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March 10, 2022

**ADDENDUM NUMBER 2
TO
REQUEST FOR PROPOSALS
FOR
ALISO CANYON DISASTER HEALTH RESEARCH
STUDY SERVICES RFP NO. 2022-003**

On January 18, 2022, the County of Los Angeles (County) Department of Public Health (Public Health) released a Request for Proposals (RFP) for Aliso Canyon Disaster Health Research Study Services.

Pursuant to RFP, Section 7.0, Proposal Submission Requirements, Subsection 7.4, Proposers' Questions, answers to questions received by the February 18, 2022, deadline are being issued as part of this Addendum. Proposers are advised that the County reserves the right to group similar questions when providing answers.

SECTION 3.0 – PROPOSER’S MINIMUM MANDATORY QUALIFICATIONS (MMQ)

- Q1. If multiple PIs, does each PI have to have three first/last author environmental publications, given the RFP states that this condition can be satisfied by sub-contracts/consultants?**
- Q2. If we have 2 Principal Investigators (a mPI [MultiplePI] mechanism), and one of the PIs meet requirement 3.2 and 3.4, does the second PI also need to meet requirement 3.2 and 3.4?**
- Q3. In section 3.0 "PROPOSER’S MINIMUM MANDATORY QUALIFICATIONS (MMQ)" of the RFP, it states that Subcontractor(s) and/or consultant(s) may be used to meet 3.2, 3.3, and 3.4 of the MMQ. Does this mean that the PI(s) does not have to have three first- or last-author publications in environmental health (requirement 3.4) as long as subcontractor(s) and/or consultant(s) have it? Also, if one of the PIs or co-investigator(s) have three such publications, will this satisfy the requirement of 3.4 for other PI(s) so the other PI(s) does not have to have three such publications anymore?**

A1-3. If more than one Principal Investigator (PI) is assigned to the Aliso Canyon Disaster Health Research Study (Health Study), each PI must meet each of the requirements specified in RFP Sections 3.2 to 3.4, Proposer's Minimum Mandatory Qualifications. This requirement also applies to sub-contracted Principal or Co-Principal Investigators.

Subcontractor(s) and/or consultant(s) may be used to meet 3.2, 3.3, and 3.4 of the Proposer's Minimum Mandatory Qualifications if the subcontractor(s) and/or consultant(s) are assigned to the Health Study as PI(s).

Q4. Is environmental health defined broadly for the PI, such as areas included by CDC?

Q5. The RFP says that the environmental health needs to be physical environmental health, can we use broad definition for environmental health from CDC and if social environment (e.g., neighborhood environment, friend relationship, peer relationship) is part of environment health definition?

A4-5. Yes, environmental health is defined broadly as human health related to the physical environment, refer to RFP Section 3.0 – Proposer's Minimum Mandatory Qualifications, for the Principal Investigator(s) and includes environmental health topics listed on the Centers for Disease Control and Prevention (CDC) website (<https://www.cdc.gov/ncehl/>).

Environmental health also encompasses the social environment including its various levels of influence on physical health, mental health, quality of life and wellbeing. This includes interpersonal relationships as well as the neighborhood/community environments. Health Study(s) are required to take a social-ecological approach to the investigation of impacts of the Aliso Canyon Disaster on health, quality of life and well-being, refer to Section 8.1 of the Statement of Work (RFP Appendix A-1). Please refer to CDC's social ecological model for more information:

https://www.atsdr.cdc.gov/communityengagement/pce_models.html.

SECTION 7.0 – PROPOSAL SUBMISSION REQUIREMENTS

Q6. How do I work on this?

A6. Please refer to RFP, Section 7.0 - Proposal Submission Requirements, Subsection 7.8 – Preparation of the Proposal, and Subsection 7.9 – Proposal Format, for instruction on Proposal preparation.

Q7. When will this ppt be available? And recording?

Q8. When will this presentation and recording be made available?

Q9. When will this presentation and recording be made available? Will it be before you share the answers to written questions?

A7-9. The recording of the Proposers' Virtual Conference will be available via written Addendum 2, with the response to written questions. A copy of the Power Point Presentation is attached as Attachment I. The recording of the Virtual Proposers' Conference is available on our website <https://youtu.be/rWt4kNG1fas>.

Q10. For academic institutions, what kind of financial statements are needed? The way they were outlined seems more appropriate for a private sector business.

A10. Pursuant to RFP Subsection 7.9.3 - Proposer's Qualifications (Section A), section F. Financial Capability (Section A.5), the title of financial statements may differ depending on the nature of the entity (i.e., for-profit, non-profit, governmental). For example, for a non-profit entity the Balance Sheet is referred to as the Statement of Financial Position.

8.0 – SELECTION PROCESS AND EVALUATION CRITERIA

Q11. Can you explain in more details how the 836 points for the study are distributed? This is included in the ppt presentation which will be made available online.

A11. Pursuant to RFP Section 8.4 - Stage 2 Review: Proposal Evaluation and Criteria (1,376 Points), Subsection 8.4.3 - Proposer's Approach to Providing Required Services – Proposal Section C (836 Points), the proposer will be evaluated on its description of the methodology to be used to meet the County's requirements based on information provided in sub-section 7.9.5, (Proposer's Approach to Provide Required Services [Section C]) of the proposal. Please refer to RFP Subsection 7.9.5 - Proposer's Approach to Provide Required Services (Section C), for details on the narrative response required for each requirement/section in Section C of the Proposal.

Q12. Can you explain what is "Proposal qualification: Reference"?

A12. Pursuant to RFP Section 8.4 - Stage 2 Review: Proposal Evaluation and Criteria (1,376 Points), Subsection 8.4.1 - Proposer's Qualifications – Proposal Section A (40 Points), Number 1., Proposer's References (40 Points), Proposer will be evaluated on the verification of references provided on Appendix D – Required Forms, Exhibit 4, Prospective Contractor References. In addition to the references provided, a review will include the Contractor Alert Reporting Database, if applicable, reflecting past performance history on County or other contracts.

APPENDIX A-1 – STATEMENT OF WORK

Q13. Will toxicological studies be allowed in this project?

A13. Yes, toxicological studies will be considered, provided that your research plan meets all the work requirements outlined in the Statement of Work (RFP Appendix A-1).

Please refer to Section 8.0 of the Statement of Work (RFP Appendix A-1) for specific work requirements.

Q14. For the 5-mile study area, do they want us to include any community that intersects with the 5-mile buffer or limit ourselves to the Euclidian distance?

A14. Proposers are responsible for determining the study area for their proposed Health Study(s). Proposers are not limited to a 5-mile study area or to communities as the unit of analysis. Furthermore, Proposers are advised not to look at communities as jurisdictions but instead at residents of the area who may be clustered in communities. Please refer to the Statement of Work (RFP Appendix A-1) for specific work requirements.

Q15. To what extent do you want us to examine ongoing long-term (likely lower level) exposures vs. focusing solely on the leak period and shortly thereafter. How much emphasis on each?

A15. Contractor and/or subcontractor(s) are required to conduct an Exposure Assessment to quantify toxic exposures experienced by residents of impacted communities before, during, and after the Disaster, refer to Section 8.1.4 of the Statement of Work (RFP Appendix A-1). Proposers shall propose the extent to which their research needs to quantify exposures during different periods of time to achieve the Health Study goals, refer to RFP Section 1.2 - Aliso Canyon Disaster Health Research Study Goals, and their proposed research objectives, refer to Proposer's Scope of Work (RFP Appendix A-2).

APPENDIX B – BUDGET AND BUDGET JUSTIFICATION INSTRUCTIONS

Q16. Please clarify how indirect costs should be calculated, either based on personnel costs or modified total direct costs if other items included that are not rent/lease, utilities or building maintenance.

A16. Refer to RFP, Appendix B – Budget and Budget Justification Instructions, Budget Categories – I. Indirect Costs, for instructions on calculating the Indirect Costs.

Q17. Is the indirect cost 25% of qualified direct cost?

A17. Pursuant to RFP, Appendix B – Budget and Budget Justification Instructions, Budget Categories – I. Indirect Costs, Indirect Cost is a maximum of 35% of Personnel Cost including Fringe Benefits.

GENERAL QUESTIONS

Q18. Can people who have participated in lawsuits against the gas company participate on the study teams?

A18. No. Please refer to RFP Sample Contract, Paragraph 35 – Conflict of Interest.

Q19. Where is the list of SOC members – will these SOC members be involved in the review of the proposal?

A19. A list of current Scientific Oversight Committee (SOC) members can be found on the Health Study website: <http://publichealth.lacounty.gov/eh/healthresearch/soc.htm>.

Pursuant to RFP, Section 8.1 Selection Process, “Evaluation of the proposals will be made by an Evaluation Committee consisting of subject matter experts selected by Public Health.”

Q20. The selection process (page 53) reads, “After a prospective contractor has been selected, the County and the prospective Contractor(s) will negotiate a contract for submission to the Board of Supervisors for its consideration and possible approval.” Please confirm that the County intends to select a single contractor for this RFP (as opposed to multiple contractors).

A20. The County anticipates funding one Contract in an estimated amount not to exceed \$21,000,000, refer to RFP Section 1.4, Availability of Funds. The County retains the right to select a proposal other than the highest ranking, or more than one proposal, if County determines, in its sole discretion, another, or more than one, Proposal is qualified, cost-effective, responsive, responsible and/or in the best interests of the County, refer to RFP Section 8.5, Stage 3 Review: Final Review and Selection.

Q21. For the improved air quality and symptom reporting system, are investigators expected to fund the annual equipment purchases or just design the ideal system?

