

# AQRP Monthly Technical Report

<b>PROJECT TITLE</b>	<i>Evaluating the Ability of Statistical and Photochemical Models to Capture the Impacts of Biomass Burning Smoke on Urban Air Quality in Texas</i>	<b>PROJECT #</b>	22-003
<b>PROJECT PARTICIPANTS</b>	Matthew Alvarado, Jen Hegarty, Rick Pernak	<b>DATE SUBMITTED</b>	12-13-2022
<b>REPORTING PERIOD</b>	<b>From:</b> November 1, 2022 <b>To:</b> November 30, 2022	<b>REPORT #</b>	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 15<sup>th</sup> of the month following the reporting period shown above.

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## Detailed Accomplishments by Task for reporting period

Continued STILT footprint modeling. Continued gathering HMS smoke and fire data and translating it into GAMM predictors.

## Preliminary Analysis

None to date.

## Data Collected

None to date.

## Identify Any Problems or Issues Encountered and Proposed Solutions or Adjustments

None to date.

## Goals and Anticipated Issues for the Succeeding Reporting Period

The following project tasks are expected to continue in the next reporting period.

- Compile meteorological and fire predictors into single dataset (Task 1).
- Gather and evaluate CAMx output from TCEQ (Task 2).

## Detailed Analysis of the Progress of the Task Order to Date

Completed initial drafts of Work Plan and QAPP. Held project kickoff. Started work on STILT analyses and gathering data for GAMM studies.

**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.**

None

**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  
Matthew J. Alvarado