Community Meeting

Study of Neighborhood Air near Petroleum Sources (SNAPS)

JULY 9, 2019
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Introduction and Motivation
Scope of Work
Monitoring Equipment
Potential Monitoring Sites
Next Steps
Q&A
What is SNAPS?

Study of Neighborhood Air near Petroleum Sources
Motivation for SNAPS

- Exposure concerns raised by communities
- Aliso Canyon underground natural gas storage leak
- California Council on Science and Technology (CCST) recommendations
- Part of broader CARB effort to understand impacts of oil and gas operations
First Round Communities

1. Lost Hills
2. Baldwin Hills
3. McKittrick/ Derby Acres
4. South Los Angeles
SNAPS Scope

Program Goals

Characterize air quality in communities near oil and gas operations

Identify pollution sources as feasible

Analyze data for possible health risks

Major Pollutants

Toxic Air Contaminants (TACs)

Volatile Organic Compounds (VOCs)

Criteria (Smog Forming) Pollutants (particulate matter, carbon monoxide, sulfur dioxide, ozone)

Metals

Glycols

Hydrogen Sulfide

Methane
Stationary Trailer

Limited-term, intensive air pollutant monitoring
State-of-the-art instrumentation
Capability to monitor over 200 pollutants
Mobile Monitoring Vehicle

Community and near-source air pollutant screening
Provide measurements as needed away from trailer
Can be used to supplement trailer monitoring

Pollutants:
  - Methane
  - Carbon dioxide/monoxide
  - Hydrogen Sulfide
  - BTEX
  - Speciated VOCs
## Communicating Results

<table>
<thead>
<tr>
<th>Response Tier</th>
<th>Pollutant/criteria</th>
<th>Time to Public Posting of Data</th>
<th>Agencies included in analysis</th>
<th>Agencies notified if Standards are Exceeded</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Tier I</strong></td>
<td>Data collected in real time</td>
<td>CH$_4$, H$_2$S, O$<em>3$, CO, Black Carbon, PM$</em>{2.5}$</td>
<td>Hourly$^{(1)}$</td>
<td>CARB OEHHA</td>
</tr>
<tr>
<td><strong>Tier II</strong></td>
<td>All other data</td>
<td>Toxic air contaminants (TACs), non-TAC VOCs and metals</td>
<td>With published study$^{(2)}$</td>
<td>CARB OEHHA</td>
</tr>
</tbody>
</table>

Note: If data show potential for immediate health impact, CARB and OEHHA will notify CalOES immediately. If preliminary data show potential levels of concern, CARB and OEHHA will evaluate and inform districts and communities as appropriate.

$^{(1)}$ Results streamed hourly on [project website](#).
$^{(2)}$ Study will be published as quickly as possible.
Prospective Monitoring Sites
Prospective Monitoring Sites

KENNETH HAHN STATE RECREATION AREA

- <1/8 mile downwind of Inglewood Oil Field
- Downwind of gas plant and La Cienega Blvd

WINDSOR HILLS ELEMENTARY SCHOOL

- 1/4 mile downwind of Inglewood Oil Field
- Close proximity to La Brea Ave, Stocker St
Prospective Monitoring Sites

NORMAN O. HOUSTON PARK
- 1/8 mile downwind of Inglewood Oil Field
- Close proximity to La Brea Ave, Stocker St

JIM GILLIAM PARK AND RECREATION CENTER
- 1 mile downwind of Inglewood Oil Field
- Adjacent to La Brea Ave
Prospective Monitoring Sites
HILLCREST DRIVE
ELEMENTARY SCHOOL

• 1 1/3 miles downwind of Inglewood Oil Field
• Close proximity to W Martin Luther King Jr Blvd

CARB is looking for input from the community. Are there other locations we should consider?
What are the next steps?

**Future Community Meetings**
- Air monitoring kickoff meeting
- Mid-monitoring meeting
- Final report meeting

**Data Analysis and Final Report**
- CARB
- OEHHA
- Final report community meeting
  - Discuss results and conclusions
  - Explore follow-up measures and broader solutions, as appropriate
OEHHA Evaluation of Potential Health Risks

Compare short- and longer-term exposure levels to health-based guidance values

*Acute, 8-hour, chronic Reference Exposure Levels (RELs)*

*Cancer potencies*

Characterize potential health risks

Follow up on measured chemicals without existing guidance levels
What are the next steps? (cont.)

If elevated concentrations found:
- Attempt to determine the source
- Coordinate with SCAQMD and DOGGR
- Work with operators and industry to pursue solutions
- Explore broader solutions, as appropriate
Resources and Contact Information

• Project webpage
  https://ww2.arb.ca.gov/our-work/programs/study-neighborhood-air-near-petroleum-sources

• Visit project webpage to Subscribe and receive email updates

• Email us at SNAPS@arb.ca.gov or call contacts below:

  Events & General Project Questions
  Carolyn Lozo, Chief
  Oil and Gas and Greenhouse Gas Mitigation Branch
  California Air Resources Board
  (916) 445-1104

  Air Monitoring Technical Questions
  Walter Ham, Manager
  Advanced Monitoring Techniques Section
  California Air Resources Board
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