

# Shafter AB 617 Community Air Monitoring Update

Community Steering Committee Meeting  
August 10, 2020

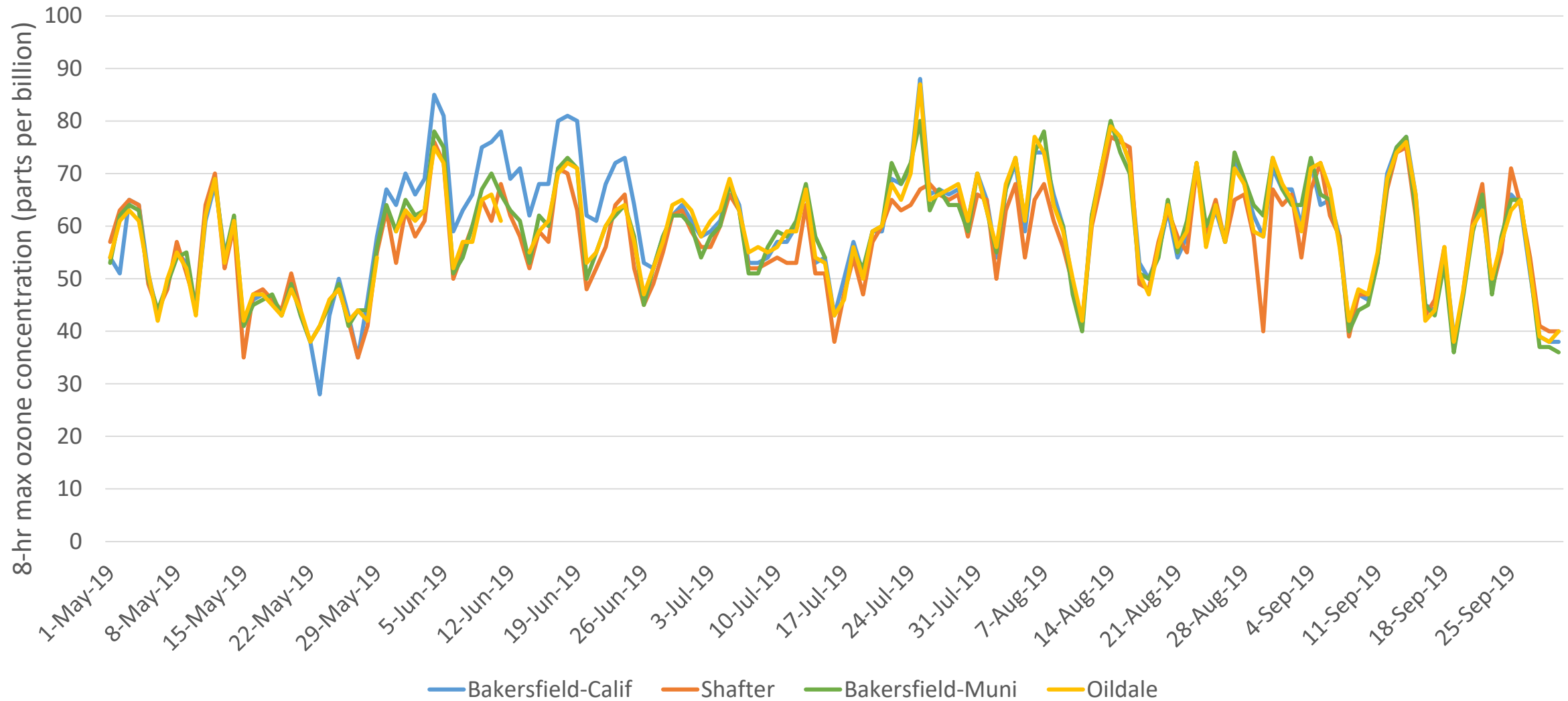
# Ongoing Community Air Monitoring

- District continuing to conduct localized air monitoring in the Shafter community
- Richland School District Governing Board will review to approve the Districts plan to install monitors at Golden Oak and Sequoia Elementary on August 10<sup>th</sup>
- Lease agreement has been sent to North Shafter Migrant Labor Center for Trailer installation
- Air monitoring van actively being used to regularly monitor pollutants in areas of interest of the community and near recommended site locations for network design
- Intensive PM<sub>2.5</sub> and VOC speciation sampling and laboratory analysis being conducted since late 2019

