Appendices

Appendix I Noise Data

Appendices

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LOCAL REGULATIONS AND STANDARDS

Chapter 11: Noise Element

I. Introduction

Noise levels can have a significant impact on quality of life. Excessive levels of noise result in increased neighborhood annoyance, dissatisfaction, and in some cases, health and safety hazards. Due to Los Angeles County's geographic, environmental, and cultural diversity, the levels and types of noise issues vary significantly. The purpose of the Noise Element is to reduce and limit the exposure of the general public to excessive noise levels. The Noise Element sets the goals and policy direction for the management of noise in the unincorporated areas.

II. Background

Sound is the result of a sound source inducing vibration in the air. The vibration produces alternating bands of relatively dense and sparse particles in the air, spreading outward from the source. The result of the movement of the particles is a fluctuation in the normal atmosphere pressure, or sound waves. These waves radiate in all directions from the source and may be reflected and scattered or, like other wave actions, may turn corners. When the source stops vibrating, the sound waves disappear, almost instantaneously, and the sound ceases. The ear is extremely sensitive to sound pressure fluctuations, which are converted into auditory sensations.

Sound may be described by three variables: amplitude, frequency, and time pattern. For more information on sound descriptors, please refer to Appendix G.

Noise Measurement

Noise is often described in qualitative terms, and individuals differ greatly on what noises are considered pleasant or annoying. The community noise metrics used in the Noise Element are either Community Noise Equivalent Level (CNEL) or Day-Night Average Level (Ldn). CNEL and Ldn are the metrics used to describe annoyance due to noise and to establish land use planning criteria regarding noise.

Community Noise Equivalent Level (CNEL)

CNEL is the average equivalent A-weighted sound level during a 24-hour day that is obtained after the addition of five decibels to sound levels in the evening, from 7 p.m. to 10 p.m., and after the addition of 10 decibels to sound levels in the evening, from 10 p.m. to 7 a.m. The CNEL metric is currently used by the California Aeronautics Code for the evaluation of noise impacts at airports. Local compliance with the state airport standard requires that community noise levels be expressed in CNEL.

Day-Night Average Level (Ldn)

Ldn is the average equivalent A-weighted sound level during a 24-hour day that is obtained after the addition of 10 decibels to sound levels in the evening, after 10 p.m. and before 7 a.m. The Ldn represents a simplification of CNEL.

For more information on basic levels of noise measurement, please refer to Appendix G.

Noise Environment

The typical community noise environment is made up of background or "ambient noise," and higher, "intrusive" levels of noise. In the unincorporated areas, the major sources of noise come from transportation systems, such as commercial and private airports, rail and bus networks, and the regional freeway and highway system. Other major sources of noise have historically been identified with industrial uses, such as manufacturing plants.

Effects of Noise

Noise by definition is unwanted sound. It is an intrusion on one's sense of privacy. Noise can be an emotional strain and a source of great frustration when the noise is beyond a person's control. Noise may interfere with a broad range of human activities, the overall effect of which is to cause annoyance.

The potential effects of noise on humans include the following:

- Hearing loss;
- Non-auditory physiological response;
- Communication interference;
- Performance interference;
- Sleep disturbance;
- Subjective response; and
- Community response.

Hearing Loss

Exposure to sufficient levels of noise for long periods of time can produce temporary or permanent loss of hearing. Noise levels have been identified as protective of the hearing of the general population from significant damage due to environmental noise. Environmental noise differs from workplace noise in that it is generally intermittent, covers 365 days per year rather than 250 work days, and covers 24 hours per day rather than 8 hours. Taking these factors into account, the U.S. Environmental Protection Agency (EPA) has identified an environmental noise level of Leq (24) = 70 dB to protect 96 percent of the general population from a hearing loss of greater than 5 dB at 4000 Hz.

Non-Auditory Physiological Response

Excessive exposure to noise may contribute to the development and aggravation of stress-related conditions, such as high blood pressure, coronary diseases, ulcers, colitis, and migraine headaches. U.S.EPA studies suggest the possibility of adverse health outcomes associated with environmental noise and underscore the need for additional research. Although it is reasonable to view annoyance as a symptom or sign of noise-induced stress, no direct test of this relationship has been made.

Communication Interference

The indirect effects of speech interference are:

Disturbance of normal domestic or educational activities;

- Creation of an undesirable living environment;
- Safety hazards; and
- A source of extreme annoyance.

The appropriate noise levels to prevent outdoor speech interference (oral communication) for the outdoors, depends on the voice level and communication distance. For example, at a distance of two meters from the speaker with a normal voice (70 dB) the sound level that would allow communication with 95 percent intelligibility is 60 dB. Indoors, an Ldn of 50 dB permits virtually100 percent intelligibility. For older populations and people with hearing problems, the background noise would be lower.

High levels of noise reduce the number of conversations and their content, quality, and fidelity. Children have a relative lack of knowledge of language that makes them less able to "hear" speech when some of the cues are lost. Repeated exposure to high levels of noise in "critical periods of development" might affect conceptual development and the acquisition of speech, language, and language-related skills, such as reading and listening.

Performance Interference

In general, noise is more likely to reduce the accuracy than the total quantity of work, and it affects complex tasks more than simpler ones. As noise levels increase, both reaction times and numbers of errors increase. For some simple tasks, noise may enhance performance (when distracting cues are dropped out). Factors to consider on how noise affects work performance include: the characteristics of noise; characteristics of the task; aspects of performance considered important; and individual differences.

Noise levels most likely to be detrimental to performance are:

- Continuous noise levels above 90 dB; and
- Levels less than 90 dB, if they have predominantly high frequency components, are intermittent, unexpected, or uncontrollable.

According to the U.S. EPA, field studies demonstrate that high noise levels have been corroborated with poor performance on reading tests and auditory discrimination problems.

Sleep Disturbance

Sleep disturbance is one of the major causes of annoyance due to noise. Long-term or chronic sleep disturbance may lead to health disorders. In general, the higher the noise level, the greater the probability of a response. For example, a study found that there was a 5 percent probability of subjects being awakened by peak levels of 40 dB and a 30 percent probability at 70 dB. If the number of sound peaks increases, an individual will take longer to fall asleep, even if the average sound level decreases. However, continuous or very frequent noise throughout the night, even as high as 95 dB, appears to cause little change in the average duration of the sleep stages, since such stages are disturbed more by peaks than by high continuous levels alone.

Subjective Response

Excessive noise exposure can result in a variety of psychological responses or symptoms in an individual. The physical attributes of noise that can affect an individual's subjective response include apparent loudness or intensity, spectral shape, presence of discrete frequency components,

abruptness or impulsiveness, intermittency, duration, and temporal variations. Other factors include the time of day, the activity interfered with, the ability to control the source and the information content, and personal factors.

Sounds of two KHz or higher are generally the most annoying and disruptive, although noises that are abrupt, intermittent, or fluctuate with time can be very annoying as well. In general, the louder the noise, the more annoying it is likely to be.

Community Response

Community response to noise is usually studied through social surveys. These studies attempt to predict, on an aggregate basis, the degree of annoyance or other effects that can be expected by the community at varying noise levels. Community response to noise is based on statistical averages, since it is known that response to noise varies greatly among individuals.

The most stable indicator of annoyance is the percentage of exposed persons who rate themselves as being highly annoyed. According to the U.S. EPA, there is a relationship between annoyance, complaints, and community reaction as a function of day-night sound levels. Approximately 17 percent of the population will be highly annoyed at an Ldn of 55 dB, and over 40 percent of the population will be highly annoyed if the Ldn exceeds 70 dB, which is the maximum safe level that the U.S. EPA has identified to protect against the risk of hearing loss. The relationship between noise and annoyance is based largely on the results of surveys around airports. These estimates have been criticized because aircraft noise is not present in many urban areas. In addition, complaints occur at a much lower rate than annoyance, and generally do not become evident until the noise levels are very high. For example, at an Ldn of 70 dB, approximately 10 percent of the population can be expected to complain, while 25 to 40 percent of the population will be annoyed.

Table 11.1 lists disturbances from excessive noise that range from minor sleep annoyance to potential hearing loss. Schools and hospitals, and other land uses that house sensitive receptors, or those at high risk of being affected by high noise levels, are considered noise-sensitive uses. In addition to the effects on human physiology and behavior, excessive noise impacts other species. For example, birds living in noisier environments tend to sing louder at night.

Table 11.1: Sources and Effects of Common Noise

dB	Effects	Observation	Source
130		Pain threshold	Hard rock band
120			Thunder
110		Deafening	Jet take-off
100	Hearing loss		Loud auto horn at 10 ft.
90			
85			Noisy city street
80		Very loud	
75			School cafeteria

70			
65	Physiological effects		Vacuum cleaner at 10 ft.
60	Interference with	Loud	
55	speech		Normal speech at 3 ft.
50			Average office
45	Sleep interruption		Dishwasher in next room
40		Moderately loud	Soft radio music
35			Quiet residential area
30			Interior of average residence
20	Sleep disturbance	Faint	Average whisper at 6 ft.
10			Rustle of leaves in wind
5			
0	Audibility threshold	Very faint	Human breathing

Source: Compilation of scientific and academic literature, generated by FHWA and U.S. EPA.

Community Attitudes Toward Noise Impacts

Countywide outreach efforts for the General Plan reveal that both urban and rural communities experience neighborhood disturbances, such as barking dogs, leaf blowers, garbage trucks, buses, back-up alarms, permanent amplified noise (i.e., PA systems), and motorcycles. Urban residential areas seemed to be affected by commercial and industrial spillover noise, such as trucks making late night deliveries at neighborhood shopping centers. Virtually all communities objected to noise generated by freeways and major arterials. All communities reacted to aircraft noise to some extent, with the strongest reaction from those whose homes and businesses lie beneath the flight path of major airports.

In compliance with the County Noise Ordinance, the Los Angeles County Department of Public Health (DPH) has performed noise complaint assessments and surveys from 1996 through 1999. During this period, DPH responded to a total of 111 noise complaints under its statutory authority. It should be noted, however, that the quantification of complaints should not be used solely as a definitive expression of community response.

Regulatory Framework

The following section outlines federal, state and county noise-level standards.

Federal Regulations

The adverse impact of noise was officially recognized by the federal government in the Noise Control Act of 1972, which serves three purposes:

- Promulgating noise emission standards for interstate commerce;
- Assisting state and local abatement efforts; and
- Promoting noise education and research.

The Office of Noise Abatement and Control (ONAC) was initially tasked with implementing the Noise Control Act. However, the ONAC has since been eliminated, leaving the development of federal noise policies and programs to other federal agencies and inter-agency committees. For example, the Occupational Safety and Health Administration (OSHA) agency prohibits exposure of workers to excessive sound levels. The U.S. Department of Transportation (DOT) assumed a significant role in noise control through its various operating agencies, such as with the Federal Aviation Administration (FAA), which regulates noise generated by aircraft and airports. Surface transportation system noise is regulated by a host of agencies, including the Federal Transit Administration (FTA), which requires that all rail systems receiving federal funding be constructed and operated in accordance with its regulations and specifications. The Federal Railroad Administration (FRA) sets forth and enforces safety standards, including noise emissions within railroad locomotive cabs. Transit noise is regulated by the FTA, while freeways that are part of the interstate highway system are regulated by the Federal Highway Administration (FHWA). The FHWA has adopted and promulgated noise abatement criteria for highway construction projects. The federal government encourages local jurisdictions to use their land use regulatory authority to site new development to minimize potential noise impacts. For information on federal guidelines for acceptable environmental noise levels, please refer to Appendix G.

