

**County of Santa Clara
Department of Environmental Health**

**Third Quarter Noise Monitoring Report for
Lehigh Southwest Cement Company
24001 Stevens Creek Blvd.
Cupertino, CA 95014**

In the third quarter of 2016 the Department of Environmental Health (DEH) received two complaints related to noise in the vicinity of the Lehigh Cement Plant. We performed three different measurements in two locations as presented in Table 1 below.

Table 1 - LEHIGH NOISE MONITORING - THIRD QUARTER 2016

DATE AND TIME	LOCATION	dB(A) NOISE MEASUREMENT*	BACKGROUND NOISE OBSERVATIONS / COMMENTS /
7/1/16; 10:10 pm	Standing Oak Court ¹	40.8	Some background cricket noise; an occasional plane flyby; one car pass by; Lehigh Plant was audible
8/19/16; 11:07 pm	Standing Oak Court ¹	47.7	Loud cricket and bird calls were dominant; Lehigh Plant was audible
9/17/16; 5:35 am	Lebanon Drive	34.7	No background noise except one plane flyby; Lehigh Plant was barely audible

¹ - Background noise was dominant at Standing Oak Court on 7/1/16 and 8/19/16;

* Noise meter Session Reports included in Attachment 1 and expressed as L_{eq}

None of the readings above revealed a violation of the SCCOC noise ordinance due to the predominance of background noise.

Conclusion

Based upon our review of the data shown above DEH concludes that when the noise monitoring occurred, the Plant was operating in compliance with the SCCOC noise ordinance.

Session Report

9/30/2016

Information Panel

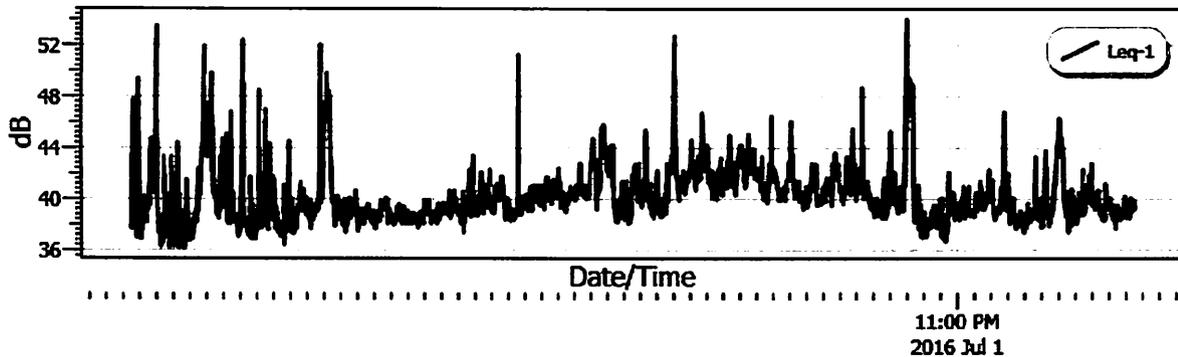
Name Lehigh Cement Plant Noise Survey
Start Time 7/1/2016 10:10:28 PM
Stop Time 7/1/2016 11:10:28 PM
Device Name BGK120021
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments Noise was measured on Standing Oak Court; Cupertino, CA
Observed some plane flyby and one car pass by.
The weather was clear and calm, no wind
Observed some background cricket noise.

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	40.8 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	C
Response	2	FAST			

Logged Data Chart

Lehigh Cement-Standing Oak Ct: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
7/1/2016 10:08:57 PM	Calibration	114.0	QC-10	QIL010123	5/19/2017

Session Report

9/29/2016

Information Panel

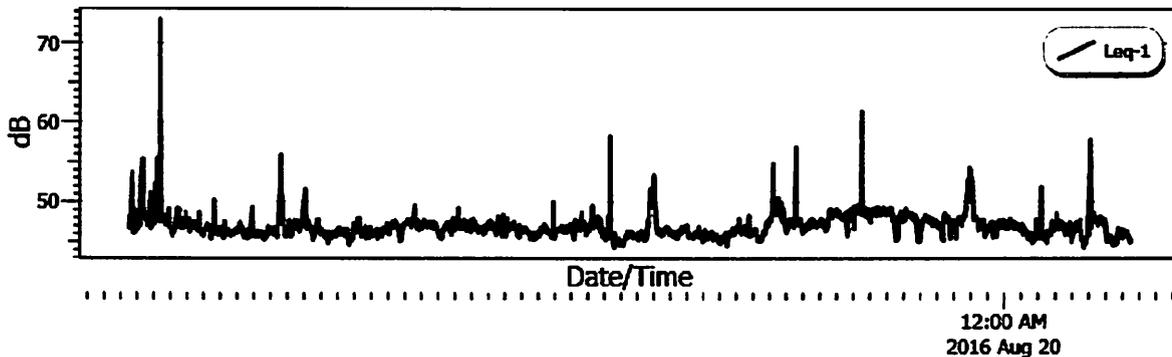
Name Lehigh Cement Plant Noise Survey
Start Time 8/19/2016 11:07:31 PM
Stop Time 8/20/2016 12:07:31 AM
Device Name BGK120021
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments A noise survey was done on Standing Oak Court.
Observed loud cricket and bird call noise. Also observed frequent plane passby and an occasional car passby.
The weather was clear and calm. Observed no wind. Cement plant noise was audible.