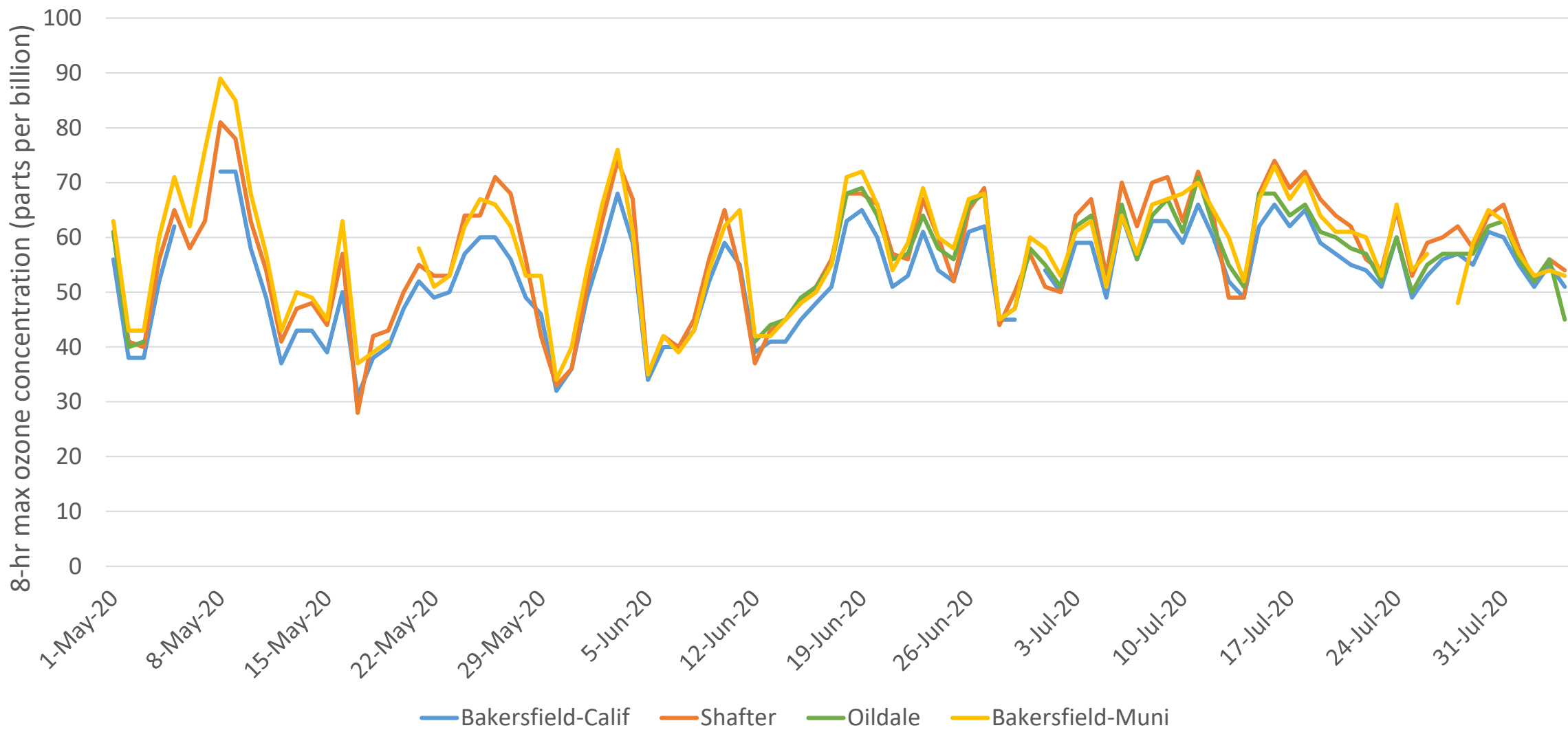
# Ozone in Shafter Comparison

- Compared Ozone in Shafter with other nearby areas
  - Bakersfield California
  - Bakersfield Municipal Airport
  - Oildale
- For 2019 and 2020, ozone is fairly consistent between all areas

