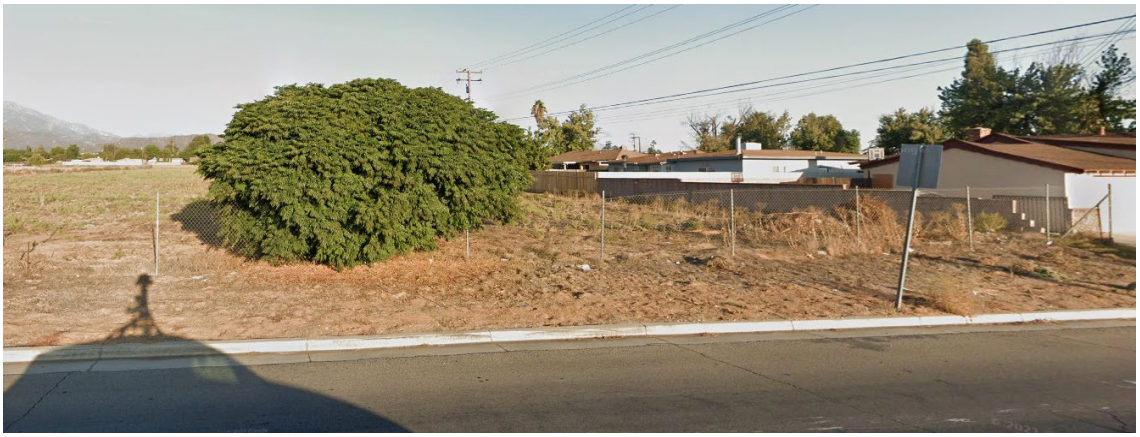
Noise Impact Analysis

Calimesa Enclave Townhouse Residential Development

City of Calimesa, CA



Prepared for:

City of Calimesa

Prepared by:

Entech Consulting Group

Planning • Environmental • Construction Management

June 2024

TABLE OF CONTENTS

1.0 INTRODUCTION 1
1.1 Purpose of Analysis and Study Objectives 1
1.2 Site Location and Study Area 1
1.3 Sensitive Receptors in Project Vicinity 1
1.4 Project Description 2
1.5 Standard Air Quality and GHG Regulatory Conditions 2
1.6 Summary of Analysis Results 4
1.7 Mitigation Measures Required for the Project 5

2.0 POLLUTANTS 10
2.0 Criteria Pollutants 10
2.1 Other Pollutants of Concern 11
2.2 Greenhouse Gases 12
2.3 Global Warming Potential 15

3.0 AIR QUALITY MANAGEMENT 16
3.0 Regulatory Setting 16

4.0 ATMOSPHERIC SETTING 28
4.0 Regional – Riverside County 28
4.1 Monitored Local Air Quality 28
4.2 Toxic Air Contaminant Levels in the Air Basin 30

5.0 THRESHOLDS OF SIGNIFICANCE 31
5.1 Regional Air Quality 31
5.2 Local Air Quality 31
5.3 Toxic Air Contaminants 32
5.4 Odor Impacts 32
5.5 Greenhouse Gases 32

6.0 IMPACT ANALYSIS 34
6.1 CEQA Thresholds of Significance 34
6.2 Air Quality Compliance 34
6.3 Air Quality Standard Violation 35
6.4 Cumulative Net Increase in Non-Attainment Pollution 38
6.5 Sensitive Receptors 39
6.6 Recommended Air Quality Mitigation Measures 41
6.7 Objectionable Odors 43
6.8 Generation of Greenhouse Gas Emissions 43
6.9 Greenhouse Gas Plan Consistency 44
6.10 Recommended Greenhouse Gas Mitigation Measures 52

7.0 REFERENCES 53

APPENDIX A 55

Rules 1108 and 1108.1 – Cutback and Emulsified Asphalt

Rules 1108 and 1108.1 govern the sale, use, and manufacturing of asphalt and limits asphalt's VOC content. This rule regulates the VOC contents of asphalt used during construction and any ongoing maintenance during operations. Therefore, all asphalt used during the construction and operation of the project must comply with SCAQMD Rules 1108 and 1108.1.

Rule 1113 – Architectural Coatings

Rule 1113 governs architectural coatings' sale, use, and manufacturing and limits the VOC content in sealers, coatings, paints, and solvents. This rule regulates the VOC contents of paints available during construction. Therefore, all paints and solvents used during the construction and operation of the project must comply with SCAQMD Rule 1113.