State Regulations

A major source of excessive noise is airports. Title 21 of the California Code of Regulations establishes the maximum acceptable level of aircraft noise in proximity to residences, schools, hospitals, and places of assembly at 65 dB CNEL. The County's Airport Land Use Plan was adopted by the Airport Land Use Commission (ALUC) in 1991 and contains noise contours based on the state standards for all public use airports within Los Angeles County. Figure 11.1 shows these noise contours, and includes updated noise contour data where available. The County's Airport Land Use Plan can be found on the Los Angeles County Department of Regional Planning's web site, located at http://planning.lacounty.gov/ALUC.

Figure 11.1: Airport Noise Contours Map

Additional state regulatory codes that relate to noise abatement include:

- Uniform Building Code: Title 24 of the California Code of Regulations requires certain noise insulation measures to be used in the design of all new residential construction other than detached, single family dwellings;
- Vehicle Code: Establishes maximum noise levels for motor vehicles; and
- California Code of Regulations: Establishes maximum acceptable levels of aircraft noise.

The California Department of Health Service's Office of Noise Control (ONC), established in 1973, was instrumental in developing regulatory tools to control and abate noise for use by local agencies. One significant model is the Land Use Compatibility for Community Noise Environments Matrix, which allows a local jurisdiction to clearly delineate the compatibility of sensitive uses with various incremental levels of noise. The County has adapted this matrix to develop the County's exterior noise standards, as seen in Table 11.2.

County Regulations

The County maintains the health and welfare of its residents with respect to noise through nuisance abatement ordinances and land use planning. The County Noise Control Ordinance, Title 12 of the County Code, was adopted by the Los Angeles County Board of Supervisors in 1977 "...to control unnecessary, excessive, and annoying noise and vibration...." It declares that the purpose of the County policy is to "...maintain quiet in those areas which exhibit low noise levels and to implement programs aimed at reducing noise in those areas within the county where noise levels are above acceptable values." (Section 12.08.010 of the County Code).

On August 14, 2001, the Board of Supervisors approved an ordinance amending Title 12 of the County Code to prohibit loud, unnecessary, and unusual noise that disturbs the peace and/or quiet of any neighborhood or which causes discomfort or annoyance to any reasonable person of normal sensitivity residing in the area. Regulations can include requirements for sound barriers, mitigation measures to reduce excessive noise, or the placement and orientation of buildings, and can specify the compatibility of different uses with varying noise levels, as shown in Table 11.2. For more information on noise barrier strategies, please see Appendix G.

Table 11.2: Los Angeles County Community Noise Criteria

Level (dBA)

Noise Zone	Land Use of Receptor Property	Time	Std 1L5030 min/hr	Std 2L2515 min/hr	Std 3L8.35 min/hr	Std 4L1.71 min/hr	Std5L0 at no time
1	Noise Sensitive	Anytime	45	50	55	60	65
li li	II Residential	10PM to 7AM	45	50	55	60	65
ii Residential	Residential	7AM to 10PM	50	55	60	65	70
		10PM to 7AM	55	60	65	70	75
III	Commercial	7AM to 10PM	60	65	70	75	80
IV	Industrial	Anytime	70	75	80	85	90

Source: Section 12.08.390 of the Los Angeles County Code (a portion of the Noise Control Ordinance)

Noise Levels

Figure 11.2 shows the noise contours for major sources of noise. A discussion of current and projected levels for major sources of noise in the unincorporated areas can be found in Section 5.12 Noise and Vibration, and Appendix K of the General Plan Environmental Impact Report.

Figure 11.2: Noise Contours Map

III. Issues

Reducing Noise Impacts Through Planning

Since excessive noise affects quality of life, existing and future noise levels must be considered when making land use planning decisions to minimize exposure to excessive noise. Noise-sensitive uses, such as residences, hospitals, schools, childcare facilities, and places of assembly are especially vulnerable to excessive noises generated by airports, rail, freeways and primary arterials, heavy industry and warehousing facilities. As stated in the noise policies, planning for these noise-sensitive uses must include sufficient spatial separation or site design and construction to ensure compatibility with noise-generating uses.

Coordinated transportation and land use planning plays a critical role in the prevention and mitigation of excessive noise impacts. Federal and state laws, in many instances, preempt local laws from controlling certain sources by setting noise levels and operational procedures for aircraft, motor vehicles, and interstate carriers. Local governments can, whenever they have jurisdictional authority, address these noise problems through a combination of land use planning, building code and zoning regulations, and other policies where a noise abatement program is required.

As specified in Policy N 1.12, decisions on land adjacent to transportation facilities, such as the airports, freeways and other major highways, must consider both existing and future noise levels of these transportation facilities to assure the compatibility of proposed uses.

In addition, the condition of road surfaces and traffic congestion can contribute to vehicle noise. Local roadway design features, traffic management, and traffic calming techniques can minimize noise from traffic speed and frequent vehicle acceleration and deceleration, while innovative roadway paving material can further reduce traffic noise.

IV. Goals and Policies

Goal N 1: The reduction of excessive noise impacts.		
Topic	Policy	
Reducing Noise Impacts	ise Policy N 1.1: Utilize land uses to buffer noise-sensitive uses from sources of adverse noise impacts.	
	Policy N 1.2: Reduce exposure to noise impacts by promoting land use compatibility.	
	Policy N 1.3: Minimize impacts to noise-sensitive land uses by ensuring adequate site design, acoustical construction, and use of barriers, berms, or additional engineering controls through Best Available Technologies (BAT).	

Policy N 1.4: Enhance and promote noise abatement programs in an effort to maintain acceptable levels of noise as defined by the Los Angeles County Exterior Noise Standards and other applicable noise standards.

Policy N 1.5: Ensure compliance with the jurisdictions of State Noise Insulation Standards (Title 24, California Code of Regulations and Chapter 35 of the Uniform Building Code), such as noise insulation of new multifamily dwellings constructed within the 60 dB (CNEL or Ldn) noise exposure contours.

Policy N 1.6: Ensure cumulative impacts related to noise do not exceed health-based safety margins.

Policy N 1.7: Utilize traffic management and noise suppression techniques to minimize noise from traffic and transportation systems.

Policy N 1.8: Minimize noise impacts to pedestrians and transit-riders in the design of transportation facilities and mobility networks.

Policy N 1.9: Require construction of suitable noise attenuation barriers on noise sensitive uses that would be exposed to exterior noise levels of 65 dBA CNEL and above, when unavoidable impacts are identified.

Policy N 1.10: Orient residential units away from major noise sources (in conjunction with applicable building codes).

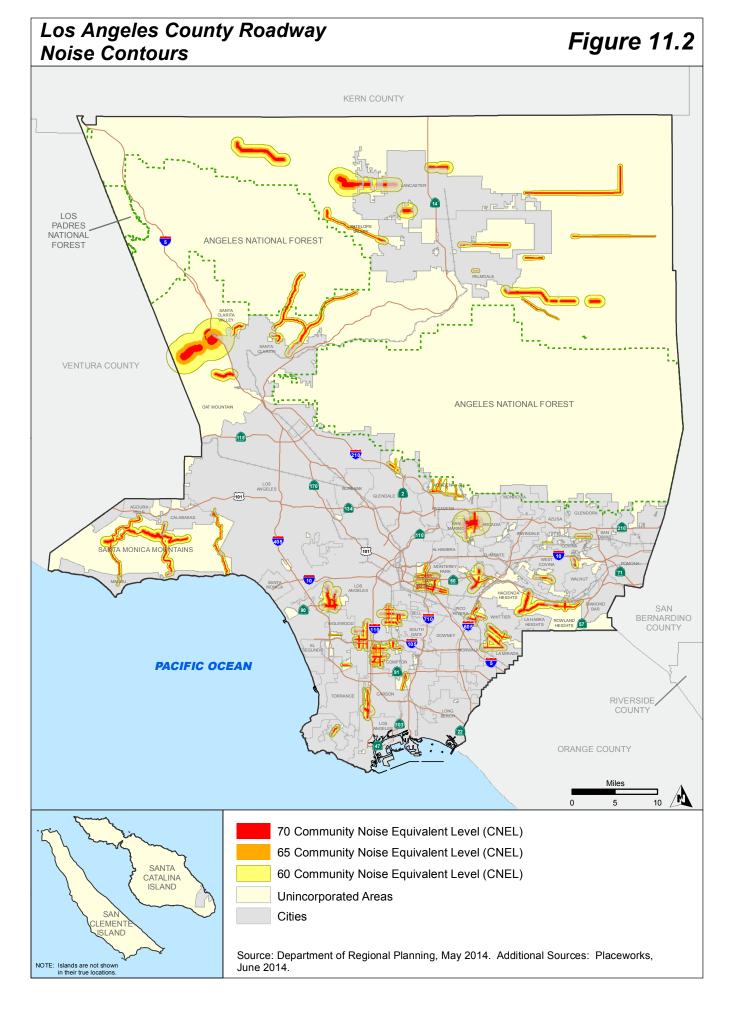
Policy N 1.11: Maximize buffer distances and design and orient sensitive receptor structures (hospitals, residential, etc.) to prevent noise and vibration transfer from commercial/light industrial uses.

Policy N 1.12: Decisions on land adjacent to transportation facilities, such as the airports, freeways and other major highways, must consider both existing and future noise levels of these transportation facilities to assure the compatibility of proposed uses.

V. Noise Element Implementation Program

- Countywide Noise Assessment Survey/County Noise Ordinance Update
- Countywide Noise Mapping
- Noise Abatement Program

For descriptions of these programs, please refer to Chapter 16: General Plan Implementation Programs.



Chapter 12.08 - NOISE CONTROL

Parts:

Part 1 - GENERAL PROVISIONS

12.08.010 - Title for citation.

The ordinance codified in this chapter may be cited as the "noise control ordinance of the county of Los Angeles."

(Ord. 11778 § 2 (Art. 1 § 101), 1978: Ord. 11773 § 2 (Art. 1 § 101), 1978.)

12.08.020 - Declaration of policy—Nuisances deemed misdemeanors.

- A. In order to control unnecessary, excessive and annoying noise and vibration in the county of Los Angeles, it is declared to be the policy of the county to prohibit such noise and vibration generated from any sources as specified in this chapter. It shall be the policy of the county to maintain quiet in those areas which exhibit low noise levels and to implement programs aimed at reducing noise in those areas within the county where noise levels are above acceptable values.
- B. It is determined that certain noise levels and vibration are detrimental to the public health, welfare and safety and contrary to public interest, and therefore the board of supervisors of the county does ordain and declare that creating, maintaining, causing or allowing to be created, caused or maintained any noise or vibration in a manner prohibited by or not in conformity with the provisions of this chapter is a public nuisance and shall be punishable as such.

(Ord. 11778 § 2 (Art. 2 § 201), 1978: Ord. 11773 § 2 (Art. 2 § 201), 1978.)

Part 2 - DEFINITIONS

12.08.030 - Terminology—Conformity with ANSI standards.

All terminology used in this chapter, not defined in this Part 2, shall be in conformance with applicable publications of the American National Standards Institute (ANSI) or its successor body.

(Ord. 11778 § 2 (Art. 3 § 301), 1978: Ord. 11773 § 2 (Art. 3 § 301), 1978.)

12.08.040 - Definitions applicable.

The following words, phrases and terms as used in this chapter shall have the meanings as indicated in this Part 2.

(Ord. 11778 § 2 (Art. 3 § 302 (part)), 1978: Ord. 11773 § 2 (Art. 3 § 302 (part)), 1978.)

12.08.050 - Agricultural property.

"Agricultural property" means a parcel of real property which is undeveloped for any use other than agricultural purposes.

(Ord. 11778 § 2 (Art. 3 § 302(a)), 1978: Ord. 11773 § 2 (Art. 3 § 302(a)), 1978.)

12.08.060 - Ambient noise histogram.

"Ambient noise histogram" means the composite of all noise from sources near and far, excluding the alleged intrusive noise source. In this context, the ambient noise histogram shall constitute the normal or existing level of environmental noise at a given location.

