# **AQRP** Monthly Technical Report

PROJECT TITLE	Spatial and temporal resolution of primary and secondary particulate matter in Houston during DISCOVER-AQ	PROJECT #	14-029
PROJECT PARTICIPANTS	Rebecca J. Sheesley Sascha Usenko	DATE SUBMITTED	10/8/2014
REPORTING PERIOD	From:September 1, 2014To:September 30, 2014	REPORT #	2

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.

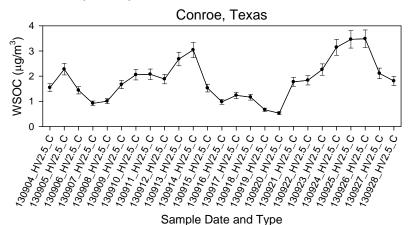
# **Detailed Accomplishments by Task**

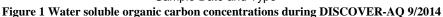
In September 2014, all the water soluble organic carbon (WSOC) analysis was completed for all four study sites: Conroe, La Porte, Moody Tower and Manvel Croix. Data validation measures were defined. Conroe data has been shared with the aerosol focus group collaborators (see Preliminary Analysis). New standards were purchased and the necessary calibration curve solutions were prepared and validated for detailed organic speciation analysis (by gas chromatography mass spectrometry). GCMS analysis has begun for Moody Tower and Manvel Croix (see Preliminary Analysis).

Participated in data sharing with DISCOVER-AQ aerosol focus group collaborators (grants 14-024 and 14-009).

Sent preliminary Conroe WSOC and all OCEC datasets to 14-024 and 14-009. Received preliminary PILS SO4 and AMS data from 14-009. Received preliminary ACSM and gas data from 14-024.

# **Preliminary Analysis**





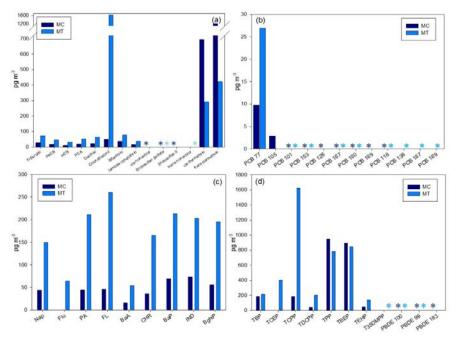


Figure 2 Organic tracer concentrations for Moody Tower (MT) and Manvel Croix (MC) during DISCOVER-AQ 9/2014.

# **Data Collected**

NA

# Identify Problems or Issues Encountered and Proposed Solutions or Adjustments

NA

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

The WSOC data for Moody Tower, Manvel Croix and La Porte will be shared during October with Hildebrandt-Ruiz (contract 14-024) and Griffin (14-009) as stipulated under the data sharing. We will be providing aliquots of airborne particulate matter filters collected from Conroe to Hildebrandt-Ruiz (contract 14-024), to be submitted for inorganic ion analysis at DRI. We will continue to analyze filter samples for organic tracers as well as finalize WSOC and OCEC datasets.

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

- Shared WSOC data for Conroe.
- Completed WSOC analysis for Conroe, Moody Tower, Manvel Croix and La Porte.
- Purchased and prepared standards for organic tracer analysis
- Began sample analysis for organic tracers at Moody Tower and Manvel Croix.

Submitted to AQRP by:	Rebecca J. Sheesley
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