

AB 617 COMMUNITY STEERING COMMITTEE

Wilmington, Carson, West Long Beach
May 13, 2021

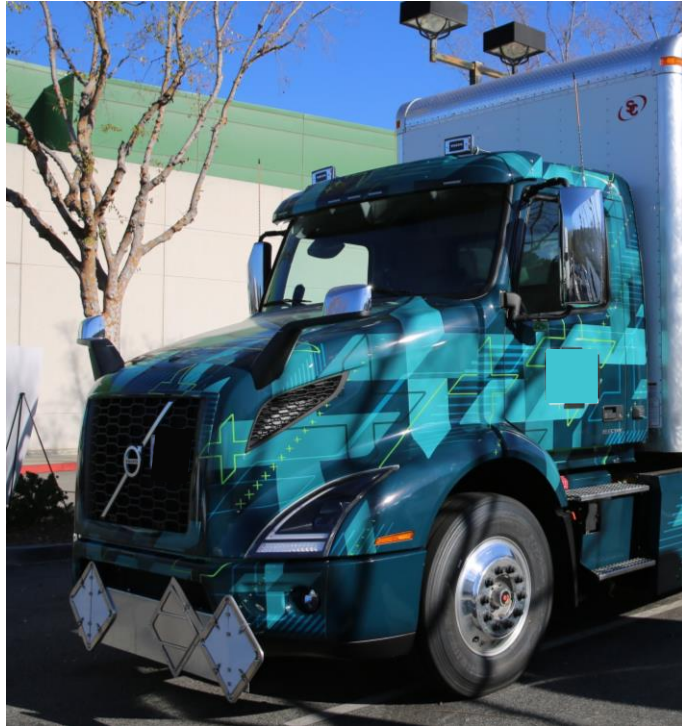


AB 617 WCWLB

CSC Member Updates



Outreach Updates



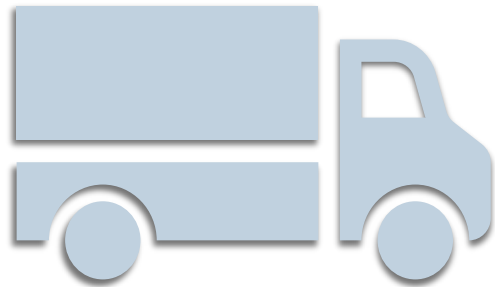
INCENTIVES BUDGETING DISCUSSION RECAP AND NEXT STEPS

WALTER SHEN
PROGRAM SUPERVISOR

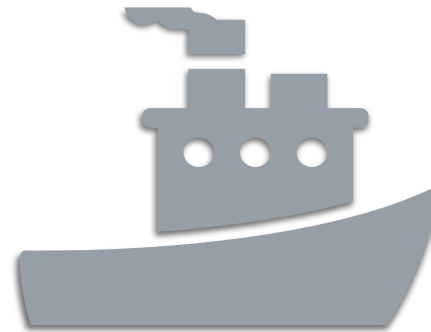


PROJECT DISTRIBUTION POLL RESULTS

- 23 CSC members responded
- CAPP Year 3 Grant disbursement request submitted to CARB on April 29, 2021
- \$5.57M for WCWLB
- CARB staff to review and approve



