



Community Meeting

Study of Neighborhood Air near Petroleum Sources (SNAPS)

JULY 8, 2019

CULVER CITY SENIOR CENTER

Outline



Introduction and Motivation

Scope of Work

Monitoring Equipment

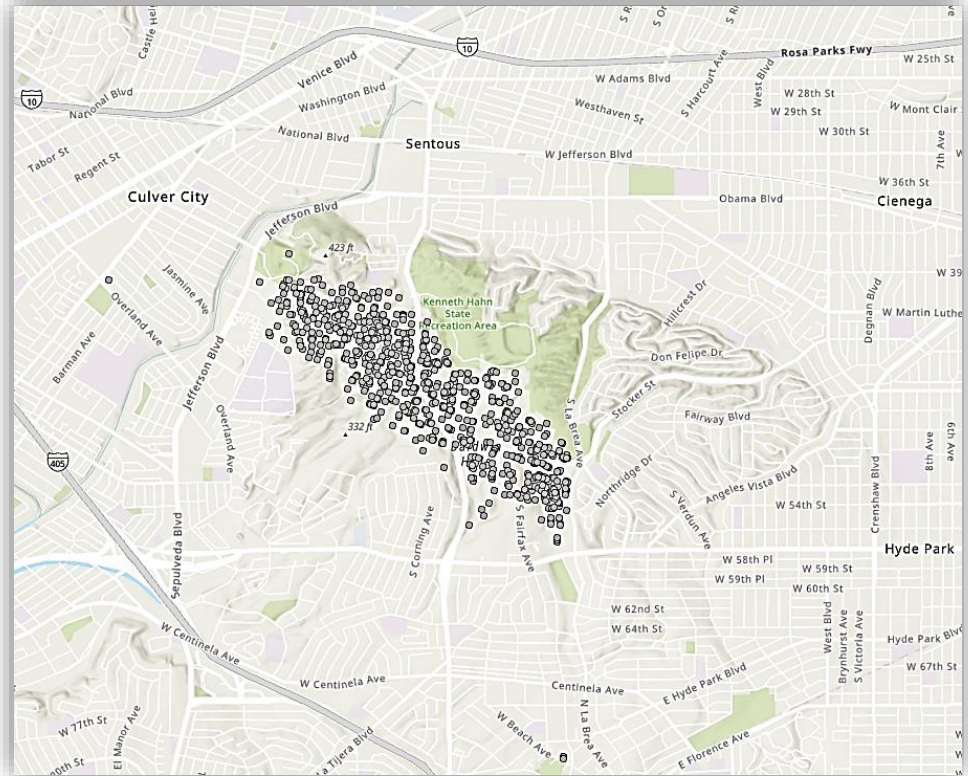
Potential Monitoring Sites

Next Steps

Q&A

What is SNAPS?

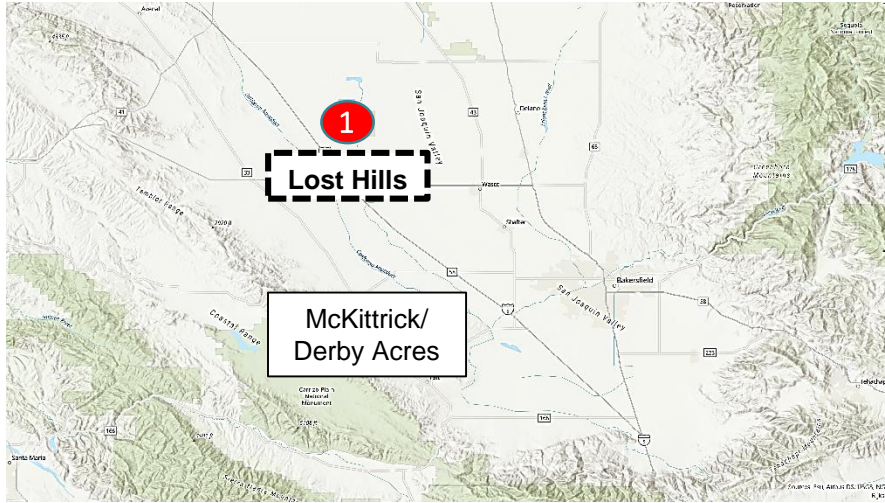
Study
of
Neighborhood
Air
near
Petroleum
Sources