Rule 1143 – Paint Thinners

Rule 1143 governs the sale, use, and manufacturing of paint thinners and multi-purpose solvents that are used in the thinning of coating materials, cleaning of coating application equipment, and other solvent cleaning operations. This rule regulates the VOC content of solvents used during construction, and solvents used during the construction and operation of the project must comply with SCAQMD Rule 1143.

State of California Rules

The following lists the State of California rules that apply to all residential projects.

CARB Regulation for In-Use Off-Road Diesel Vehicles

On July 26, 2007, the California Air Resources Board (CARB) adopted California Code of Regulations Title 13, Article 4.8, Chapter 9, Section 2449 to reduce diesel particulate matter (DPM) and NOx emissions from in-use off-road heavy-duty diesel vehicles in California. Such vehicles are used in construction, mining, and industrial operations. The regulation limits idling to no more than five consecutive minutes, requires reporting and labeling, and requires disclosure of the regulation upon vehicle sale. Performance requirements of the rule are based on a fleet's average NOx emissions, which can be met by replacing older vehicles with newer, cleaner vehicles or by applying exhaust retrofits. The regulation was amended in 2010 to delay the original timeline of the performance requirements, making the first compliance deadline January 1, 2014, for large fleets (over 5,000 horsepower), 2017 for medium fleets (2,501-5,000 horsepower), and 2019 for small fleets (2,500 horsepower or less). Currently, no commercial operation in California may add any equipment to their fleet with a Tier 0 or Tier 1 engine. By January 1, 2018, medium and large fleets will be restricted from adding Tier 2 engines to their fleets. By January 2023, no commercial operation will be allowed to add Tier 2 engines to their fleets. It should be noted that commercial fleets may continue to use their existing Tier 0 and 1 equipment if they can demonstrate that the average emissions from their entire fleet emissions meet the NOx emissions targets.

CARB Resolution 08-43 for On-Road Diesel Truck Fleets

On December 12, 2008, the CARB adopted Resolution 08-43, limiting NOx, PM10, and PM2.5 emissions from on-road diesel truck fleets operating in California. On October 12, 2009, Executive Order R-09-010 was adopted that codified Resolution 08-43 into Section 2025, title 13 of the California Code of Regulations. This regulation requires that by 2023 all commercial diesel trucks that operate in California shall meet the model year 2010 (Tier 4 Final) or latter emission standards. This regulation provides annual interim targets for fleet owners to meet in the interim period. By January 1, 2014, 50 percent of a truck fleet is required to have installed Best Available Control Technology (BACT) for NOx emissions and 100 percent of a truck fleet installed BACT for PM10 emissions. This regulation also provides a few exemptions, including a one-time 3-day pass for trucks registered outside of California. All on-road diesel

trucks utilized during the project's construction will be required to comply with Resolution 98-43.

California Code of Regulations (CCR) Title 24, Part 6

CCR Title 24, Part 6: California's Energy Efficiency Standards for Residential and Nonresidential Buildings (Title 24) standards require the installation of insulated hot water pipes, improved window performance, improved wall insulation, and mandatory duct sealing. Other Title 24 requirements include the use of cool roofing shingles, a minimum of 1-inch air space between roof material and roof deck, and a minimum of R-22 roof/ceiling insulation. All lighting is required to be high efficiency and daylight and motion sensors are required for outdoor lighting, bathrooms, utility rooms, and other spaces. The forced air systems are required to limit leakage to 5 percent or less and require all heat pump systems to be equipped with liquid line filter driers. The 2016 Title 24 Part 6 standards are anticipated to reduce electricity consumption by 281 gigawatt hours per year and natural gas consumption by 16 million therms per year (http://www.energy.ca.gov/2015publications/CEC-400-2015-037/CEC-400-2015-037.pdf).

California Code of Regulations (CCR) Title 24, Part 11

CCR Title 24, Part 11: California Green Building Standards (Title 24) requires that new buildings reduce water consumption, employ building commissioning to increase building system efficiencies, divert construction waste from landfills, and install low pollutant-emitting finish materials. One focus of CCR Title 24, Part 11 is water conservation measures, which reduce GHG emissions by reducing electrical consumption associated with pumping and treating water. CCR Title 24, Part 11 has approximately 52 nonresidential mandatory measures and 130 provisions for optional use.

1.6 Summary of Analysis Results

The following is a summary of the project's impacts with regard to the State CEQA Guidelines air quality and GHG emissions checklist questions.

Conflict with or obstruct implementation of the applicable air quality plan?

Less than significant impact.

Violate any air quality standard or contribute substantially to an existing or projected air quality violation?

Less than significant impact.

Result in a cumulatively considerable net increase of any criteria pollutant for which the project region is non-attainment under an applicable Federal or State ambient air quality standard?