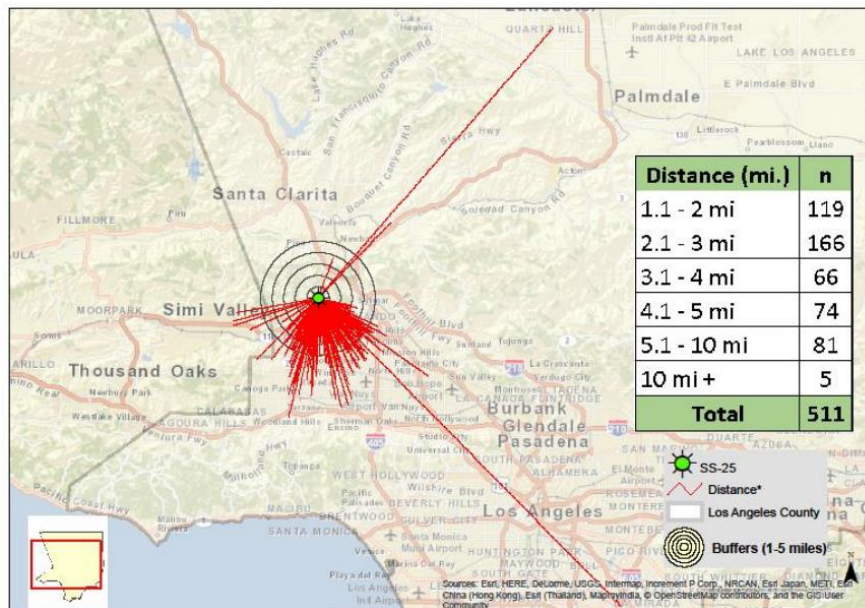
A21. Researchers selected to conduct the Health Study are not expected or required to fund the Enhanced Air Monitoring and Environmental Reporting Supplemental Environmental Project (SEP). This SEP is entirely separate from the Health Study.

Q22. There were more than 700 complaints about odor from the community, what percent of the complaints was with 5 miles radius, and what was the furthest distance from these odors?

A22. During the 16 weeks of the Aliso Canyon blowout, Public Health’s Environmental Health Division received approximately 700 complaints of symptoms, odors or other issues related to the gas blowout. An analysis of the distance of the reporters’ addresses to Well Standard Sesnon 25 (SS-25) was conducted. Addresses were verified for 511 of the complaints received. The remaining complaints were excluded due to incorrect or missing addresses. The analysis found that:

- 83% (425/511) of complaints were made by residents with addresses within a five-mile radius from SS-25
- 16% (81/511) of complaints were made by residents with addresses within a 5.1 to 10-mile radius from SS-25
- 1% (5/511) of complaints were made by residents with addresses that were over 10 miles away from SS-25

The South Coast Air Quality Management District (SCAQMD) has a complaint reporting system specifically for air quality and responded to air quality complaints during and following the Aliso Canyon blowout. During the period of the blowout, SCAQMD received 2340 complaints. More information on the air quality complaints received by SCAQMD, including air sampling conducted in response to complaints, is available on the SCAQMD website: <http://www.aqmd.gov/home/news-events/community-investigations/aliso-canyon-update/compliance-enforcement-actions-new/odor-complaints>.



Created by: Office of Health Assessment and Epidemiology, Epidemiology Unit. 02/03/16. Map shows the density of symptom by respondent's addresses. 511 of 687 addresses were located (the rest were excluded due to incorrect or missing addresses). *Euclidean Distance from SS-25.

Source: Los Angeles County Department of Public Health
<http://publichealth.lacounty.gov/media/docs/AlisoAir.pdf>

- Q23. In what format are the existing data, how can proposers learn what data are available, and how will the selected study access available data?**
- Q24. What about the availability of data from sampling done before sealing?**

Q25. What role will the county play in facilitating access to existing data and what data is available.

A23-25. Existing data related to the Aliso Canyon blowout and gas storage facility operations are in various formats including but not limited to laboratory reports, written reports, CSV files, PDF files, etc.

Proposers can learn about available data (including data collected before, during, and after the Aliso Canyon blowout) by:

1. Reviewing the information available on the “Health Study Research and Data” page of the Health Study website (linked here <http://publichealth.lacounty.gov/eh/healthresearch/health-study-research-data.htm>) including the “Summary of Existing Secondary Data Sources on Potential Chemical Exposures and Health Outcomes.” While this summary lists data collected by various regulatory agencies and organizations, it does not provide a comprehensive list of data that was collected by academic groups. The summary is updated as additional data and information becomes available and as needed.
2. Reviewing published literature and reports related to the Aliso Canyon disaster.
3. Contacting and/or visiting the webpages of other regulatory agencies, academic groups, and organizations that collected data before, during and/or following the blowout. These include but are not limited to:
 - The South Coast Air Quality Management District (SCAQMD): <http://www.aqmd.gov/home/news-events/community-investigations/aliso-canyon-update>
 - The California Air Resources Board (CARB): <https://ww2.arb.ca.gov/our-work/programs/aliso-canyon-natural-gas-leak>
 - The Los Angeles Unified School District (LAUSD): <https://achieve.lausd.net/Page/4244>
 - The California Public Utilities Commission (CPUC): <https://www.cpuc.ca.gov/regulatory-services/safety/pipeline-safety/aliso-canyon-well-failure>
 - The California Geologic Energy Management Division (CalGEM) (formerly the California Department of Gas and Geothermal Resources) : <https://www.conservation.ca.gov/calgem/Pages/AlisoCanyon.aspx>
 - The County of Los Angeles Fire Department Health Hazardous Materials Division (LAFD HHMD): <https://fire.lacounty.gov/health-hazardous-materials-division/>
 - Argos Scientific: <https://www.argos-sci.com/>

Researchers selected to conduct the Health Study can either access publicly available data or request data needed for their proposed research by:

1. Visiting websites that are housing publicly available data and downloading the data that is needed (e.g., the LAUSD website listed above provides the results of real-time air sampling, 8-hour air sampling, and radon sampling conducted at schools near the Aliso Canyon facility. Additionally, the SCAQMD website linked above has publicly accessible data on various air monitoring and sampling that was conducted both during and following the Aliso Canyon disaster).
2. Requesting the data from regulatory and government agencies, disease registries, surveillance programs, healthcare facilities, academic groups, and organizations that collected the data. The data requested may require a data use agreement (e.g., such data may include vital statistics data and cancer surveillance data).

Q26. When you say previous studies will be accessible to researchers, does that mean the actual data collected will be shared (e.g., datafiles from CASPER surveys, datafiles on indoor sampling)?

Q27. In the Feb 15 conference call for this RFP, County presented an overview of initial efforts and data collection of environmental and health data/information, will these collected environmental and health data/information be available for access to potential bidders in preparing for proposals? If yes, whom to contact and where to get these data/information?

A26-27. Data files from the Community Assessment for Public Health Emergency Response (CASPER) surveys, the Time Critical Residential Indoor Environmental Sampling, and other investigations and/or assessments conducted by Public Health can be made available to selected researchers who require such data files to support their proposed research plan. Please note however that researchers will be required to sign a data use agreement to protect personal identifiable information and other protected data. Also, please note that information on investigations and/or assessments conducted by Public Health is already available on the "Health Study Research and Data" webpage of the Health Study website including but not limited to:

- The CASPER report linked here <http://publichealth.lacounty.gov/media/docs/CASPERFinalReport.pdf>
- The Time Critical Residential Indoor Environmental Sampling report, which includes the laboratory reports of the sampling conducted, linked here: <http://publichealth.lacounty.gov/media/docs/SummaryFieldSamplingReport.pdf>.

Additionally, proposers can currently access data (e.g., laboratory reports and technical summary reports of data) of environmental sampling and monitoring conducted by other government agencies that publicly available on their respective websites. For more information, please refer to the summary of existing secondary data sources on potential chemical exposures and health outcomes linked here: <http://publichealth.lacounty.gov/eh/docs/healthresearch/existing-data-information.pdf>

Q28. Is the study data that LA Co has available to researchers at this point only from their CASPER and indoor sampling studies?

A28. For information on existing data related to the Aliso Canyon disaster and underground gas storage facility operations, including data collected before, during and following the blowout, please visit the “Health Study Research and Data” page of the Health Study website linked here: <http://publichealth.lacounty.gov/eh/healthresearch/health-study-research-data.htm>. On this webpage, you will find a “Summary of Existing Secondary Data Sources on Potential Chemical Exposures and Health Outcomes” that lists data collected by various regulatory agencies and organizations. This summary does not provide a comprehensive list of data that was collected by academic groups. The summary is updated as additional data and information becomes available and as needed.

In addition to data collected as part of the Community Assessment for Public Health Emergency Response (CASPER) and the Time Critical Residential Indoor Environmental Sampling, additional data that can be requested and made available to the selected researchers if needed to support their proposed research plan.¹ The additional data includes but is not limited to those listed below²:

- **Southern California Gas Company (SoCal Gas) data:** SoCal Gas data listed in the “Summary of Existing Secondary Data Sources on Potential Chemical Exposures and Outcomes” available on the Health Study website linked here: <http://publichealth.lacounty.gov/eh/healthresearch/health-study-research-data.htm>
- **Data related to, and samples of, wastes and materials from the Aliso Canyon Disaster:**
 - Results of sampling conducted on August 4, 2020, of wastes and materials from the Aliso Canyon blowout and well control operations. The results, including the laboratory reports of the sampling conducted, are available on the Health Study website and linked here: <http://publichealth.lacounty.gov/eh/docs/healthresearch/ss-25-units-sampling-analysis-report.pdf>
 - Results of supplemental sampling conducted on October 29, 2020, of wastes and materials from the Aliso Canyon blowout and well control operations. The results, including the laboratory reports of the sampling

conducted, are available on the Health Study website and linked here:
<http://publichealth.lacounty.gov/eh/docs/healthresearch/supplemental-sampling-analysis-report.pdf>