# 8-hr Ozone Comparison (May-Sept 2019)



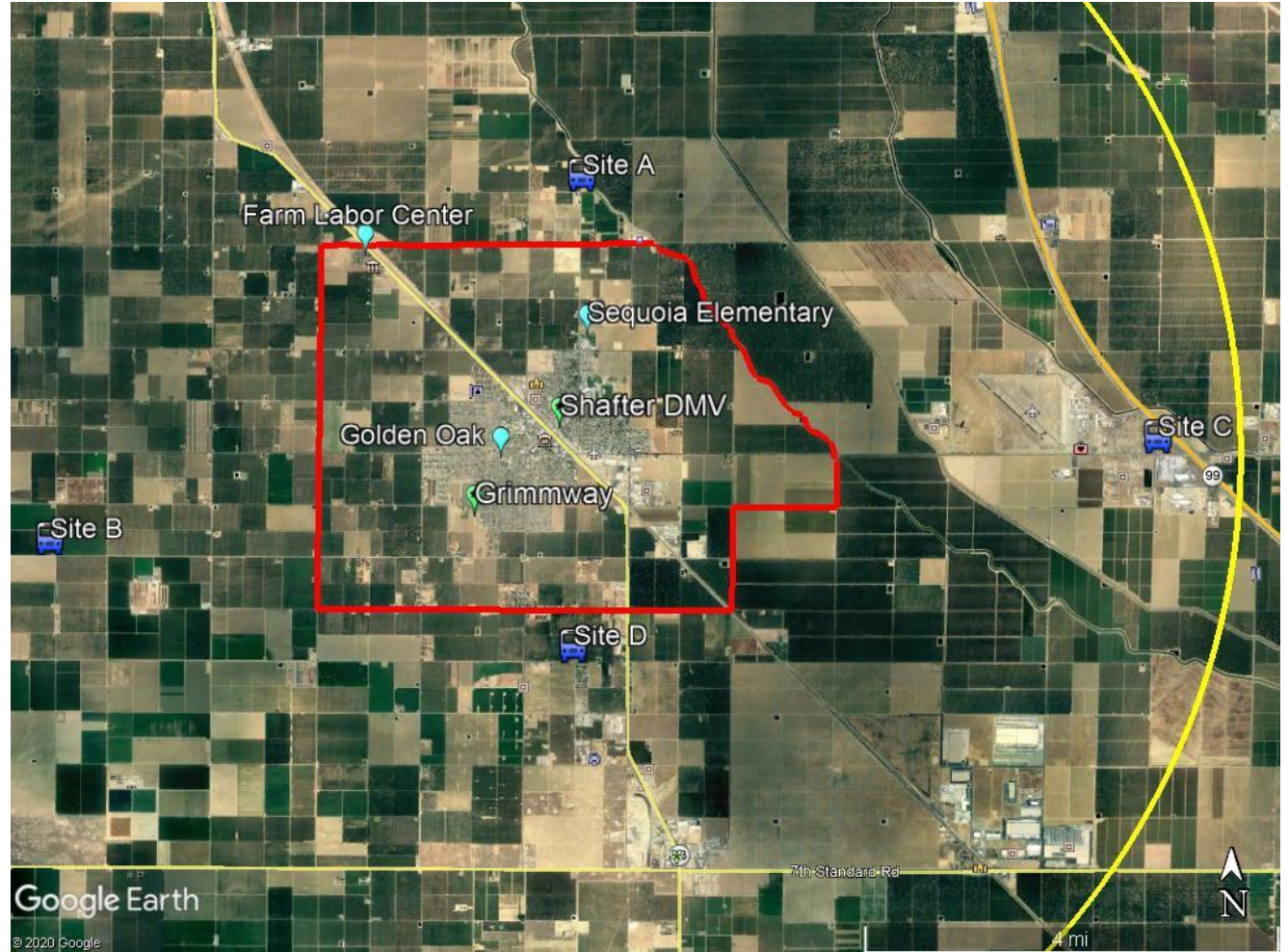
# 8-hr Ozone Comparison (May-August 4<sup>th</sup> 2020)



# Mobile Air Monitoring Van Activities

- The mobile air monitoring vans has been monitoring at Golden Oak, Farm Labor Center, and Sequoia Elementary until the site is approved to be developed.
- Site A: North Shafter site focusing on measuring Agriculture sites\*
- Site B: Centered around 4 dairies
- Site C: Airport and Industrial area
- Site D: Mexican Colony

\*Minimal monitoring. Resources currently used to temporarily monitor Farm Labor Center & Sequoia