(Ord. 11778 § 2 (Art. 3 § 302(b)), 1978: Ord. 11773 § 2 (Art. 3 § 302(b)), 1978.)

12.08.070 - A-weighted sound level.

"A-weighted sound level" means the sound level in decibels as measured on a soundlevel meter using the A-weighting network. The level so read is designated dB (A) or dBA.

(Ord. 11778 § 2 (Art. 3 § 302(c)), 1978: Ord. 11773 § 2 (Art. 3 § 302(c)), 1978.)

12.08.080 - Commercial property.

"Commercial property" means a parcel of real property which is developed and used either in part or in whole for commercial purposes. In cases of multiple land uses of any property, the county zoning classification of such property pursuant to county Ordinance 1494, as amended, shall be applicable. (See <u>Title 22</u> of this code.)

(Ord. 11778 § 2 (Art. 3 § 302(d)), 1978: Ord. 11773 § 2 (Art. 3 § 302(d)), 1978.)

12.08.090 - Construction.

"Construction" means any site preparation, assembly, erection, substantial repair, alteration, or similar action, for or of public or private rights-of-way, structures, utilities, or similar property.

(Ord. 11778 § 2 (Art. 3 § 302(e)), 1978: Ord. 11773 § 2 (Art. 3 § 302(e)), 1978.)

12.08.100 - Cumulative period.

"Cumulative period" means an additive period of time composed of individual time segments which may be continuous or interrupted.

(Ord. 11778 § 2 (Art. 3 § 302(f)), 1978: Ord. 11773 § 2 (Art. 3 § 302(f)), 1978.)

12.08.110 - Decibel.

"Decibel" means a unit for measuring the amplitude of a sound, equal to 20 times the logarithm to the base of 10 of the ratio of the pressure of the sound measured to the reference pressure, which is 20 micropascals.

(Ord. 11778 § 2 (Art. 3 § 302(g)), 1978: Ord. 11773 § 2 (Art. 3 § 302(g)), 1978.)

12.08.120 - Dwelling unit.

"Dwelling unit" means a single unit providing complete independent living facilities for one or more persons, including permanent provisions for living, sleeping, eating, cooking and sanitation.

(Ord. 11778 § 2 (Art. 3 § 302(h)), 1978: Ord. 11773 § 2 (Art. 3 § 302(h)), 1978.)

12.08.130 - Emergency machinery, vehicle or alarm.

"Emergency machinery, vehicle or alarm" means any machinery, vehicle or alarm used, employed, performed or operated in an effort to protect, provide or restore safe conditions in the community or for the citizenry, or work by private or public utilities when restoring utility service.

(Ord. 11778 § 2 (Art. 3 § 302(i)), 1978: Ord. 11773 (Art. 3 § 302(i)), 1978.)

12.08.140 - Emergency work.

"Emergency work" means any work performed for the purpose of preventing or alleviating the physical trauma or property damage threatened or caused by an emergency.

(Ord. 11778 § 2 (Art. 3 § 302(j)), 1978: Ord. 11773 (Art. 3 § 302(j)), 1978.)

12.08.150 - Fixed noise source.

"Fixed noise source" means a stationary device which creates sounds while fixed or motionless, including but not limited to residential, agricultural, industrial and commercial machinery and equipment, pumps, fans, compressors, air conditioners and refrigeration equipment.

(Ord. 11778 § 2 (Art. 3 § 302(k)), 1978: Ord. 11773 (Art. 3 § 302(k)), 1978.)

12.08.160 - Grading.

"Grading" means any excavating or filling of earth material or any combination thereof conducted at a site to prepare said site for construction or other improvements thereon.

(Ord. 11778 § 2 (Art. 3 § 302(1)), 1978: Ord. 11773 (Art. 3 § 302(1)), 1978.)

12.08.170 - Health care institution.

"Health care institution" means any hospital, convalescent home, or other similar facilities which provide health care, medical treatment, room, board or other services for the ill, retarded or convalescent.

(Ord. 11778 § 2 (Art. 3 § 302(m)), 1978: Ord. 11773 (Art. 3 § 302(m)), 1978.)

12.08.180 - Health officer.

"Health officer" means the director of the department of public health of the county of Los Angeles, or his duly authorized representative.

(Ord. 2006-0040 § 106, 2006: Ord. 11778 § 2 (Art. 3 § 302(n)), 1978: Ord. 11773 (Art. 3 § 302(n)), 1978.)

12.08.190 - Impulsive noise.

"Impulsive noise" means a sound of short duration, usually less than one second and of high intensity, with an abrupt onset and rapid decay.

(Ord. 11778 § 2 (Art. 3 § 302(o)), 1978: Ord. 11773 (Art. 3 § 302 (o)), 1978.)

12.08.200 - Industrial property.

"Industrial property" means property which is developed and used either in part or in whole for manufacturing purposes. In cases of multiple land uses of any property, the county zoning classification of such property pursuant to county Ordinance 1494, as amended, shall be applicable. (See <u>Title 22</u> of this code.)

(Ord. 11778 § 2 (Art. 3 § 302(p)), 1978: Ord. 11773 § 2 (Art. 3 § 302(p)), 1978.)

12.08.210 - Intrusive noise.

"Intrusive noise" means that alleged offensive noise which intrudes over and above the existing ambient noise at the receptor property.

(Ord. 11778 § 2 (Art. 3 § 302(q)), 1978: Ord. 11773 § 2 (Art. 3 § 302(q)), 1978.)

12.08.220 - Mobile noise source.

"Mobile noise source" means any noise source other than a fixed noise source.

(Ord. 11778 § 2 (Art. 3 § 302(r)), 1978: Ord. 11773 § 2 (Art. 3 § 302(r)), 1978.)

12.08.230 - Noise disturbance.

"Noise disturbance" means an alleged intrusive noise which violates an applicable noise standard as set forth in this chapter.

(Ord. 11778 § 2 (Art. 3 § 302(s)), 1978: Ord. 11773 § 2 (Art. 3 § 302(s)), 1978.)

12.08.240 - Noise histogram.

"Noise histogram" means a graphical representation of the distribution of frequency of occurrence of all noise levels near and far measured over a given period of time.

(Ord. 11778 § 2 (Art. 3 § 302(u)), 1978: Ord. 11773 § 2 (Art. 3 § 302(u)), 1978.)

12.08.250 - Noise level (L).

"Noise level (L $_{\rm N}$)" means that noise level expressed in decibels which exceeds the specified (L $_{\rm N}$) value as a percentage of total time measured. For instance, an L $_{25}$ noise level means that noise level which is exceeded 25 percent of the time measured.

(Ord. 11778 § 2 (Art. 3 § 302 (v)), 1978: Ord. 11773 § 2 (Art. 3 § 302(v)), 1978.)

12.08.260 - Noise-sensitive zone.

"Noise-sensitive zone" means any area designated pursuant to Part 4 of this chapter for the purpose of ensuring exceptional quiet.

(Ord. 11778 § 2 (Art. 3 § 302(t)), 1978: Ord. 11773 § 2 (Art. 3 § 302(t)), 1978.)

12.08.270 - Noise zone.

"Noise zone" means any defined area or region of a generally consistent land use, as described in Section 12.08.380.

(Ord. 11778 § 2 (Art. 3 § 302(w)), 1978: Ord. 11773 § 2 (Art. 3 § 302(w)), 1978.)

12.08.280 - Person.

"Person" means any individual, firm, association, partnership, joint venture, or corporation.

(Ord. 11778 § 2 (Art. 3 § 302(x)), 1978: Ord. 11773 § 2 (Art. 3 § 302(x)), 1978.)

12.08.290 - Powered model vehicle.

"Powered model vehicle" means any self-propelled airborne, waterborne or landborne plane, vessel or vehicle which is not designed to carry individuals, including but not limited to any model airplane, boat, car or rocket.

(Ord. 11778 § 2 (Art. 3 § 302(y)), 1978: Ord. 11773 § 2(Art. 3 § 302(y)), 1978.)

12.08.300 - Public right-of-way.

"Public right-of-way" means any street, avenue, boulevard, highway, sidewalk or alley, or similar place, which is owned or controlled by a governmental entity.

(Ord. 11778 § 2 (Art. 3 § 302(z)), 1978: Ord. 11773 § 2 (Art. 3 § 302(z)), 1978.)

12.08.310 - Pure tone noise.

"Pure tone noise" means any sound which can be judged as audible as a single pitch or a set of single pitches by the health officer, for the purposes of this chapter, a pure tone shall exist if the one-third octave band sound-pressure level in the band with the tone exceeds the arithmetic average of the sound-pressure levels of the two contiguous one-third octave bands by 5 dB for center frequencies of 500 Hertz and above, and by 8 dB for center frequencies between 160 and 400 Hertz, and by 15 dB for center frequencies less than or equal to 125 Hertz.

(Ord. 11778 § 2 (Art. 3 § 302(aa)), 1978: Ord. 11773 § 2 (Art. 3 § 302(aa)), 1978.)

12.08.320 - Real property boundary.

"Real property boundary" means an imaginary line along the ground surface, and its vertical extension, which separates the real property owned by one person from that owned by another person, but not including intra-building real property divisions.

(Ord. 11778 § 2 (Art. 3 § 302(bb)), 1978: Ord. 11773 § 2 (Art. 3 § 302(bb)), 1978.)

12.08.330 - Residential property.

"Residential property" means a parcel of real property which is developed and used either in part or in whole for residential purposes, other than transient uses such as hotels and motels. In cases of multiple land uses of any property, the county zoning classification of such property pursuant to county Ordinance 1494, as amended, shall be applicable.

(Ord. 11778 § 2 (Art. 3 § 302(cc)), 1978: Ord. 11773 § 2 (Art. 3 § 302(cc)), 1978.)

12.08.340 - Sound level meter.

"Sound level meter" means an instrument, including a microphone, an amplifier, an output meter and frequency weighting network, for the measurement of sound levels, which satisfies the requirements pertinent for Type S2A meters in American National Standards Institute specifications for sound level meters, S1.4-1971, or the most recent revision thereof.

(Ord. 11778 § 2 (Art. 3 § 302(dd)), 1978: Ord. 11773 § 2 (Art. 3 § 302(dd)), 1978.)

12.08.350 - Vibration.

"Vibration" means the minimum ground or structure-borne vibrational motion necessary to cause a normal person to be aware of the vibration by such direct means as, but not limited to, sensation by touch or visual observations of moving objects. The perception threshold shall be presumed to be a motion velocity of 0.01 in/sec over the range of 1 to 100 Hertz.

(Ord. 11778 § 2 (Art. 3. § 302(ee)), 1978: Ord. 11773 § 2 (Art. 3 § 302(ee)), 1978.)

12.08.360 - Weekday.

"Weekday" means any day, Monday through Friday, which is not a legal holiday.

(Ord. 11778 § 2 (Art. 3 § 302(ff)), 1978: Ord. 11773 § 2 (Art. 3 § 302(ff), 1978.)

Part 3 - COMMUNITY NOISE CRITERIA

12.08.370 - Decibel measurement—Basis.

Any decibel measurement made pursuant to the provisions of this chapter shall be based on a reference sound-pressure of 20 micropascals, as measured with a sound level meter using the A-weighted network (scale) at slow response, or at the fast response when measuring impulsive sound levels and vibrations.

(Ord. 11778 § 2 (Art. 4 § 401), 1978: Ord. 11773 § 2 (Art. 4 § 401), 1978.)

12.08.380 - Noise zones designated.

Receptor properties described hereinafter in this chapter are hereby assigned to the following noise zones:

Noise Zone I—Noise-sensitive area; Noise Zone II—Residential properties; Noise Zone III—Commercial properties; Noise Zone IV—Industrial properties.

(Ord. 11778 § 2 (Art. 4 § 402), 1978: Ord. 11773 § 2 (Art. 4 § 402), 1978.)

