½ weeks and transport to Texas will occur starting March 30.

Detailed Analysis of the Progress of the Task Order to Date

Issues are discussed above regarding tasks 2 and 3. Task 4 is proceeding on schedule.

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 AQR 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.

No new concerns or issues.

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

Dr. Ed Fortner, PI