AQRP Monthly Technical Report

PROJECT TITLE	A Next Generation Modelling System for Estimating Texas Biogenic VOC Emissions	PROJECT #	16-011
PROJECT PARTICIPANTS	Ramboll Environ Alex Guenther	DATE SUBMITTED	08/08/2017
REPORTING PERIOD	From: July 1, 2017 To: July 31, 2017	REPORT #	9

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

Task 1: Development and Application of a Transparent Approach for Estimating BVOC Emission Factor Distributions

Ramboll Environ incorporated the latest emissions input data from Dr. Guenther into the EF processor and evaluated results from the EF processor. Ramboll Environ assisted Dr. Guenther assessing gaps in the EF output and made minor updates to the EF processor source code.

Task 2: Emission Factor Development

No work was performed on Task 2 during July, 2017.

Task 3: Development of MEGAN3

Dr. Guenther and Ramboll Environ completed evaluation and assessment of the MEGAN code and continued writing documentation for code and inputs.

Task 4: MEGAN Evaluation and Sensitivity Study

Dr. Guenther and Ramboll Environ completed evaluation of MEGAN3 emissions against aircraft flux data from the 2013 Southeast Atmosphere Study (SAS) and comparison with two other MEGAN emission inventories. Ramboll Environ carried out photochemical modeling of the June 1-July 15, 2013 period that encompassed all of the SAS C-130 and P-3 aircraft flights using MEGAN3 emission inventories using different J-rating criteria and without stress factors. Model performance was evaluated against surface data and SAS aircraft data.

Task 5: Project Management and Reporting

This task is ongoing. Dr. Guenther and Ramboll Environ continued work on the draft final report and prepared a presentation for the August AQRP Meeting.

Preliminary Analysis

None.

Data Collected

None.

Identify Problems or Issues Encountered and Proposed Solutions or Adjustments None.

Goals and Anticipated Issues for the Succeeding Reporting Period

Revise the draft report in response to comments from the AQRP Project Manager and the TCEQ and submit the final report.

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 x 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?

Do you have any bibliographic publications 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 ___x_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 ___x_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 ___x_No

Submitted to AQRP by Principal Investigator Sue Kemball-Cook Sue Kemball-Cook