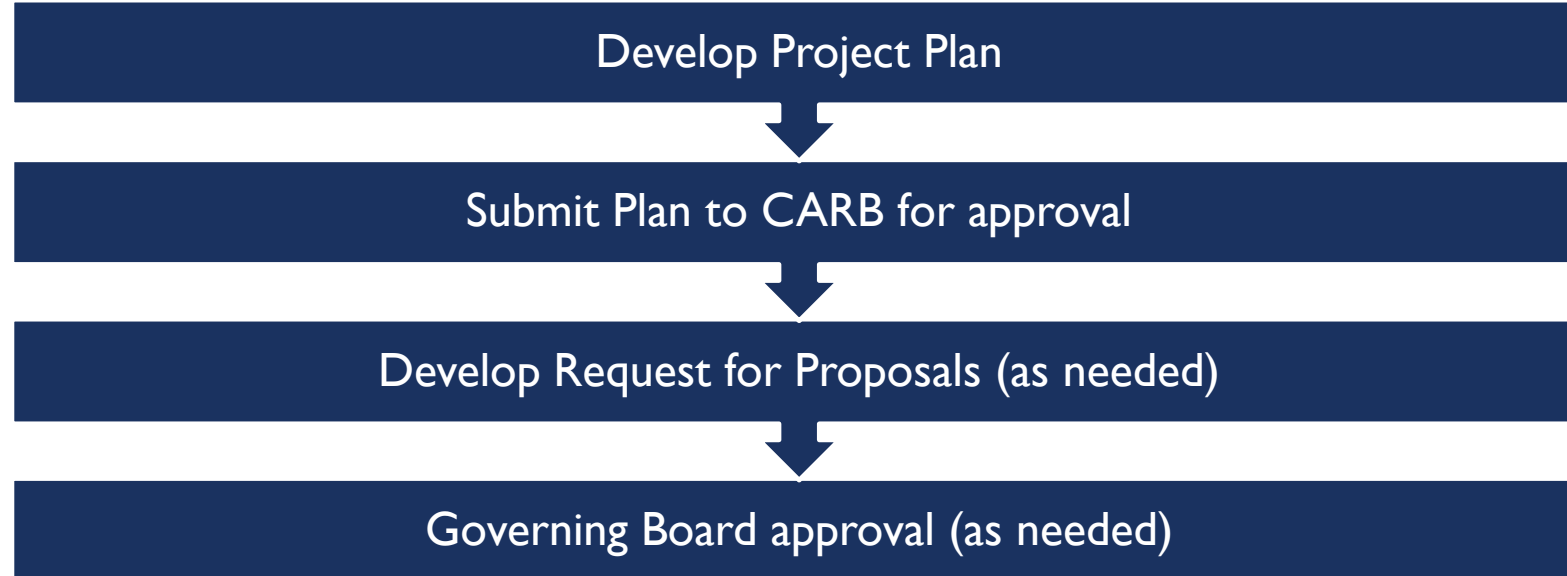
50% Trucks
\$2.7M



50% Ships or Harbor Craft
\$2.7M

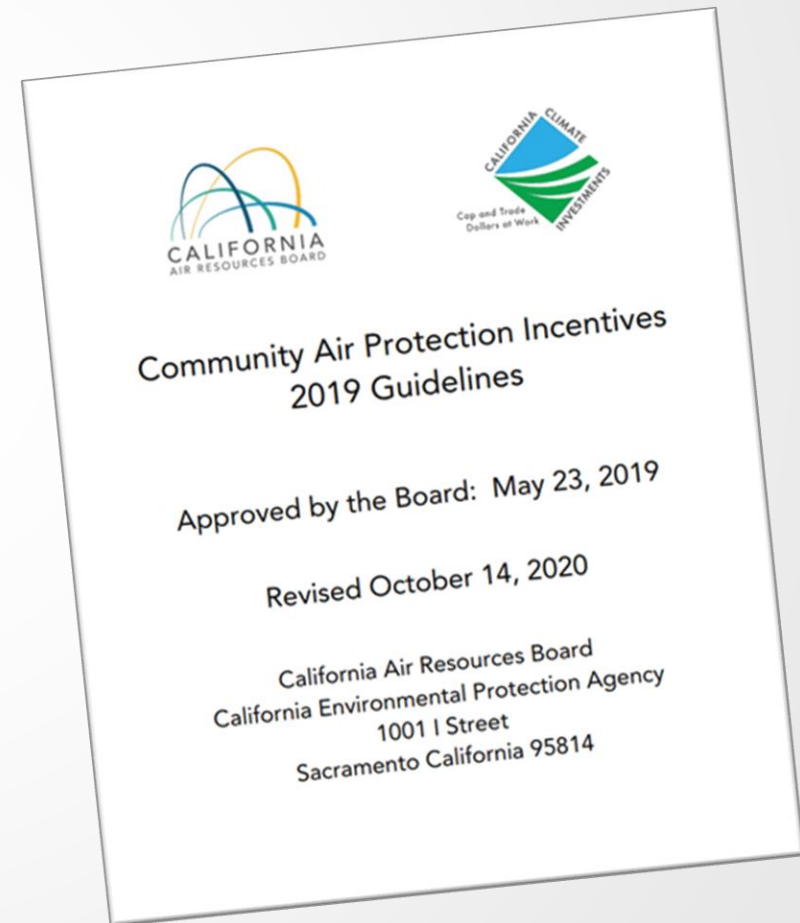
INCENTIVE FUNDING – NEXT STEPS

- Based on CARB Community Air Protection Incentives 2019 Guidelines
- Project Plans allow us to customize to address specific community needs and priorities



PROJECT PLAN – REQUIRED ELEMENTS

- **Project-Identification**
- **Community Support**
- **Participant Requirements**
- **Funding Amounts**
- **Project Selection**
- **Reporting**
- **Inspection Requirements**



INCENTIVE FUNDING – PUBLIC PROCESS

- South Coast AQMD needs your input to develop criteria for funding truck priorities
- Truck project plan will include multiple CSCs
- Fall 2021 thru early 2022, hold 2 to 3 workshops to seek CSC input on criteria and project plan development for trucks

USEFUL LINKS

- Community Air Protection Incentives 2019 Guidelines: ww2.arb.ca.gov/our-work/programs/community-air-protection-incentives
- Link to CARB-approved Project Plans: ww2.arb.ca.gov/our-work/programs/community-air-protection-incentives/stationary-source-and-community-identified
- South Coast AQMD website for Community Air Protection Incentives: www.aqmd.gov/cappincentives

RULE 2305 UPDATE

Public Hearing with Governing Board

- Rule 2305 and Rule 316 adopted
- Fulfills one of the key actions requested by the CSCs
- 198 Rule 2305 applicable warehouses in WCVLWB

Upcoming Dates

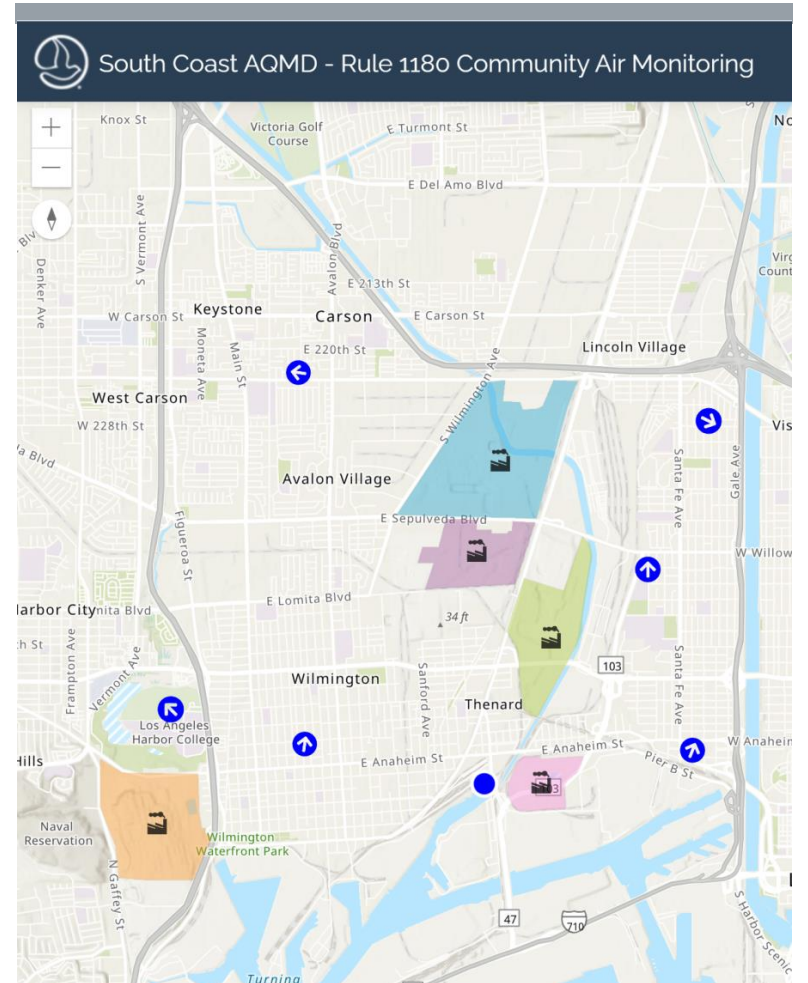
- Warehouse Operations Notification (Sept 1, 2021)
- First Compliance Period for Warehouses \geq 250,000 sq ft (Jan 1, 2022 – Dec 31, 2022)

NEXT STEPS

- Submit into the SIP
- Outreach to regulated community
- Develop compliance program and online portal
- New email for Rule 2305 questions

waire-program@aqmd.gov

Questions?



UPDATE ON COMMUNITY AIR MONITORING IN WCWL B

OLGA PIKELNAYA PH.D

PROGRAM SUPERVISOR



South Coast
AQMD

OUTLINE

- Mobile ORS Monitoring Near Oil Wells:
 - CERP / Action #5: “Conduct mobile air measurements around active, idle, and abandoned oil drilling sites to identify potential leaks”
 - Overview of March 2021 mobile measurements
- Refinery Monitoring:
 - CERP / Action #2: “Conduct refinery air measurements to identify and address VOC leaks”
 - Rule 1180 benzene refinery exceedance events