12.08.390 - Exterior noise standards—Citations for violations authorized when.

A. Unless otherwise herein provided, the following exterior noise levels shall apply to all receptor properties within a designated noise zone:

Noise Zone	Designated Noise Zone Land Use (Receptor property)	Time Interval	Exterior Noise Level (dB)
I	Noise- sensitive area	Anytime	45
II	Residential properties	10:00 pm to 7:00 am (nighttime)	45
		7:00 am to 10:00 pm (daytime)	50
III	Commercial properties	10:00 pm to 7:00 am (nighttime)	55
		7:00 am to 10:00 pm (daytime)	60
IV	Industrial properties	Anytime	70

B. Unless otherwise herein provided, no person shall operate or cause to be operated, any source of sound at any location within the unincorporated county, or allow the creation of any noise on property owned, leased, occupied or otherwise controlled by such person which causes the noise level, when measured on any other property either incorporated or unincorporated, to exceed any of the following exterior noise standards:

Standard No. 1 shall be the exterior noise level which may not be exceeded for a cumulative period of more than 30 minutes in any hour. Standard No. 1 shall be the applicable noise level from subsection A of this section; or, if the ambient L50 exceeds the foregoing level, then the ambient L50 becomes the exterior noise level for Standard No. 1.

Standard No. 2 shall be the exterior noise level which may not be exceeded for a cumulative period of more than 15 minutes in any hour. Standard No. 2 shall be the applicable noise level from subsection A of this section plus 5dB; or, if the ambient L25 exceeds the foregoing level, then the ambient L25 becomes the exterior noise level for Standard No. 2.

Standard No. 3 shall be the exterior noise level which may not be exceeded for a cumulative period of more than five minutes in any hour. Standard No. 3 shall be the applicable noise level from subsection A of this section plus 20dB; or, if the ambient L8.3 exceeds the foregoing level, then the ambient L8.3 becomes exterior noise level for Standard No. 3.

Standard No. 4 shall be the exterior noise level which may not be exceeded for a cumulative period of more than one minute in any hour. Standard No. 4 shall be the applicable noise level from subsection A of this section plus 15dB; or, if the ambient L1.7 exceeds the foregoing level, then the ambient L1.7 becomes the exterior noise level for Standard No. 4.

Standard No. 5 shall be the exterior noise level which may not be exceeded for any period of time. Standard No. 5 shall be the applicable noise level from subsection A of this section plus 20dB; or, if the ambient L0 exceeds the foregoing level then the ambient L0 becomes the exterior noise level for Standard No. 5.

- C. If the measurement location is on a boundary property between two different zones, the exterior noise level utilized in subsection B of this section to determine the exterior standard shall be the arithmetic mean of the exterior noise levels in subsection A of the subject zones. Except as provided for above in this subsection C, when an intruding noise source originates on an industrial property and is impacting another noise zone, the applicable exterior noise level as designated in subsection A shall be the daytime exterior noise level for the subject receptor property.
- D. The ambient noise histogram shall be measured at the same location along the property line utilized in subsection B of this section, with the alleged intruding noise source inoperative. If for any reason the alleged intruding noise source cannot be turned off, the ambient noise histogram will be estimated by performing a measurement in the same general area of the alleged intruding noise source but at a sufficient distance such that the noise from the alleged intruding noise source is at least 10dB below the ambient noise histogram in order that only the actual ambient noise histogram be measured. If the difference between the ambient noise histogram and the alleged intruding noise source is 5 to 10dB, then the level of the ambient noise histogram itself can be reasonably determined by subtracting a one-decibel correction to account for the contribution of the alleged intruding noise source.
- E. In the event the intrusive exceeds the exterior noise standards as set forth in subsections B and C of this section at a specific receptor property and the health officer has reason to believe that this violation at said specific receptor property was unanticipated and due to abnormal atmospheric conditions, the health officer shall issue an abatement notice in lieu of a citation. If the specific violation is abated, no citation shall be issued therefor. If, however, the specific violation is not abated, the health officer may issue a citation.

(Ord. 11778 § 2 (Art. 4 § 403), 1978: Ord. 11773 § 2 (Art. 4 § 403), 1978.)

12.08.400 - Interior noise standards.

A. No person shall operate or cause to be operated within a dwelling unit, any source of sound, or allow the creation of any noise, which causes the noise level when measured inside a neighboring receiving dwelling unit to exceed the following standards:

Standard No. 1 The applicable interior noise level for cumulative period of more than five minutes in any hour; or

Standard No. 2 The applicable interior noise level plus 5dB for a cumulative period of more than one minute in any hour; or

Standard No. 3 The applicable interior noise level plus 10dB or the maximum measured ambient noise level for any period of time.

B. The following interior noise levels for multifamily residential dwellings shall apply, unless otherwise specifically in within all such dwellings with windows in their normal seasonal configuration.

Noise Zone	Designated Land Use	Time Interval	Allowable Interior Noise Level (dB)
All	Multifamily	10 pm—7 am	40
	Residential	7 am—10 pm	45

C. If the measured ambient noise level reflected by the L50 exceeds that permissible within any of the interior noise standards in subsection A of <u>Section 12.08.390</u>, the allowable interior noise level shall be increased in 5dB increments in each standard as appropriate to reflect said ambient noise level (L50).

(Ord. 11778 § 2(Art. 4 § 404), 1978: Ord. 11773 § 2 (Art. 4 § 404), 1978.)

12.08.410 - Correction for certain types of sounds.

For any source of sound which emits a pure tone or impulsive noise, the noise levels as set forth in Sections 12.08.390 and 12.08.400 shall be reduced by five decibels.

(Ord. 11778 § 2 (Art. 4 § 405), 1978: Ord. 11773 § 2 (Art. 4 § 405), 1978.)

12.08.420 - Measurement methods.

- A. Utilizing the A-weighting scale of the sound-level meter and the "slow" meter response (use "fast" response for impulsive type sounds), the noise level shall be measured at a position or positions at any point on the receiver's property.
- B. In general, the microphone shall be located four to five feet above the ground; 10 feet or more from the nearest reflective surface, where possible. However, in those cases where another elevation is deemed appropriate, the latter shall be utilized.
- C. Interior noise measurements shall be made within the affected residential unit. The measurements shall be made at a point at least four feet from the wall, ceiling or floor nearest the noise source, with windows in the normal seasonal configuration. Calibration of the measurement equipment, utilizing an acoustic calibrator, shall be performed immediately prior to recording any noise data.

(Ord. 11778 § 2 (Art. 4 § 406), 1978: Ord. 11773 § 2 (Art. 4 § 406), 1978.)

Part 4 - SPECIFIC NOISE RESTRICTIONS

12.08.430 - Acts deemed violations when.

Notwithstanding any other provisions of this chapter, the acts set out in this Part 4, and the causing or permitting thereof, are declared to be in violation of this chapter.

(Ord. 11778 § 2 (Art. 5 § 501 (part)), 1978: Ord. 11773 § 2 (Art. 5 § 501 (part)), 1978.)

12.08.440 - Construction noise.

- A. Operating or causing the operation of any tools or equipment used in construction, drilling, repair, alteration or demolition work between weekday hours of 7:00 p.m. and 7:00 a.m., or at any time on Sundays or holidays, such that the sound therefrom creates a noise disturbance across a residential or commercial real-property line, except for emergency work of public service utilities or by variance issued by the health officer is prohibited.
- B. Noise Restrictions at Affected Structures. The contractor shall conduct construction activities in such a manner that the maximum noise levels at the affected buildings will not exceed those listed in the following schedule:
 - 1. At Residential Structures.
 - a. Mobile Equipment. Maximum noise levels for nonscheduled, intermittent, short-term operation (less than 10 days) of mobile equipment:

	Single-family Residential	Multi-family Residential	Semiresidential/ Commercial
Daily,	75dBA	80dBA	85dBA
except			
Sundays			
and			
legal			
holidays,			
7:00			
a.m. to			
8:00			
p.m.			
Daily,	60dBA	64dBA	70dBA
8:00			
p.m. to			
7:00			
a.m. and			
all day			
Sunday			
and			
legal			
holidays			

b. Stationary Equipment. Maximum noise level for repetitively scheduled and relatively long-term operation (periods of 10 days or more) of stationary equipment:

	Single-family Residential	Multi-family Residential	Semiresidential/ Commercial
Daily,	60dBA	65dBA	70dBA
except			
Sundays			
and			
legal			
holidays,			
7:00			
a.m. to			
8:00			
p.m.			
Daily,	50dBA	55dBA	60dBA
8:00			
p.m. to			
7:00			
a.m. and			
all day			
Sunday			
and			
legal			
holidays			
	1	1	1

2. At Business Structures.

a. Mobile equipment. Maximum noise levels for nonscheduled, intermittent, short-term operation of mobile equipment:

Daily, including Sunday and legal holidays, all hours: maximum of 85dBA.

- C. All mobile or stationary internal-combustion-engine powered equipment or machinery shall be equipped with suitable exhaust and air-intake silencers in proper working order.
- D. In case of a conflict between this chapter and any other ordinance regulating construction activities, provisions of any specific ordinance regulating construction activities shall control.

(Ord. 11778 § 2 (Art. 5 § 501(c)), 1978: Ord. 11778 § 2 (Art. 5 § 501(c)), 1978.)

12.08.450 - Forced-air blowers in tunnel car washes.

Operating or permitting the operation of any forced-air blower in a tunnel car wash between the hours of 7:00 a.m. and 8:00 p.m. in such a manner as to exceed any of the following sound levels is prohibited:

	Units Installed		
Measurement Location	Before 1-1-80 dB	On or After 1-1-80 dB	
Any point on contiguous receptor property, five feet above grade level, no closer than three feet from any wall			
Residential	70	60	
Commercial/Industrial	75	65	

(Ord. 11778 § 2 (Art. 5 § 501(m)), 1978: Ord. 11773 § 2 (Art. 5 § 501(m)), 1978.)

12.08.460 - Loading and unloading operations.

Loading, unloading, opening, closing or other handling of boxes, crates, containers, building materials, garbage cans or similar objects between the hours of 10:00 p.m. and 6:00 a.m. in such a manner as to cause noise disturbance is prohibited.

(Ord. 11778 § 2 (Art. 5 § 501(b)), 1978: Ord. 11773 § 2 (Art. 5 § 501(b)), 1978.)

12.08.470 - Noise disturbances in noise-sensitive zones.

- A. Creating or causing the creation of any noise disturbance within any noise-sensitive zone, as designated by the health officer, is prohibited, provided that conspicuous signs are displayed indicating the presence of the zone.
- B. Noise-sensitive zones must be indicated by the display of conspicuous signs in at least three separate locations within 164 meters (one-tenth mile) of the institution or facility.

(Ord. 11778 § 2 (Art. 5 § 501(k)), 1978: Ord. 11773 § 2(Art. 5 § 501(k)), 1978.)

12.08.480 - Places of public entertainment.

Operating, playing or permitting the operation or playing of any radio, television, phonograph, drum, musical instrument, sound amplifier or similar device which produces, reproduces or amplifies sound in any place of public entertainment at a sound level greater than 95dBA, as read by the slow response on a soundlevel meter at any point that is normally occupied by a customer is prohibited, unless a conspicuous and legible sign is located outside such place, near each public entrance, stating "WARNING: SOUND LEVELS WITHIN MAY CAUSE HEARING IMPAIRMENT."

(Ord. 11778 § 2 (Art. 5 § 501(f)), 1978: Ord. 11773 § 2 (Art. 5 § 501(f)), 1978.)

12.08.490 - Powered model vehicles.

Operating or permitting the operation of powered model vehicles so as to create a noise disturbance across a residential real-property boundary, or within a noise-sensitive zone between the hours of 8:00 p.m. and 7:00 a.m. the following day is prohibited.

