

Study of Neighborhood Air near Petroleum Sources: Lost Hills Draft Report Community Meeting Summary and Notes, March 2024

Meeting Summary

Lost Hills is the first community to receive air monitoring under the Study of Neighborhood Air near Petroleum Sources (SNAPS) program, where staff collected air monitoring data for nearly one year from May 2019 through April 2020. California Air Resources Board (CARB) and the Office of Environmental Health Hazard Assessment (OEHHA) staff released the *Lost Hills Draft Final Report* on January 26, 2024, for public comment. On March 6, 2024, CARB and OEHHA staff held a *community meeting in Lost Hills* to discuss key findings in the draft report. The meeting was led in Spanish, with live interpretation to English.

There were approximately 30 attendees, primarily residents of Lost Hills, as well as representatives from the oil and gas industry and local elected officials. The community and other participants provided recommendations and comments on the draft report and *presentation*, which are detailed in the notes and pictures below. These comments will be reviewed and considered for additions or clarifications to the draft report, as feasible.

Meeting Notes

- One resident's observations of the meteorology in Lost Hills - winds most often blow from the north-northwest to the east.
- What are other local sources of pollution beyond the oil field?
- What are the likely sources of metals?
 - Smoke, dust, aerosols.
- How is the smoke coming from so far away still toxic when there are local emission sources located so much closer to town?
- Note that in September 2023, there was a fire nearby. Northwestern winds pushed the smoke out quickly and did not impact the nearby community of Arvin.
- Are impacts from COVID-19 reflected in the draft report?
- When presenting the "2019 Wind Event," consider increasing the time-period examined.
- Smoke from the recent Canadian wildfires dispersed over time. What percentage of results in the SNAPS Lost Hills draft report were due to wildfires compared to air quality impacts from local sources?
- Slide 14: Do these data show impacts from the gas processing plant?
- Is it possible for CARB staff to monitor during the late evening/early morning hours when concentrations of several pollutants were higher?
- Observations show increased semi-traffic during the late evening/early morning hours, creating lots of brake dust via resuspension. Is this an issue that was analyzed?

- Was local agricultural burning, spill reports, and other CalOES data investigated during analysis?
- During harvest (Fall), trucks are a concern. What traffic patterns were observed throughout the year of monitoring?
- Slide 19: What are the sources of acrolein?
 - From a google search, one can find several potential sources of acrolein. For example, it can be used in oil and gas production and as a bactericide in aqueducts. Do CARB and OEHHA have any idea what the sources of acrolein are?
 - There are known acrolein uses in the oil and gas industry - look for reported usage.
 - Name other sources of acrolein in the report, including use of it in water systems.
- Use and describe more data that relates acrolein to respiratory effects, including asthma which is prevalent in the community.
- There are truck stops/idling/loading/unloading on Highway 46. Acrolein could be from these vehicles, as well as other known sources.
- The SUMMATION study¹ found giant methane plumes from oil and gas sources, with this area having the highest PM_{2.5} in the region.
- The wording in the draft report downplays air quality impacts.
- Should the community feel safe about the 710 in one million excess cancer risk?
- Regarding the pollution roses/polar frequency plots (slides 22 and 23), did observations and data from mobile and stationary monitoring show highest concentrations of pollutants coming from the oil field?
- Slide 22: How long do the measurements and data cover in these figures?
- The meteorology shows predominate wind from the west to east - is there a discrepancy when comparing that result to the results in slide 22?
- What other areas in California are like Lost Hills when it comes to air pollution?
- Slide 32: Members of the community have or have died from cancer. This is a serious issue - don't downplay the results. Please do something about the air quality.
- Include in the health study symptoms where co-morbidities are seen.

¹ Lawrence Berkeley Laboratory. SUMMATION, A New Approach for Detecting & Mitigating Methane Emissions to Fight Climate Change. <https://summation.lbl.gov/>.

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• Meteorology Observations by resident:

NorthWest → East

- Other local sources?
- Sources of metals? smoke, dust, metals
- Smoke compounded by existing pollutants.
How is it so toxic after coming so far?
- Sept 2023 Fire nearby - NW winds pushed smoke out - didn't impact ARVIN.
- ~~How does~~ is COVID Reflected?
- 2019 Wind event: increase time period examined

- Fire smoke from Canada - can disperse.
- What % of results is due to wildfire?
how much is local & staying here?
- (heat map slide) - ~~does this~~ do these data show impacts from gas proc. plant?
- early AM/late eve: did anyone from CARB come during these times? Obs ↑ semitraffic. ~ lots of brake dust - is this the issue? resuspension.
- local ag burning + spill reports? or assumption?
looked @ this? (CALOES)
- during harvest trucks are concerns. Why patterns throughout year?
- Slide 19 what is source of acrolein?
- acrolein - ^{can find sources} google search → bacteriaicide, in aquaduct & also in wells.
→ do we have an idea? or guess?

- Truck stops on hwy 46 - idling, stationary, load. acrolein could be from vehicles. (as well as other known sources)
- Summation - found giant CH₄ plumes - from O₂g. highest PM_{2.5} in region,
- * wording^m report down plays impacts.
 - = Break =
- 710 cancer risk - Should we feel safe about it?
- (pollution rose) / mobile monitoring obs. from data did highest conc. from oil field?
- Slide 22 - how long do the meas/data cover? - sl
 - Met - shows predominate wind from West → East
 - ~~data~~ what 2 areas ^{in CA} are like LH?
 - ↑ differences ??
 - ↓ discrepancy
- Slide 32 - cancer slide
 - ↑ look use information? (reported?)
- acrolein - known uses # also uses in oil industry
- name other sources of acrolein in report. (use in H₂O systems)
- health study / symptoms where co-morbidities are seen
- get data for asthma ↔ acrolein Respiratory effects