MOBILE ORS MEASUREMENTS NEAR OIL WELLS: ORS MOBILE LABORATORY



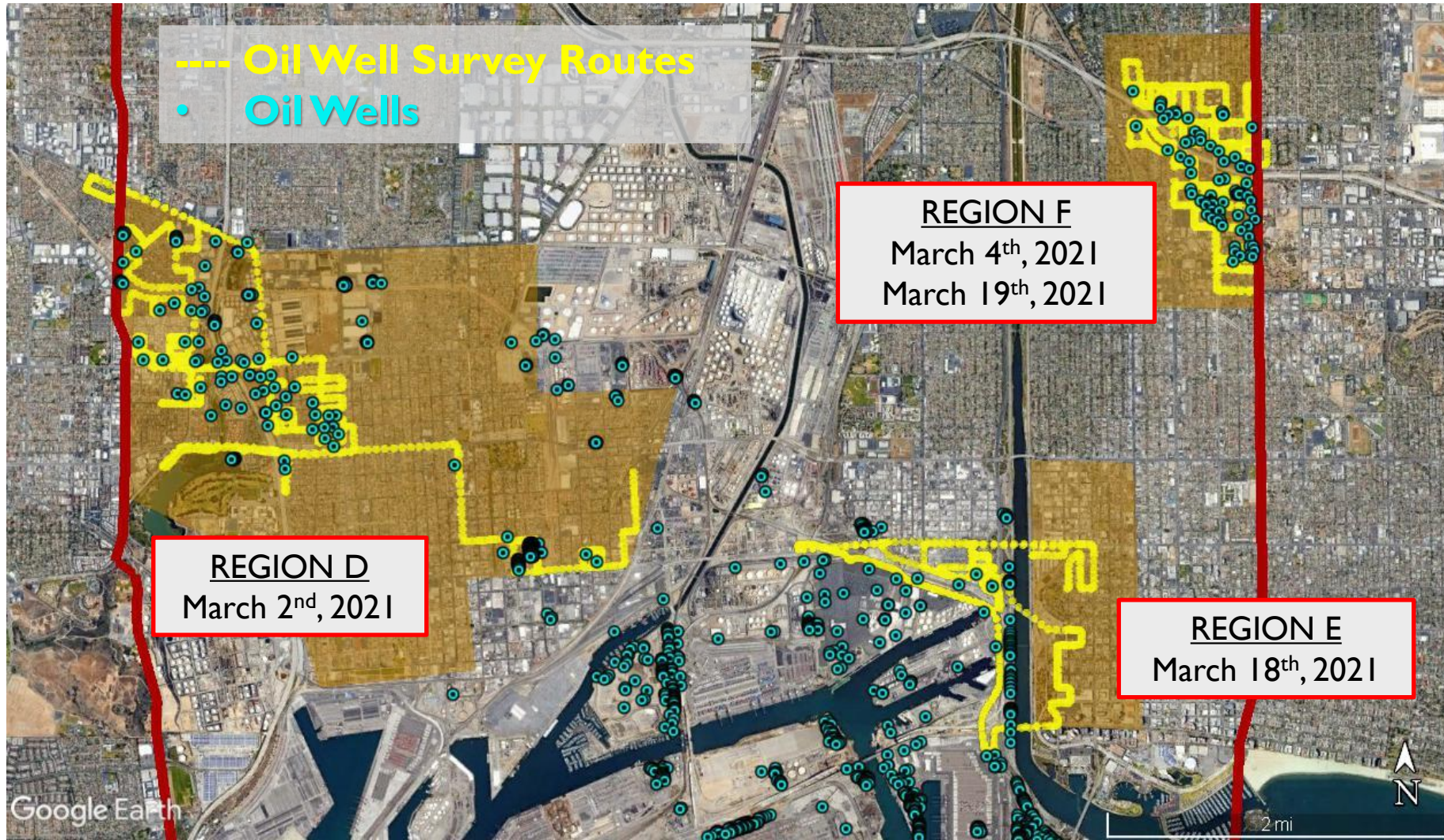
In-situ

- Mobile Extractive UV-DOAS
 - Benzene, Toluene, Ethylbenzene, Xylenes, Styrene
 - Time response: ~4 sec
- Mobile Extractive FTIR
 - Total Alkanes, Methane
 - Time response: ~7 sec

Remote Sensing

- Solar Occultation Flux (SOF)
- Zenith-looking Differential Absorption Spectroscopy (DOAS)

MOBILE ORS MEASUREMENTS NEAR OIL WELLS: SURVEY AREAS



MOBILE ORS MEASUREMENTS NEAR OIL WELLS: SUMMARY AND FINDINGS

| Region | Number of wells within 200 feet | Number of well sites with leaks | Measurement Date | Site Name/Location | Maximum Total Alkanes* (ppb) | Maximum Benzene* (ppb) |
|--------|---------------------------------|---------------------------------|------------------|------------------------------|------------------------------|------------------------|
| D | 219 | 0 | 3/2/2021 | N/A | 392 | 11** |
| E | 18 | 0 | 3/18/2021 | N/A | 628 | 4 |
| F | 70 | 4 | 03/04/2021 | Linden and Spring (2-wells) | 1711 | 28 |
| | | | 03/19/2021 | | < MDL | < MDL*** |
| | | | 03/04/2021 | Pasadena and Spring | 1243 | 3 |
| | | | 03/19/2021 | | 8007 | < MDL |
| | | | 03/04/2021 | E 28 th and Olive | 1397 | 6 |
| | | | 03/19/2021 | | 4789 | 10 |

