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 March 17, 2014. See **Figure 2-5** for location of sites.

IMPERIAL COUNTY SELECT SITES
(FIGURES C-1 to C-2)

FIGURE C-1
BRAWLEY PM_{10} CONCENTRATION & WIND SPEED CORRELATION

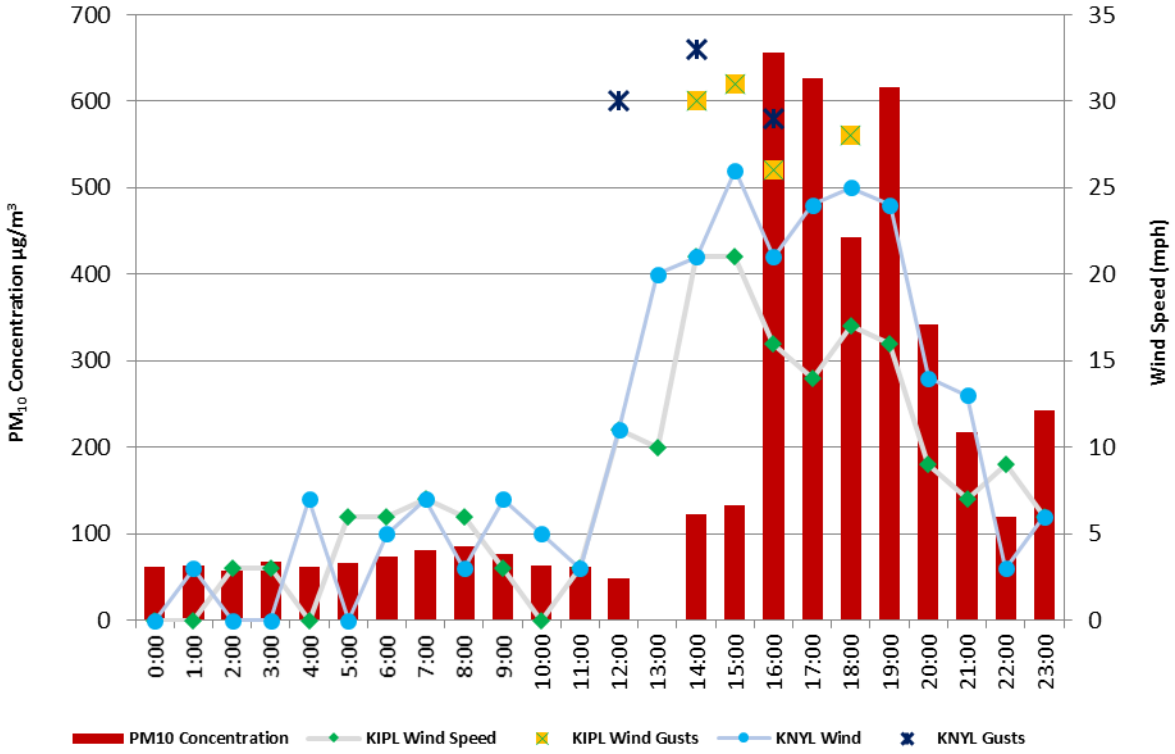


Fig C-1: Brawley hourly PM_{10} concentrations show a significant increase soon after an increase in wind speed. Imperial County Airport (KIPL) and El Centro NAF (KNYL) wind data used. Air quality data is from the EPA's AQS data bank. Wind data is from the NCEI's QCLCD data bank

[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

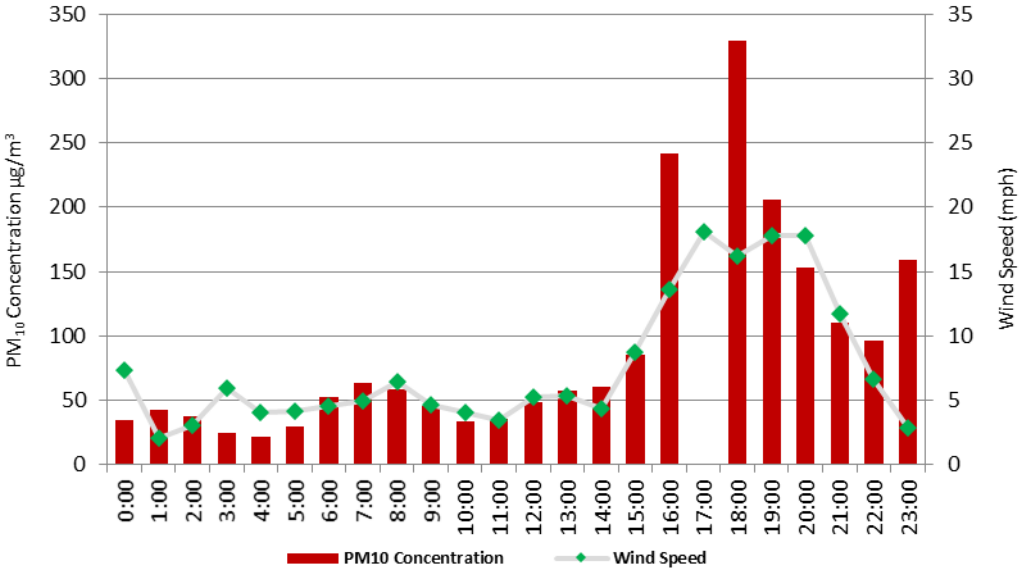


Fig C-2: Like Brawley, Niland hourly PM_{10} concentrations show a similar increase as winds picked up, but to a lesser degree. Air quality and wind data from EPA's AQS data bank

EASTERN RIVERSIDE COUNTY MONITORING SITES

Figs C-3, C-4, & C-5 is data from monitoring sites in eastern Riverside County. Air quality data is from the EPA's AQS data bank. Wind data is from the NCEI's QCLCD data bank.