(Ord. 11778 § 2 (Art. 5 § 501(g)), 1978: Ord. 11773 § 2 (Art. 5 § 501(g)) 1978.)

12.08.500 - Emergency signaling devices.

- A. The intentional sounding or permitting the sounding outdoors of any emergency signaling device, including fire, burglar or civil-defense alarm, siren, whistle, or similar stationary emergency signaling device, except for emergency purposes or for testing, as provided in subsection B2 below, is prohibited.
- B. 1. Testing of a stationary emergency signaling device shall not occur before 7:00 a.m. or after 7:00 p.m. Any such testing shall use only the minimum cycle test time. In no case shall such test time exceed 60 seconds.
 - 2. Testing of the complete emergency signaling system, including the functioning of the signaling device, and the personnel response to the signaling device, shall not occur more than once in each calendar month. Such testing shall not occur before 7:00 a.m. or after 10:00 p.m. The time limit specified in subsection B1 above shall not apply to such complete-system testing.
- C. Sounding or permitting the sounding of any exterior burglar or fire alarm, or any motor-vehicle burglar alarm is prohibited, unless such alarm is terminated within 15 minutes of activation.

(Ord. 11778 § 2 (Art. 5 § 501(i)), 1978: Ord. 11773 § 2 (Art. 5 § 501(i)), 1978.)

12.08.510 - Stationary nonemergency signaling devices.

- A. Sounding or permitting the sounding of any electronically amplified signal from any stationary bell, chime, siren, whistle, or similar device intended primarily for nonemergency purposes, from any place, for more than 10 consecutive seconds in any hourly period is prohibited.
- B. Houses of religious worship shall be exempt for the operation of this provision.
- C. Sound sources covered by this provision and not exempted under subsection B may be exempted by a variance issued by the health officer.

(Ord. 11778 § 2 (Art. 5 § 501(h)), 1978: Ord. 11773 § 2(Art. 5 § 501(h)), 1978.)

12.08.520 - Refuse collection vehicles.

- A. On or after three years following August 17, 1978, the effective date of the ordinance codified in this chapter, operating or permitting the operation of the compacting mechanism of any motor vehicle which compacts refuse and which creates, during the compacting cycle, a sound level in excess of 86dBA when measured at 50 feet from any point of the vehicle is prohibited.
- B. Operating or permitting the operation of the compacting mechanism of any motor vehicle which compacts refuse between the hours of 10:00 p.m. and 6:00 a.m. the following day in a residential area or noise-sensitive zone, or within 500 feet thereof is prohibited.
- C. Collecting refuse with collection vehicle between the hours of 10:00 p.m. and 6:00 a.m. the following day in a residential area or noise-sensitive zone or within 500 feet thereof.
- D. In the case of conflict between this chapter and any other ordinance regulating refuse collection, provisions of

any specific ordinance regulating refuse collection shall control.

(Ord. 11778 § 2 (Art. 5 § 501(j)), 1978: Ord. 11773 § 2 (Art. 5 § 501(j)), 1978.)

12.08.530 - Residential airconditioning or refrigeration equipment.

Operating or permitting the operation of any airconditioning or refrigeration equipment in such a manner as to exceed any of the following sound levels is prohibited.

Measurement Location	Units Installed Before 1-1-80 dBA	Units Installed On or After 1-1-80 dBA
Any point on neighboring property line, 5 feet above grade level, no closer than 3 feet from any wall.	60	55
Center of neighboring patio, 5 feet above grade level, no closer than 3 feet from any wall.	55	50

Outside the	55	50
neighboring		
living area		
window		
nearest the		
equipment		
location, not		
more than 3		
feet from the		
window		
opening, but		
at least 3 feet		
from any		
other surface.		

(Ord. 11778 § 2 (Art. 5 § 501(1)), 1978: Ord. 11773 § 2 (Art. 5 § 501(1)), 1978.)

12.08.540 - Street sales.

Offering for sale, selling anything, or advertising by shouting or outcry within any residential or commercial area or noise-sensitive zone of the unincorporated areas of the county is prohibited except by variance issued by the health officer. The provisions of this section shall not be construed to prohibit the selling by outcry of merchandise, food and beverages at licensed sporting events, parades, fairs, circuses, or other similar licensed public-entertainment events.

(Ord. 11778 § 2 (Art 5 § 501(a)), 1978: Ord. 11773 § 2 (Art. 5 § 501(a)), 1978.)

12.08.541 - Street sales—Restrictions on sound system speakers.

A person offering for sale, selling or advertising anything edible shall not emit music or other sounds from an external speaker affixed to a motor vehicle between the hours of 8:00 p.m. and 6:00 a.m. within any residential, commercial or noise sensitive-zone of the unincorporated area of the County. The provisions of this section shall not be construed to prohibit the selling by outcry of merchandise, food and beverages, at licensed sporting events, parades, fairs, circuses, or other similar licensed-entertainment events.

(Ord. 2002-0028 § 2, 2002)

12.08.550 - Vehicle or motorboat repairs and testing.

Repairing, rebuilding, modifying or testing any motor vehicle, motorcycle or motorboat in such a manner as to cause a noise disturbance across a real-property boundary or within a noisesensitive zone is prohibited.

(Ord. 11778 § 2 (Art. 5 § 501(e)), 1978: Ord. 11773 § 2 (Art. 5 § 501(e)), 1978.)

12.08.560 - Vibration.

Operating or permitting the operation of any device that creates vibration which is above the vibration perception threshold of any individual at or beyond the property boundary of the source if on private property, or at 150 feet (46 meters) from the source if on a public space or public right-of-way is prohibited. The perception threshold shall be a motion velocity of 0.01 in/sec over the range of 1 to 100 Hertz.

(Ord. 11778 § 2 (Art. 5 § 501(d)), 1978: Ord. 11773 § 2 (Art. 5 § 501(d)), 1978.)

Part 5 - EXEMPTIONS

12.08.570 - Activities exempt from chapter restrictions.

The following activities set out in this chapter shall be exempted from the provisions of this chapter:

- A. Emergency Exemption. The emission of sound for the purpose of alerting persons to the existence of an emergency, or the emission of sound in the performance of emergency work;
- B. Warning Devices. Warning devices necessary for the protection of public safety, as for example police, fire and ambulance sirens, and train horns;
- C. Outdoor Activities. Activities conducted on public playgrounds and public or private school grounds, including but not limited to school athletic and school entertainment events;
- D. Exemption from Exterior Noise Standards. The following activities are exclusively regulated by the prohibitions of Part 4 of this chapter:
 - 1. Construction.
 - 2. Stationary nonemergency signaling devices,
 - 3. Emergency signaling devices,
 - 4. Refuse collection vehicles,
 - 5. Residential air-conditioning or refrigeration equipment,
 - 6. Forced-air blowers;
- E. Motion Picture Production and Related Activities;
- F. Railroad Activities. All locomotives and rail cars operated by any railroad which is regulated by the California Public Utilities Commission;
- G. Federal or State Preexempted Activities. Any activity, to the extent regulation thereof has been preempted by state or federal law:
- H. Public Health and Safety Activities. All transportation, flood control, and utility company maintenance and construction operations at any time on public right-of-way, and those situations which may occur on private real property deemed necessary to serve the best interest of the public and to protect the public's health and well being, including but not limited to street sweeping, debris and limb removal, removal of downed wires, restoring electrical service, repairing traffic signals, unplugging sewers, snow removal, house moving, vacuuming catchbasins, removal of damaged poles and vehicles, repair of water hydrants and mains, gas lines, oil lines, sewers, etc.;
- I. Motor Vehicles on Private Right-of-way and Private Property. Except as provided in <u>Section 12.08.550</u>, all legal vehicles of transportation operating in a legal manner in accordance with local, state and federal vehicle-noise regulations within the public right-of-way or air space, or on private property;

- J. Seismic Surveys Authorized by the State Land Commission;
- K. Agricultural Operations. All mechanical devices, apparatus or equivalent associated with agricultural operations conducted on agricultural property, unless if in the vicinity of residential land uses, in which case a variance permit is required to operate noise-producing devices, with the following stipulations:
 - 1. Operations do not take place between 8:00 p.m. and 6:00 a.m., or
 - 2. Such operations and equipment are utilized for the protection or salvage of agricultural crops during periods of potential or actual frost damage or other adverse weather conditions, or
 - 3. Such operations and equipment are associated with agricultural pest-control through pesticide application, provided the application is made in accordance with permits issued by or regulations enforced by the county agricultural commissioner,
 - 4. Such devices utilized for pest control which incorporate stationary or mobile noise sources (electro-mechanical birdscare devices, etc.) are operated only by permit issued by the health officer. The allowable hours and days for operation of these devices will be specified in the permit,
 - 5. All equipment and machinery powered by internal combustion engines shall be equipped with a proper muffler and air-intake silencer in good working order;
- L. Minor Maintenance to Residential Real Property. Noise sources associated with the minor maintenance of residential real property, provided said activities take place as follows:
 - 1. During Pacific Standard Time between the hours of 8:00 a.m. and 6:00 p.m. on any day except Sunday, when such activities may take place between the hours of 9:00 a.m. and 6:00 p.m., and
 - 2. During Daylight Savings Time between the hours of 8:00 a.m. and 7:00 p.m. on any day except Sunday, when such activities may take place between the hours of 9:00 a.m. and 6:00 p.m.;
- M. Operation of Oil and Gas Wells.
 - 1. Normal well servicing, remedial or maintenance work performed within an existing well which does not involve drilling or redrilling and which is restricted to the hours between 7:00 a.m. and 10:00 p.m., and
 - 2. Drilling or redrilling work which is done in full compliance with the conditions of permits issued under Chapter 5, Article 1, of the County Zoning Ordinance, as amended, as set out in <u>Title 22</u> of this code.

(Ord. 97-0007 § 1, 1997: Ord. 11778 § 2(Art. 6 § 601), 1978: Ord. 11773 § 2 (Art. 6 § 601), 1978.)

Part 6 - VARIANCES

12.08.580 - Conditions for granting variances—Health officer authority.

- A. Variances from the requirements of this chapter may be granted by the health officer for a period of not to exceed two years, subject to such terms, conditions and requirements as he may deem reasonable. A variance may be granted only if the health officer makes the findings that:
 - 1. Additional time is necessary for the applicant to alter or modify his activity, operation or noise source to comply with this chapter; or
 - 2. The activity, operation or noise source cannot feasibly be done in a manner that would comply with the provisions of this chapter, and no other reasonable alternative is available to the applicant.
- B. In granting a variance, the health officer may prescribe any conditions or requirements he deems necessary to minimize adverse effects upon the community or the surrounding neighborhood.

C. In granting variances, the health officer shall consider the magnitude of nuisance caused by the offensive noise, t property within the area of impingement by the noise, operations carried on under existing nonconforming right conditional use permits or zone variances, the time factors related to study, design, financing and construction of work, the economic factors related to age and useful life of the equipment, the general public interest, health and the feasibility of plans submitted for correction, and the effect on the community if the variance was refused.

(Ord. 11778 § 2 (Art. 7 § 701), 1978: Ord. 11773 § 2 (Art. 7 § 701), 1978.)

12.08.590 - Application—Contents.

Every applicant for a variance shall file with the health officer a written application on a form prescribed by the health officer. The application shall state the name and address of the applicant, the nature of the noise source involved, and such other information as the health officer may require.

(Ord. 11778 § 2 (Art. 7 § 702), 1978: Ord. 11773 § 2 (Art. 7 § 702), 1978.)

12.08.600 - Application—Fee.

Every applicant shall pay a fee of \$25.00 for each application for variance.

(Ord. 11778 § 2 (Art. 7 § 703), 1978: Ord. 11773 § 2 (Art. 7 § 703), 1978.)

12.08.610 - Application—Action by health officer.