Less than significant impact.

Expose sensitive receptors to substantial pollutant concentrations?

Less than significant impact.

Create objectionable odors affecting a substantial number of people?

Less than significant impact.

Generate GHG emissions, either directly or indirectly that may significantly impact the environment?

Less than significant impact.

MM AQ 3: In order to reduce impacts related to long-term operation impacts, upon a residential dwelling unit being sold, offered for sale, or rented, the Project Applicant or its designee shall notify and offer to the prospective buyer or tenant, as soon as it may be done, disclosure materials describing available public transit, ridesharing, and non-motorized commuting opportunities available in the vicinity of the implementing development project site. Such information shall be transmitted no later than the close of escrow or finalization of a rental contract. A draft of this disclosure shall be submitted to the City Planning Department for review prior to the issuance of the first certificate of occupancy of each implementing development project.	The project developer will include in the CC&R's disclosure materials identifying the nearest bus stops on County Line Road and 5th Street serviced by Omni Trans, bus route 319.
MM AQ 4: In order to reduce impacts related to long-term operation impacts, each implementing development project shall install broadband infrastructure or other communication technologies that encourage telecommuting and working from home. The applicant shall submit documentation to the City Building and Safety Department prior to occupancy.	The project developer will offer high-speed internet and will be a part of the electrical plans.
MM AQ 5: In order to reduce impacts related to long-term operation impacts, each implementing development project shall offer natural gas or propane hookups, exterior electrical outlets, and prohibit wood-burning fireplaces. The City Planning Department shall verify that architectural plans for implementing tract maps include such requirements before implementing project approval. The City Planning Department shall verify the conditions of approval include the exterior electrical hookups and prohibition of applicable wood-burning devices consistent with SCAQMD Rule 445.	The project will not install wood-burning fireplaces and natural gas hookups and exterior electrical outlet locations will be presented on the architectural plans.
MM AQ 6: In order to reduce impacts related to long-term operation impacts, implementing project developers for multi-family development shall encourage the use of electric landscape maintenance equipment for public common areas maintained by the property owner's association by providing information to the property owner's association about the benefits of such equipment and the incentive programs offered by SCAQMD. This information shall be provided to the City Planning Department for verification prior to occupancy.	The developer will be incorporating within the CC&R to require the property owner's association to require hired landscapers to utilize electric landscape maintenance equipment instead of gas-powered equipment for public common areas.
MM AQ 7: In order to reduce impacts related to long-term operation impacts, prior to the issuance of multi-family residential building permits, each implementing development applicant, or its designee shall submit building design plans to the City that demonstrate that the parking areas for multi-family residential buildings are equipped with EV charging stations that provide charging opportunities to at least two (2) percent of the total number of required parking spaces. The EV charging stations shall achieve a similar or better functionality as a Level 2 charging station. In the event that the installed charging stations use more superior functionality/technology other than Level 2 charging stations, the parameters of the mitigation obligation (i.e., number of parking spaces served by EV charging stations) shall reflect the comparative equivalency of Le	The developer will incorporate EV charging plugs within each garage of a townhome to exceed the requirement of 2 percent of the total number of parking spaces at the development