- Results of radiation surveys conducted on November 12, 2020, of wastes and materials from the Aliso Canyon blowout and well control operations. The results are available on the Health Study website and linked here:
<http://publichealth.lacounty.gov/eh/docs/healthresearch/radiation-survey-summary.pdf>
- Samples from bins that were storing wastes and materials from the Aliso Canyon blowout and well control operations are also being stored for potential use (i.e., testing) by the selected researchers if needed to support their proposed research.
- **Community pool water sampling:** Results of pool water sampling conducted in June and July of 2016 at three Porter Ranch Community pools. The results, including the laboratory reports of the sampling conducted, are available on the Health Study website and linked here:
<http://publichealth.lacounty.gov/media/docs/CommunityPoolWaterSamplingProtocol.pdf>
- **Interior home cleaning performance reviews:** Public Health reviewed SoCal Gas's compliance with the cleaning protocol developed by Public Health. The cleaning protocol is available at the following link:
[http://publichealth.lacounty.gov/media/docs/LACHODirectivetoSCG\(w%20Atts\).pdf](http://publichealth.lacounty.gov/media/docs/LACHODirectivetoSCG(w%20Atts).pdf). Performance review logs for home cleanings include information on home address, ventilation, cleaning of HVAC systems/ducts, deep cleaning of the home interior, and quality assurance measures.
- **Quest Diagnostics data:** Public Health acquired clinical laboratory data on a subset of residents of Porter Ranch and 6 comparison zip codes over the period of 2011 to 2019. The laboratory data includes information on complete blood counts, liver enzyme, and kidney function. The data includes adults and children ages 5 and older who received one or more laboratory tests between 2011 and 2019 ordered by a medical provider through Quest Diagnostics. Use of this data for research requires a data-use agreement. Public Health conducted an analysis of this laboratory data and the results are available on the Health Study website and linked here:
<http://publichealth.lacounty.gov/eh/docs/healthresearch/exploratory-analysis-selected-blood-test-results-residents-porter-ranch-two-control-populations.pdf>

¹Please note that the selected researchers will be required to sign a data use agreement to protect personal identifiable information and other protected data.

²The data listed in this response is also listed in the "Summary of Existing Secondary Data Sources on Potential Chemical Exposures and Health Outcomes" available on the Health Study website.

Q29. Has SoCal provided LA Co with their data and will it be available to researchers?

A29. Yes, SoCal Gas has provided data and records related to the Aliso Canyon disaster, well control activities, and gas storage facility operations to various government and regulatory agencies including Public Health. Researchers selected to conduct the Health Study may request this data from SoCal Gas and/or government and regulatory agencies if needed to support their proposed research plan. Please note that selected researchers will be required to sign a data use agreement to protect personal identifiable information and other protected data.

Q30. Will LAC DOH provide information on the households who were part of the CASPER study?

A30. Data collected in a CASPER is not recorded at the household level. There were 30 census blocks randomly selected from within 5 miles of the blowout. Within each census block, 7 households were interviewed for a total of 210 households interviewed. Information is aggregated from the 7 households to their representative census block and the data is available at the census block level.

Q31. Can the LA Co DOH environmental scientists on the call provide more details about the detection of barium and other volatile compounds? Was this during indoor assessments? When was the last time indoor samples were taken?

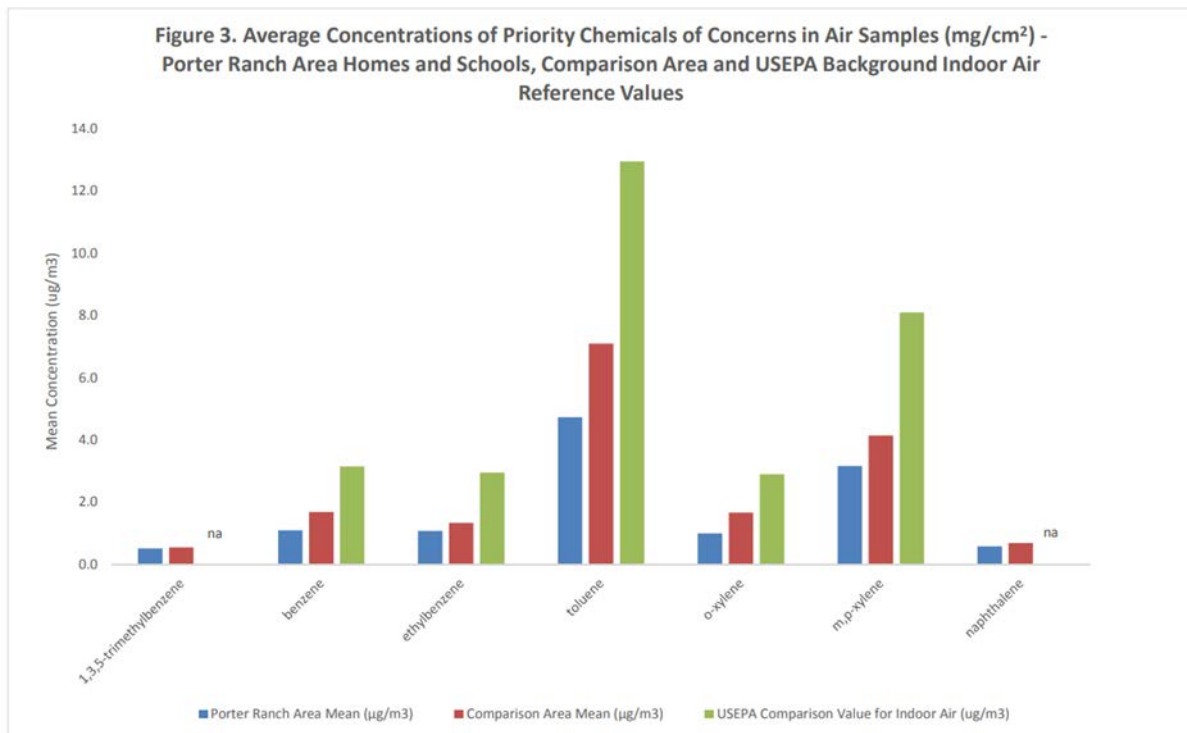
A31. Information about the detection of barium and other volatile organic compounds (VOCs) are available in the following Public Health Assessment (PHA) attachments:

- PHA Attachment 1: Material Safety Data Sheet for Barite Drilling Mud (available on the Health Study website and linked here: <http://www.publichealth.lacounty.gov/media/docs/BariteSafetyDataSheet.pdf>)
- PHA Attachment 2: Time Critical Indoor Environmental Sampling (report available on the Health Study website and linked here: <http://publichealth.lacounty.gov/media/docs/SummaryFieldSamplingReport.pdf>)
- PHA Attachment 3: Cluster Analysis of Metals and Organics in Dust Samples: Porter Ranch Area (available on the Health Study website and linked here: http://publichealth.lacounty.gov/media/docs/Attachment%203%20-%20PCA_FactorAnalysisDustOnly.pdf)

Household dust samples collected as part of the Time Critical Indoor Environmental Sampling detected metals more often and in higher concentrations in Porter Ranch homes than in the comparison homes located 6 miles southeast of Well SS-25. Barium was the most frequently detected metal (detected in 19% of Porter Ranch homes). Barite (Barium sulfate mixture) was used in 3 of the 7 failed top well-kill attempts. Indoor air samples collected as part of the Time Critical Indoor

Environmental Sampling detected priority chemicals of concern at lower levels in the Porter Ranch area than in the comparison area. Additionally, the levels of priority chemicals of concern detected in indoor air samples that were collected in the Porter Ranch area were below normal ranges for indoor home environments (refer to the figure below).

The Time Critical Indoor Environmental Sampling event was the last time Public Health collected samples from within homes of neighborhoods near the Aliso Canyon facility. This sampling was conducted during the months of March and April 2016. Over the following three months, follow up air sample collection was conducted at several households. SoCal Gas also collected samples from homes as part of the exterior home cleaning they conducted in response to oily residue reports from residents of neighborhoods near the Aliso Canyon facility. For more information on residential sampling, please refer to the “Summary of Existing Secondary Data Sources on Potential Chemical Exposures and Outcomes” available on the Health Study website linked here: <http://publichealth.lacounty.gov/eh/healthresearch/health-study-research-data.htm>.



Source: Los Angeles County Department of Public Health
<http://publichealth.lacounty.gov/eh/docs/healthresearch/aliso-canyon-gas-leak-public-health-assessment.pdf>

Pursuant to RFP, Section 4.0, County’s Rights and Responsibilities, Subsection 4.4, County’s Right to Amend Request for Proposals, Proposers are reminded that should such addendum


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RFP 2022-003
March 10, 2022
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require additional information not previously requested, failure to address the requirements of such addendum may result in the Proposal being found non-responsive and not being considered, as determined in the sole discretion of the County. The County is not responsible for and shall not be bound by any representations otherwise made by any individual acting or purporting to act on its behalf.


Addendum Number 2 has been made available on the Department of Public Health Contracts and Grants Division website at <http://publichealth.lacounty.gov/cg/index.htm> and on the County's website at <http://camisvr.co.la.ca.us/lacobids/BidLookUp/BidOpenStart.asp>.

Thank you for your interest in contracting with the County of Los Angeles. Except for the revisions contained in Addendum Number 1 and 2 there are no other revisions to this RFP. All other terms and conditions of the RFP remain in full force and effect.

#05589



Aliso Canyon Disaster
Health Research Study




COUNTY OF LOS ANGELES
Public Health


Aliso Canyon Disaster Health Research Study Services RFP No. 2022-003

Kristina Vaculik, Research Development Manager
Division of Environmental Health
Department of Public Health


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Division of Contract and Grants
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Aliso Canyon Disaster
Health Research Study




COUNTY OF LOS ANGELES
Public Health

Agenda and Conference Goals

- Welcome and Introductions
- Background on the Aliso Canyon Disaster and Health Study
- Overview of the Health Study Requirements
- Proposal Preparation
- Selection Process and Evaluation Criteria
- Q&A Session
- RFP Addenda and Upcoming Deadlines

1



Proposers Conference Housekeeping

- The virtual proposers conference will be recorded and the link to the recording will be available in an Addendum to the RFP on Public Health’s Contracts and Grants website <http://publichealth.lacounty.gov/cg/index.htm>
- County staff will respond to questions and release the answers in the subsequent Q&A Addendum on **March 10, 2022**
- Any additional questions proposers may have following the virtual proposers conference are due on **February 18, 2022, at 4:00 PM Pacific Time.**

2



Welcome!


