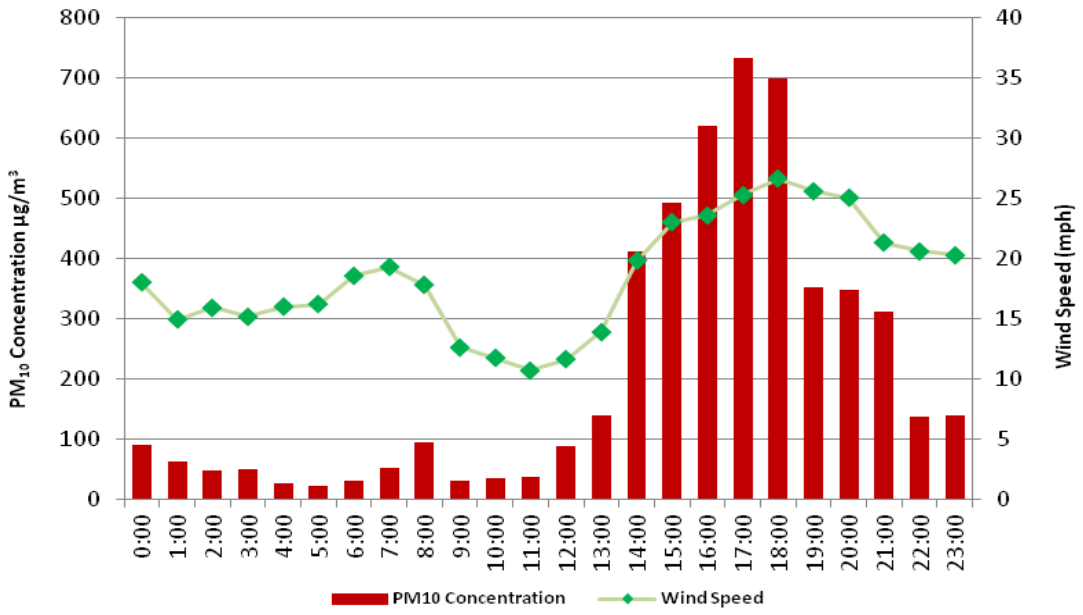
Appendix C
Correlated PM_{10} Concentrations and Winds

The following graphs illustrate the direct correlation between wind speeds[1] and PM_{10} concentrations at select monitoring sites within the Salton Sea Air Basin on May 7, 2015. See **Figure 2-5** for location of sites. Note that wind speed measurements may be taken at any time during the hour. Therefore, the following graphs reflect only the hour in which wind measurements were taken, and not necessarily the exact time.

IMPERIAL COUNTY SELECT SITES
(FIGURES C-1 to C-3)

FIGURE C-1
NILAND (ENGLISH RD). – MAY 7
PM_{10} CONCENTRATION & WIND SPEED CORRELATION



[1] National Weather Service; NOAA's Glossary – Wind Speed: The rate at which air is moving horizontally past a given point. It may be a 2-minute average speed (reported as wind speed) or an instantaneous speed (reported as a peak wind speed, wind gust, or squall); http://w1.weather.gov/glossary/index.php?letter=w.