2 charging stations to the installed charging stations or basis of average charge rate per hour. For purposes of this equivalency determination, Level 2 charging stations shall be assumed to provide charging capabilities of 25 range miles per hour. Compliance shall be verified by the City Building and Safety Department prior to occupancy.	
MM AQ 8: In order to reduce impacts related to long-term operation impacts, prior to approval of future development within the RIPAOZ, each individual implementing project shall evaluate active transportation measures and incorporate feasible measures into the design to increase connectivity and opportunities for residents to walk and bike to reduce VMT.	The project site incorporates walkways for residents. Garages are alley-loaded and sidewalks meander between the units to increase opportunities for residents to walk and bike to nearby bus routes.
Greenhouse gas Mitigation Measures	
MM GHG 1: In order to reduce GHG impacts, the City Building and Safety Department shall verify before issuance of all residential building permits that where appliances are installed by residential project developers, Energy Star appliances (or other equivalent technology) for clothes washers, dish washers, refrigerators, and fans shall be installed in the residences.	The Project will comply with the California Energy Efficiency Standards and 2022 CalGreen Standards for energy efficient buildings and appliances as well as utility energy efficiency programs implemented by SCE.
MM GHG 2: In order to reduce GHG impacts, the City Building and Safety Department shall verify before issuance of all residential building permits that all-in-unit fixtures installed in residential and nonresidential buildings will be high efficacy. High efficacy lighting includes compact fluorescent lamps, light emitting diodes (LED), and other light bulbs that provide energy efficiency of at least 40 lumens/watt for 15-watt or less fixtures, 50 lumens/watt for 15–40-watt fixtures, 60 lumens/watt for fixtures > 40watt.	The project developer will install compact fluorescent lamps, light-emitting diodes, and other light bulbs that provide an energy efficiency of at least 40 lumens/watt for 15-watt or less fixtures, 50 lumens/watt for 15–40-watt fixtures, 60 lumens/watt for fixtures > 40watt. The specific lamps and energy-efficient fixtures and light bulbs that will be installed are noted on the electrical/architectural plans.
MM GHG -3: In order to reduce GHG impacts, prior to approval of future development within the RIPAOZ, each individual implementing project shall evaluate installation of cool pavements in street improvement plans, if approved by the California Department of Transportation (Caltrans) and City Engineering Department for roadway uses, provided that road installation and maintenance durability and costs are comparable to existing approved roadway materials. Pavement installed shall be to the satisfaction of the City Engineering Department prior to approval of all street improvement plans	The project developer will install cool pavements in street improvement plans, if approved by Caltrans and the City Engineering Department for roadway uses.
MM GHG 4: In order to reduce GHG impacts, prior to the approval of future development within the RIPAOZ, each individual implementing project shall include in design plans for City review technically feasible (given expected future uses) and legally feasible (given applicable ordinances and other requirements) designs that include groundcovers or other measures to reduce the use of concrete and asphalt. Pavement installed shall be to the satisfaction of the City Engineering Department prior to approval of all street improvement plans.	The project developer has incorporated drought-tolerant landscaping and ground covering that will reduce the use of concrete and asphalt. The specific groundcover proposed is noted on the landscape plans.

Figure 1. Regional Study Area

3.0 Regulatory Standards

Federal, state, and local county governments and most municipalities in the state of California have established standards and ordinances to control noise. These noise standards serve to limit the population from exposure to physical and/or psychological damage as well as intrusive noise levels. Federal, state, and local agencies regulate different aspects of environmental noise. Applicable regulations for each level of government are provided below for the project.

3.1 Federal Regulations and Standards

There are no federal noise standards that directly regulate environmental noise related to the construction or operation of the project. Concerning noise exposure and workers, the Office of Safety and Health Administration (OSHA) regulations safeguard the hearing of workers exposed to occupational noise. Federal regulations also establish noise limits for medium and heavy trucks (more than 4.5 tons, gross vehicle weight rating) under 40 Code of Federal Regulations (CFR), Part 205, Subpart B. The federal truck pass-by noise standard is 80 dBA at 15 meters (approximately 50 feet) from the vehicle pathway centerline. These controls are implemented through regulatory controls on truck manufacturers.

3.2 California Noise Requirements

The State of California regulates freeway noise, sets standards for sound transmission, provides occupational noise control criteria, identifies noise standards, and provides guidance for local land use compatibility. State law requires that each county and city adopt a General Plan that includes a Noise Element which is to be prepared per guidelines adopted by the Governor's Officeof Planning and Research (OPR). The purpose of the Noise Element is to *limit the exposure ofthe community to excessive noise levels*. In addition, the California Environmental Quality Act (CEQA) requires that all known environmental effects of a project be analyzed, including environmental noise impacts.

3.3 California State Building Code

California Government Code Section 65302 (f) mandates that the legislative body of each county and city adopt a noise element as part of their comprehensive general plan. The local noise element must recognize the land use compatibility guidelines established by the State Department of Health Services as shown in **Table 3-1**, California Land Use Compatibility Noise Guidelines. The City of Calimesa has adopted these standards.

Table 3-1. Land Use Compatibility for Community Noise Environments

Land Use Category	Community Noise Exposure Level (in terms of CNEL)			
	Normally Acceptable	**Conditionally Acceptable**	**Normally Unacceptable**	Clearly Unacceptable
Residential - Low Density, Single-Family, Duplex, Mobile Homes	50 - 60	55 - 70	70 - 75	**75 - 85**
Residential - Multiple Family	50 - 65	60 - 70	70 - 75	**70 - 85**
Transient Lodging - Motel, Hotels	50 - 65	60 - 70	70 - 80	**80 - 85**
Schools, Libraries, Churches, Hospitals, Nursing Homes	50 - 70	60 - 70	70 - 80	**80 - 85**
Auditoriums, Concert Halls, Amphitheaters	NA	50 - 70	NA	**65 - 85**
Sports Arenas, Outdoor Spectator Sports	NA	50 - 75	NA	**70 - 85**
Playgrounds, Neighborhood Parks	50 - 70	NA	67.5 - 75	**72.5 - 85**
Golf Courses, Riding Stables, Water Recreation, Cemeteries	50 - 70	NA	70 - 80	**80 - 85**
Office Buildings, Business Commercial and Professional	50 - 70	67.5 - 77.5	75 - 85	**NA**
Industrial, Manufacturing, Utilities, Agriculture	50 - 75	70 - 80	75 - 85	**NA**