Message from the Los Angeles
County Health Officer



3

Aliso Canyon Disaster Health Research Study

Aliso Canyon Disaster Health Research Study
ALISO CANYON DISASTER BACKGROUND



4

Aliso Canyon Disaster Health Research Study


Aliso Canyon Disaster Health Research Study

Aliso Canyon Underground Gas Storage (UGS) Facility


Owned and operated by SoCal Gas, a subsidiary of Sempra Energy

Situated in the Santa Susana Mountains north of San Fernando Valley neighborhoods in Los Angeles County, California


Neighborhoods within a five-mile radius: Porter Ranch, Granada Hills, Chatsworth, and Northridge



5




Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health


Aliso Canyon Underground Gas Storage (UGS) Facility




One of the largest UGS Facilities in the United States

- Pre-blowout capacity: 86 billion cubic feet
- Depleted oil field used to store natural gas since 1972
- 114 wells drilled between 1939 to 2014
- Well Standard Sesnon 25 (SS-25)
 - Drilled as an oil well in 1954
 - Converted into a gas storage well in 1973

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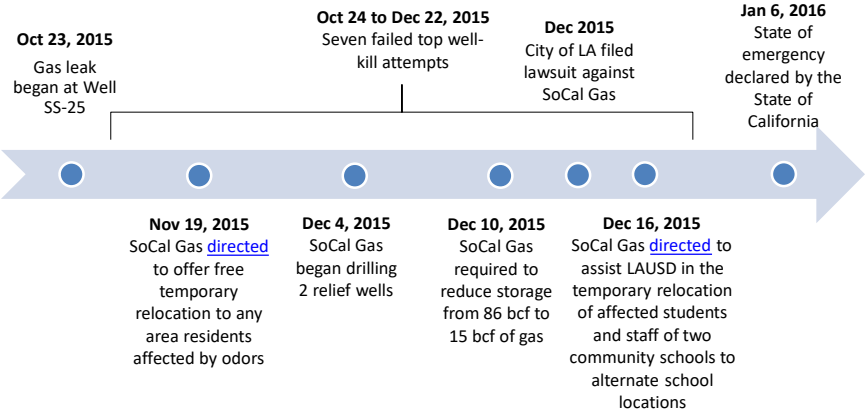


Aliso Canyon Disaster
Health Research Study



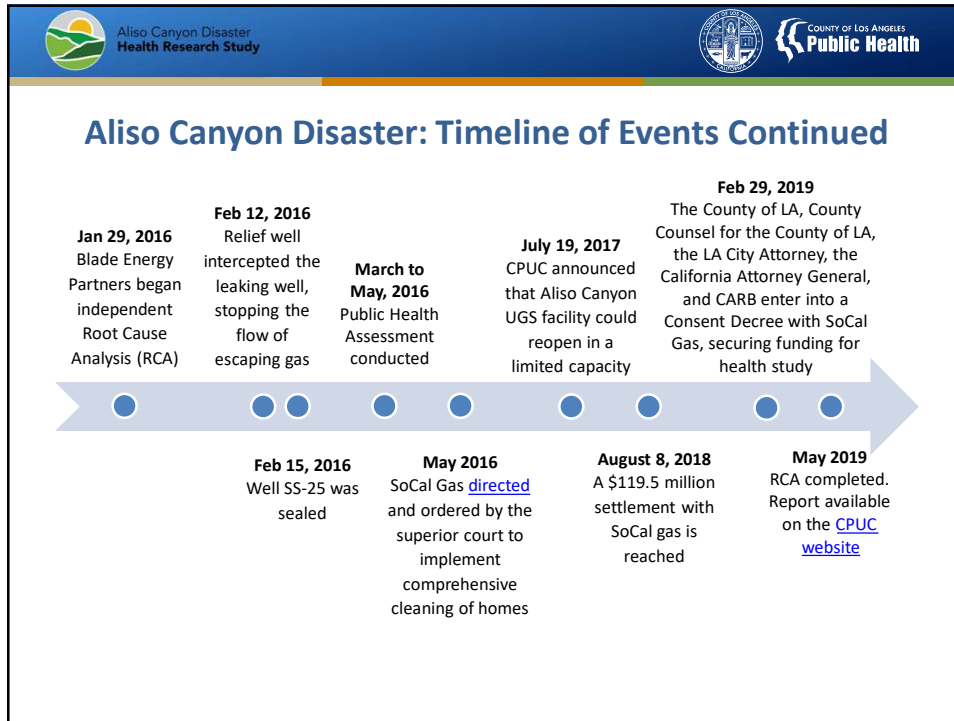
COUNTY OF LOS ANGELES
Public Health

Aliso Canyon Disaster: Timeline of Events



<p>Oct 23, 2015 Gas leak began at Well SS-25</p>	<p>Oct 24 to Dec 22, 2015 Seven failed top well-kill attempts</p>	<p>Dec 2015 City of LA filed lawsuit against SoCal Gas</p>	<p>Jan 6, 2016 State of emergency declared by the State of California</p>
<p>Nov 19, 2015 SoCal Gas directed to offer free temporary relocation to any area residents affected by odors</p>	<p>Dec 4, 2015 SoCal Gas began drilling 2 relief wells</p>	<p>Dec 10, 2015 SoCal Gas required to reduce storage from 86 bcf to 15 bcf of gas</p>	<p>Dec 16, 2015 SoCal Gas directed to assist LAUSD in the temporary relocation of affected students and staff of two community schools to alternate school locations</p>

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Aliso Canyon Gas Well Blowout (Disaster)

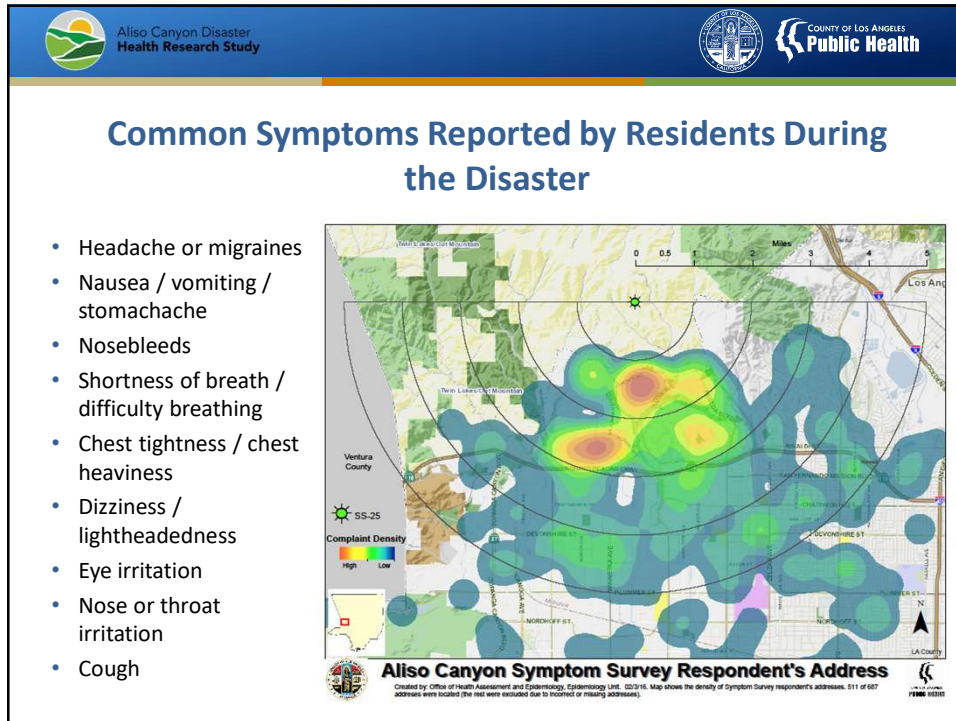
During the blowout, which lasted 16 weeks, approximately 109,000 metric tons of methane escaped into the atmosphere.

This is roughly equivalent to the annual natural gas usage of 190,000 Los Angeles homes.

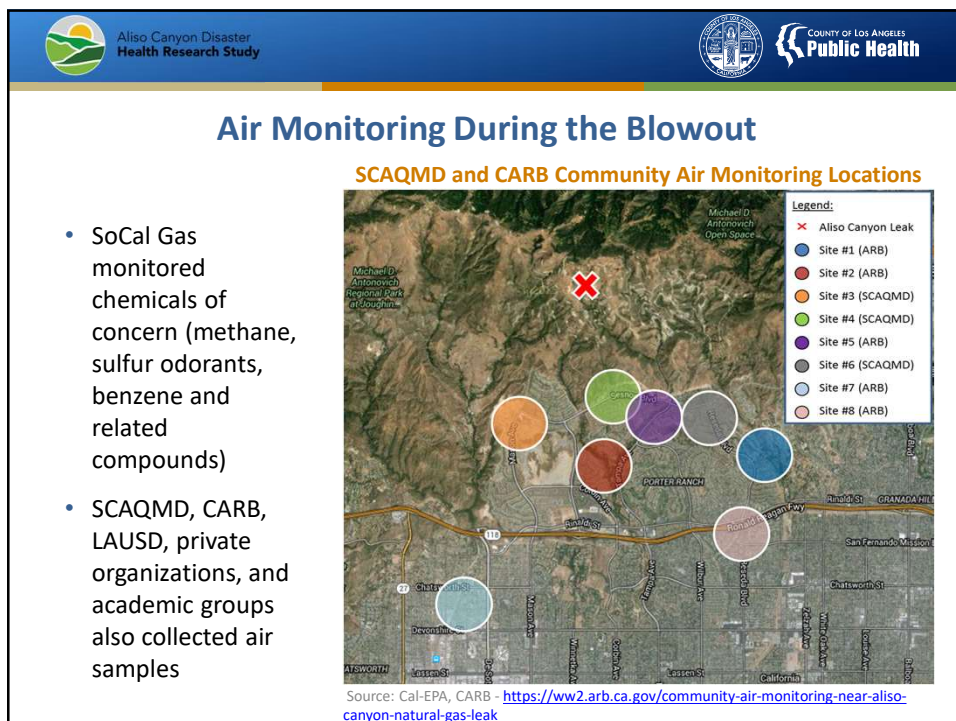
This video was taken using infrared imagery.

