# **AQRP Monthly Technical Report**

PROJECT TITLE	Quantifying Ozone Production from Light Alkenes Using Novel Measurements of Hydroxynitrate Reaction Products in Houston	PROJECT #	14-026
PROJECT PARTICIPANTS	Dr. Tom Ryerson (NOAA) Dr. Greg Yarwood (ENVIRON) Dr. David Parrish	DATE SUBMITTED	1/8/2015
REPORTING PERIOD	From: December 1, 2014   To: December 31, 2014	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 15<sup>th</sup> of the month following the reporting period shown above.

# **Detailed Accomplishments by Task**

- The hydroxynitrate data have been downloaded from the SEAC<sup>4</sup>RS data archive, and Tasks 1 and 2 (review alkene hydroxynitrate measurements, and analyze in context of other measurements) have been initiated.
- The kinetics scheme, which will under-pin both the data analysis (Tasks 1 and 2) and the modeling (Task 3), for the HRVOC chemistry has been revised in response to comments from collaborators. This scheme likely will evolve further.

# **Preliminary Analysis**

# **Data Collected**

# Identify Problems or Issues Encountered and Proposed Solutions or Adjustments

# **Goals and Anticipated Issues for the Succeeding Reporting Period**

- Finalize the kinetics scheme.
- Complete Task 1.
- The SEAC<sup>4</sup>RS data archive will be interrogated to derive the meteorological and chemical information needed to initiate the modeling, which comprises Task 3.
- Move forward with Task 2.

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

Submitted to AQRP by: Greg Yarwood

Principal Investigator: Tom Ryerson