

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	12/11/2022
REPORTING PERIOD	From: 11/01/2022 To: 11/31/2022	REPORT #	4

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:

Progress is being made regarding preparing the Fort Worth Northwest Site owned by TCEQ at the Meachum field airport for base staging by the Aerodyne Mobile Laboratory (AML) during the campaign intensive. The two primary issues at this time are executing a legal agreement with Meachum Field for site access and improving/updating electrical infrastructure at the site to accommodate both the AML and the Baylor trailer sampling platform (AQRP project 22-006) Currently Vince Torres and RoseAnna Goewey (TX AQRP) are coordinating with the airport manager Dakota Shaw at Fort Worth Meachum Field regarding the site access agreement and it is anticipated that should be completed around the end of January which is approximately 8 weeks prior to the preferred arrival time for the intensive measurement. Dr. Sascha Usenko at Baylor University has been coordinating with a local electrical company to conduct necessary electrical upgrades at the Fort Worth Northwest Site. This company is expected to perform on-site work this coming week (Dec. 12 – 16).

Task 3: Campaign Planning:

The field staffing plan is coming together with most positions filled for the campaign and efforts continue to finish the staffing plan. Some personnel will be on-site for the entire campaign while others will be split into first and second half crews. The AML and key instrument availability has been scheduled for the time period of late March - April with May considered to be an alternate measurement month if needed. A two-week integration plan at Aerodyne is scheduled to occur prior to the deployment of the Aerodyne Mobile Laboratory. The necessary ordering of calibration equipment is also occurring to ensure its availability for the measurement campaign.

Preliminary Analysis

N/A

Data Collected

N/A

Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

No problems identified yet.

Goals and Anticipated Issues for the Succeeding Reporting Period

Progressing on the Northwest site electrical needs continues to be a priority over the next few weeks. Issues which may arise here will be a point of focus for both the 22-006 and the 22-010 projects.

Detailed Analysis of the Progress of the Task Order to Date

Tasks 2 and 3 are proceeding on schedule at this point.

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.

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