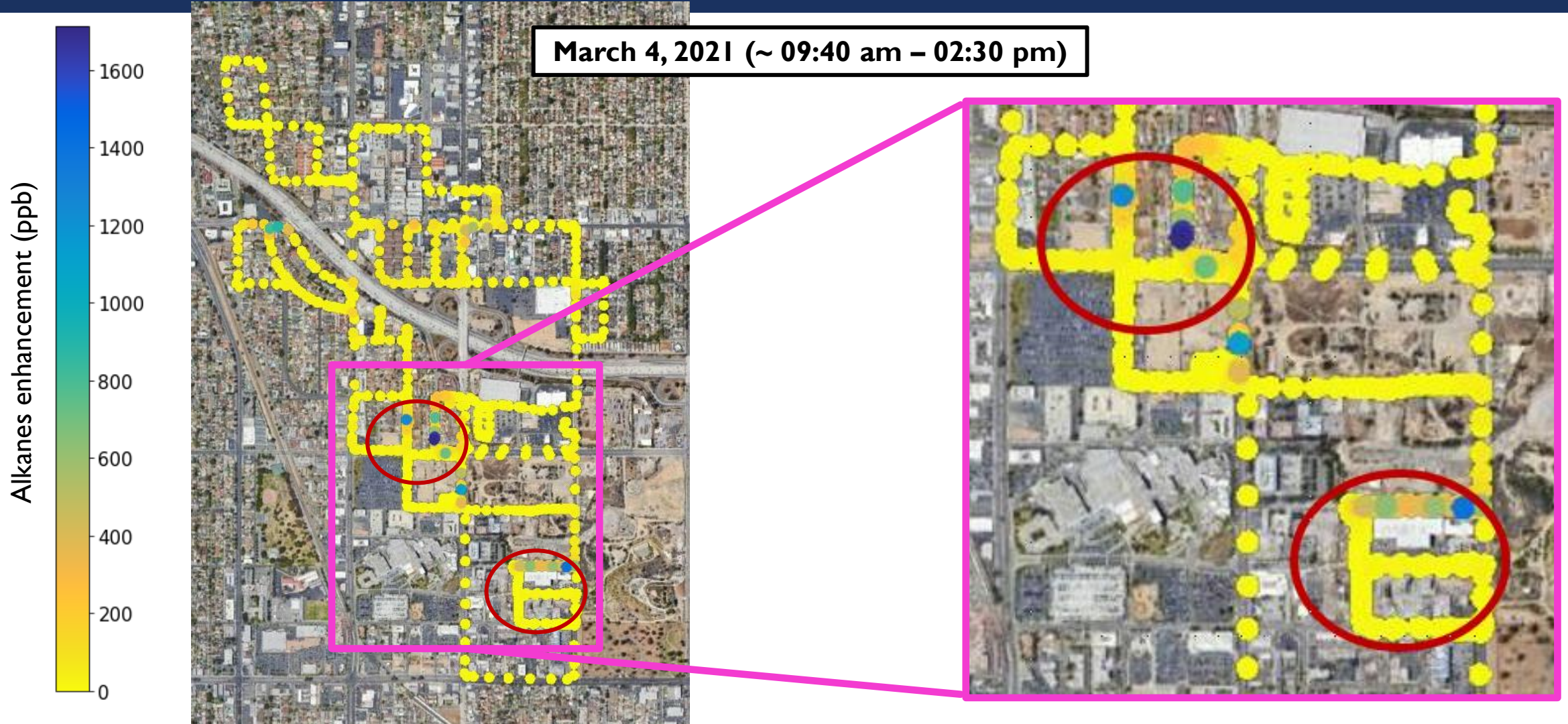


*Maximum instantaneous concentration

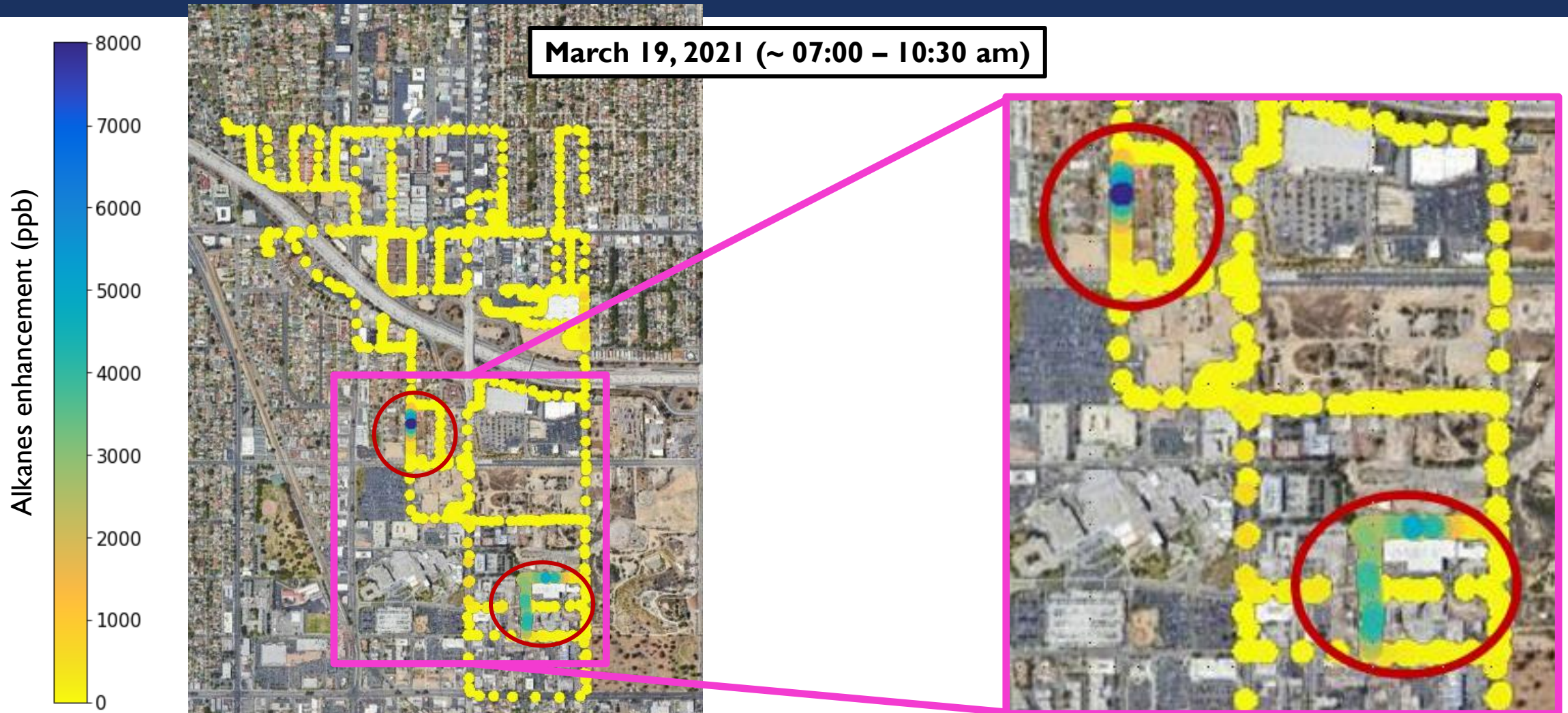
**Measurements downwind of a gas station

