


INTEROFFICE CORRESPONDENCE
Los Angeles Unified School District
Office of Environmental Health and Safety

INFORMATIVE

TO: Members, Board of Education
Ramon C. Cortines, Superintendent

DATE: December 11, 2015

FROM:  Robert Laughton, Director
Office of Environmental Health and Safety

SUBJECT: ALISO CANYON NATURAL GAS LEAK AIR MONITORING UPDATE

This is an update to the informative provided yesterday regarding the air monitoring activities being conducted at Porter Ranch Community School and Castlebay Lane Elementary School in response to the ongoing natural gas leak at the Aliso Canyon natural gas storage facility.

On December 9, 2015, real-time air monitors detected the presence of volatile organic compounds (VOCs) at both sites. Although the monitors can detect low levels, they are not able to identify specific compounds such as benzene. Because of the VOC detections, additional confirmation samples were collected on December 10, 2015 and sent to a laboratory for further analysis.

Laboratory results indicate that chemicals analyzed were either not detected or at concentrations below environmental regulatory limits. We have provided this information to the Los Angeles County Department of Public Health (LACDPH) for their review.

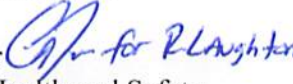
If you have any questions or require further information, please contact me at (213) 241-3199.

INTEROFFICE CORRESPONDENCE
Los Angeles Unified School District
Office of Environmental Health and Safety

INFORMATIVE

TO: Members, Board of Education
Ramon C. Cortines, Superintendent

DATE: December 10, 2015

FROM: Robert Laughton, Director  for R. Laughton
Office of Environmental Health and Safety

SUBJECT: ALISO CANYON NATURAL GAS LEAK AIR MONITORING

This is an update regarding the air monitoring activities being conducted at Porter Ranch Community School and Castlebay Lane Elementary School in response to the ongoing natural gas leak at the Aliso Canyon natural gas storage facility.

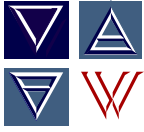
Air samples are collected throughout the day utilizing real-time hand-held monitors to determine if there is a health threat. A field technician gathers samples from various locations around both campuses, both indoors and outdoors. The results are reported in parts per million (PPM) for methane (CH₄) and hydrogen sulfide (H₂S). Since Dec. 1, when we obtained the necessary equipment, we have also been testing for benzene, toluene, ethylbenzene and xylene. Real-time data instruments are utilized for screening purposes and to determine if additional investigation is required.

We also collect data through the use of air-sampling canisters. The stainless-steel canisters are placed at indoor locations around the schools, where they collect samples over an eight-hour period. The canisters are then sent to a laboratory for analysis. The lab analysis is able to identify the presence of specific compounds and concentrations. Real-time air monitoring samples between November 30, 2015 and December 8, 2015 have been below regulatory guidance levels. Air monitoring activities will continue for the immediate future.

On December 9, 2015, real-time air monitors detected the presence of volatile organic compounds (VOCs) at both sites. Although the monitors can detect low levels, they are not able to identify specific compounds such as benzene. Because of the VOC detections, additional confirmation samples were collected on December 10, 2015 and sent to a laboratory for further analysis. Lab results are expected tomorrow.

In a phone conference this morning, OEHS provided the VOC monitoring information to the Los Angeles County Department of Public Health (LACDPH) and advised of the additional confirmation sampling activities. LACDPH staff concurred with actions taken which include additional confirmation sampling activities. Analytical results will be provided to LACDPH for review and to determine if further action is necessary.

If you have any questions or require further information, please contact me at (213) 241-3199.



DIRECT READING AIR MONITORING LOG

CLIENT: Los Angeles Unified School District

DATE: 12/9/2015

PAGE 1 of 4

ADDRESS: Castlebay Lane Elementary School

BY: Mindy Rigney

INSTRUMENT: Photo Ionization Detector (PID)

CALIBRATION VALUE: 5.0 ppmv CALIBRATION READING: 5.0 ppmv

INSTRUMENT: Methane Flame Ionization Detector (FID)

CALIBRATION VALUE: 100 ppmv CALIBRATION READING: 101 ppmv

INSTRUMENT: Hydrogen Sulfide Jerome J631X

CALIBRATION VALUE: N/A Factory Calibrated CALIBRATION READING: Manufacturer Calibration Only

TIME	Methane (ppmv)	Hydrogen Sulfide (ppmv)	VOCs* (ppmv)	Drager Tubes			Location
				Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	
0844	0.0	0.000	--	--	--	--	East of Performing Arts Center
1040	0.0	0.001	0.0	--	--	--	Southeast corner of field area
1050	0.0	0.000	0.0	--	--	--	Lunch benches
1058	0.0	0.001	0.0	--	--	--	Front of Room #27 (outdoors)
1100	0.0	0.001	0.0	--	--	--	Hallway between K4 and Room1
1142	0.0	0.000	0.0	--	--	--	Behind (west) of classroom #18
1146	0.0	0.000	0.0	--	--	--	Hallway in front of Classroom#7
1148	0.0	0.000	0.0	--	--	--	Kindergarten playground
1215	--	--	--	ND	ND	ND	Hallway in front of Room#14
1400	--	--	--	ND	ND	ND	Front of Performing Arts Center
1410	--	--	--	ND	ND	ND	YMCA Classroom
1420	--	0.000	0.0	--	--	--	YMCA Classroom

Weather Conditions: Partly Cloudy Wind Speed: 1 mph Wind Dir: northwest Temp: 50° F (at 7 am) to 80° F (at 2pm)

Comments: Toluene, Xylene and Ethylbenzene tested using dragger tubes.