Source: <https://www.youtube.com/watch?v=N8FwDgRv9tk>


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10



11



Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health

Air Monitoring During the Blowout

Expanded Air Monitoring Program (EAMP)

- In November 2015, Public Health began coordinating with other agencies and SoCal Gas to implement expanded monitoring
- Included more strategic community locations, stricter laboratory reporting limits, expanded analytic list of chemicals, and longer sample collection times
- Overview of Activities:**

SoCal Gas

Collected daily samples on the facility, the property line, and in the community

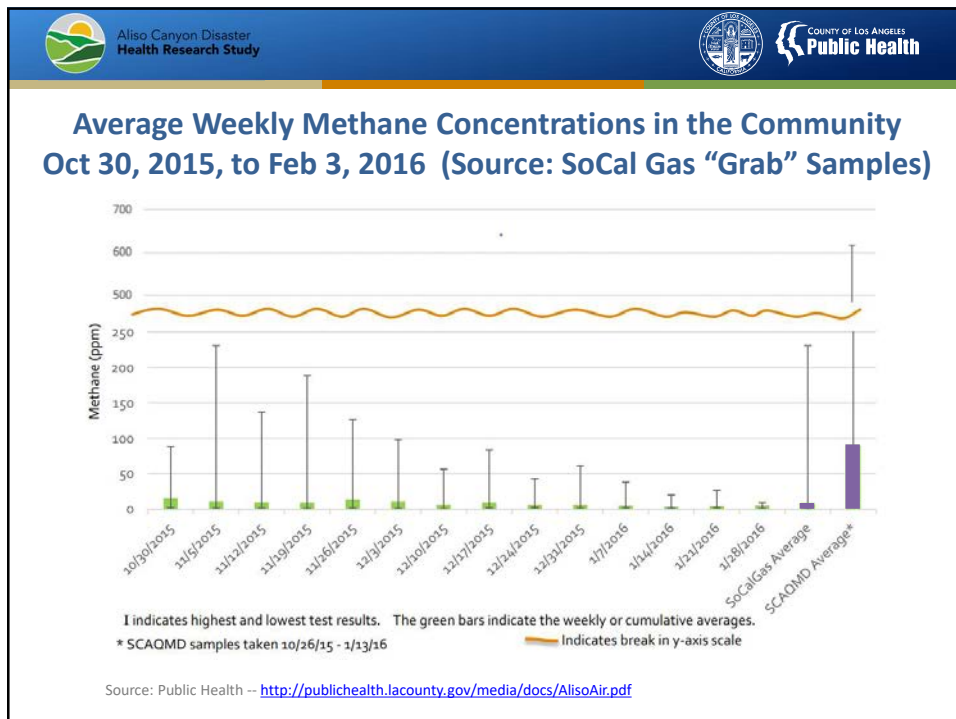
LAFD HazMat and Public Health

Conducted random spot checks of SoCal Gas's field sampling protocols

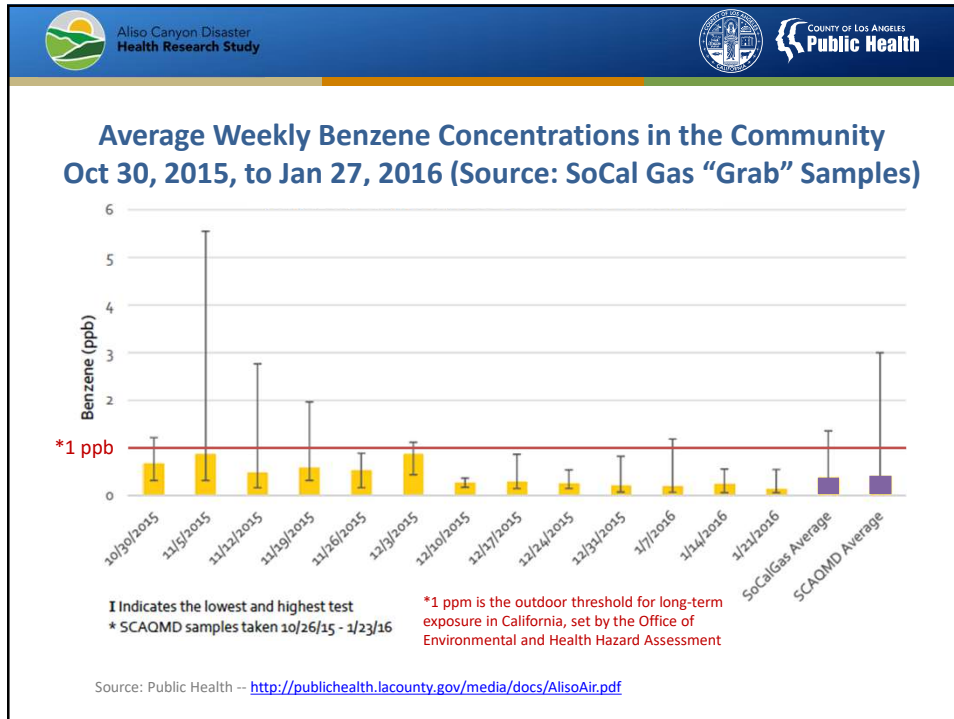
Public Health

Evaluated all available data from the Gas Company and the air quality agencies to inform health assessment activities

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**Air Monitoring During the Blowout:
Expanded Air Monitoring Program (EAMP)**

Testing for Expanded Analytical List of Chemicals in Outdoor Air at the Facility (Jan 27, 2016)

- Chemicals were detected at higher concentrations downwind of the blowout, as compared to upwind
- Suggests that a complex gas mixture and constituents of drilling muds (well-kill fluids) were emitted: Barium, Copper, Polycyclic aromatic hydrocarbons, Benzene, Cyclohexane, Toluene, and other volatiles (hexane, n-nonane, n-octane)
- All measured levels below occupational exposure limits

For more information, see the EAMP reports published on Jan 31, Feb 5, Feb 13, and Feb 19 at <http://publichealth.lacounty.gov/eh/healthresearch/health-study-research-data.htm>

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Aliso Canyon Disaster Health Research Study

COUNTY OF LOS ANGELES Public Health

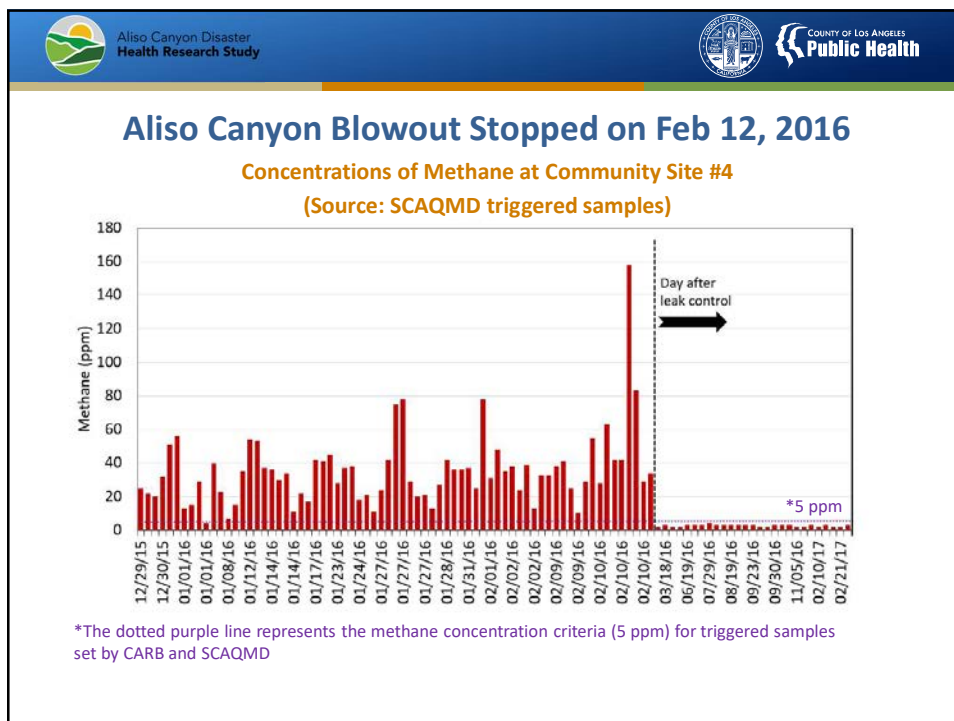
Summary of Health Assessment During the Blowout

Short-term symptoms reported were consistent with symptoms for sulfur odorant exposure

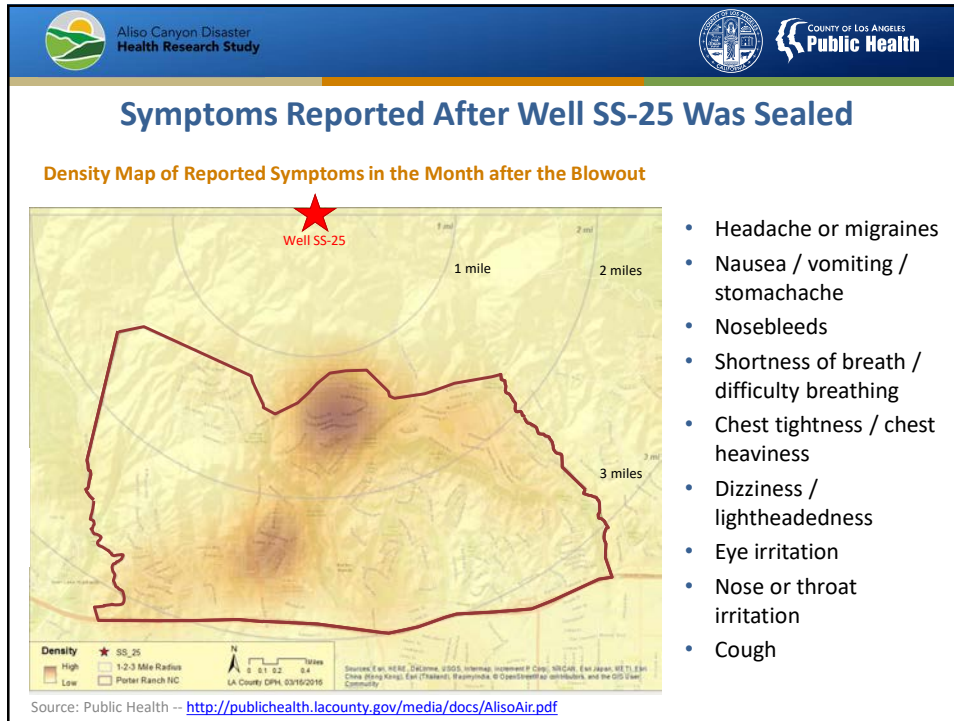
However, reported symptoms (notably, prevalence of nosebleeds) did not completely match those associated with odorants alone

