TOWN HALL MEETING

IN THE CITY OF PARAMOUNT

Monday, December 12, 2016

Monitoring and Analysis Update

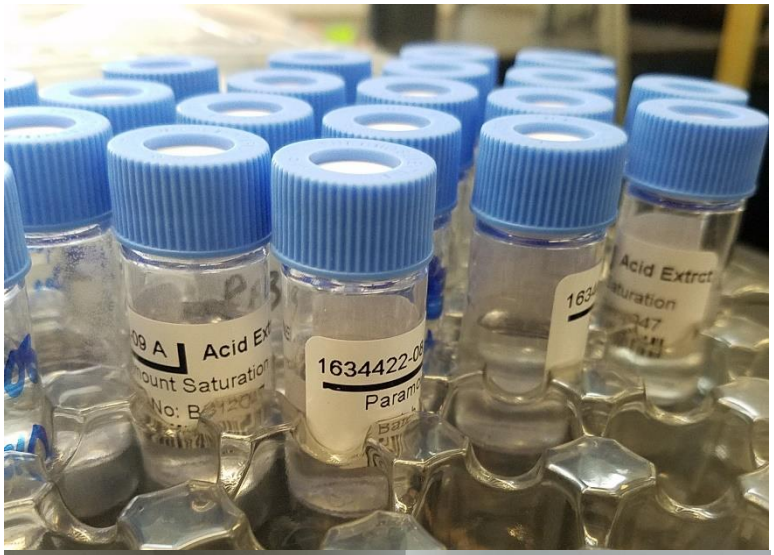
South Coast AQMD

Sampling Hexavalent Chromium

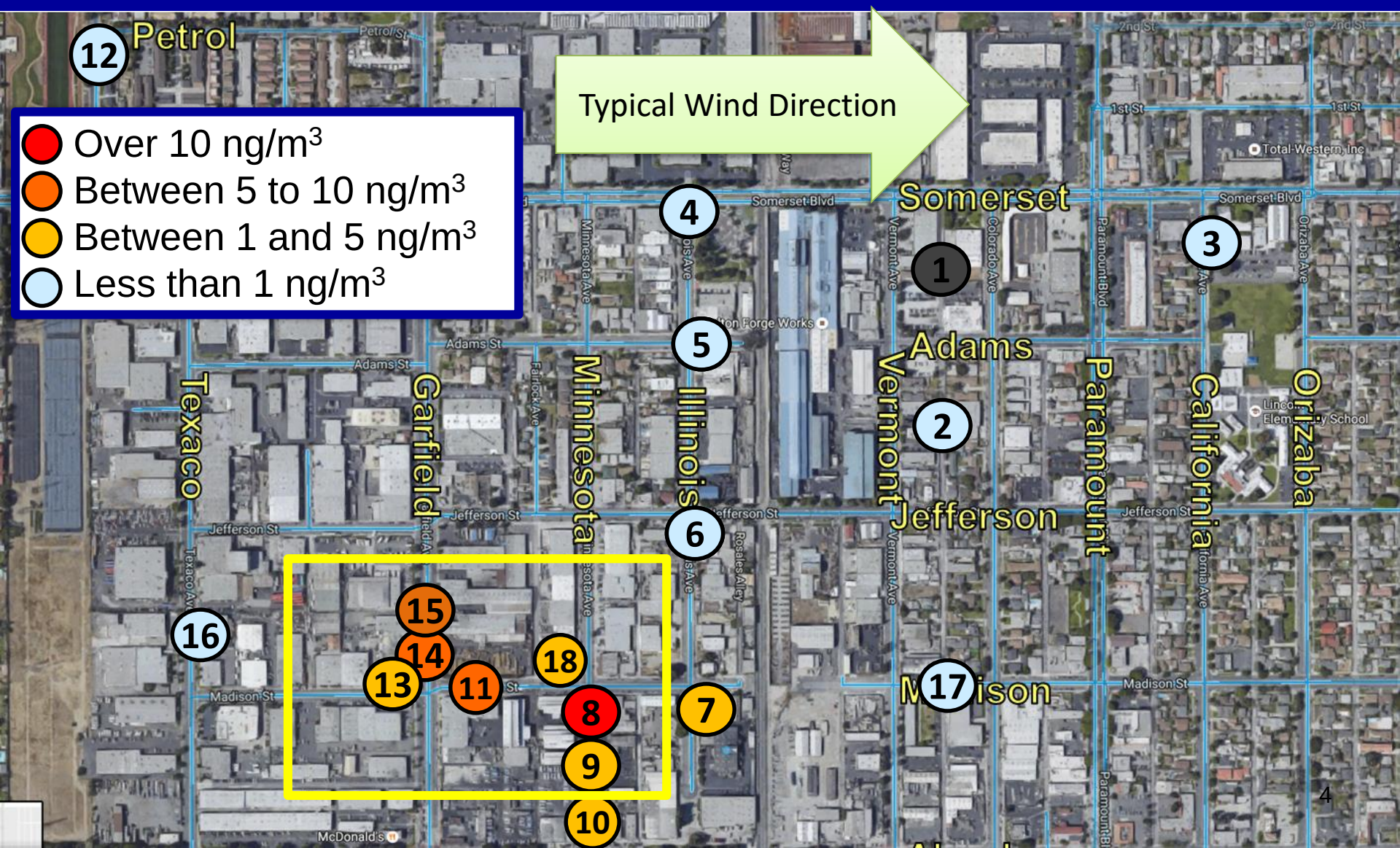
- Portable sampler
  - First time any agency has used this technique for hexavalent chromium measurements
  - Hexavalent Chromium collected on filter
- Sample Collection
  - Typically measurements taken every three days
    - One day to sample, one day to collect samplers and recharge them, and one day to redeploy sampler.
    - Follows a schedule that is the same as other air toxics measurements in the nation
  - Collected continuously for a total time of 24 hours
  - Midnight to Midnight