- A. The health officer shall act, within 30 days, if possible, on an application for a variance, and shall notify the applicant of the action taken, namely, approval, conditional approval, or denial. Before acting on an application for a variance, the health officer may require the applicant to furnish further information. Failure of the applicant to provide such further information may be grounds for denial of the variance.
- B. In the event of denial of an application for a variance, the health officer shall notify the applicant in writing of the reasons therefor. The health officer shall not accept a further application unless the applicant has complied with the objections specified by the health officer as his reasons for denial.

(Ord. 11778 § 2 (Art. 7 § 704), 1978: Ord. 11773 § 2 (Art. 7 § 704), 1978.)

12.08.620 - Application—Denial conditions.

The applicant may at his option deem the variance denied if the health officer fails to act on the application within 30 days after filing or within 10 days after applicant furnishes the further information requested by the health officer, whichever is later.

(Ord. 11778 § 2 (Art. 7 § 705), 1978: Ord. 11773 § 2 (Art. 7 § 705), 1978.)

12.08.630 - Public hearing—For reconsideration of health officer decision.

Within 10 days after notice by the health officer of the decision on application for variance, any interested party may petition the health officer in writing for a public hearing to reconsider the decision. The health officer shall thereupon appoint a hearing officer to conduct said hearing.

(Ord. 11778 § 2 (Art. 7 § 706), 1978: Ord. 11773 § 2 (Art. 7 § 706), 1978.)

12.08.640 - Public hearing—Decision and findings—Appeals.

- A. Based upon the evidence presented at the public hearing, the hearing officer may affirm, modify or reverse the previous determination subject to such terms, conditions and requirements as he may deem necessary. The hearing officer shall be guided by the same considerations as set forth in <u>Section 12.08.580</u>.
- B. A decision by the hearing officer to grant a variance may be made only if the hearing officer makes the findings that:
 - 1. Additional time is necessary for the applicant to alter or modify his activity, operation or noise source to comply with this chapter; or
 - 2. The activity, operation or noise source cannot feasibly be done in a manner that would comply with the provisions of this chapter, and no other reasonable alternative is available to the applicant.
- C. The decision of the hearing officer shall be by written order, and shall be final. Appeals from an adverse decision shall be made to a court of competent jurisdiction.

(Ord. 11778 § 2 (Art. 7 § 707), 1978: Ord. 11773 § 2 (Art. 7 § 707), 1978.)

Part 7 - VIOLATIONS AND ENFORCEMENT

12.08.650 - Enforcement—Health officer powers and duties.

The health officer shall have primary responsibility for the enforcement of the noise regulations contained in this chapter. The health officer shall make all noise-level measurements required for the enforcement of this chapter. Nothing in this chapter shall prevent the health officer from efforts to obtain voluntary compliance by way of warning, notice, or educational means.

(Ord. 11778 § 2 (Art. 8 § 801), 1978: Ord. 11773 § 2 (Art. 8 § 801), 1978.)

12.08.660 - Initial violations.

In the event of an initial violation of the provisions of this chapter a written notice of violation shall be given the alleged violator, specifying the time by which the condition shall be corrected or an application for permit or variance shall be received by the health officer. The health officer shall take no further action in the event the cause of the violation has been removed, the condition abated or fully corrected within the time period specified in the written notice.

(Ord. 11778 § 2 (Art. 8 § 802), 1978: Ord. 11773 § 2 (Art. 8 § 802), 1978.)

12.08.670 - Violation—Penalty.

Any person violating any of the provisions of this chapter shall be deemed guilty of a misdemeanor and, upon conviction thereof, shall be punished by a fine of not more than \$500.00 or be imprisoned in the County Jail for a period not exceeding six months or by both such fine and imprisonment. Each day such violation is committed or permitted to continue shall constitute a separate offense and shall be punishable as such.

(Ord. 11778 § 2 (Art. 8 § 803), 1978: Ord. 11773 § 2 (Art. 8 § 803, 1978.)

12.08.680 - Severability.

If any provision, clause, sentence or paragraph of this chapter or the application thereof to any person or circumstances shall be held invalid, such invalidity shall not affect the other provisions or application of the provisions of this chapter which can be given effect without the invalid provisions or application and, to this end, the provisions of this chapter are hereby declared to be severable.

(Ord. 11778 § 2 (Art. 8 § 804), 1978: Ord. 11773 § 2 (Art. 8 § 804), 1978.)

Chapter 12.12 - BUILDING CONSTRUCTION NOISE

12.12.010 - Definitions.

- A. "Board" means the board of supervisors of the county of Los Angeles.
- B. "Person" means an individual, partnership, firm or corporation.
- C. "Section" means a section of the ordinance codified in this chapter.

(Ord. 8594 §§ 1, 2 and 3, 1964.)

12.12.020 - References to provisions.

Whenever any reference is made to the ordinance codified in this chapter or any other ordinance, or to any statute, such reference shall apply to all amendments and additions thereto now or hereafter made.

(Ord. 8594 § 4, 1964.)

12.12.030 - Construction noise prohibited when.

Except as otherwise provided in this chapter, a person, on any Sunday, or at any other time between the hours of 8:00 p.m. and 6:30 a.m. the following day, shall not perform any construction or repair work of any kind upon any building or structure, or perform any earth excavating, filling or moving, where any of the foregoing entails the use of any air compressors; jackhammers; power-driven drill; riveting machine; excavator, diesel-powered truck, tractor or other earth moving equipment; hand hammers on steel or iron, or any other machine, tool, device or equipment which makes loud noises to the disturbance of persons occupying sleeping quarters in a dwelling, apartment, hotel, mobilehome, or other place of residence.

(Ord. 9818 § 1, 1969: Ord. 8594 § 6, 1964.)

12.12.040 - Exemptions—Certain zoned areas.

The provisions of this chapter do not apply in any territory which is in a zone in which the Zoning Ordinance, codified in <u>Title 22</u> of this code, prohibits any residential use and which is not less than 500 feet from any territory in any residential zone as defined in Section 201 of Ordinance 1494, or any territory in a residential zone in any city.

(Ord. 8594 § 11, 1964.)

12.12.050 - Exemptions—Work performed with county engineer's permission.

The provisions of <u>Section 12.12.030</u> do not apply to any person who performs the construction, repair, excavation or earthmoving work involved pursuant to the express written permission of the county engineer to perform such work at times prohibited in <u>Section 12.12.030</u>. Upon receipt of an application in writing therefor, stating the reasons for the request and the

facts upon which such reasons are based, the county engineer may grant such permission if he finds that:

- A. The work proposed to be done is effected with a public interest; or
- B. Hardship or injustice, or unreasonable delay, would result from the interruption thereof during the hours and days specified in <u>Section 12.12.030</u>; or
- C. The building or structure involved is devoted or intended to be devoted to a use immediately incident to public defense.

(Ord. 9818 § 2, 1969: Ord. 8594 § 7, 1964.)

12.12.060 - Exemptions—Work by public utilities—Conditions.

The provisions of <u>Section 12.12.030</u> do not apply to the construction, repair or excavation by a public utility which is subject to the jurisdiction of the Public Utilities Commission as may be necessary for the preservation of life or property, and where such necessity makes it necessary to construct, repair or excavate during the prohibited hours.

(Ord. 8594 § 10, 1964.)

12.12.070 - Exemptions—Emergency work—Permit requirements.

The provisions of <u>Section 12.12.030</u> do not apply to such construction, repair or excavation during prohibited hours as may be necessary for the preservation of life or property when such necessity arises during such hours as the offices of the county are closed or where such necessity requires immediate action prior to the time at which it would be possible to obtain a permit pursuant to <u>Section 12.12.050</u>, if the person doing such construction, repair or excavation obtains a permit therefor within one day after the offices of the county engineer are first opened subsequent to the making of such construction, repair or excavation.

(Ord. 8594 § 9, 1964.)

12.12.080 - Appeals from county engineer's decision.

Any person dissatisfied with the decision of the county engineer may appeal to the business license commission as provided in Ordinance 5860, on business licenses, set out at <u>Title 7</u> of this code, including the appointment of and reference to a referee, as in the case of a notification by the tax collector that he intends to deny a license.

(Ord. 9849 § 1, 1969: Ord. 8594 § 8, 1964.)

12.12.090 - Violation—Penalty.

Any person violating any provision of this chapter is guilty of a misdemeanor punishable by a fine of not more than \$500.00 or by imprisonment in the County Jail for not more than six months, or by both such fine and imprisonment. Every such person is guilty of a separate offense for every day during any portion of which any violation or any of the provisions of this chapter is committed, continued or permitted by such person, and shall be punished as provided by this chapter.

(Ord. 8594 § 12, 1964.)

12.12.100 - Severability.

If any provision of the ordinance codified in this chapter or the application thereof to any person or circumstance is held invalid, the remainder of the ordinance, and the application of such provision to other persons or circumstances, shall not be affected thereby.

(Ord. 8594 § 5, 1964.)

CONSTRUCTION NOISE MODELING

Report date: 07/08/2019 Case Description: HLPU-1.0

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Demolition (including bleachers) Residential 65.0 60.0 55.0

Equipment

		Spec A	ctual Rec	eptor Est	imated
Impa	act Us	age Lr	nax Lmax	Distance	ce Shielding
Description	Devic	e (%)	(dBA) (d	BA) (fe	et) (dBA)
Concrete Saw	N	o 20	89.6	500.0	0.0
Excavator	No	40	80.7	500.0	0.0
Excavator	No	40	80.7	500.0	0.0
Dozer	No	40	81.7	500.0	0.0
Dozer	No	40	81.7	500.0	0.0
Crane	No	16	80.6	500.0	0.0

Results

	Noise Limits (dBA)							Noise Limit Exceedance (dBA)					
	Calculate	alculated (dBA) Day			Evenin	 ng	Night	Ε	ay	Even	ing	Night	t
Equipment Lmax Leq	Li	max Le	q L1	max I	Leq L	max	Leq I	Lmax L	eq]	Lmax	Leq	Lmax	Leq
Concrete Saw	6	9.6 62.6	5 N/	'A N/	'A N/	'A N	/A N/	'A N/A	N/	'A N	/A N	/A N/	'A N/A
N/A Excavator N/A	60.	7 56.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator N/A	60.	7 56.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer N/A	61.7	57.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer N/A	61.7	57.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane N/A	60.6	52.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tota N/A	1 69.6	66.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 07/08/2019 Case Description: HLPU-1.0

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Site Prep Residential 65.0 60.0 55.0

Equipment

		Spec	Acti	ıal I	Receptor	Estima	ated
Imp	oact U	sage	Lmax	k Ln	nax D	istance	Shielding
Description	Devi	ce (%	(o) (o	BA)	(dBA)	(feet)	(dBA)
Dozer	No	40		81.7	500.	0 0.	.0
Dozer	No	40		81.7	500.	0 0.	.0
Tractor	No	40	84.0		500.	0 0.	.0
Tractor	No	40	84.0		500.	0 0.	.0
Front End Load	er	No	40	7	9.1	500.0	0.0
Backhoe	No	40		77.6	500	0.0	0.0

Results

Noise Limits (dBA) Noise Limit Exceedance (dBA)

	Calculated (dBA	Day Evening		Night	Day	Evening	Night
Equipment Lmax Leq	Lmax L	eq Lmax	Leq Lmax	Leq Lmax	Leq Ln	nax Leq	Lmax Leq
Dozer	61.7 57.7	N/A N/A	A N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A
N/A Dozer N/A	61.7 57.7	N/A N/A	A N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A
Tractor N/A	64.0 60.0	N/A N/A	A N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A
Tractor N/A	64.0 60.0	N/A N/A	A N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A
Front End Loa N/A	der 59.1 5	5.1 N/A	N/A N/A	N/A N/A	N/A N/A	A N/A	N/A N/A
Backhoe N/A	57.6 53.6	N/A N	/A N/A N/A	A N/A N/A	A N/A	N/A N/A	A N/A N/A
Total N/A	64.0 65.7	N/A N/A	N/A N/A	N/A N/A	N/A N	J/A N/A	N/A N/A