FIGURE C-2
NILAND (ENGLISH RD)
PM_{10} CONCENTRATION & WIND SPEED CORRELATION

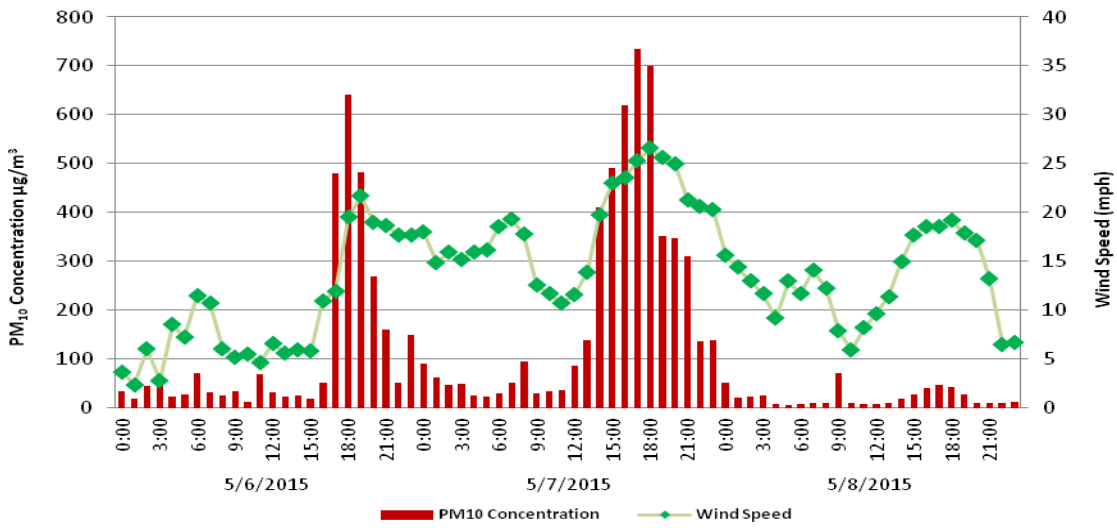
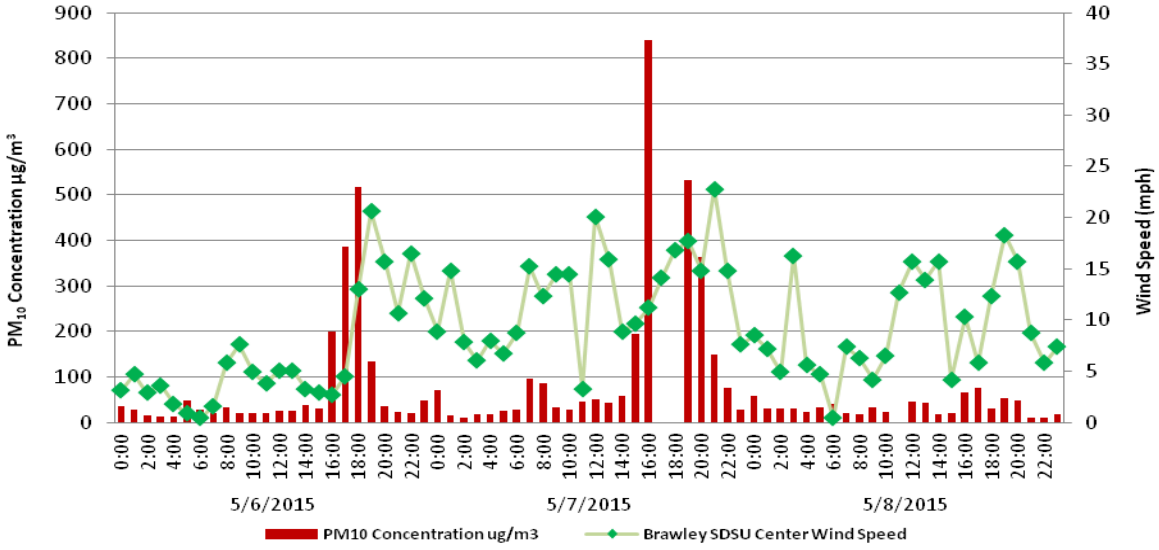


FIGURE C-3
BRAWLEY SDSU CENTER
PM_{10} CONCENTRATION & WIND SPEED CORRELATION



Figs C-1 through C-3: Niland and Brawley sites measured increased levels of PM_{10} as winds speeds increased late on May 6. Wind speeds at Brawley SDSU Center (San Diego State University), located about three miles east of Brawley, where slightly less than wind speeds at the Niland station. Niland air quality and wind data from the EPA's AQS data bank and the Brawley SDSU is from MesoWest P499/DSCCA

EASTERN RIVERSIDE COUNTY MONITORING SITES

FIGURE C-4
TORRES-MARTINEZ TRIBAL
PM_{10} CONCENTRATION & WIND SPEED CORRELATION

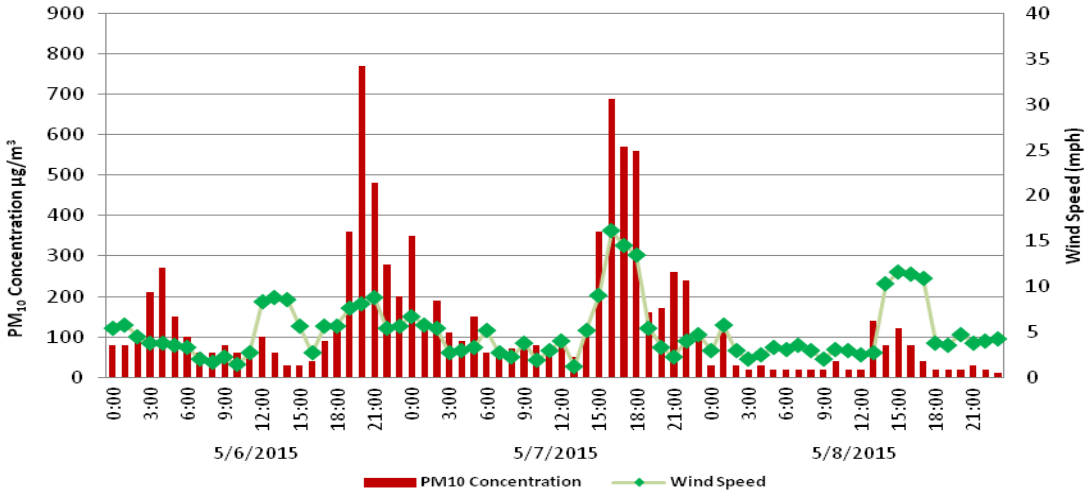
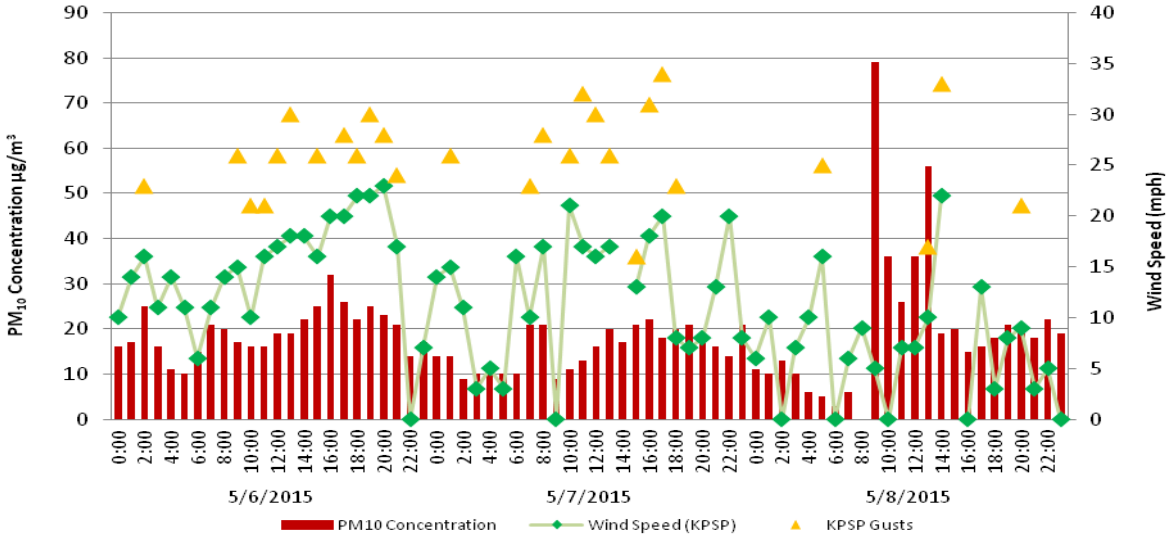