***Benzene measurements were not available for the first half of the day because of instrument connectivity issues

MOBILE ORS MEASUREMENTS NEAR OIL WELLS: REGION F MEASUREMENTS OVERVIEW



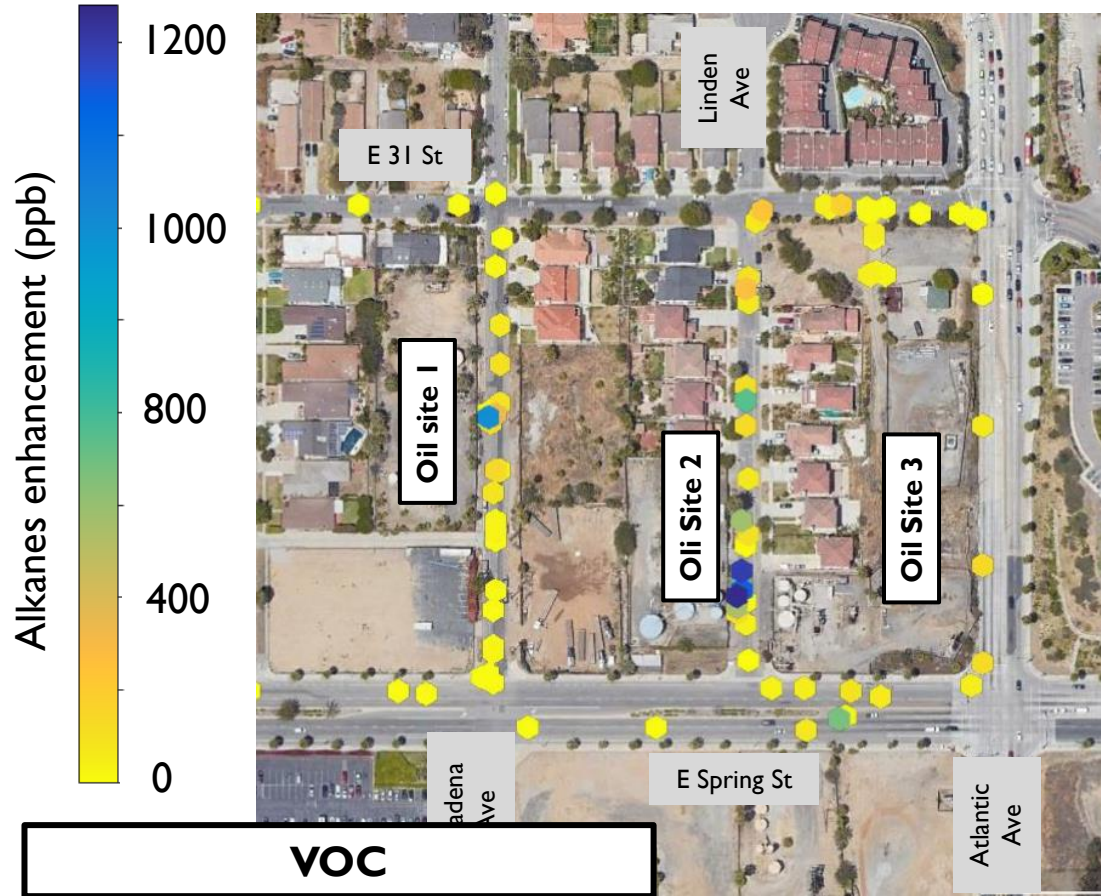
MOBILE ORS MEASUREMENTS NEAR OIL WELLS: REGION F MEASUREMENTS OVERVIEW



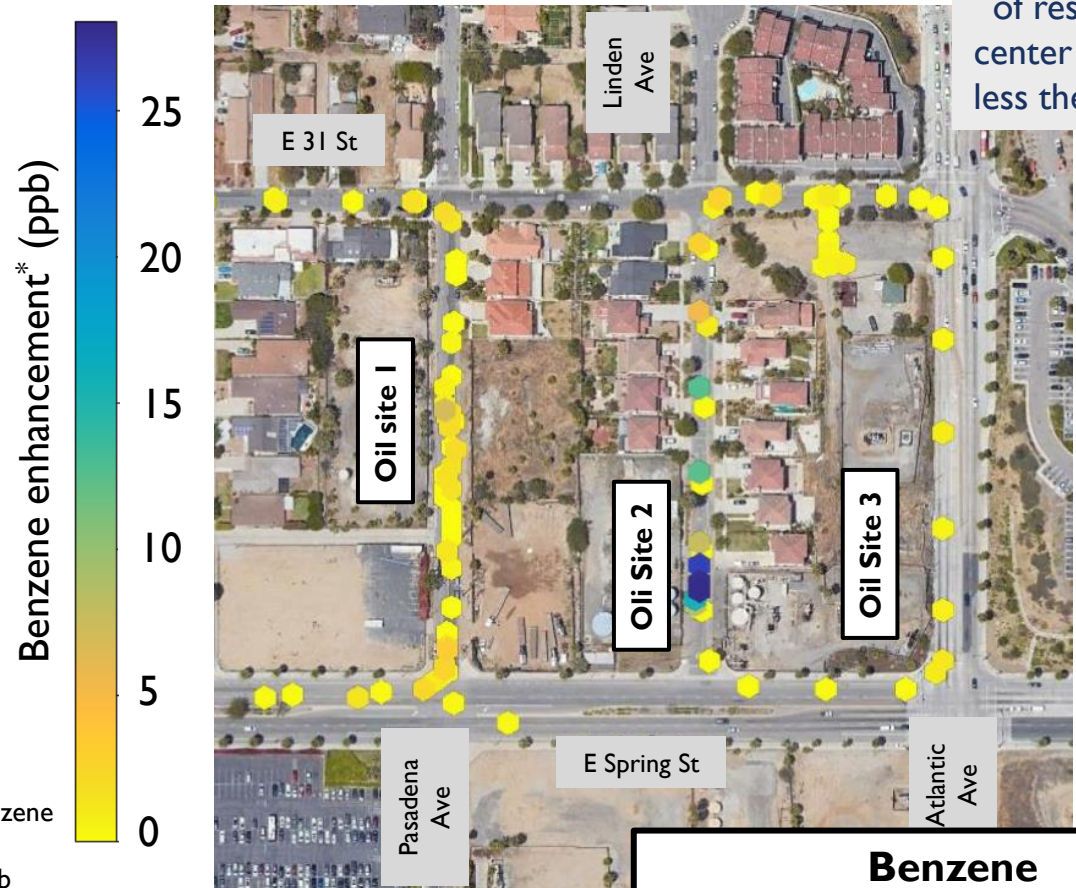
MOBILE ORS MEASUREMENTS NEAR OIL WELLS: OIL SITES NEAR PASADENA, LINDEN AND SPRING

March 4, 2021 (~ 10:30 am – 01:10 pm)

Distance between center of residence to center of Site 3 is less than 100 feet



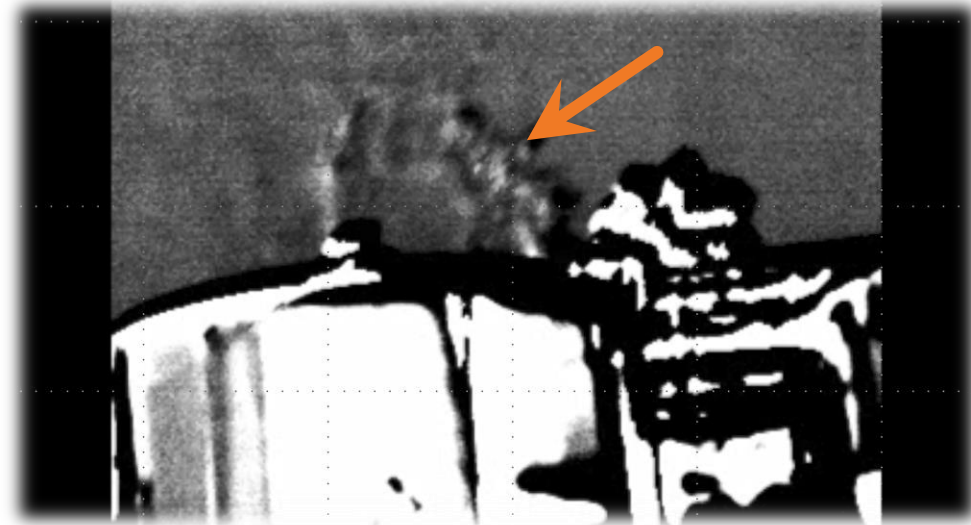
*Typical benzene range: 0.1 – 1.8 ppb



MOBILE ORS MEASUREMENTS NEAR OIL WELLS: OIL SITES NEAR PASADENA, LINDEN AND SPRING (CONT.)