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



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

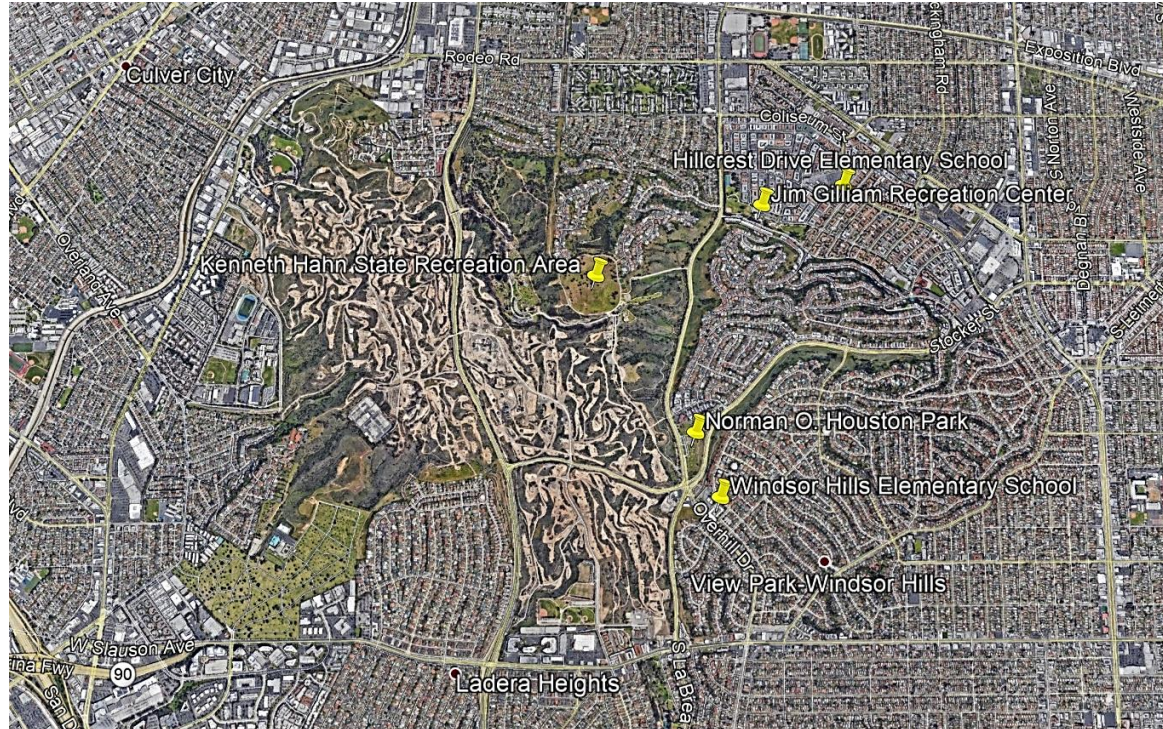
Response Tier	Pollutant/criteria	Time to Public Posting of Data	Agencies included in analysis	Agencies notified if Standards are Exceeded
Tier I Data collected in real time	CH ₄ , H ₂ S, O ₃ , CO, Black Carbon, PM _{2.5}	Hourly ⁽¹⁾	CARB OEHHA	Air districts
Tier II All other data	Toxic air contaminants (TACs), non-TAC VOCs and metals	With published study ⁽²⁾	CARB OEHHA	Air districts CalEPA

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](#).

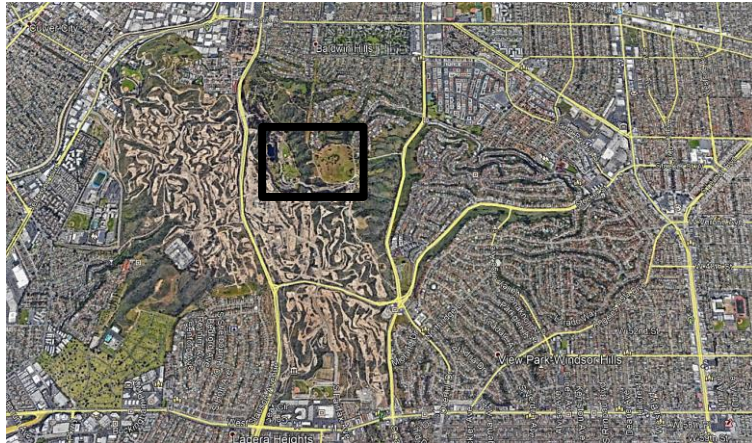
(2) Study will be published as quickly as possible.