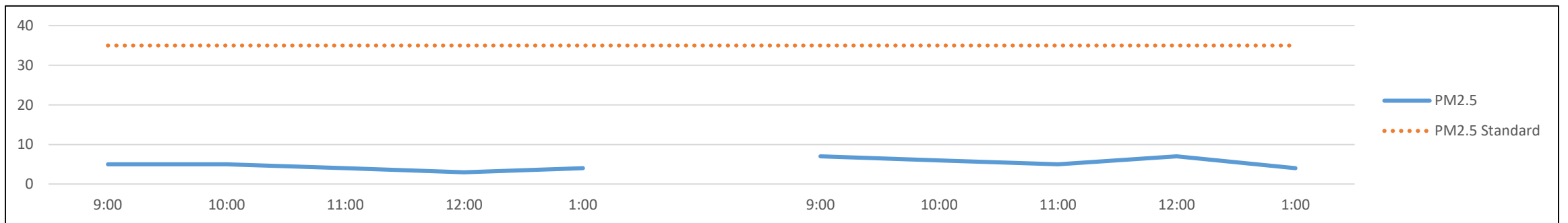
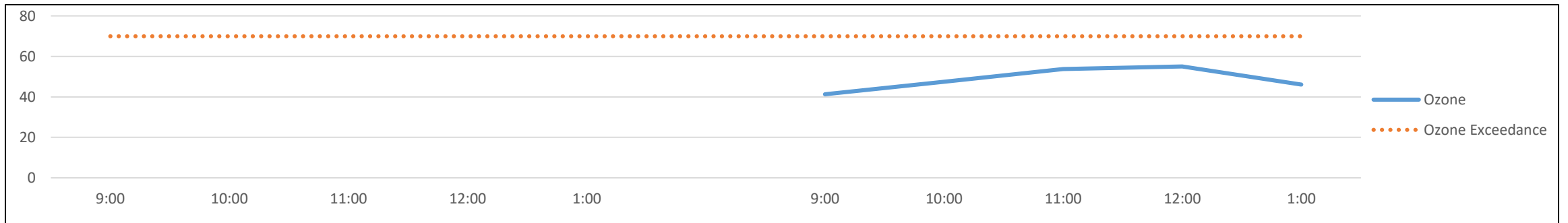
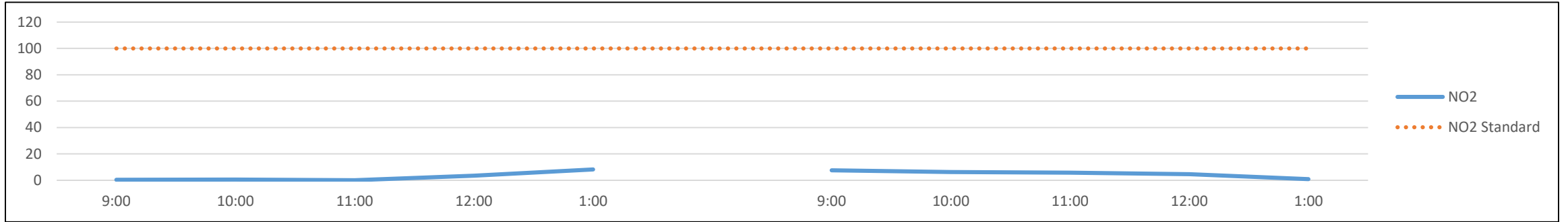




# Mobile Air Monitoring Van Activities (cont'd)

- Monitoring in the van has been occurring since January 2020
- The concentrations of pollutants measured for all locations are as follow:
  - PM2.5 highest reading of 16  $\mu\text{g}/\text{m}^3$ , below the federal standard of 35  $\mu\text{g}/\text{m}^3$
  - Ozone highest reading of 64 ppb, below the federal 8-hr ozone standard of 70 ppb
  - CO highest reading of 0.4 ppm, below the federal 1-hr CO standard of 35 ppmv
  - NO2 highest reading of 37 ppb, below the federal 1-hr NO2 standard of 100 ppb
  - SO2 highest reading of 3.1 ppb, below the federal 1-hr SO2 standard of 75 ppb
  - VOC analyzers did not detect any measurable benzene, toluene, ethylbenzene, or xylene (BTEX) emissions at selected locations during this monitoring period

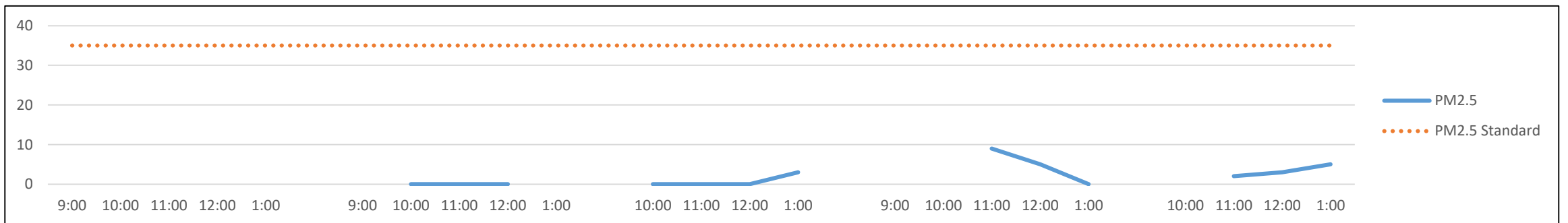
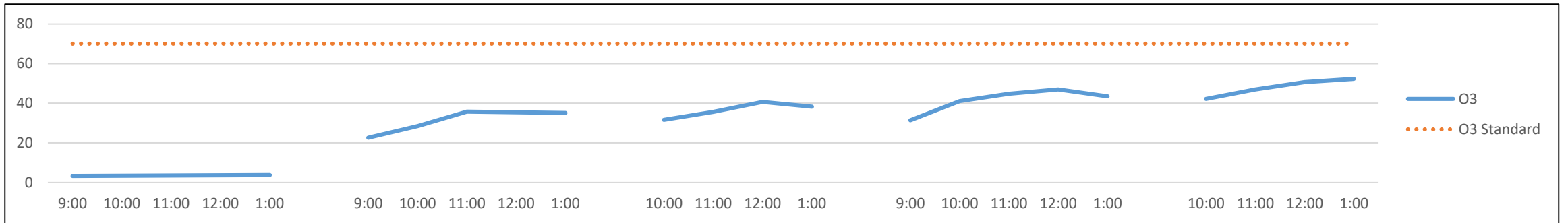
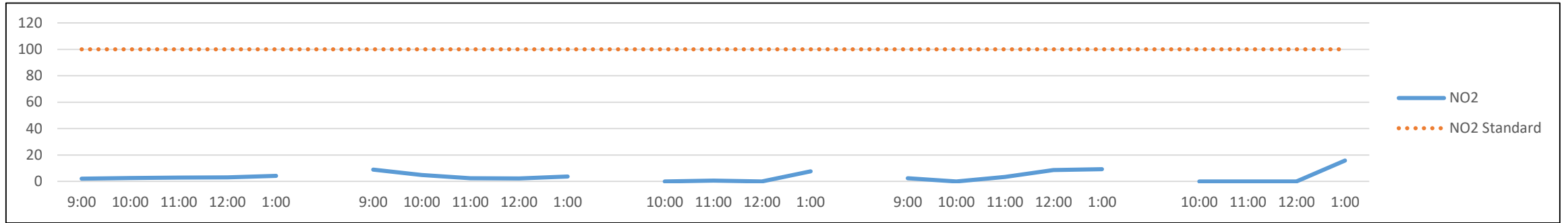
# North Shafter Farm Labor Center