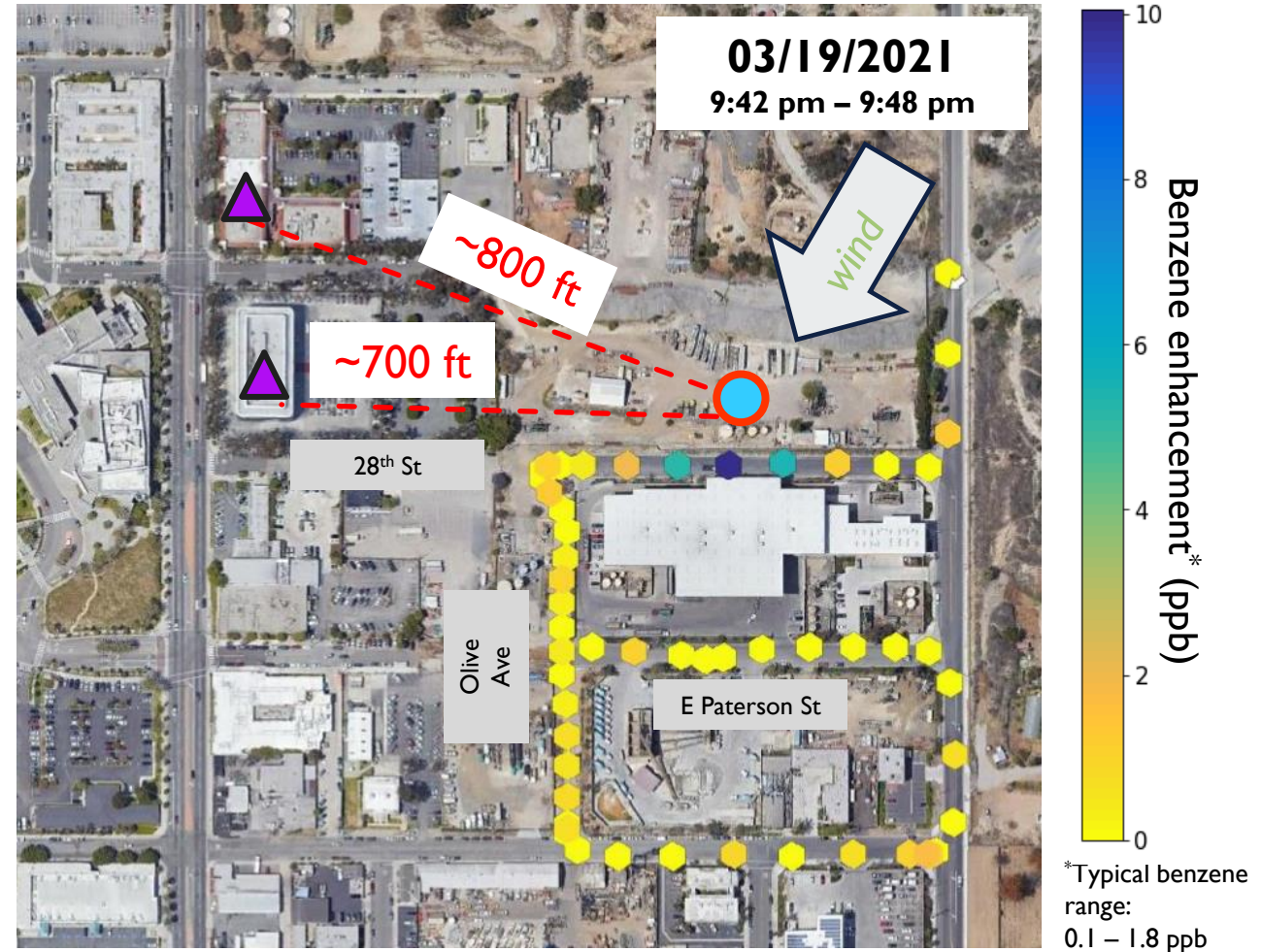
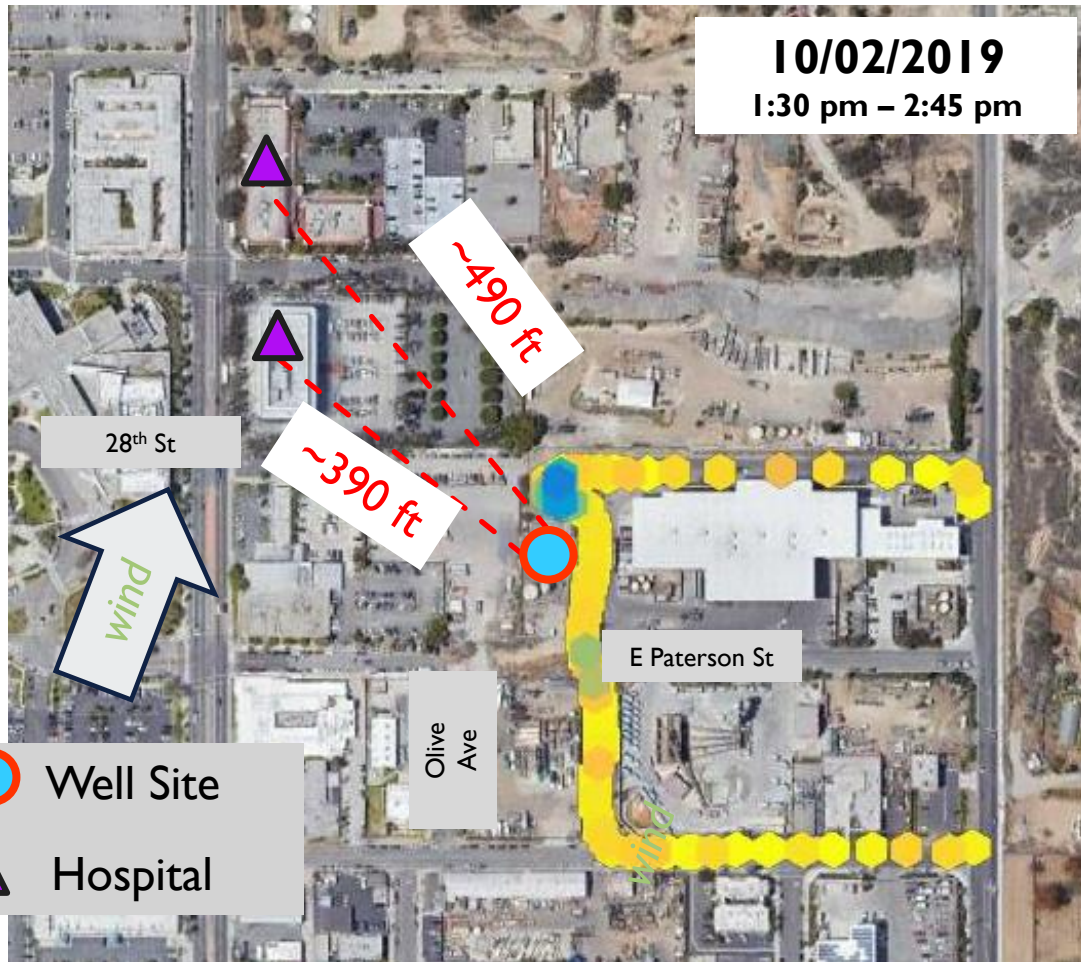


