

# AQRP Monthly Technical Report

|                             |   |                       |           |
|-----------------------------|---|-----------------------|-----------|
| <b>PROJECT TITLE</b>        | Texas Urban Vegetation BVOC Emission Source Inventory | <b>PROJECT #</b>      | 20-007    |
| <b>PROJECT PARTICIPANTS</b> | Ramboll<br>Alex Guenther<br>Wildland Solutions        | <b>DATE SUBMITTED</b> | 7/14/2021 |
| <b>REPORTING PERIOD</b>     | <b>From:</b> June 1, 2021<br><b>To:</b> June 30, 2021 | <b>REPORT #</b>       | 12        |

A Financial Status Report (FSR) and Invoice will be submitted separately from each of the Project Participants reflecting charges for this Reporting Period. No activity was conducted by Wildland Solutions in June, so this report doesn't indicate any work performed by them. 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

*Task 1: High Resolution (8-day, 10-m) LAI and Vegetation Cover Fraction for Urban Texas*  
No work was performed on Task 1 during June 2021.

*Task 2. BVOC Emitting Tree Distributions for Three Major Texas Urban Areas*  
No work was performed on Task 2 during June 2021.

*Task 3. MEGAN and BEIS input data, processors and results*  
We did test runs and checked outputs of new python-based emission factor processor that integrates vegetation cover data and emission factor data to generate landscape average emission factors. We began processing of urban LAI data to integrate them with 2019 global LAI data for MEGAN.

*Task 4: Project Reporting and Presentation*  
Ramboll developed May MTR and FSR and submitted to AQRP.

## Preliminary Analysis

None.

## Data Collected

None.

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

None.

## Goals and Anticipated Issues for the Succeeding Reporting Period

Complete MEGAN and BEIS sensitivity testing under Task 3. Complete draft report. Prepare PowerPoint presentation summarizing project results for the AQRP Meeting in August.

**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.**

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

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Submitted to AQRP by      Tejas Shah

Principal Investigator      Tejas Shah