FIGURE C-3
INDIO (JACKSON ST) PM_{10} CONCENTRATION & WIND SPEED CORRELATION

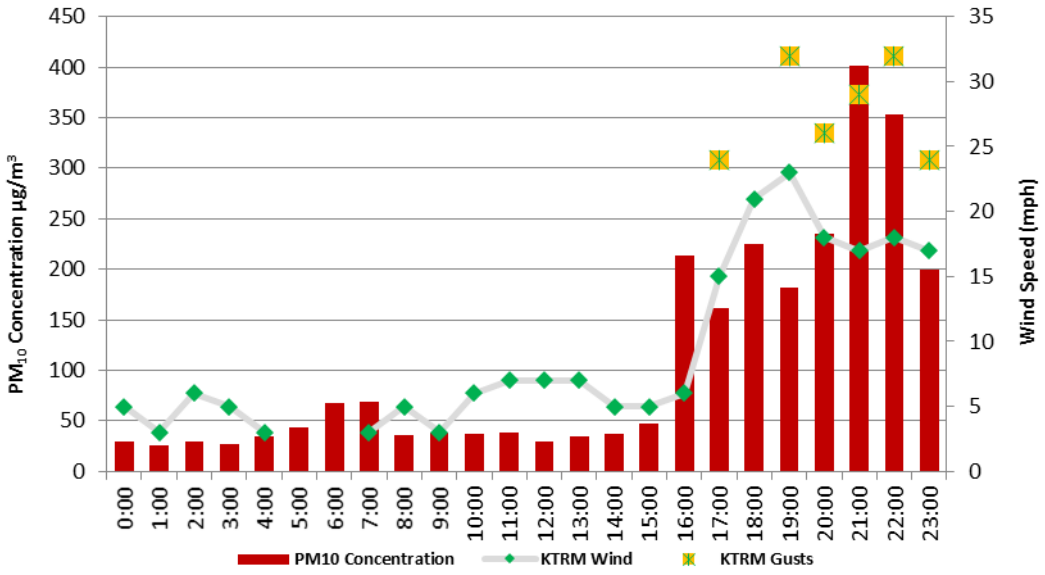


FIGURE C-4
PALM SPRINGS FIRE STATION PM_{10} CONCENTRATION & WIND SPEED CORRELATION

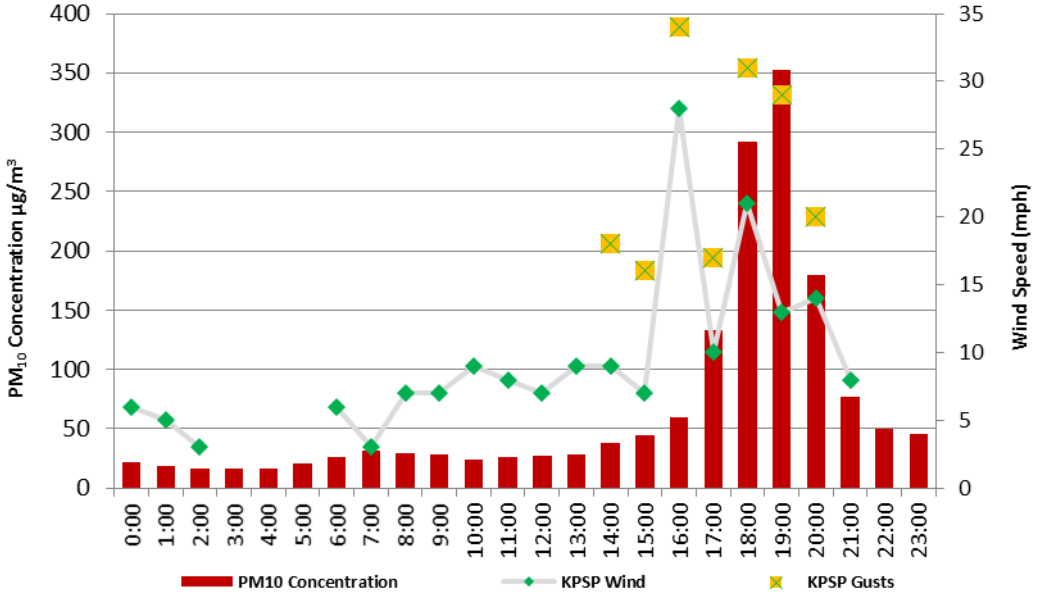
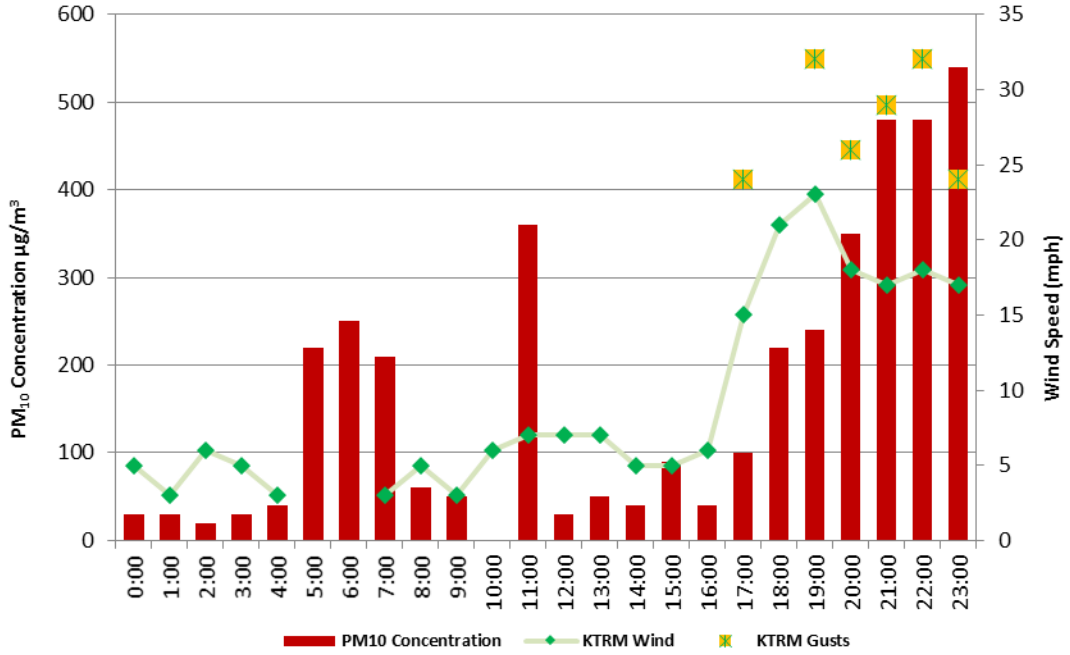


FIGURE C-5
TORRES-MARTINEZ TRIBAL PM_{10} CONCENTRATION & WIND SPEED CORRELATION