Street View of the Oil Site 3 and closest adjacent residence



Gas Imaging Camera video of fugitive emissions

MOBILE ORS MEASUREMENTS NEAR OIL WELLS: OIL SITES NEAR OLIVE AND PATERSON



COMMUNITY OIL WELLS PILOT SAMPLING INITIATIVE



- South Coast AQMD Staff has identified and is in the process of procuring suitable hand-held VOC devices for this task
- Collaboration with C.F.A.S.E



REFINERY MONITORING: RULE 1180 PROGRAM



South Coast AQMD - Rule 1180 Community Air Monitoring

■ Rule 1180 Refinery Fenceline and Community Air Monitoring

Fenceline Air Monitoring

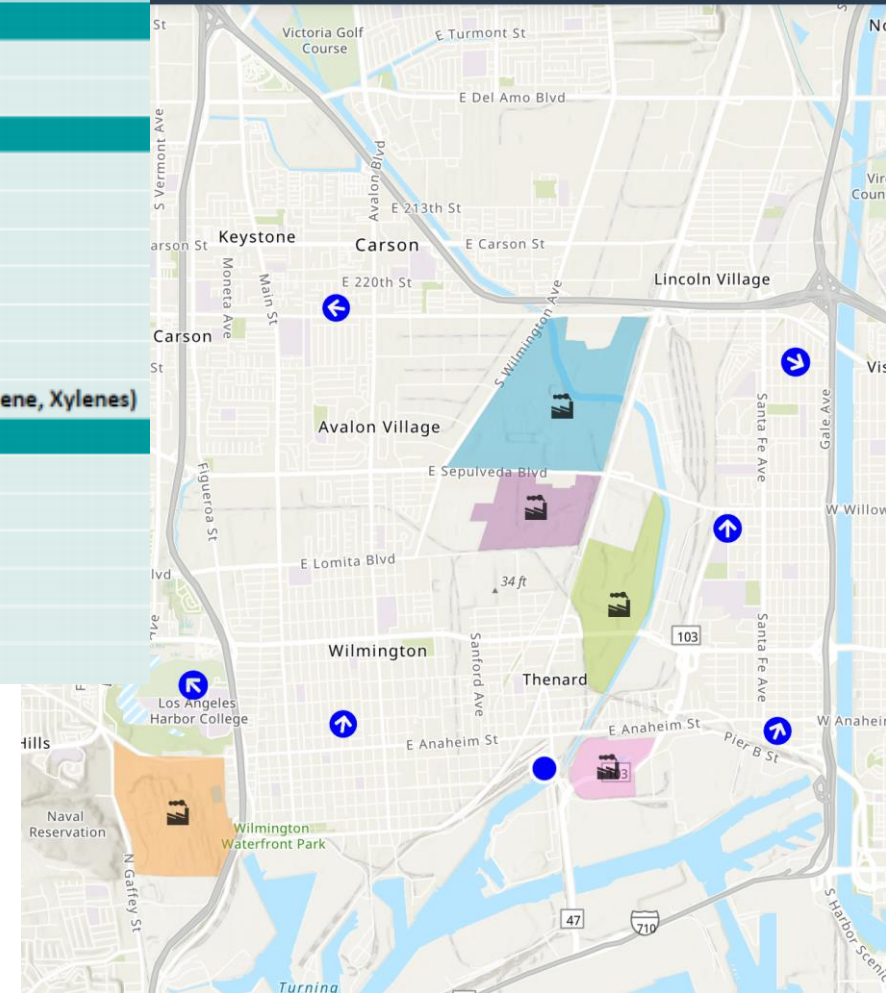
- Refineries: fenceline air monitoring of air toxics and other pollutants

Community Air Monitoring

- South Coast AQMD: network of air monitoring stations in communities adjacent to refineries

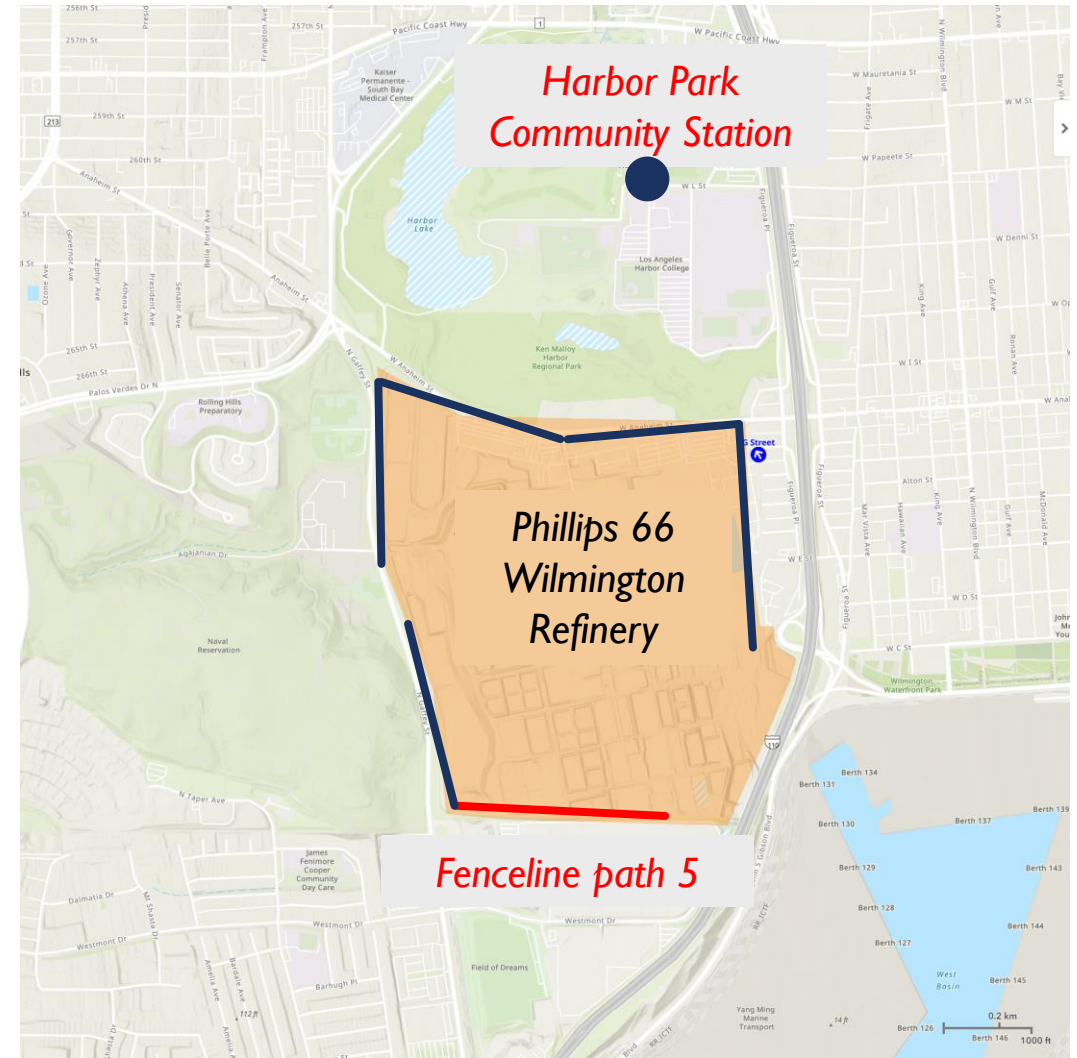
| Criteria Air Pollutants |
|--|
| Sulfur Dioxide |
| Nitrogen Oxides |
| Volatile Organic Compounds |
| Total VOCs (Non-Methane Hydrocarbons) |
| Formaldehyde |
| Acetaldehyde |
| Acrolein |
| 1,3-Butadiene |
| Styrene |
| BTEX Compounds (Benzene, Toluene, Ethylbenzene, Xylenes) |
| Other Compounds |
| Hydrogen Sulfide |
| Carbonyl Sulfide |
| Ammonia |
| Black Carbon |
| Hydrogen Cyanide |
| Hydrogen Fluoride* |