Report date: 07/08/2019 Case Description: HLPU-1.0

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Grading Residential 65.0 60.0 55.0

Equipment

Spec Actual Receptor Estimated Impact Usage Lmax Lmax Distance Shielding Device (%) (dBA) (dBA) Description (feet) (dBA) -----Excavator No 40 80.7 500.0 0.0 85.0 0.0 Grader 40 500.0 No Dozer 40 No 81.7 500.0 0.0Tractor No 40 84.0 500.0 0.0 Front End Loader 40 79.1 500.0 0.0 No 40 Backhoe No 77.6 500.0 0.0

Results

Noise Limits (dBA) Noise Limit Exceedance (dBA)

	ated (dBA)			Evenin	g	Night		Day	Even	ing	Night		
Equipment Lmax Leq	Lma	ax Leq	Lm	iax I	Leq L	max	Leq l	Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	60.7	56.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A Grader N/A	65.0	61.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer N/A	61.7	57.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor N/A	64.0	60.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Load	der 59	0.1 55.1	N/	'A N	N/A N	I/A	N/A 1	N/A	N/A N	N/A 1	N/A N	J/A N	I/A N
Backhoe N/A	57.6	53.6	N/A	N/A	N/A	N/A	A N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total N/A	65.0 6	55.9	N/A 1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 07/08/2019 Case Description: HLPU-1.0

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Utility Trenching Residential 65.0 60.0 55.0

Equipment

Spec Actual Receptor Estimated
Impact Usage Lmax Lmax Distance Shielding

Description Device (%) (dBA) (dBA) (feet) (dBA)

Excavator No 40 80.7 500.0 0.0 Tractor No 40 84.0 500.0 0.0

Results

	Noise Limits (dBA)						Noise Limit Exceedance (dBA)						
	Calculated (dBA)		Da	y	Evenin	ıg	Night		Day	Even	ing	Night	-
Equipment Lmax Leq	Ln	nax Lec	1 L1	nax L	eq L	max]	Leq I	_max	Leq	Lmax	Leq	Lmax	Leq
Excavator N/A	60.7	56.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor N/A	64.0	60.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tota N/A	1 64.0	61.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 07/08/2019 Case Description: HLPU-1.0

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Building Construction Residential 65.0 60.0 55.0

Equipment

	pact Usag	ge Ln	nax Lm	ax Dis		hielding
Description	Device	(%)	(aBA)	(dBA)	(feet)	(dBA)
Crane	No 1	6	80.6	500.0	0.0	
Man Lift	No 2	20	74.7	500.0	0.0	
Man Lift	No 2	20	74.7	500.0	0.0	
Generator	No	50	80.6	500.	0.0)
Tractor	No 4	0 84	0	500.0	0.0	
Front End Load	ler No	40	7	9.1 5	0.00	0.0
Welder / Torch	No	40	74	.0 50	0.0	0.0

Results

		Noise Li	mits (dBA)		Noise Limit Exceedance (dBA)				
	Calculated (dBA	a) Day	Evening	Night	Day	Evening	Night		
Equipment Lmax Leq	Lmax I	Leq Lmax	Leq Lmax	Leq 1	Lmax Leq	Lmax Leq	Lmax Leq		
Crane N/A	60.6 52.6	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A		
Man Lift N/A	54.7 47.7	N/A N/	A N/A N/A	A N/A	N/A N/A	A N/A N/A	N/A N/A		
Man Lift N/A	54.7 47.7	N/A N/	A N/A N/A	A N/A	N/A N/A	A N/A N/A	N/A N/A		
Generator N/A	60.6 57.6	N/A N	/A N/A N/A	A N/A	N/A N/A	A N/A N/A	A N/A N/A		
Tractor N/A	64.0 60.0	N/A N/A	A N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A		
Front End Loa N/A	nder 59.1 5	55.1 N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A N/A		
Welder / Torcl N/A	h 54.0 50	0.0 N/A	N/A N/A N	N/A N	/A N/A 1	N/A N/A N	I/A N/A N/A		
Total N/A	1 64.0 63.6	N/A N/A	N/A N/A	N/A	N/A N/A	N/A N/A	N/A N/A		

Report date: 07/08/2019 Case Description: HLPU-1.0

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Paving Residential 65.0 60.0 55.0

Equipment

		Spe	c A	ctual	Recepto	or Estim	ated
	Impact U	Jsage	Lm	ax Lı	max	Distance	Shielding
Description	Devi	ice (%)	(dBA)	(dBA) (feet)	(dBA)
							-
Pavement Sc	arafier	No	20		89.5	500.0	0.0
Pavement Sc	arafier	No	20		89.5	500.0	0.0
Paver	No	50		77.2	500	0.0	.0
Paver	No	50		77.2	500	0.0	.0
Roller	No	20		80.0	500	0.0	.0
Roller	No	20		80.0	500	0.0	.0

Results

Noise Limits (dBA) Noise Limit Exceedance (dBA)

	Calcula	ted (dB	A) D	ay	Even	ing	Night	·	Day	Eve	ning	Nig	ht	
Equipment Lmax Leq]	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Pavement Sc N/A	arafier	69.5	62.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Sc	arafier	69.5	62.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A Paver	57.2	2 54.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
N/A Paver	57.2	2 54.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
N/A Roller N/A	60.0	53.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Roller N/A	60.0	53.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Tot N/A	al 69.5	66.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Report date: 07/25/2019 Case Description: HLPU-1.0

**** Receptor #1 ****

Baselines (dBA)

Description Land Use Daytime Evening Night

Architectural Coating Residential 65.0 60.0 55.0

Equipment

Spec Actual Receptor Estimated

Impact Usage Lmax Lmax Distance Shielding

Description Device (%) (dBA) (dBA) (feet) (dBA)

Compressor (air) No 40 77.7 500.0 0.0

Results

			Noise Li	mits (d)	BA)	Noise Limit Exceedance (dBA)							
	Calculated (d.	BA)	Day	Eve	ning	Nigh	 nt	Day	Ever	ning	Nig	ght	
Equipment Lmax Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	(Lec	l
Compressor (a N/A	ir) 57.7	53.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A N	J/A	N/A	N/A	N/A
Total N/A	57.7 53.	7 N/.	A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1

Report date: 07/08/2019 Case Description: HLPU-1.0

**** Receptor #1 ****

Baselines (dBA)

Daytime Evening Night Description Land Use Finish/Landscape Residential 65.0 60.0 55.0

Equipment

Spec Actual Receptor Estimated

Impact Usage Lmax Lmax Distance Shielding Description Device (%) (dBA) (dBA) (feet) (dBA)

Man Lift 500.0 No 20 74.7 0.0 Tractor 40 84.0 500.0 0.0 No

Results

		No	Noise Limit Exceedance (dBA)									
	Calculated (d.	BA) Da	ıy	Evening	3	Night]	Day	Even	ing	Night	
Equipment Lmax Leq	Lmax	Leq L	max L	eq Lr	nax I	Leq I	Lmax	Leq	Lmax	Leq	Lmax	Leq
Man Lift N/A	54.7 4	7.7 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor N/A	64.0 60	.0 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tota N/A	1 64.0 60.	3 N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

	Attenuation Calculation												
Dhasa	AD A	distance (ft)	ADA I	diatamas (ft)									
Phase	dBA	distance (ft)	dBA	distance (ft)									
Site Prep	65.7		67.6										
Grading	65.9		67.8										
Utility Trenching	61.7		63.6										
Building Construction	63.6	500	65.5	400									
Paving	66.5	300	68.4	400									
Architectural Coating	53.7		55.6										
Demolition	66.1		68.0										
Finish/Landscaping	60.3		62.2										

	Atteni	uation Calculation	1	
Phase	dBA	distance (ft)	dBA	distance (ft)
Site Prep	65.7		74.6	
Grading	65.9		74.8	
Utility Trenching	61.7		70.6	
Building Construction	63.6	500	72.5	180
Paving	66.5	500	75.4	100
Architectural Coating	53.7		62.6	
Demolition	66.1		75.0	
Finish/Landscaping	60.3		69.2	

	Atten	uation Calculation]	
Phase	dBA	distance (ft)	dBA	distance (ft)
Site Prep	65.7		70.7	
Grading	65.9		70.9	
Utility Trenching	61.7		66.7	
Building Construction	63.6	500	68.6	280
Paving	66.5	500	71.5	200
Architectural Coating	53.7		58.7	
Demolition	66.1		71.1	
Finish/Landscaping	60.3		65.3	

	Atten	uation Calculation		
Phase	dBA	distance (ft)	dBA	distance (ft)
Site Prep	65.7		75.1	
Grading	65.9		75.3	
Utility Trenching	61.7		71.1	
Building Construction	63.6	500	73.0	170
Paving	66.5	500	75.9	170
Architectural Coating	53.7		63.1	
Demolition	66.1		75.5	
Finish/Landscaping	60.3		69.7	

Attenuation Calculation												
Phase	dBA	distance (ft)	dBA	distance (ft)								
Site Prep	65.7		66.4	` '								
Grading	65.9		66.6									
Utility Trenching	61.7		62.4									
Building Construction	63.6	F00	64.3	460								
Paving	66.5	500	67.2	460								
Architectural Coating	53.7		54.4									
Demolition	66.1		66.8									
Finish/Landscaping	60.3		61.0									

TRAFFIC NOISE INCREASE CALCULATIONS

Intersection			Existing PM Peak														
Main Street	Cross Street	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	North	South	East	West
Hacienda Blvd	Halliburton Rd.	6	962	189	450	1190	5	1	1	3	201	0	174	2782	2551	1015	16
Hacienda Blvd	Colima Rd	47	75	62	132	106	693	803	1218	19	56	799	63	1872	365	2330	3579
Stimson Ave	Halliburton Rd.	61	478	74	117	384	117	139	461	134	70	314	114	1349	1201	1150	1226
Stimson Ave	Colima Rd	6	9	3	106	17	151	322	1070	9	3	773	79	684	47	2034	2331
Halliburton Rd	Colima Rd	12	49	36	365	102	35	39	1031	35	44	958	407	997	278	2841	2110
Countrywood Ave	Wedgeworth Dr.	141	44	30	3	21	9	17	105	109	21	66	6	100	366	231	447
Countrywood Ave	Colima Rd	20	22	17	69	20	67	52	1345	20	27	1278	95	325	126	2831	2782
Park Lawn Rd	Colima Rd	13	0	21	3	1	26	133	1292	24	56	1417	26	189	115	2815	2905
Manor Gate Rd	Colima Rd	147	12	42	20	18	23	31	1198	84	85	1331	55	159	388	2731	2814
Azusa Ave	Gale Ave	400	1232	188	327	1384	113	325	658	562	260	294	252	3633	4026	1979	2352
Azusa Ave	I-60 WB Ramps	0	1343	493	0	1431	896	0	0	0	636	0	514	4184	3903	1643	896
Azusa Ave	I-60 EB Ramps	0	1532	35	0	1772	333	416	304	421	0	0	375	4428	3760	714	1474
Azusa Ave	Pepper Brook Way	33	991	48	500	1386	322	356	99	34	94	128	112	3667	2586	981	972
Azusa Ave	Colima Rd	52	194	196	622	292	520	365	902	24	171	859	495	2488	929	3245	2722
Albatross Rd	Colima Rd	253	63	42	142	148	235	200	1065	259	75	941	49	837	840	2314	2953
Fullerton Ave	Colima Rd	388	675	167	350	822	71	107	983	171	229	695	135	2160	2452	2559	2415