Source: **General Plan Guidelines, Office of Planning and Research, California, October 2003, page 250.**

Notes:
NORMALLY ACCEPTABLE
Specified land use is satisfactory, based upon the assumption that any buildings involved are of normal conventional construction, without any special noise insulation requirements.

CONDITIONALLY ACCEPTABLE
New construction or development should be undertaken only after a detailed analysis of the noise reduction requirements is made and needed noise insulation features are included in the design. Conventional construction, but with closed windows and fresh air supply systems or air conditioning will normally suffice.

NORMALLY UNACCEPTABLE
New Construction or development should be discouraged. If new construction or development does proceed, a detailed analysis of the noise reduction requirements must be made, and needed noise insulation features included in the design.

CLEARLY UNACCEPTABLE
New construction or development should generally not be undertaken.

NA: Not Applicable

The guidelines rank noise-land use compatibility in terms of "normally acceptable," "conditionally acceptable" and "clearly unacceptable" noise levels for various land use types. Single-family homes are "normally acceptable" in exterior noise environments up to 60 CNEL and "conditionally acceptable" up to 70 CNEL. Multiple-family residential uses are "normally acceptable" in exterior noise environments up to 65 CNEL and "conditionally acceptable" up to 70 CNEL. Schools, libraries, and churches are "normally acceptable" in exterior noise environments up to 70 CNEL, as are office buildings and business, commercial, and professional uses.

Further, the State of California's Green Building Standards Code contains mandatory measures for non-residential building construction in Section 5.507 on Environmental Comfort. These noise standards are applied to new construction in California to control interior noise levels resulting from exterior noise sources. The regulations specify that acoustical studies must be prepared when non-residential structures are developed in areas where the exterior noise level exceeds 65 dBA CNEL.

3.4 Local Regulations and Standards

3.4.1 City of Calimesa General Plan

The City of Calimesa has included goals and policies within the General Plan Noise Element to minimize mobile-source generated noise levels. The following goals, policies, and implementation programs apply to this project as they apply to roadway improvement projects.

GOAL N-1: Ensure that all land uses are protected from excessive and unwanted noise.

GOAL N-2: Prevent and mitigate the adverse impacts of excessive noise exposure on the residents, employees, visitors, and noise-sensitive uses in Calimesa.

POLICY N-1: Future development that could increase ambient noise levels shall be required to mitigate the anticipated noise increase to the extent possible.

POLICY N-7: Consider the following uses to be sensitive to noise and vibration, and discourage these uses in areas where existing or projected future noise levels would be in excess of 65 dBA CNEL and/or vibration would be more than 0.0787 peak particle velocity (inches per second):

- Schools
- Hospitals
- Rest homes
- Long-term care facilities
- Mental care facilities
- Residential uses
- Libraries
- Passive recreation uses
- Places of worship (MM)

POLICY N-9: The City will work to create and preserve a quiet living environment for all residential neighborhoods.

POLICY N-10: When making decisions regarding changes to the General Plan or Zoning Maps, or regarding the suitability of a proposed use, the standards in Table N-C shall apply. (MM)

TABLE N-C: NOISE COMPATIBILITY BY LAND USE TYPE

Land Use Designations	Completely Compatible	Tentatively Compatible	Normally Incompatible	Completely Incompatible
All Residential (Single- and Multi-Family)	Less than 60 dBA	60–70 dBA	70–75 dBA	Greater than 75 dBA
All Nonresidential (Commercial, Industrial & Institutional)	Less than 70 dBA	70–75 dBA	Greater than 75 dBA	(1)
Public Parks (Lands on which public parks are located or planned)	Less than 65 dBA	65–70 dBA	70–75 dBA	Greater than 75 dBA

All noise levels shown in this table are designated CNEL.
1. To be determined as part of the project review process.

