

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, 2014 To: 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 15th 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

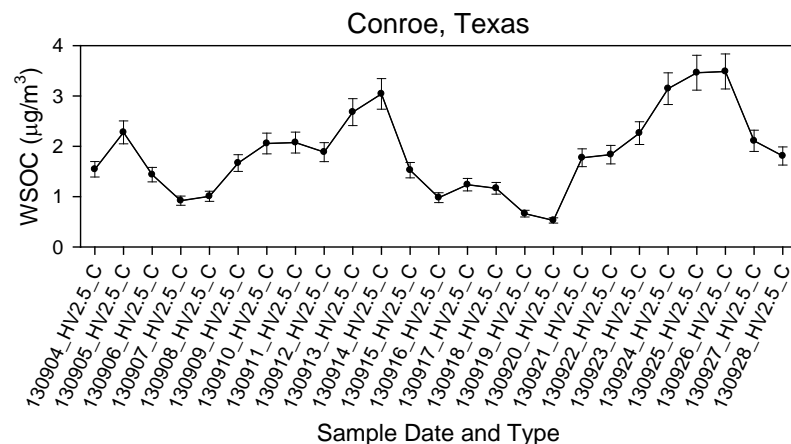


Figure 1 Water soluble organic carbon concentrations during DISCOVER-AQ 9/2014