	Intersection					Exis	ting +	- P PN	Л Peak	(
Main Street	Cross Street	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	North	South	East	West
Hacienda Blvd	Halliburton Rd.	6	962	190	453	1190	5	1	2	3	202	1	176	2787	2553	1024	18
Hacienda Blvd	Colima Rd	47	75	64	132	106	693	803	1223	19	58	803	63	1872	369	2343	3588
Stimson Ave	Halliburton Rd.	61	478	75	119	384	117	139	466	134	71	318	116	1353	1203	1165	1235
Stimson Ave	Colima Rd	6	9	4	107	17	151	322	1077	9	4	779	80	686	49	2051	2344
Halliburton Rd	Colima Rd	12	49	37	376	102	35	39	1043	35	45	969	417	1018	280	2887	2133
Countrywood Ave	Wedgeworth Dr.	141	44	31	4	21	9	17	106	109	22	67	7	102	368	237	449
Countrywood Ave	Colima Rd	20	22	18	69	20	67	52	1369	20	28	1300	95	325	128	2879	2828
Park Lawn Rd	Colima Rd	13	1	21	3	2	49	158	1292	24	56	1417	26	239	117	2815	2953
Manor Gate Rd	Colima Rd	147	16	42	22	21	23	31	1198	84	85	1331	58	171	395	2736	2814
Azusa Ave	Gale Ave	402	1236	190	327	1391	113	325	658	565	262	294	252	3644	4046	1983	2357
Azusa Ave	I-60 WB Ramps	0	1351	501	0	1443	896	0	0	0	650	0	514	4204	3945	1665	896
Azusa Ave	I-60 EB Ramps	0	1557	36	0	1798	333	416	304	433	0	0	375	4479	3824	715	1486
Azusa Ave	Pepper Brook Way	45	991	48	500	1386	360	383	102	44	94	132	112	3732	2608	988	1066
Azusa Ave	Colima Rd	52	195	196	631	293	520	365	904	24	171	862	506	2510	931	3270	2727
Albatross Rd	Colima Rd	254	63	42	142	148	239	203	1072	260	75	950	49	844	842	2330	2978
Fullerton Ave	Colima Rd	392	675	167	350	822	75	110	984	174	229	696	135	2167	2459	2561	2431

	Intersection					2026 N	lo Pro	ject P	M Pea	ık							
Main Street	Cross Street	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	North	South	East	West
Hacienda Blvd	Halliburton Rd.	6	991	195	464	1226	6	2	4	3	207	2	179	2868	2628	1051	23
Hacienda Blvd	Colima Rd	48	77	64	136	109	714	827	1259	20	58	827	65	1928	376	2409	3695
Stimson Ave	Halliburton Rd.	63	494	80	124	398	121	144	477	138	76	325	121	1402	1249	1203	1268
Stimson Ave	Colima Rd	6	9	3	113	18	156	332	1106	9	3	800	85	713	48	2110	2409
Halliburton Rd	Colima Rd	12	50	38	386	105	36	40	1073	36	46	998	429	1046	287	2970	2195
Countrywood Ave	Wedgeworth Dr.	148	46	31	3	23	9	18	108	115	22	68	6	105	385	238	466
Countrywood Ave	Colima Rd	21	23	22	75	21	69	54	1407	21	32	1338	102	344	140	2976	2910
Park Lawn Rd	Colima Rd	13	0	25	5	1	27	137	1361	25	61	1490	29	199	125	2971	3053
Manor Gate Rd	Colima Rd	186	12	79	21	19	24	32	1234	122	124	1371	57	165	542	2886	2969
Azusa Ave	Gale Ave	427	1279	194	337	1434	119	337	680	589	268	306	260	3766	4191	2045	2458
Azusa Ave	I-60 WB Ramps	0	1400	508	0	1487	928	0	0	0	656	0	537	4352	4051	1701	928
Azusa Ave	I-60 EB Ramps	0	1588	36	0	1834	343	436	313	434	0	0	386	4587	3892	735	1526
Azusa Ave	Pepper Brook Way	34	1028	49	517	1435	332	367	102	35	97	132	118	3797	2678	1015	1002
Azusa Ave	Colima Rd	68	200	202	641	301	543	383	944	39	176	900	510	2578	986	3373	2877
Albatross Rd	Colima Rd	265	65	43	146	152	244	208	1106	271	77	978	50	865	873	2400	3072
Fullerton Ave	Colima Rd	403	695	172	361	847	76	113	1015	179	236	719	139	2231	2532	2642	2505

	Intersection				20	26 w F	roject	t PM	Peak								
Main Street	Cross Street	NBL	NBT	NBR	SBL	SBT	SBR	EBL	EBT	EBR	WBL	WBT	WBR	North	South	East	West
Hacienda Blvd	Halliburton Rd.	6	991	196	467	1226	6	2	5	3	208	3	181	2873	2630	1060	25
Hacienda Blvd	Colima Rd	48	77	66	136	109	714	827	1264	20	60	831	65	1928	380	2422	3704
Stimson Ave	Halliburton Rd.	63	494	81	126	398	121	144	482	138	77	329	123	1406	1251	1218	1277
Stimson Ave	Colima Rd	6	9	4	114	18	156	332	1113	9	4	806	86	715	50	2127	2422
Halliburton Rd	Colima Rd	12	50	39	397	105	36	40	1085	36	47	1009	439	1067	289	3016	2218
Countrywood Ave	Wedgeworth Dr.	148	46	32	4	23	9	18	109	115	23	69	7	107	387	244	468
Countrywood Ave	Colima Rd	21	23	23	75	21	69	54	1431	21	33	1360	102	344	142	3024	2956
Park Lawn Rd	Colima Rd	13	1	25	5	2	50	162	1361	25	61	1490	29	249	127	2971	3101
Manor Gate Rd	Colima Rd	186	16	79	23	22	24	32	1234	122	124	1371	60	177	549	2891	2969
Azusa Ave	Gale Ave	429	1283	196	337	1441	119	337	680	592	270	306	260	3777	4211	2049	2463
Azusa Ave	I-60 WB Ramps	0	1408	517	0	1499	928	0	0	0	670	0	537	4372	4094	1724	928
Azusa Ave	I-60 EB Ramps	0	1613	37	0	1860	343	436	313	446	0	0	386	4638	3956	736	1538
Azusa Ave	Pepper Brook Way	46	1028	49	517	1435	370	393	105	45	97	136	118	3861	2700	1022	1095
Azusa Ave	Colima Rd	68	201	202	650	302	543	383	946	39	176	903	521	2600	988	3398	2882
Albatross Rd	Colima Rd	266	65	43	146	152	248	211	1113	272	77	987	50	872	875	2416	3097
Fullerton Ave	Colima Rd	407	695	172	361	847	80	116	1016	182	236	720	139	2238	2539	2644	2521

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			Existing			Project		Project
		Existing No	Plus	2026 No	2026 +	Noise	Cumulative	Cumulative
Direction	Segment	Project	Project	Project	Project	Increase	Increase	Contribution
N	Hacienda Blvd	2782	2787	2868	2873	0.01	0.14	0.01
S	Hacienda Blvd	2551	2553		2630	0.00	0.13	0.00
Ε	Halliburton Rd.	1015	1024		1060	0.04	0.19	0.04
W	Halliburton Rd.	16	18		25	0.51	1.94	0.36
N S	Hacienda Blvd Hacienda Blvd	1872 365	1872 369	1928 376	1928	0.00 0.05	0.13 0.17	0.00 0.05
E	Colima Rd.	2330	2343		380 2422	0.03	0.17	0.03
W	Colima Rd.	3579	3588	3695	3704	0.02	0.17	0.02
N	Stimson Ave	1349	1353	1402	1406	0.01	0.13	0.01
S	Stimson Ave	1201	1203		1251	0.01	0.18	0.01
E	Halliburton Rd.	1150			1218	0.06	0.25	0.05
W	Halliburton Rd.	1226	1235	1268	1277	0.03	0.18	0.03
N	Stimson Ave	684	686	713	715	0.01	0.19	0.01
S	Sierra Ridge Way	47	49	48	50	0.18	0.27	0.18
E	Colima Rd.	2034	2051	2110	2127	0.04	0.19	0.03
W	Colima Rd.	2331	2344	2409	2422	0.02	0.17	0.02
N	Dawn Haven Rd.	997	1018	1046	1067	0.09	0.29	0.09
S	Halliburton Rd.	278	280		289	0.03	0.17	0.03
E	Colima Rd.	2841	2887	2970	3016	0.07	0.26	0.07
W	Colima Rd.	2110	2133	2195	2218	0.05	0.22	0.05
N	Countrywood Ave	100	102	105	107	0.09	0.29	0.08
S	Countrywood Ave	366	368		387	0.02	0.24	0.02
E	Wedgeworth Dr.	231	237			0.11	0.24	0.11
W	Wedgeworth Dr.	447	449	466	468	0.02	0.20	0.02
N	Countrywood Ave	325	325	344	344	0.00	0.25	0.00
S E	Countrywood Ave Colima Rd.	126 2831	128 2879		142 3024	0.07 0.07	0.52 0.29	0.06 0.07
W	Colima Rd.	2782	2828	2976	2956	0.07	0.29	0.07
N	Park Lawn Rd.	189	239		249	1.02	1.20	0.07
S	Park Lawn Rd.	115	117			0.07	0.43	0.97
E	Colima Rd.	2815	2815	2971	2971	0.00	0.23	0.00
W	Colima Rd.	2905	2953	3053	3101	0.07	0.28	0.07
N	Manor Gate Rd.	159	171	165	177	0.32	0.47	0.30
S	Manor Gate Rd.	388	395	542	549	0.08	1.51	0.06
E	Colima Rd.	2731	2736	2886	2891	0.01	0.25	0.01
W	Colima Rd.	2814	2814	2969	2969	0.00	0.23	0.00
N	Azusa Ave	3633	3644	3766	3777	0.01	0.17	0.01
S	Azusa Ave	4026	4046		4211	0.02	0.20	0.02
E	Gale Ave	1979	1983		2049	0.01	0.15	0.01
W	Gale Ave	2352	2357	2458	2463	0.01	0.20	0.01
N	Azusa Ave	4184	4204	4352	4372	0.02	0.19	0.02
S	Azusa Ave	3903	3945		4094	0.05	0.21	0.05
E	I-60 WB On Ramp	1643					0.21	0.06
W N	I-60 WB Off Ramp Azusa Ave	896 4428	896 4479	928 4587	928 4638	0.00	0.15 0.20	0.00 0.05
S	Azusa Ave Azusa Ave	3760				0.03	0.20	0.03
E	I-60 EB Off Ramp	714				0.07	0.22	0.07
W	I-60 EB On Ramp	1474	1486			0.01	0.13	0.01
N	Azusa Ave	3667	3732	3797	3861	0.08	0.22	0.07
S	Azusa Ave	2586				0.04	0.19	0.04
E	Pepper Brook Way	981	988			0.03	0.18	0.03
W	Pepper Brook Way	972	1066		1095	0.40	0.52	0.39
N	Azusa Ave	2488	2510	2578	2600	0.04	0.19	0.04
S	Azusa Ave	929	931	986	988	0.01	0.27	0.01
E	Colima Rd.	3245	3270		3398	0.03	0.20	0.03
W	Colima Rd.	2722	2727	2877	2882	0.01	0.25	0.01
N	Albatross Rd.	837	844	865	872	0.04	0.18	0.04
S	Albatross Rd.	840				0.01	0.18	0.01
Ε	Colima Rd.	2314				0.03	0.19	0.03
W	Colima Rd.	2953	2978		3097	0.04	0.21	0.04
N	Fullerton Ave	2160	2167	2231	2238	0.01	0.15	0.01
S	Fullerton Ave	2452	2459		2539	0.01	0.15	0.01
E	Colima Rd.	2559	2561		2644	0.00	0.14	0.00
W	Colima Rd.	2415	2431	2505	2521	0.03	0.19	0.03

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