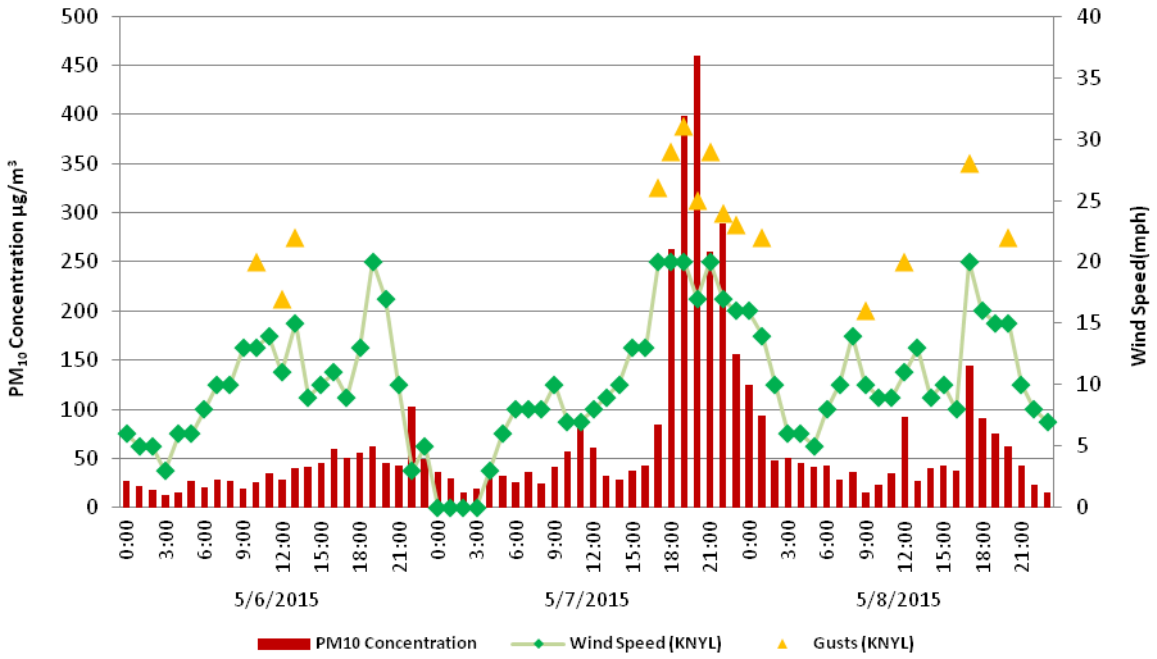
FIGURE C-5
PALM SPRINGS FIRE STATION
PM_{10} CONCENTRATION & WIND SPEED CORRELATION



Figs C-4 through C-5: Sites in eastern Riverside County measured increased levels of PM_{10} as winds speeds increased late on May 6, 2015 and again on May 7, 2015. Winds were not as strong as in Imperial County

SOUTHWESTERN ARIZONA MONITORING SITES

FIGURE C-6
YUMA, ARIZONA SUPERSITE
PM_{10} CONCENTRATION & WIND SPEED CORRELATION



Figs C-6: The Yuma monitoring site located east of Imperial County within the urban area of the City of Yuma Arizona similarly measured corresponding increases in particulate matter as wind speed increased during the day. This and other graphs above demonstrate the regional impact of the wind event on May 7, 2015