POLICY N-11: Table N-D provides the City's standards for maximum exterior non-transportation noise levels to which land designated for residential land uses may be exposed for any 30 minutes on any day. Where existing ambient noise levels exceed these standards, the ambient noise level shall be the highest allowable noise level as measured in dBA LEQ (30 minutes). (MM)

TABLE N-D: EXTERIOR NOISE LEVEL STANDARDS FOR NON-TRANSPORTATION NOISE, MEASURED AS dBA L_{EQ} (30 MINUTES)

Land Use Type	Time Period	Maximum Noise Level (dBA)
Single-Family Homes and Duplexes	10 P.M. to 7 A.M.	50
	7 A.M. to 10 P.M.	60
Multi-Family Residential – 3 or More Units Per Building (Triplex +)	10 P.M. to 7 A.M.	55
	7 A.M. to 10 P.M.	60

POLICY N-20: The City shall adopt and apply measures to limit construction noise in residential areas.

POLICY N-31: Ensure that construction activities are regulated to establish hours of operation to prevent and/or mitigate the generation of excessive or adverse noise impacts on surrounding areas. (MM)

POLICY N-32: Require that all construction equipment be kept properly tuned and use noise reduction features (e.g., mufflers and engine shrouds) that are no less effective than those originally installed by the manufacturer. (MM)

3.4.2 City of Calimesa Municipal Code

The City of Calimesa Municipal Code contains regulations to protect residents from exposure to excessive noise which are summarized below.

Title 8 – Health and Safety, Chapter 8.15 – Noise Abatement and Control
Section 8.15.010 of the Calimesa Municipal Code (CMC) states the purpose of Chapter 8.15 is to establish criteria and standards for regulating noise levels within the City and implementing the noise provisions contained in the City's General Plan.

8.15.080 Construction equipment.
Except for emergency work, it is unlawful for any person, including the city, to operate any single or a combination of powered construction equipment at any construction site, except as outlined in subsections (A) and (B) of this section:

A. It is unlawful for any person, including the city, to operate any single or a combination of powered construction equipment at any construction site before 7:00 a.m. or after 7:00 p.m. In addition, it is unlawful for any person, including the city, to operate any single or a combination of powered construction equipment at any construction site before 10:00 a.m. or after 5:00 p.m. on Saturdays and Sundays, January 1st, the last Monday in May, known as "Memorial Day," July 4th, the first Monday in September, Thanksgiving Day and December 25th. When January 1st, July 4th, or December 25th fall on a Sunday, it is unlawful for any person to operate any single or a combination of powered construction equipment at any construction site before 10:00 a.m. or after 5:00 p.m. on the following Monday.

B. No such equipment, or a combination of equipment regardless of age or date of acquisition, shall be operated so as to cause noise at a level in excess of 75 decibels for more than eight hours during any 24-hour period when measured at or within the property lines of any property which is developed and used either in part or in whole for residential purposes.

C. In the event that lower noise limit standards are established for construction equipment pursuant to state or federal law, said lower limits shall be used as a basis for revising and amending the noise level limits specified in subsection (B) of this section. [Ord. 91-21; Code 1990 § 4.2.08.]
8.15.090 Containers and construction material

It is unlawful for any person to handle or transport or cause to be handled or transported in any public place any container or any construction material in such a way as to create a disturbing, excessive, or offensive noise as defined in CMC 8.15.020. [Ord. 91-21; Code 1990 § 4.2.09.]

Public Works Construction The City of Calimesa will make reasonable efforts to limit construction hours as outlined in CMC 9.15.080 to protect the health, safety, or general welfare of Calimesa residents.

The regulations and policies discussed above are intended to protect the community from excessive noise and vibration to ensure residents' and workers' quality of life in the City. The City is responsible for the continued enforcement of federal, state, and local regulations pertaining to noise generation and impacts and implementing Safety Element policies and applicable regulations of the CMC to ensure continued protection of the community from excessive noise and vibration in future growth and development.

In community noise assessment, changes in noise levels greater than 3 dBA are often identified as “barely perceptible” while changes of 5 dBA are “ready perceptible.” In the range of 1 dBA to 3 dBA, people who are very sensitive to noise may perceive a slight change in noise level.

In laboratory testing situations, humans can detect noise level changes of slightly less than 1 dBA. However, in a community situation, noise exposure is extended over a long time period, and changes in noise levels occur over the years rather than the immediate comparison made in a laboratory situation. Therefore, the level at which changes in community noise levels become discernible is likely to be some value greater than 1 dBA, and 3 dBA appears to be appropriate for most people.

4.0 Study Methods and Procedures

4.1 Construction Noise Methodology

This analysis focuses on the potential ground-borne vibration associated with vehicular traffic and construction activities. Ground-borne vibration levels from automobile traffic are generally overshadowed by vibration generated by heavy trucks that roll over the same uneven roadway surfaces. However, due to the rapid drop-off rate of ground-borne vibration and the short duration of the associated events, vehicular traffic-induced ground-borne vibration is rarely perceptible beyond the roadway right-of-way and rarely results in vibration levels that cause damage to buildings in the vicinity.