Laboratory Analysis of Hexavalent Chromium

- Challenging to measure hexavalent chromium in air
  - Roughly equal to measuring mass of a human cell in a cubic meter of air
- Analysis conducted at SCAQMD Laboratory
  - Hexavalent chromium washed off filter into a container and analyzed
  - Based on established method from U.S. EPA
- Results posted on SCAQMD website:
  - http://www.aqmd.gov/home/regulations/compliance/air-monitoring-activities



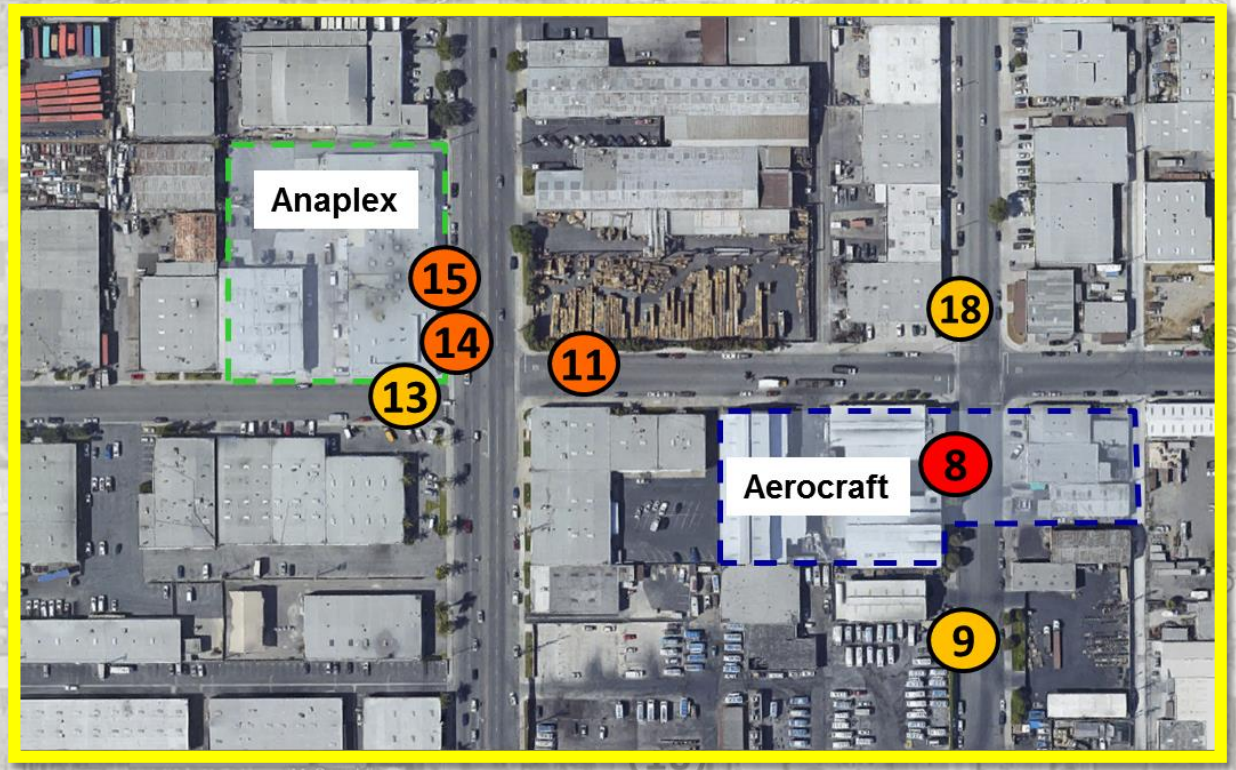
Summary of Results
October 15th – December 2nd