- Monitoring occurred March 31; April 16

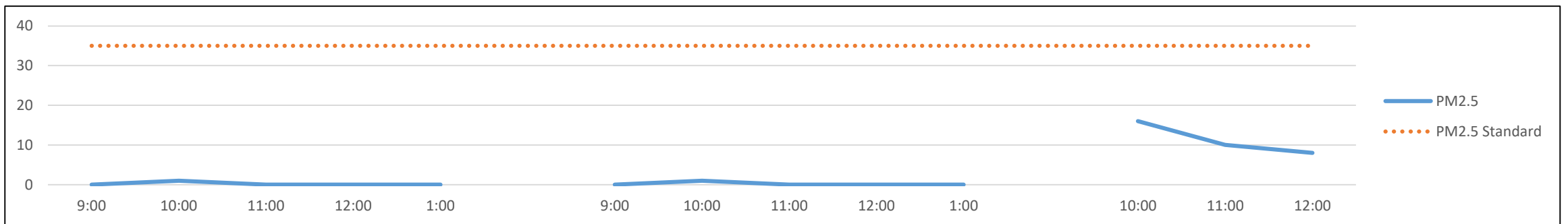
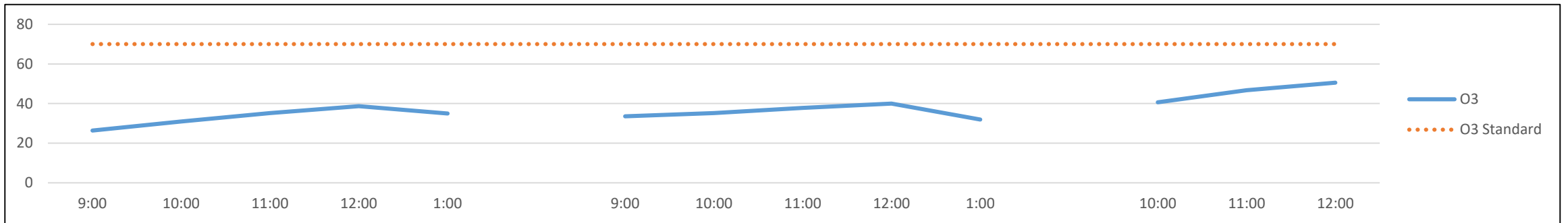
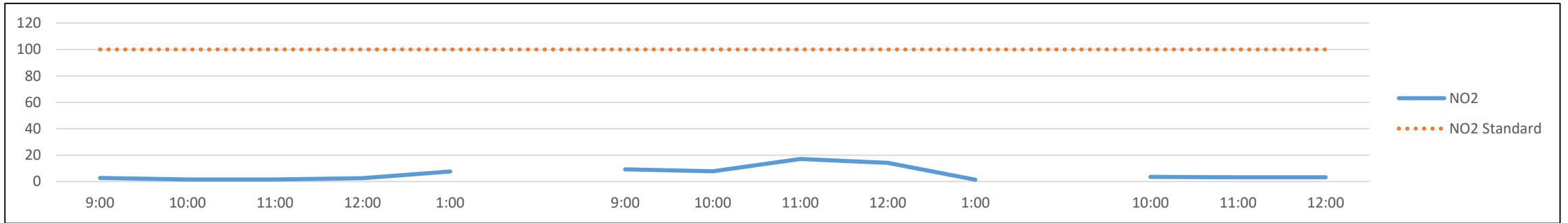