However, while vehicular traffic is rarely perceptible, construction has the potential to result in varying degrees of temporary ground vibration, depending on the specific construction activities and equipment used. Ground vibration levels associated with various types of construction equipment are obtained from the FTA Noise and Vibration Manual (FTA, 2018). Based on the representative vibration levels presented for various construction equipment types, it is possible to estimate the human response (annoyance) using the following vibration assessment methods defined by the FTA. To describe the human response (annoyance) associated with vibration impacts the FTA provides the following equation: $PPVequip = PPVref \times (25/D)^{1.5}$.

The assessment of construction noise impacts must be relatively general at this phase of the project because many of the decisions affecting noise will be at the discretion of the contractor. However, an assessment based on the type of equipment expected to be used by the contractor can provide a reasonable estimate of potential noise impacts and the need for noise mitigation. A worst-case construction noise scenario was developed and the FHWA Road Construction Noise Model (RCNM) was used to estimate construction noise levels for mobile and stationary sources. Noise levels were estimated based on a worst-case scenario of the noisiest pieces of mobile source construction equipment (i.e. earthmoving equipment) operating simultaneously. Earthmoving equipment includes machinery such as backhoes, bulldozers, excavators, and front loaders. For the stationary sources, the noisiest piece of equipment that would be utilized is an air compressor during the architectural coating phase of construction.

The calculated noise level was then compared to the respective local noise regulation to determine if construction would cause a short-term noise impact at nearby residential land uses. Receiver distance to the construction activity along with the construction equipment operating at maximum load will have the greatest influence on construction noise levels experienced at residential land uses.

4.2 Operational Noise Methodology

Operational Traffic Noise Analysis Methods

The expected off-site roadway noise level increases from vehicular traffic was calculated using a computer program that replicates the Federal Highway Administration (FHWA) Traffic Noise Prediction Model-FHWA-RD-77-108. (13) The FHWA Model arrives at a predicted noise level through a series of adjustments to the Reference Energy Mean Emission Level (REMEL). The national REMELs are substituted with the California Vehicle Noise (Calveno) Emission Levels in California. Adjustments are then made to the REMEL to account for: the roadway classification (e.g., collector, secondary, major, or arterial), the active roadway width (i.e., the distance between the center of the outermost travel lanes on each side of the roadway), the total average daily traffic (ADT), the travel speed, the percentages of automobiles, medium trucks, and heavy trucks in the traffic volume, the roadway grade, the angle of view (e.g., whether the roadway view is blocked), the site conditions ("hard" or "soft" relates to the absorption of the ground, pavement, or landscaping), and the percentage of total ADT which flows each hour throughout a 24-hour period.

Stationary Noise Modeling

SoundPLAN (SP) acoustical modeling software was utilized to model future worst-case stationary noise impacts to the adjacent land uses. SP is capable of evaluating multiple stationary noise source impacts at various receiver locations. SP's software utilizes algorithms (based on the inverse square law and reference equipment noise level data) to calculate noise level projections. The software allows the user to input specific noise sources, spectral content, sound barriers, building placement, topography, and sensitive receptor locations. The future worst-case noise level projections were modeled using referenced sound level data for the HVAC equipment. The reference sound level data are provided in Appendix C.

5.0 Thresholds of Significance

Appendix G of the California Environmental Quality Act (CEQA) Guidelines states that a project could have a noise impact if any of the following would occur:

a) Generation of substantial temporary or permanent increase in ambient noise levels in the vicinity of the project in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies

b) Generation of excessive groundborne vibration or groundborne noise levels

OPERATIONAL NOISE

If Project-related operational (stationary-source) noise levels exceed:

- the exterior noise level standard at nearby single-family residential sensitive receiver locations is 50 dBA L_{eq} between 10 p.m. and 7 a.m. and 60 dBA L_{eq} between 7 a.m. and 10 p.m.

If the existing ambient noise levels at the nearby noise-sensitive receivers near the Project site:

- are less than 60 dBA and the Project creates a readily perceptible 5 dBA or greater Project-related noise level increase: or
- range from 60 to 65 dBA and the Project creates a barely perceptible 3 dBA or greater Project-related noise level increase; or
- already exceed 65 dBA, and the Project creates a community noise level increase of greater than 1.5 dBA (FICON, 1992).

