



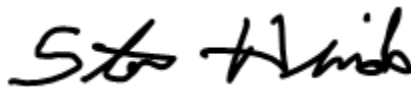
COUNTY OF RIVERSIDE
DEPARTMENT OF ENVIRONMENTAL HEALTH

Date: August 29, 2014
To: Matt Straite
Riverside County Planning Department
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Riverside, California 92502

Reviewed Approved by: Steven D. Hinde, REHS, CIH
Senior Industrial Hygienist



Signature:



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Office of Industrial Hygiene
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Riverside, California 92502
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Project Reviewed: Plot Plan No. 24883 (Church, Events & Vineyard)

SR Number: 31731

Applicant: Greg Lansing
Lansing Companies
12671 High Bluff Drive, Suite 150
San Diego, CA 92130

Noise Consultant **Kunzman Associates, Inc.**
1111 Town & Country Rd, Suite 34
Orange, CA 92868

Review Stage: First Review

Information Provided: "Calvary Chapel Bible Fellowship, Noise Impact Analysis", August 4, 2014, Ref. # 5760A

Noise Standards:

For Stationary Noise Sources:

A. Standards:

Facility-related noise, **as projected to any portion of any surrounding property containing a “habitable dwelling, hospital, school, library or nursing home”**, must not exceed the following worst-case noise levels:

- a) 45 dB (A) – 10 minute noise equivalent level (“leq”), between the hours of 10:00 p.m. to 7:00 a.m. (nighttime standard).
- b) 65 dB (A) – 10 minute leq, between 7:00 a.m. and 10:00 p.m. (daytime standard).

B. Requirement for Determination of Community Noise Impact:

- a) Noise originating from operations within the facility grounds shall be treated as “stationary” noise sources for which this standard will apply.
- b) Noise Modeling Methodology: Noise predictions are to be made by an engineer, acoustical consultant or other similar professional with experience in predicting community noise exposure using standard methods and practices of the noise consulting industry.
- c) Required Modeling Parameters for Stationary Sources:
 - i. Stationary sources are to be modeled as “point” sources.
 - ii. Mobile point sources are to be modeled as emanating from the acoustical centroid of the activity, or at its closest approach to potentially impacted residential property lines, which ever yields the worst-case results.
 - iii. Noise modeling for each piece of acoustical equipment, process or activity must be based on Reference Noise Levels (RNL). RNL may be obtained directly from the manufacturer (in case of equipment) or generated from field studies. Regardless, the data must be representative of worst-case conditions. Directionality of the noise source must be taken into consideration if applicable.
 - iv. Predicted noise levels are to be expressed in terms of worst-case “equivalent continuous sound levels” [or, L_{eq}] averaged over a ten minute period.
 - v. For modeling purposes, receivers are assumed to be positioned at



the property line boundary at an elevation of five feet off the ground.

- vi. Terrain conditions for modeling noise propagation: Assumptions regarding ground effects, atmospheric absorption and other forms of noise attenuation must be fully justified.

Findings:

The consultant's report is adequate. Based on our calculations the recommendation listed below should provide sufficient attenuation to reduce the exterior noise levels to below 65 dB (A) during the day and 45 dB (A) at night.

Recommendations:

The following conditions shall be applied to the project based on the information provided by the acoustical consultant:

1. Facility-related noise, **as projected to any portion of any surrounding property containing a “sensitive receiver, habitable dwelling, hospital, school, library or nursing home”**, must not exceed the following worst-case noise levels 45 dB(A) – 10 minute noise equivalent level (“leq”), between the hours of 10:00 p.m. to 7:00 a.m. (nighttime standard) and 65 dB (A) – 10 minute leq, between 7:00 a.m. and 10:00 p. m. (daytime standard).

Construction Measures:

2. Whenever a construction site is within one-quarter (1/4) of a mile of an occupied residence or residences, no construction activities shall be undertaken between the hours of 6:00 p.m. and 6:00 a.m. during the months of June through September and between the hours of 6:00 p.m. and 7:00 a.m. during the months of October through May. Exceptions to these standards shall be allowed only with the written consent of the building official.
3. All construction vehicles, equipment, fixed or mobile shall be equipped with properly operating and maintained mufflers, consistent with the manufactures' standard. The construction contractor shall place all stationary construction equipment so that emitted noise is directed away from the noise sensitive receptors nearest the project site.
4. The project portent shall mandate that the construction contractor prohibit the use of personal or commercial music or sound amplification on the project site during construction.
5. The construction contractor shall limit haul truck deliveries to the same hours specified for contraction equipment. To the extent feasible, haul routes shall not pass sensitive land uses of residential dwellings.

6. During construction, best efforts should be made to locate stockpiling and/or vehicle staging area as far as practicable from existing noise sensitive receptors (residential dwellings) nearest the project site during all project construction.

Operational Measures:

7. If more than one voice is proposed to be amplified outdoors, or is amplified music is proposed outdoors, the project operator will be required to conduct another noise analysis showing that the proposed amplification will not exceed County noise standards and shall obtain a single and/or continuous exemption in accordance with Ordinance No. 847 Section 7.
8. If complaints continue, Calvary Chapel Bible Fellowship shall take ten minute measurements at each property line during the event to verify that the noise level does not exceed 65 dBA-10-minutes L_{eq} . The measurements shall be taken using a noise meter that complies with applicable requirements of the American National Standards Institute (ANSI) for either a Type I or Type II sound level meter. The meter shall be programmed to measure in a “slow” mode to record noise levels in “A” weighted form.
9. If complaints continue after Calvary Chapel Bible Fellowship has measured and verified event noise levels, Office of Industrial Hygiene staff shall take measurements to verify noise levels.
10. If the County finds that the Noise Ordinance property line limits are being violated or that project conditions are being violated, the County shall reconsider allowed hours of operation, number of guests, amount of special events per year, or approval of the specific facility and the project operator shall be required to pay fees assessed per the Department’s hourly rate pursuant to Ordinance No. 6781.
11. Outdoor special events and associated deliveries and any sound amplifying equipment, and/or performance of live music shall be limited to the hours of 8:00 AM to 10:00 PM Monday through Sunday.