# Golden Oak Elementary



- Monitoring occurred March 11; April 9, 23; May 20; June 25

# Sequoia Elementary



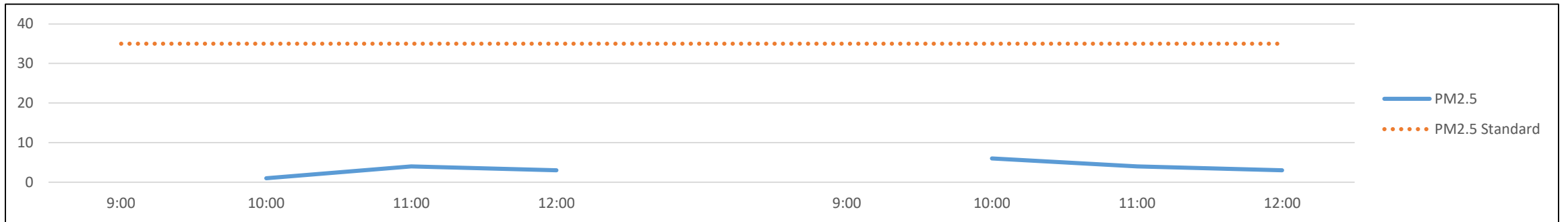
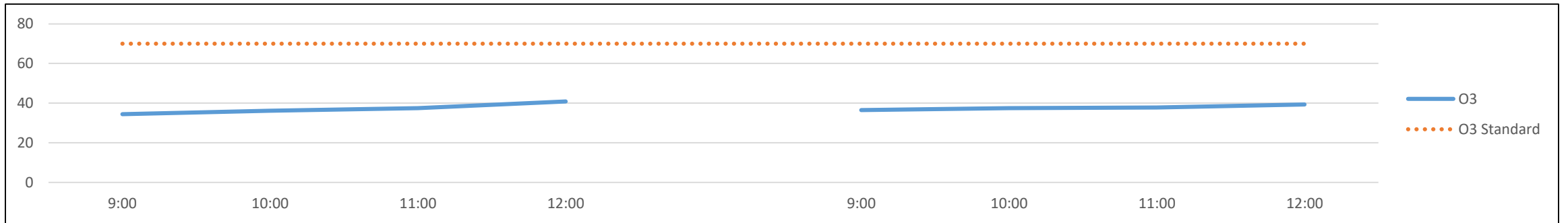
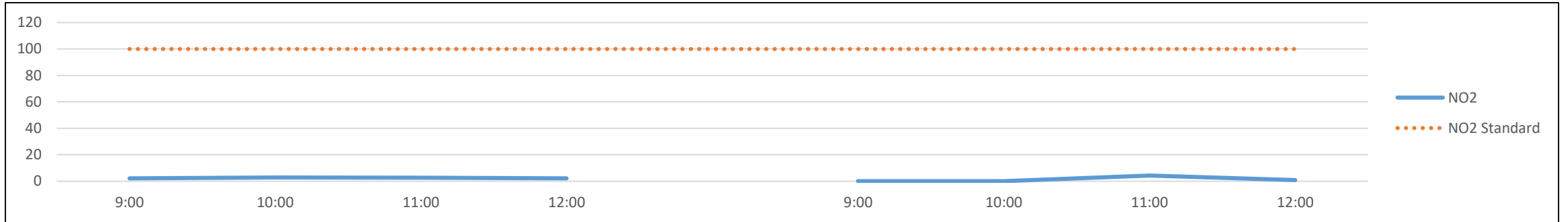
- Monitoring occurred April 23, May 14, June 25