As the blowout progressed, testing was expanded for additional analytes

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Oily Residue Reports and Investigations


- Reports of “oily residue” on outdoor surfaces (e.g., cars, playgrounds, patio furniture)
- Consisted of long-chain hydrocarbons found in crude oil
- The chemical composition and physical state of the residue presented minimal risk
- Residents advised to report the presence of oily residue to SoCal Gas who had been [directed](#) to provide complementary cleaning

Aliso Canyon is a former oil reservoir. Oil liquid droplets surfaced with the leaking gas.

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Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health

Public Health Assessment

A Public Health Assessment (PHA) was launched to gain a better understanding for possible causes of the continued symptoms. The PHA consisted of the following two main components:

1

Health Effects Evaluation
March 2016

Community Assessment for Public Health Emergency Response (CASPER)*

Objectives:

- Assess frequency and types of health symptoms
- Determine scope of reported odors and oily residue
- Develop recommendations to guide public health response

2

Indoor Exposure Evaluation
March and April 2016


Time Critical Indoor Environmental Sampling

Objectives:


- Identify potential contaminants in the indoor environment that may be associated with the blowout
- Determine whether contaminants from the sealed well pose a health risk to communities near Aliso Canyon

*To learn more about CASPER, visit: <https://www.cdc.gov/nceh/casper/overview.htm>

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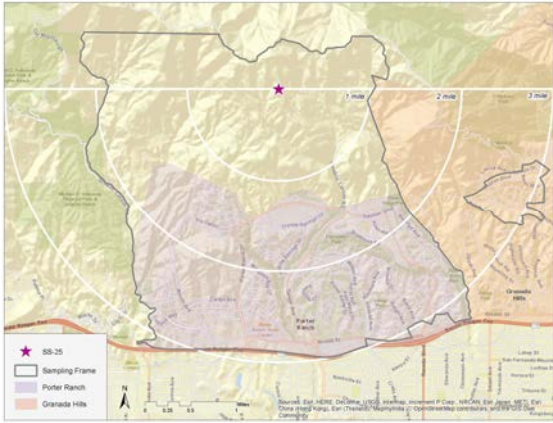
Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health

Public Health Assessment: Health Effects Evaluation



CASPER Sampling Frame



- Census blocks within a 3-mile radius of Well SS-25
- 2 stage cluster design to randomly sample 210 households (total of 7,755 housing units based on 2010 census)
- Interviews conducted March 10 – 12, 2016
- 46% of households surveyed had at least one member relocated
- 210 interviews were conducted

Source: Public Health -- <http://publichealth.lacounty.gov/media/docs/CASPERFinalReport.pdf>

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 Aliso Canyon Disaster Health Research Study  COUNTY OF LOS ANGELES Public Health

Public Health Assessment: Health Effects Evaluation

CASPER Questionnaire



Next we would like to ask you some questions about recent health symptoms experienced by you or any member of your household in relation to the natural gas leak incident in Aliso Canyon. Later in the survey, we will be asking about health symptoms during the active gas leak, but for now we are just asking about symptoms experienced after the gas leak was controlled. Please respond for all members of your household and tell us about symptoms experienced during the past month only.

10. In the past month, have you or any member of your household experienced any health symptoms that you or they think were caused by or related to the natural gas leak incident? **Check one.**
 Yes (*proceed to 10a.*) No (*proceed to 13.*) DK Refused

<p>10a. Which of the following symptoms experienced in the past month do you think were caused by or related to the gas leak? Read each symptom. Check all that apply.</p>	<p>10b. Only ask of "YES" symptoms from 10a. Did any of the symptoms get better when you or your household member were away from your home or away from the Porter Ranch/Granada Hills area?</p>
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Source: Public Health – <http://publichealth.lacounty.gov/media/docs/CASPERFinalReport.pdf>

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 Aliso Canyon Disaster Health Research Study  COUNTY OF LOS ANGELES Public Health

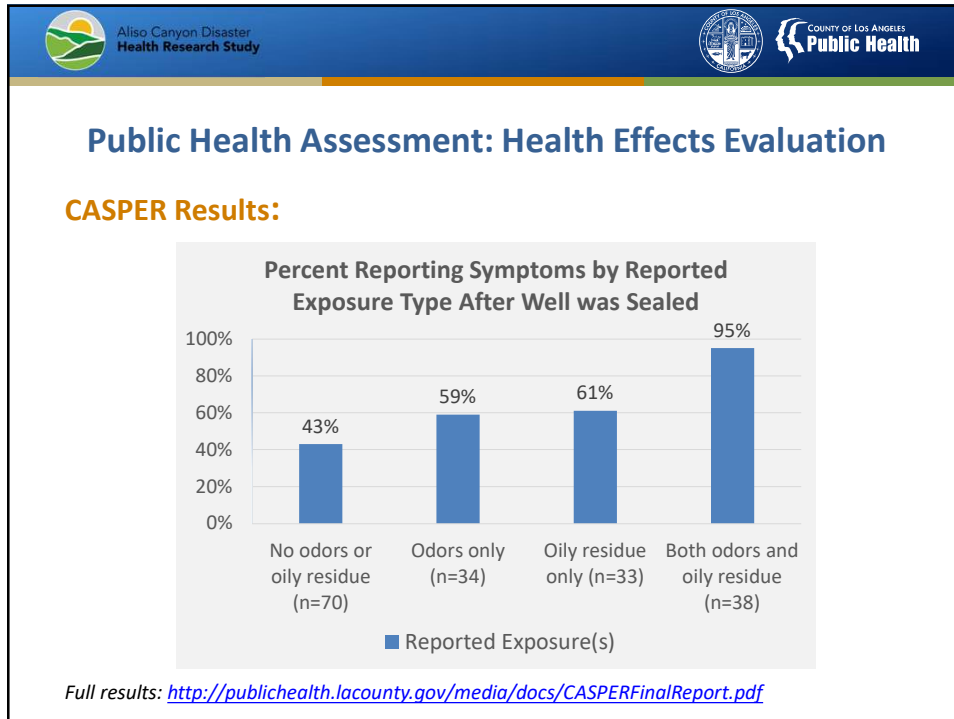
Public Health Assessment: Health Effects Evaluation

CASPER Results:

- Percentage of sampled households reporting symptoms:
 - Before leak was sealed: 81%
 - After leak was sealed: 63%
- Majority of households (61%) sought medical care for symptoms experienced after the well was sealed
- Residents commonly reported alleviation of symptoms upon leaving their homes, both before and after the well was sealed
- After well was sealed, 41% of households reported smelling "gas-like" odors

Full results: <http://publichealth.lacounty.gov/media/docs/CASPERFinalReport.pdf>

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-
- Public Health Assessment: Indoor Exposure Evaluation**
- Review list of 200+ chemicals associated with gas leak, drilling activities (incl. well kill solutions/mud), and gas/oil reservoirs
 - Chemicals of potential concern:
 - Sulfur compounds
 - Benzene and other volatile organic compounds
 - Barium and other heavy metals
 - Petroleum hydrocarbons
 - Polycyclic aromatic hydrocarbons
 - Consider possible routes of exposure:
 - Exposure to contaminants in indoor air (inhalation)
 - Exposure to surfaces (contact)

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Aliso Canyon Disaster Health Research Study


COUNTY OF LOS ANGELES Public Health

Public Health Assessment: Indoor Exposure Evaluation

Sampling Methods:

Household dust samples:
Tested for 84 chemicals

Indoor air sampling:
Collected samples over 24-hour period, tested for 188 chemicals



The slide features two blue arrow-shaped callouts pointing to the right. The top callout is labeled 'Household dust samples: Tested for 84 chemicals' and is accompanied by three photographs: a person wearing a blue glove touching a white surface, a hand holding a circular dust sample, and an open white sampling kit. The bottom callout is labeled 'Indoor air sampling: Collected samples over 24-hour period, tested for 188 chemicals' and is accompanied by a photograph of a stainless steel air sampling canister with a pump handle.

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Aliso Canyon Disaster Health Research Study


COUNTY OF LOS ANGELES Public Health

Public Health Assessment: Indoor Exposure Evaluation

Sampling Locations:



Sampling:
103 homes and 2 schools in the Porter Ranch area

Comparison group:
11 homes located 6 miles southeast of Well SS-25



The slide features two blue arrow-shaped callouts pointing to the left. The top callout is labeled 'Sampling: 103 homes and 2 schools in the Porter Ranch area' and is accompanied by two line-art icons: a simple house and a school building with a flag on top. The bottom callout is labeled 'Comparison group: 11 homes located 6 miles southeast of Well SS-25' and is accompanied by a single line-art icon of a house.