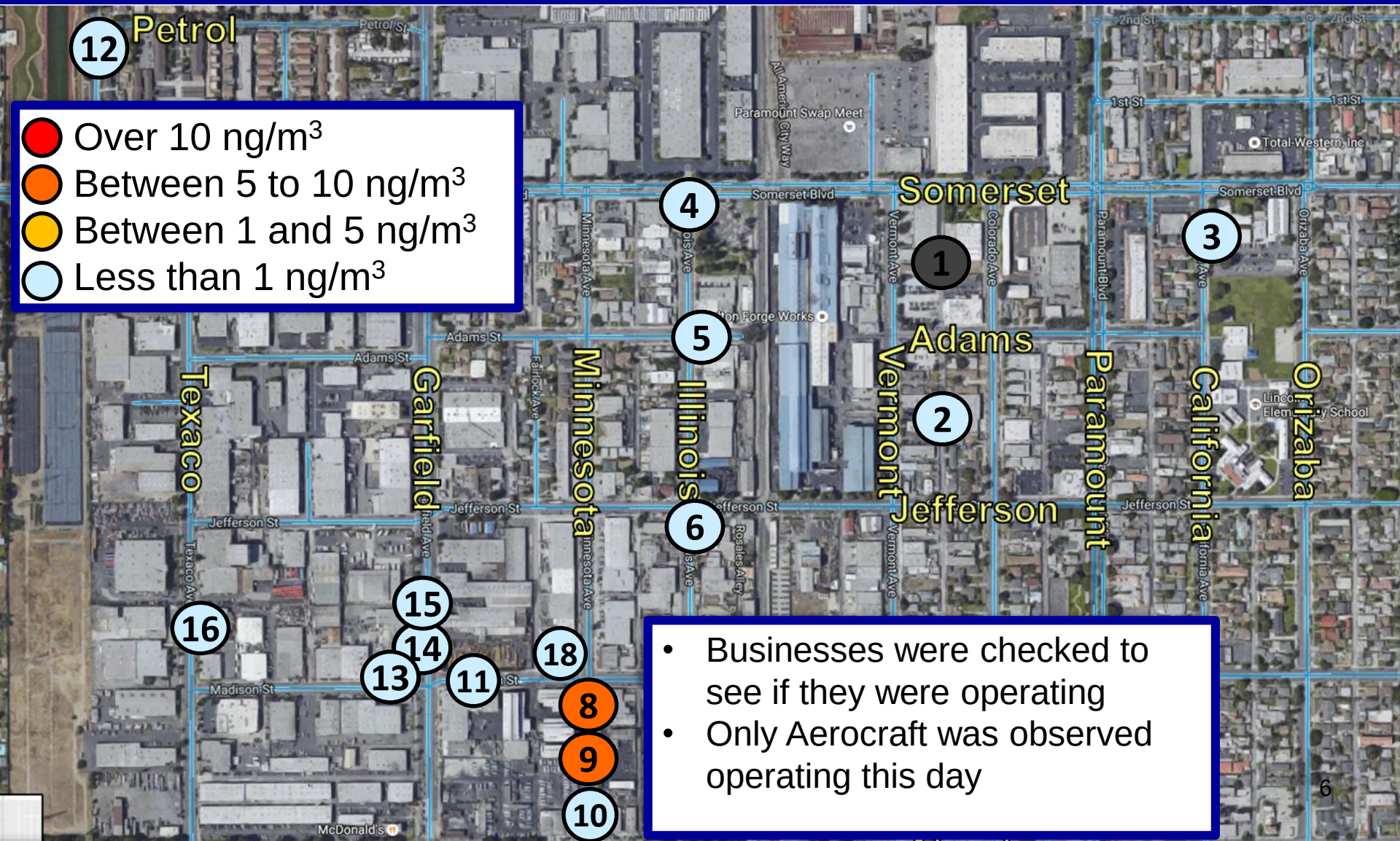
Potential Sources

- Over 10 ng/m^3
- Between 5 to 10 ng/m^3
- Between 1 and 5 ng/m^3
- Less than 1 ng/m^3