# Site B: West Side Dairies



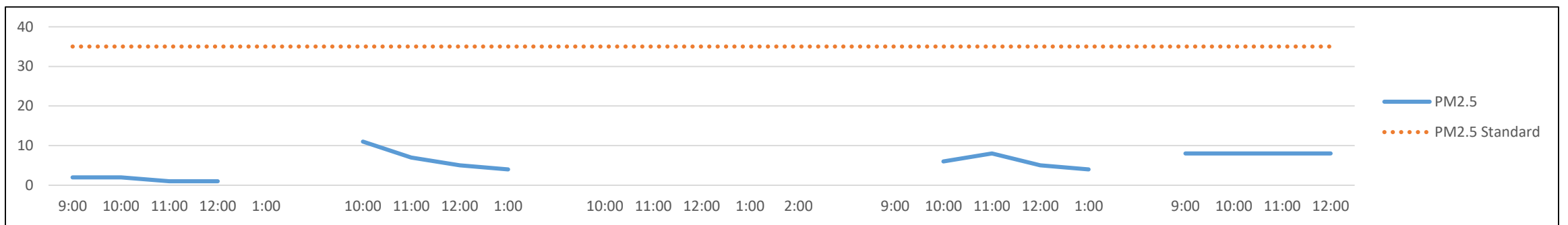
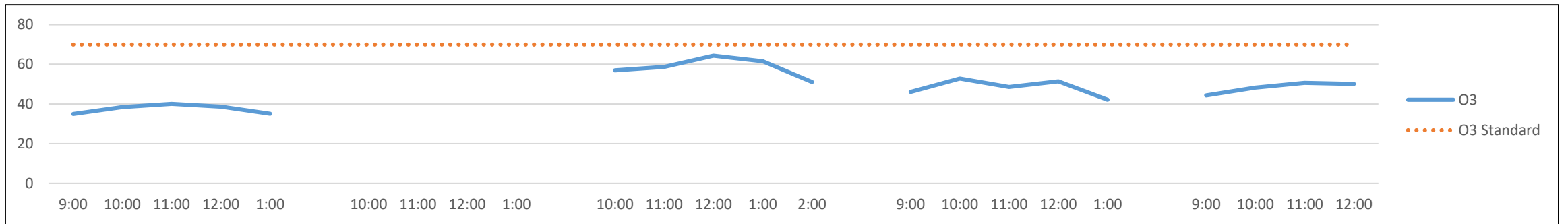
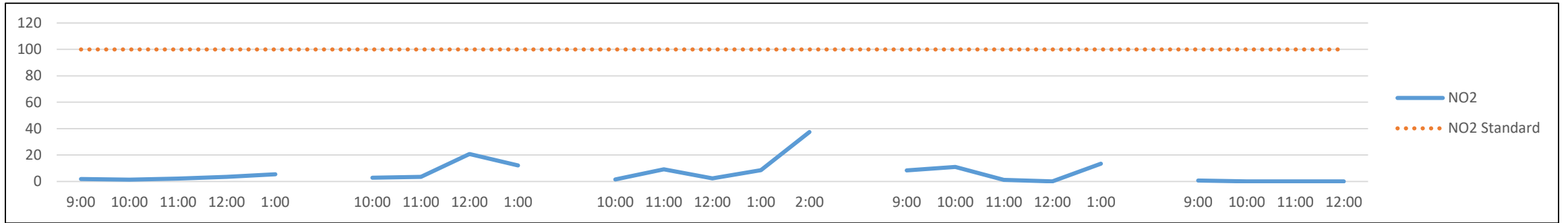
- Monitoring occurred March 31; April 29; May 20; June 30