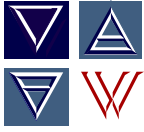
ND = Not Detected

ppmv = parts per million by volume

N/A = Not Applicable

-- = No Reading (no measurement taken at this time)

Volatile Organic Compound (VOC) PID readings are +/- 10% *VOC readings were previously reported as 'Benzene'. However, PID measures total VOCs and is not compound-specific. PID is a screening instrument and air samples were collected and submitted to laboratory on 24-hr rush turn-around-time.



DIRECT READING AIR MONITORING LOG

CLIENT: Los Angeles Unified School District

DATE: 12/9/2015

PAGE 2 of 4

ADDRESS: Castlebay Lane Elementary School

BY: Mindy Rigney

INSTRUMENT: Photo Ionization Detector (PID)

CALIBRATION VALUE: 5.0 ppmv CALIBRATION READING: 5.0 ppmv

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TIME	Methane (ppmv)	Hydrogen Sulfide (ppmv)	VOCs* (ppmv)	Drager Tubes			Location
				Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	
1429	0.0	0.000	0.0	--	--	--	Main office hallway near bathroom
1434	0.0	0.000	0.0	--	--	--	Outside classroom#34
1550	0.0	0.000	0.0	--	--	--	Main Office
1551	--	--	0.1	--	--	--	Nurse's room
1552	--	--	0.1	--	--	--	Main office storage
1553	--	--	0.0	--	--	--	Hallway outside Main Office
1554	--	--	0.0	--	--	--	Room K3
1557	--	--	0.0	--	--	--	Playground South end
1558	--	--	0.0	--	--	--	Science room
1603	--	--	0.0	--	--	--	Main office
1605	--	--	0.1	--	--	--	Main office hallway
1607	--	--	0.0	--	--	--	Outside Main Office Front of School

Weather Conditions: Partly Cloudy Wind Speed: 1-2 mph Wind Dir: variable Temp: 50° F (at 7 am) to 80° F (at 2pm)

Comments: Toluene, Xylene and Ethylbenzene tested using dragger tubes.

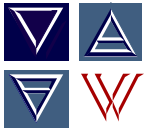
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DIRECT READING AIR MONITORING LOG

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TIME	Methane (ppmv)	Hydrogen Sulfide (ppmv)	VOCs* (ppmv)	Drager Tubes			Location
				Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	
1610	--	--	0.0	--	--	--	Outside by PAC
1612	--	--	0.0	--	--	--	Room K3
1614	--	--	0.0	--	--	--	YMCA Room
1615	--	--	0.0	--	--	--	Girls bathroom by lunch tables
1615	--	--	0.0	--	--	--	Lunch benches (outside)
1618	--	--	0.0	--	--	--	Inside PAC
1620	--	--	0.1	--	--	--	Main office
1625	--	--	0.0	--	--	--	Kindergarten playground
1640	0.0	0.002	0.0	--	--	--	Lunch benches
1644	0.0	0.002	0.0	--	--	--	Girls bathroom by lunch bench
1647	0.0	0.003	0.0	--	--	--	Grass area in front of school

Weather Conditions: Partly Cloudy Wind Speed: 1-2 mph Wind Dir: variable-mostly S-SW Temp: 75° F (at 4:50 pm)

Comments: Toluene, Xylene and Ethylbenzene tested using dragger tubes.

ND = Not Detected

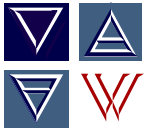
ppmv = parts per million by volume

N/A = Not Applicable

-- = No Reading (no measurement taken at this time)

Volatile Organic Compound (VOC) readings are +/- 10%

*VOC readings were previously reported as 'Benzene'. However, PID measures total VOCs and is not compound-specific. PID is a screening instrument and air samples were collected and submitted to laboratory on 24-hr rush turn-around-time.



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TIME	Methane (ppmv)	Hydrogen Sulfide (ppmv)	VOCs* (ppmv)	Drager Tubes			Location
				Toluene (ppmv)	Ethylbenzene (ppmv)	Xylene (ppmv)	
1652	--	0.003	0.0	--	--	--	SW side of school outside K playground
1730	0.0	0.002	0.0	--	--	--	YMCA Classroom
1735	0.0	0.001	0.0	--	--	--	Hallway in front of Room #6
1740	0.0	0.002	0.0	--	--	--	Front of PAC

Weather Conditions: Clear Wind Speed: 1-2 mph Wind Dir: south-southwest Temp: 70° F

Comments: Toluene, Xylene and Ethylbenzene tested using dragger tubes.
ND = Not Detected
ppmv = parts per million by volume
N/A = Not Applicable
-- = No Reading (no measurement taken at this time) *Volatile Organic Compound (VOC) readings were previously reported as 'Benzene'. However, PID measures total VOCs and is not compound-specific. PID is a screening instrument and air samples were collected and submitted to laboratory on 24-hr rush turn-around-time.
VOC PID readings are +/- 10%