Prospective Monitoring Sites

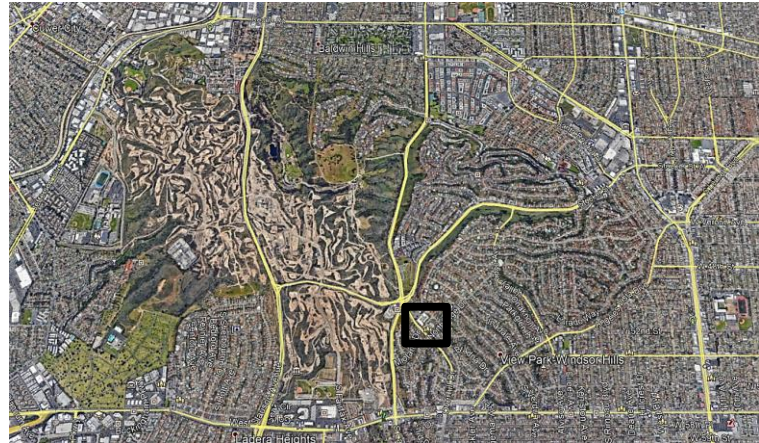


Prospective Monitoring Sites

KENNETH HAHN STATE RECREATION AREA



WINDSOR HILLS ELEMENTARY SCHOOL

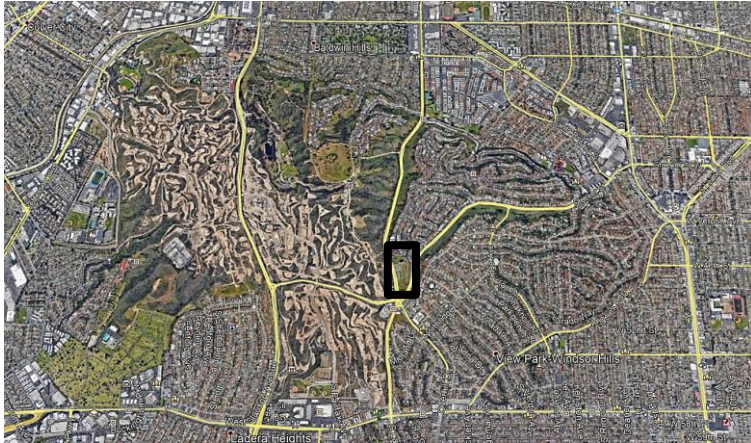


- <math><1/8</math> mile downwind of Inglewood Oil Field
- Downwind of gas plant and La Cienega Blvd

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

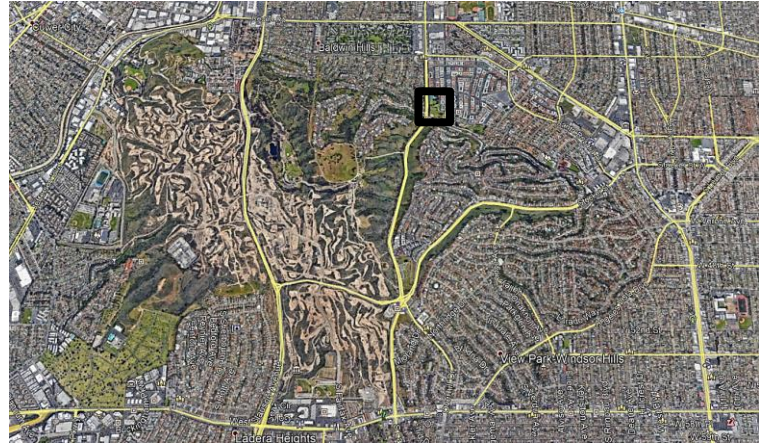
Prospective Monitoring Sites

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

SUGGESTIONS?



- 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
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Air Monitoring Technical Questions

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