*For refineries using Hydrogen Fluoride



REFINERY MONITORING: RULE 1180 FENCELINE BENZENE EXCEEDANCES

- Benzene exceedances occurred at fenceline path 5 on March 11-17, 2021
 - Exceedance level for benzene: 8 ppb (OEHHA 1-hr REL); measured as a 1-hr rolling average
- Compliance staff conducted inspections
- Refinery staff conducted investigations and repairs
- No impact on air quality at Harbor Park Community Station



REFINERY MONITORING: RULE 1180 FENCELINE BENZENE EXCEEDANCES SUMMARY

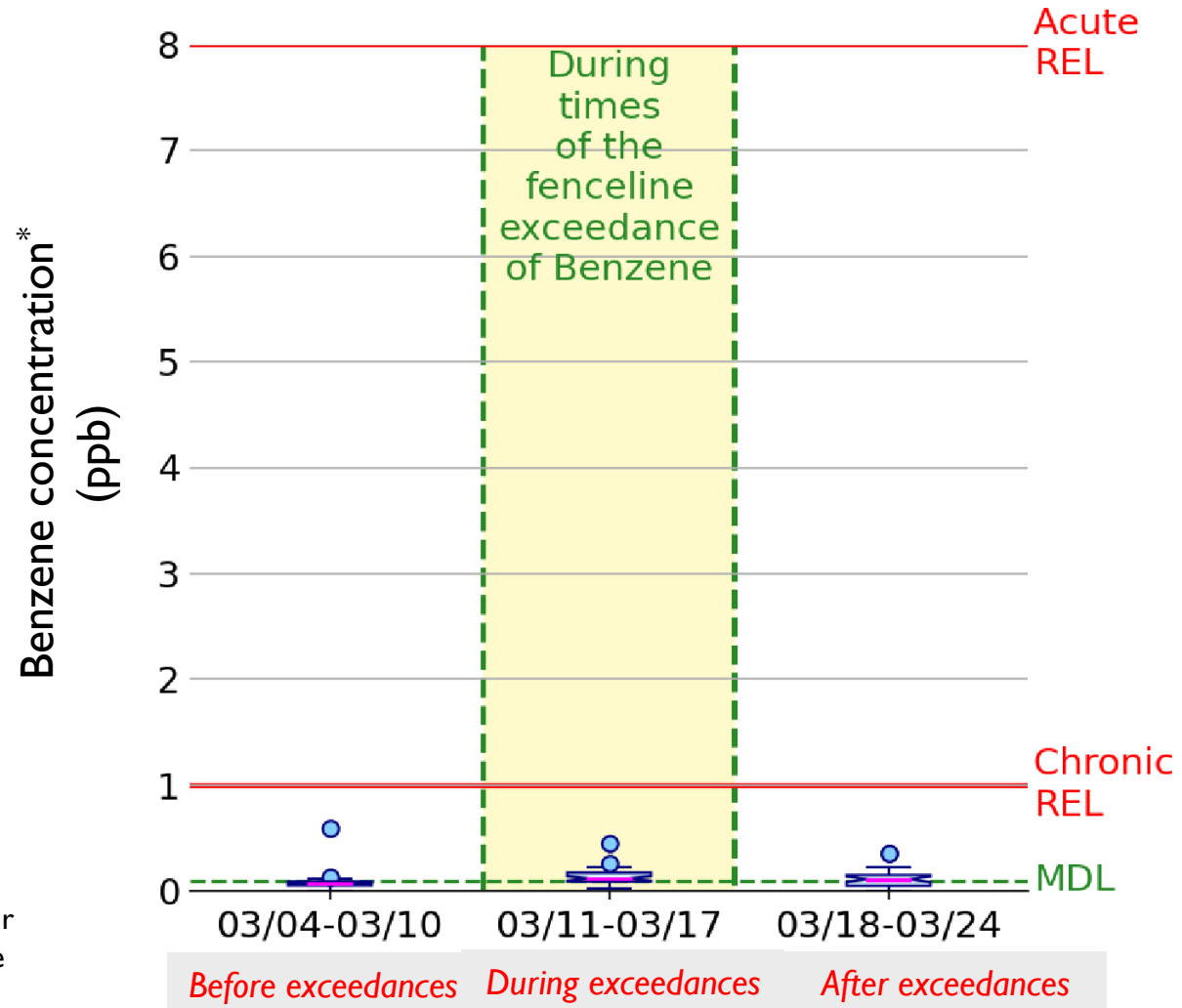
| Date | Number of Exceedances | Duration of the exceedances per day (Minutes) | Maximum 5 minute Concentration at the fenceline (ppb) | Maximum 1 hour Concentration at the fenceline (ppb) | Concentrations in the community during exceedance events (Harbor Sports Site)* |
|------------|-----------------------|---|---|---|--|
| 03/11/2021 | 2 | 152 | 26.0 | 21.88 | <0.1-0.25 |
| 03/12/2021 | 3 | 195 | 25.9 | 25.07 | <0.1-0.49 |
| 03/13/2021 | 1 | 123 | 22.7 | 15.89 | <0.1-0.59 |
| 03/14/2021 | 0 | N/A | 16.7 | 2.75 | N/A |
| 03/15/2021 | 2 | 193 | 18.9 | 16.55 | <0.1-0.15 |
| 03/16/2021 | 1 | 153 | 13.0 | 11.05 | 0.11-0.25 |
| 03/17/2021 | 1 | 194 | 22.4 | 17.88 | 0.18-0.63 |

*Method detection level (MDL) for benzene is 0.1 ppb

All benzene exceedances were from one tank. The refinery identified and corrected the issue.

REFINERY MONITORING: BENZENE CONCENTRATIONS IN THE COMMUNITY

- Benzene concentrations in the community were below acute and chronic levels, and within typical levels



*Measured by Auto-GC at Harbor Park Community Air Monitoring Station when station was downwind of the refinery

DISCUSSION

- Comments, Suggestions, Questions

Please contact:
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909-396-3157



NEXT STEPS

Future Announcements

- Newsletters
- Continue CERP implementation

Future Meeting

- Tentatively August 2021 (virtual)
- AQ Priority Updates & Agenda Topics
 - What would you like to hear about?
(i.e., Community Air Grant updates)
- Other topics?

Public Comment

SOUTH COAST AQMD CONTACTS: WCWLB



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