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	47.7 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	C
Response	2	FAST			

Logged Data Chart

Lehigh Cement-Standing Oak: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
8/19/2016 11:07:14 PM	Calibration	114.0	QC-10	QIL010123	5/19/2017

Session Report

9/23/2016

Information Panel

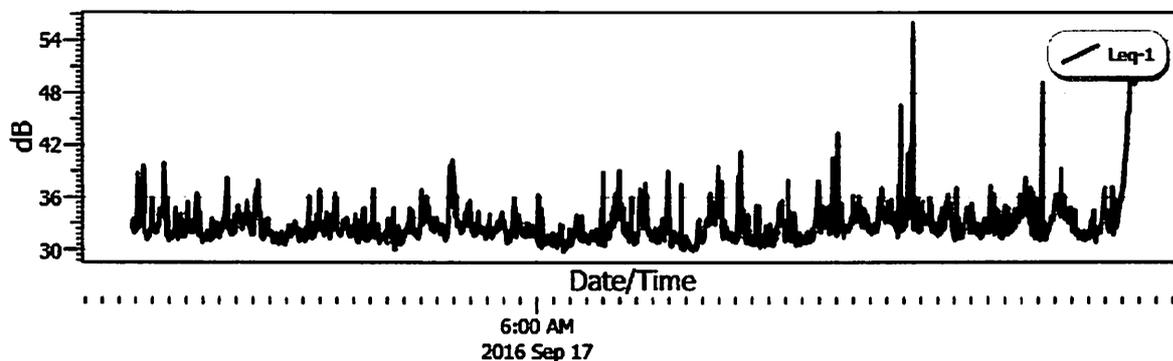
Name Lehigh Cement Plant Noise Survey
Start Time 9/17/2016 5:35:46 AM
Stop Time 9/17/2016 6:35:46 AM
Device Name BGK120021
Model Type SoundPro DL
Device Firmware Rev R.13H
Comments Noise was measured on Lebanon Drive in Cupertino, CA
No cricket or bird background noise and one plane flypby
Weather was foggy but not overcast or rainy
Observed no wind.

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	34.7 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	FAST	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	C
Response	2	FAST			

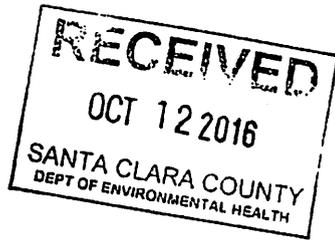
Logged Data Chart

Lebanon; Cupertino: Logged Data Chart



Calibration History

Date	Calibration Action	Level	Cal. Model Type	Serial Number	Cert. Due Date
9/17/2016 5:18:32 AM	Calibration	114.0	QC-10	QIL010123	5/19/2017



Lehigh Hanson
HEIDELBERGCEMENT Group

24001 Stevens Creek Blvd.
Cupertino, CA 95014
(408) 996-4000

September 7, 2016

VIA CERTIFIED MAIL/RETURN RECEIPT
7015 0640 0007 4329 1034

Mr. Michael Balliet, Director
County of Santa Clara
Department of Environmental Health
Consumer Protection Division
1555 Berger Drive
Suite 300
San Jose, CA 95112-2716

**RE: Lehigh Southwest Cement Company—Permanente Plant
Update on Sound Reduction Projects**

Dear Mr. Balliet:

On June 15, 2016, Lehigh Southwest Cement Company (Lehigh) committed to providing updates to the Santa Clara County Department of Environmental Health about ongoing projects intended to reduce the emissions of noise from the facility into the surrounding community. This letter details the past month's progress in that regard.

As mentioned in the last submittal, Lehigh is planning to install sound suppressors on the following devices. A purchase order for these sound suppressors has been issued to dB Noise Reduction of Ontario, Canada. The construction time is 6-8 weeks.

- 6FA19
- 7FA10b
- 7FA11
- 7FA21

Also, Lehigh is investigating changes to the kiln mill dust collector induced draft fan, also called the booster fan, that may have a sound reduction effect.

Lehigh is examining reduction of the booster fan speed daily during evening and nighttime hours by approximately 10%. It is hoped that this change will bring about a reduction in both sound frequency and amplitude from this source.

Another option is to change the pitch of the booster fan blades. This procedure may allow the fan to operate at lower speeds, with each fan blade taking a bigger “bite” out of the duct gases, and bringing about a reduction in gas turbulence. This work will require shutting down the entire clinker manufacturing process for at least 24 hours to allow fan access. Lehigh’s Heidelberg Technology Center (HTC) has suggested that this action may reduce stack fan noise.

As recommended by the County in its August 17 letter, Lehigh is developing a formal sound monitoring program. This program will be developed with the assistance of sound engineers from Burns and McDonnell. Once developed, we will provide you a detailed description of the program.

This course of action, in conjunction with projects already completed, demonstrate Lehigh’s ongoing commitment to enhancing community relations and improving the local environment. Please feel free to contact me anytime at 408-996-4269 if you have comments, or if you would like more information.

Sincerely,



Sam Barket
Environmental Manager

cc (via email):

Kari Saragusa, Lehigh
Denzil Cotera, Lehigh
Alan Sabawi, Lehigh
Ana Damonte, Lehigh