SOUTHWESTERN ARIZONA MONITORING SITE

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

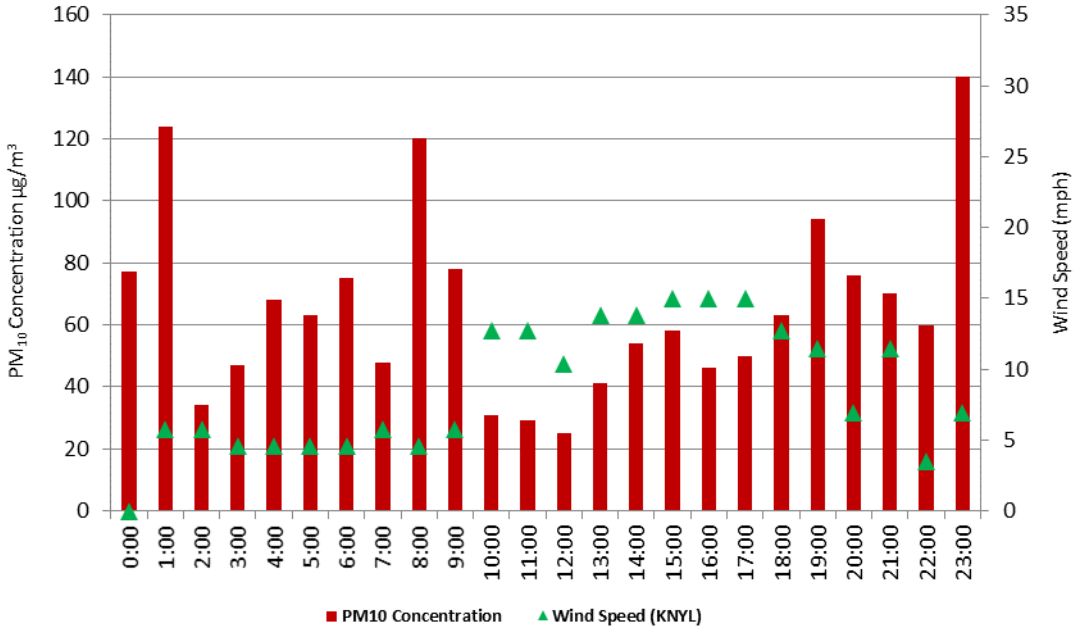


Fig C-6: The monitoring site in Yuma, Arizona is located in the southwestern corner of the state near the California-Arizona-Mexico border. Air quality data is from the EPA's AQS data bank. Wind data is from the NCEI's QCLCD data bank