# Site C: Airport/Industrial Area Monitoring



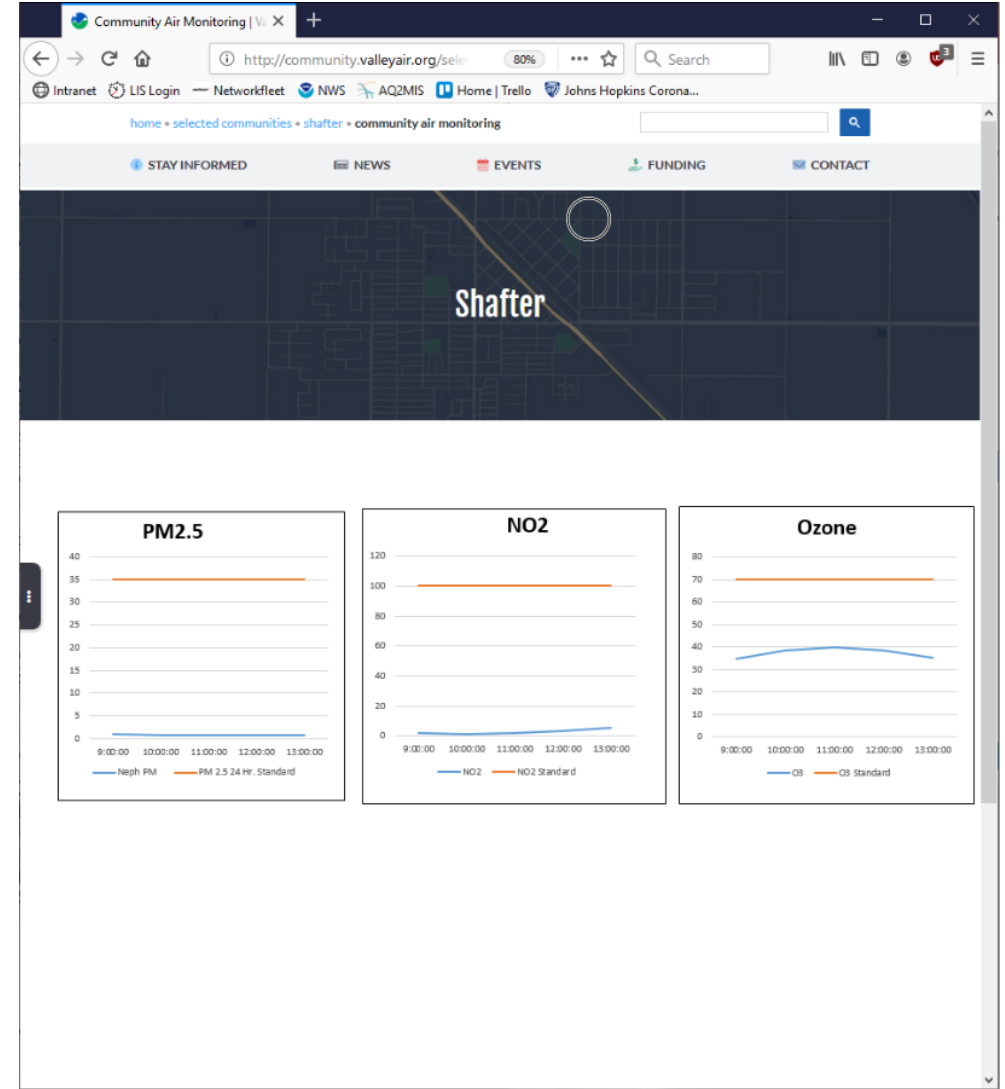
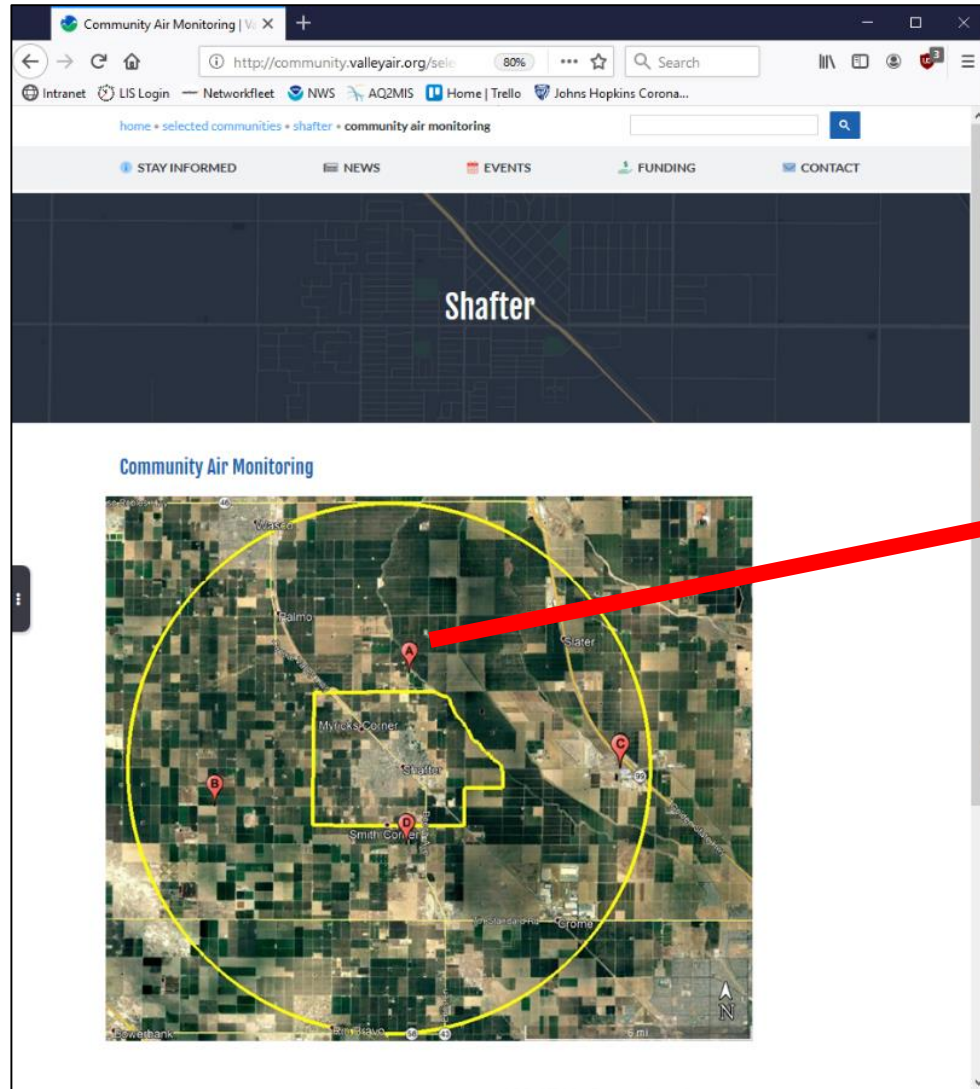
- Monitoring occurred April 2, May 14

# Site D: Mexican Colony Monitoring



- Monitoring occurred March 25; April 16, 29; June 30; July 29

# Proposed Website Tools for Mobile Monitoring





# Comments/Questions?