AB 617
WCWLB
CSC Member Updates
Outreach Updates
INCENTIVES BUDGETING DISCUSSION
RECAP AND NEXT STEPS

WALTER SHEN
PROGRAM SUPERVISOR
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

1. Develop Project Plan
2. Submit Plan to CARB for approval
3. Develop Request for Proposals (as needed)
4. Governing Board approval (as needed)
PROJECT PLAN – REQUIRED ELEMENTS

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


- South Coast AQMD website for Community Air Protection Incentives: https://www.aqmd.gov/cappincentives
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 WCWLB

UPCOMING DATES

- Warehouse Operations Notification (Sept 1, 2021)
- First Compliance Period for Warehouses ≥ 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 WCWLB
OLGA PIKELNAYA PH.D
PROGRAM SUPERVISOR
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: Summary and Findings

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

*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

Alkanes enhancement (ppb)

March 4, 2021 (~ 09:40 am – 02:30 pm)
MOBILE ORS MEASUREMENTS NEAR OIL WELLS: REGION F MEASUREMENTS OVERVIEW

March 19, 2021 (~ 07:00 – 10:30 am)
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
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

10/02/2019
1:30 pm – 2:45 pm

03/19/2021
9:42 pm – 9:48 pm

Typical benzene range:
0.1 – 1.8 ppb
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

- 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
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

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

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

All benzene exceedances were from one tank. The refinery identified and corrected the issue.
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:
Olga Pikelnaya
opikelnaya@aqmd.gov
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

- **CERP**
  Nicole Silva  
  Program Supervisor  
  nsilva@aqmd.gov  
  909-396-3384

- **CAMP**
  Payam Pakbin  
  Program Supervisor  
  ppakbin@aqmd.gov  
  909-396-2122

- **CSC**
  Ryan Stromar  
  Senior Public Information Specialist  
  rstromar@aqmd.gov  
  909-396-2637