Typical Wind Direction

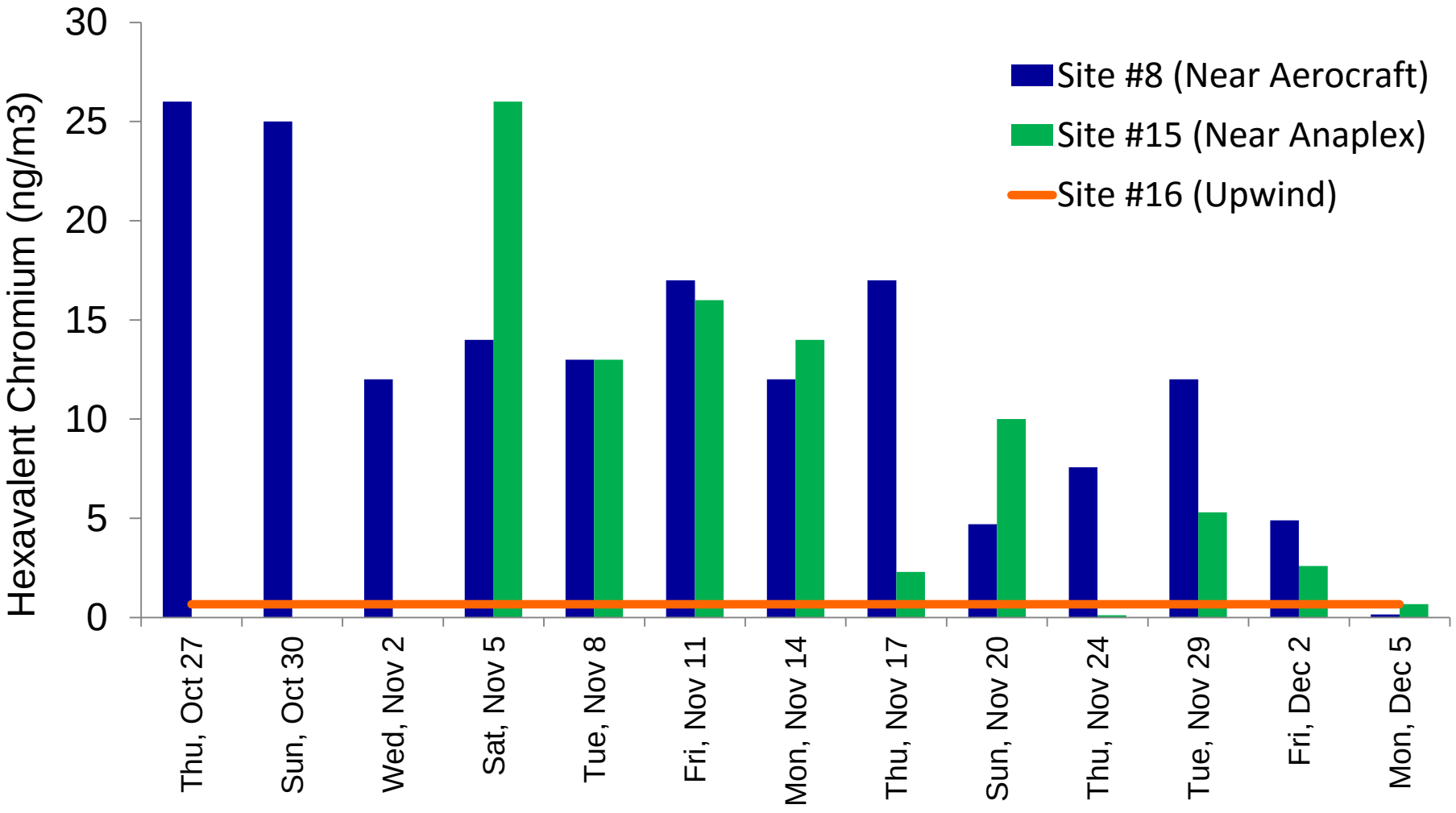


Summary of Results
Thanksgiving Day



- Businesses were checked to see if they were operating
- Only Aerocraft was observed operating this day

Hexavalent Chromium Results from Air Samples



Source Test Screening Overview

Heated Tank

Water Quenching Tank

Next Steps

- Increasing monitoring area
- Measuring near large forging facilities
- Follow up with on site measurements
- Work with California Air Resources Board to do some measurements at nearby schools