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Public Health Assessment: Indoor Exposure Evaluation

Results:



Household dust samples:
 Metals in dust detected more often/higher concentrations in Porter Ranch homes than comparison homes

- Could contribute to short-term symptoms reported
- Barium and other metals were used in drilling muds
- Cluster analysis of metals and organics: pattern in which barium appeared together with other metals in Porter Ranch homes was not observed in comparison homes suggesting a common single source

Air Sampling:
 Levels of volatile chemicals in indoor air samples were similar between Porter Ranch homes and comparison homes

Full results available on the Health Study website:
<http://publichealth.lacounty.gov/eh/healthresearch/health-study-research-data.htm>

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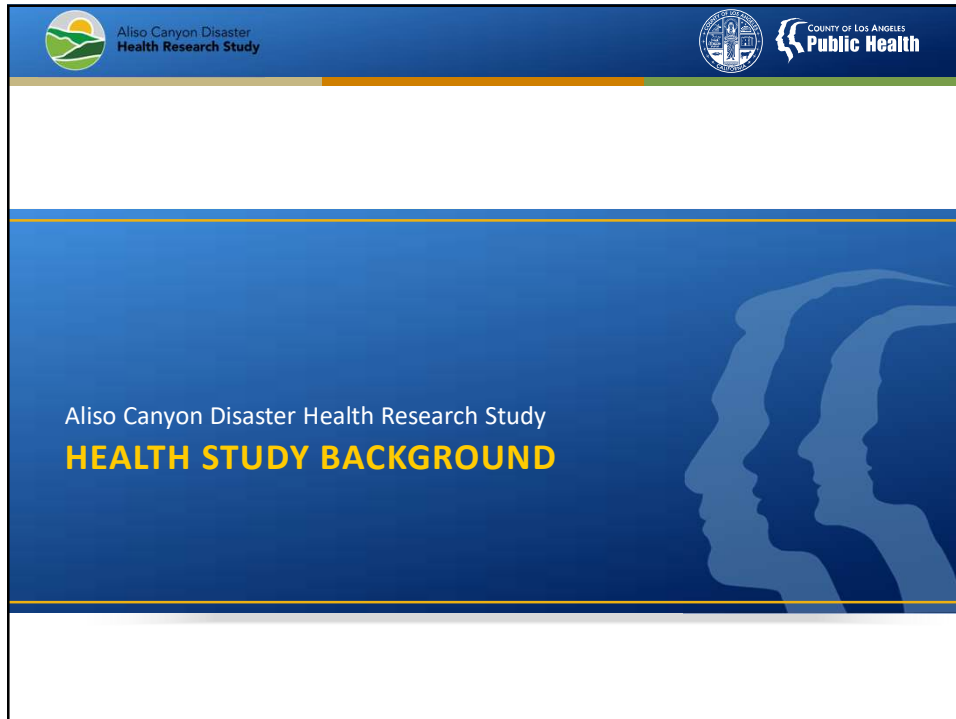



Additional Environmental Sampling Post Blowout

<div style="background-color: #4a7ebb; color: white; padding: 5px; margin-bottom: 10px;">CARB and SCAQMD</div> <ul style="list-style-type: none"> • Continued community sampling for various analytes • Mobile methane survey measurements in community and facility 	<div style="background-color: #4a7ebb; color: white; padding: 5px; margin-bottom: 10px;">Blade Energy Partners and SCAQMD</div> <ul style="list-style-type: none"> • Well samples
<div style="background-color: #4a7ebb; color: white; padding: 5px; margin-bottom: 10px;">Argos Scientific</div> <ul style="list-style-type: none"> • Community methane sampling 	<div style="background-color: #4a7ebb; color: white; padding: 5px; margin-bottom: 10px;">Public Health</div> <ul style="list-style-type: none"> • Waste bin sampling • Radioactive screening of waste bins
<div style="background-color: #4a7ebb; color: white; padding: 5px; margin-bottom: 10px;">SoCal Gas</div> <ul style="list-style-type: none"> • Continued sampling for various analytes at locations in the facility, fence line, and community • Gas chromatograph sampling • Waste bin sampling • Oily residue sampling 	

For more information on environmental sampling conducted during and following the Aliso Canyon Well SS-25 blowout, refer to the summary of existing secondary data on the Health Study website:
<http://publichealth.lacounty.gov/eh/healthresearch/health-study-research-data.htm>

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This slide has a white background with a dark blue header bar. The header bar contains the Aliso Canyon Disaster Health Research Study logo on the left and the County of Los Angeles Public Health logo on the right. The main content area is white with a blue title "Consent Decree and Study Framework". Below the title is a bulleted list of three items. The second and third items contain bolded text in orange and black. At the bottom left, there is a line of text followed by a blue hyperlink. At the bottom right, there is an orange icon of a classical building with four columns. The slide is framed by a thin black border.

Consent Decree and Study Framework

- Consent Decree approved on February 29, 2019
- Included funding for a multi-year Health Study to be conducted by **independent researchers** and overseen by a **Scientific Oversight Committee (SOC)**
- **Public Health** is tasked with administering the funding for the Health Study and providing contractual oversight

Full settlement details are available at the following link:
<https://oag.ca.gov/system/files/attachments/press-docs/notice-lodging-and-proposed-cd-full.pdf>



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Aliso Canyon Disaster Health Research Study

COUNTY OF LOS ANGELES Public Health

Scientific Oversight Committee (SOC)

- Formed in January 2020
- Consists of regulatory agency representatives and independent scientific experts
- Responsibilities of the SOC include:
 - Reviewing and approving research plans
 - Providing technical guidance and oversight
 - Evaluating the progress of the Health Study



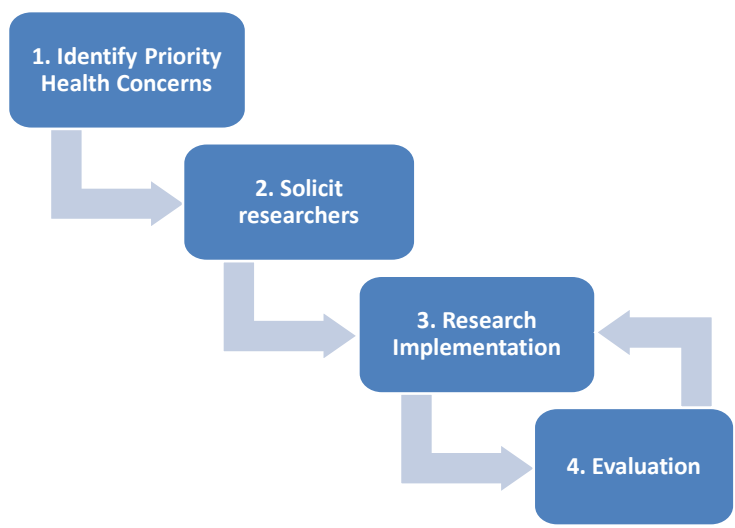
More information on the SOC is available on the Health Study website:
<http://publichealth.lacounty.gov/eh/healthresearch/soc.htm>

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Aliso Canyon Disaster Health Research Study



COUNTY OF LOS ANGELES Public Health

Health Study Phases



```
graph TD; A[1. Identify Priority Health Concerns] --> B[2. Solicit researchers]; B --> C[3. Research Implementation]; C --> D[4. Evaluation];
```

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Phase 1: Identify Priority Health Concerns


Public Health engaged extensively with residents of the impacted communities to gather input on impacts of the Aliso Canyon disaster, health concerns, and priorities for the Health Study.

How Input Was Gathered	Examples of Main Themes
<ul style="list-style-type: none"> • Community surveys <ul style="list-style-type: none"> • Symptoms and odors experienced by residents • Community concerns, perceptions and attitudes regarding the Aliso Canyon blowout and impacts on health • Community Advisory Group • Health Study Goals and Priorities 	<p>Concerns center around health-related impacts of chemical exposures</p> <ul style="list-style-type: none"> • Long-term health impacts are of primary concern • Impacts of disaster-related life disruptions and hardships on mental health and well-being • Types of chemicals and length of exposures

CAG meeting recordings, Community Opinion Survey results, a report summarizing the public feedback on the draft goals and priorities for the Health Study, and the final Goals and Priorities are available on the Health Study website:
<http://publichealth.lacounty.gov/eh/healthresearch/index.htm>


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OVERVIEW OF THE HEALTH STUDY: FUNDING,
 CONTRACT TERM AND REQUIREMENTS

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Aliso Canyon Disaster
Health Research Study




COUNTY OF LOS ANGELES
Public Health

Goals of the Health Study


Contribute to the understanding of the potential short-term and long-term physical, mental, behavioral, social, and community health impacts of exposure to the Aliso Canyon Disaster

- Evaluate relationships between exposures to airborne chemicals and other potential toxicants during and/or following the disaster and adverse health impacts to the community, which could include, but is not limited to, physical and mental health;
- Assess the impact of stressors related to the Aliso Canyon Disaster on the quality of life, well-being, and functioning of residents in the impacted communities during and following the Disaster, and;
- Evaluate outcomes among vulnerable populations, such as children and older adults, in the impacted communities.

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Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health

Funding Amount and Contract Term

Funding {


- County anticipates funding one contract in an estimated amount not to exceed **\$21,000,000**

Contract Term {


- Shall be effective upon execution and continue in full force and effect **for up to five years**
- The fourth year and fifth year of the contract are subject to and contingent upon the SOC's approval to continue the Health Study
- County has the sole **option to extend the Contract term** for up to three additional one-year periods

Refer to RFP Sections 1.4 and 2.2.1 for more information on availability of funds and anticipated contract term.

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Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health


Administrative Requirements

Program Administrative Core


- Consists of the Program Manager, Principal Investigator(s) and support staff
- Oversees the organizational, budgeting, and reporting aspects of the program and provides leadership for the scientific and programmatic activities
- Promotes collaboration and cross-disciplinary interactions among all Health Study staff
- Provides a mechanism for:
 - Monitoring program implementation
 - Completing contractual and fiscal management responsibilities

**Refer to Statement of Work (RFP Appendix A-1) Section 5.5 for more information.*

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Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health

Minimum Staffing Requirements

Project Manager


- Central point of contact with the County
- Minimum of five years of full-time experience within the past eight years, coordinating research project(s) and/or programs
- Must possess a bachelor's degree or higher

Principal Investigator(s)


- Responsible for overall development, implementation, and management of Health Study component(s)
- Minimum of five years of experience within the last 10 years conducting research on human health related to the physical environment (environmental health)
- Shall have a doctoral degree (e.g., Ph.D., M.D.) from an accredited college or university
- At least three first or last authored peer-reviewed publications related to environmental health

**Refer to Statement of Work (RFP Appendix A-1) Section 5.4 for more information and the specific responsibilities of the above required staff.*

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Aliso Canyon Disaster
Health Research Study




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Public Health

Specific Work Requirements


- Approach to required services are expected to be scientifically robust and responsive to the Health Study goals
- Expected to address multiple potential health outcomes of concern related to the Aliso Canyon Disaster and other priorities identified by the impacted communities and SOC
- Research plan to consist of three main components:
 - 1 Health Study(s)**
 - 2 Data Core**
 - 3 Community Stakeholder Communications**

**Refer to Statement of Work (RFP Appendix A-1) Section 8 for more information.*

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Aliso Canyon Disaster
Health Research Study



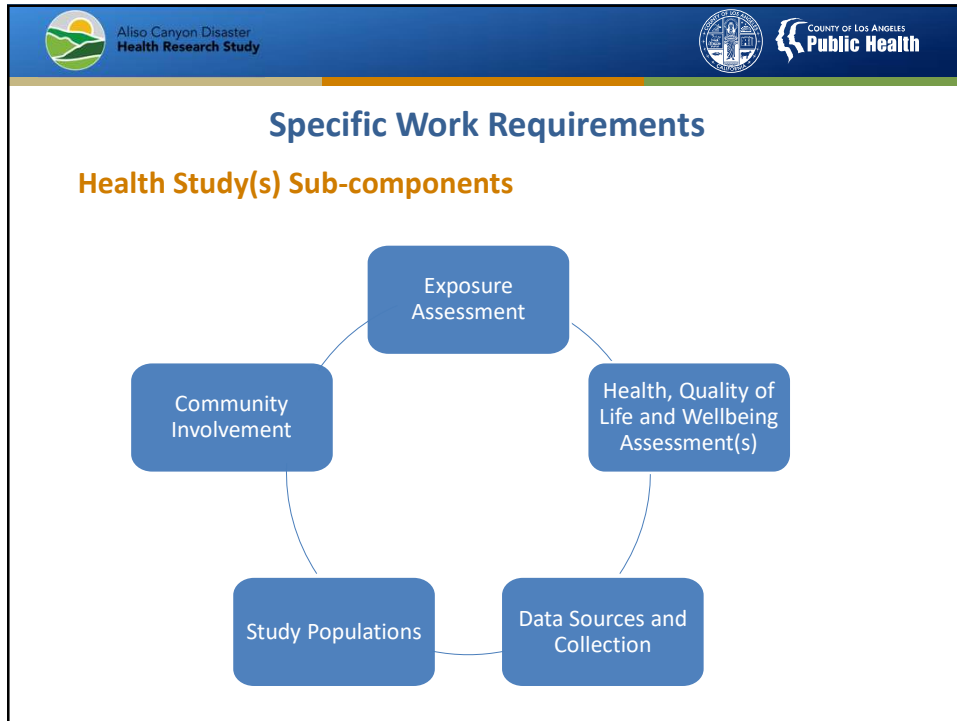
COUNTY OF LOS ANGELES
Public Health

Specific Work Requirements

- Research plan to consist of three main components:
 - 1 Health Study(s)**
 - Evaluate the impacts of chemical exposures related to the Aliso Canyon Disaster and other disaster-related stressors on acute, intermediate, and/or chronic physical health outcomes, mental health outcomes, and quality of life and well-being
 - 2 Data Core**
 - Data repository will be implemented, updated, and maintained
 - The repository will house all available data pertinent to and informative for the Health Study(s)
 - 3 Community Stakeholder Communications**
 - Develop and develop and implement a community stakeholder communications plan that includes knowledge translation strategies to disseminate research findings to diverse audiences

**Refer to Statement of Work (RFP Appendix A-1) Section 8 for more information.*

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Aliso Canyon Disaster Health Research Study

PROPOSAL PREPARATION, SELECTION PROCESS AND EVALUATION CRITERIA

The slide features a blue background with silhouettes of three people's heads in profile on the right side. The text is centered on the left.

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RFP Quick Reference Guide (RFP Section 1.2)


Quick Reference*	
Background	Section 1.3
Sample Contract: County Terms and Conditions	Section 2.2
Proposer’s Minimum Mandatory Qualifications	Section 3.0
RFP Timetable	Section 7.2
Proposer’s Virtual Conference	Section 7.6
Proposal Format	Section 7.9
Proposal Submission	Section 7.12

*Please note that the table above is provided to assist Proposers in navigating the RFP. Public Health strongly encourages Proposers to review the entire RFP and not only the sections listed in the table above.

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Proposal Submission Tips




Read and Follow Instructions

- Carefully review instructions in RFP sections
- Provide all required documents
- Complete all forms in Appendix D and sign when applicable
- Prepare Scope of Work – Appendix A-2, as instructed in RFP Section 7.9.6
- Prepare your budget and budget justification as instructed in Appendix B (Note: budget should not exceed the amount specified in the RFP)
- Check Public Health Contracts and Grants Division website for RFP Addendums and Scope of Work template
<http://publichealth.lacounty.gov/cg/index.htm>

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Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health

Common Proposal Submission Issues

MINIMUM MANDATORY QUALIFICATIONS

- Adherence to Minimum Mandatory Qualifications: Required Forms - Exhibit 3
- Sign and complete form in its entirety

FINANCIAL CAPABILITY

- Provide a complete set of your organization's annual financial statements for the last three (3) years.


STAFFING PLAN

- Make sure proposal provides a thorough description of Proposer's staffing plan, technical abilities, and organizational capacity, as outlined in RFP Section 7.9.4


REQUIRED FORMS/DOCUMENTS

- Provide your organization's Certificate of Good Standing, and Statement of Information
- Complete all forms in Appendix D and sign when applicable

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Aliso Canyon Disaster
Health Research Study




COUNTY OF LOS ANGELES
Public Health

Selection Process and Evaluation Criteria


The proposal will be evaluated per RFP Section 8.0, Selection Process and Evaluation Criteria

- **Stage 1: Adherence to Minimum Mandatory Qualifications (Pass/Fail Review)**
- **Stage 2: Proposal Evaluation (Point Based with 1,376 possible points)**
 - Proposer's Qualifications – Proposal Section A (40 pts)
 - ☐ References (40 pts)
 - ☐ Terminated Contracts (28 pts deduction)
 - ☐ Pending Litigation and Judgments (28 pts deduction)
 - ☐ Financial Capability (30 pts deduction)
 - Proposer's Staffing Plan, Technical Abilities, and Organizational Capacity – Proposal Section B (288 pts)

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Aliso Canyon Disaster
Health Research Study




COUNTY OF LOS ANGELES
Public Health


Selection Process and Evaluation Criteria

- **Stage 2: Proposal Evaluation – Continued**
 - Proposer’s Approach to Providing Required Services – Proposal Section C (836 pts)
 - Proposer’s Scope of Work Section – Proposal Section D (72 pts)
 - Proposed Budget and Budget Justification – Proposal Section E (100 points)
 - Quality Control Plan – Proposal Section F (40 pts)
 - Terms and Conditions of Sample Contract and Requirements of the Statement of Work: Acceptance of/or Exceptions to – Proposal Section G
 - Proposal Required Forms – Proposal Section H
- **Stage 3: Final Review and Selection**
 - Scoring and Ranking

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Aliso Canyon Disaster
Health Research Study




COUNTY OF LOS ANGELES
Public Health

Proposal Submission/Delivery Guidelines

- Proposers are required to submit by email, one electronic copy of the entire proposal in Adobe Acrobat or Portable Document Format (PDF), with no security provisions, by the deadline identified in RFP, Section 7.2, RFP Timetable, to the person and e-mail address identified in RFP, Section 5.2, Contract with County Personnel.
- Email subject line shall be clearly marked: **“Proposal Submission for Aliso Canyon Disaster Health Research Study RFP #2022-003”**.
- All proposals must be submitted in the prescribed format and order (RFP Sections 7.8 and 7.9). Any proposal that deviates from this format may be rejected without review at the Director of Public Health’s sole discretion.

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Proposal Deadline

- Be mindful of the due date and time
- Recommendation: submit a day early to allow for contingencies

Don't be late!


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Aliso Canyon Disaster Health Research Study
Q&A SESSION



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Aliso Canyon Disaster
Health Research Study



COUNTY OF LOS ANGELES
Public Health

How to Submit Questions

- Additional questions may be submitted via the Q&A box.

Note: Answers to all questions including those that are not addressed during the conference will be provided in an addendum that will be posted on Public Health's Contracts and Grants Division website:

<http://publichealth.lacounty.gov/cg/index.htm>

The addendum will also include a link to the recording of the conference.

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Aliso Canyon Disaster
Health Research Study



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Public Health

Aliso Canyon Disaster Health Research Study
RFP ADDENDUMS & UPCOMING DEADLINES

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Addendums



Addendum 1

- Posted on January 19, 2022
- Information amended: RFP, Section 7.0 Proposal Submission Requirements, subsection 7.2, RFP Timetable, Proposal Due Date

**Proposals are due by 4:00 PM Pacific Time
 on April 12, 2022**

- Public Health’s Contracts and Grants Division website:
<http://publichealth.lacounty.gov/cg/index.htm>

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Upcoming RFP Deadlines

RFP Timetable	
Proposer’s Written Questions Due by 4:00 PM Pacific Time (PT)	February 18, 2022
Intent to Apply due by 4:00 PM PT (Optional)	March 4, 2022
Release of Answers to Proposer’s Written Questions	March 10, 2022
Proposals are Due by 4:00 PM PT	April 12, 2022

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