CONSTRUCTION NOISE AND VIBRATION

For this analysis, a significant impact would occur if construction activities occurred outside of the City's permissible hours of construction (7:00 a.m. and 7:00 p.m.). In addition, it is unlawful for any person, including the city, to operate any single or a combination of powered construction equipment at any construction site before 10:00 a.m. or after 5:00 p.m. on Saturdays and Sundays, January 1st, the last Monday in May, known as "Memorial Day," July 4th, the first Monday in September, Thanksgiving Day, and December 25th. When January 1st, July 4th, or December 25th fall on a Sunday, it is unlawful for any person to operate any single or a combination of powered construction equipment at any construction site before 10:00 a.m. or after 5:00 p.m. on the following Monday.

Vibration impacts would be significant if levels exceed the City of Calimesa vibration threshold of 0.0787 in/sec for residential or passive recreational land use.

6.0 Noise Assessment

6.1 Construction-Related Noise

Construction noise represents a temporary impact on the ambient noise levels. Construction noise is primarily caused by diesel engines (trucks, dozers, backhoes), impacts (jackhammers, pile drivers, hoe rams), and backup alarms. Construction equipment can be stationary or mobile. Stationary equipment operates in one location for hours or days in a constant mode (generators, compressors) or generates variable noise operation (pile drivers, jackhammers) producing constant noise for a period of time. Mobile equipment moves around the site and is characterized by variations in power and location, resulting in significant variations in noise levels over time.

Although the construction schedule has not been developed for the project, it is anticipated construction activities involving stationary and mobile equipment will occur longer than 10 days. A worst-case scenario was developed to predict the maximum noise level based on typical mobile and stationary equipment. **Table 6-1** shows the construction noise levels (dBA) that would be experienced at the project boundary. The closest residential location from the project site is approximately 25 feet from the project site border. It was determined that the site preparation phase, excavation, and grading of the site, tend to generate the highest noise levels from the noisiest construction equipment (i.e.) earthmoving equipment. Earthmoving equipment includes excavating machinery such as backhoes, bulldozers, draglines, and front loaders. Earthmoving and compacting equipment includes compactors, scrapers, and graders. Typical operating cycles for these types of construction equipment may involve one or two minutes of full-power operation followed by three or four minutes at lower power settings. Construction noise levels would reach 82.3 dBA L_{eq}. The City of Calimesa Municipal Code establishes a threshold for construction noise not to exceed a level above 75 dBA for more than eight hours during any 24 hours. Because construction noise exceeds this threshold mitigation measures are recommended below under section 7.0. Implementing these construction mitigation measures reduces noise levels to below established thresholds and construction noise impacts are less than significant.

Table 6-1. Construction Noise Level by Phase (dBA) L_{eq}[1]

Activity[2]	Unmitigated Noise Level	Mitigated Noise Level w/ Muffler[2]	Mitigated Noise Level Exceeds Standard 75 dBA 8 hrs	Mitigated Noise Level Exceeds Standard 81 dBA up to 2 hrs
Site Prep	82.3	62	No	No
Grading	81.7	65	No	No
Building	81.5	74	No	No
Paving	76.9	71	No	No
Architectural Coating	68.6	69	No	No

1. Noise Levels at R1 – Myrtlewood Drive Residences along Southern Border
2. Construction modeling assumptions are provided in Appendix C.
3. All construction equipment was modeled from the center of the site.

6.2 Construction Vibration

Ground-borne vibration levels resulting from construction activities occurring within the Project site were estimated by data published by the Federal Transit Administration (FTA). Construction activities that would occur within the Project site include grading, building construction, paving, and painting. These activities have the potential to generate low levels of ground-borne vibration.

Using the vibration source level of construction equipment provided in **Table 6-2** and the construction vibration assessment methodology published by the FTA, it is possible to estimate the project vibration impacts. **Table 6-2** presents the expected project-related vibration levels at the project's closest property boundary.

Table 6-2. Construction Equipment Vibration Levels

Noise Receiver	Maximum Allowable Distance to Project Site Property Boundary	Large Bulldozer Reference Vibration Level PPV_{ref} (in/sec) at 25ft[1]	Peak Vibration PPV (in/sec) at 30 ft	Below Calimesa Vibration Threshold (0.0787 in/sec)
Avenue L and 5th Street	30 feet	0.089	0.0728	Yes

[1] Reference noise level obtained from the FTA Noise and Vibration Manual, Table 7-4. (FTA, 2018)

Based on the reference vibration levels provided by the FTA, a large bulldozer represents the peak source of vibration with a reference level of 0.089 in/sec at a distance of 25 feet. The project site property boundary is within 25 feet of nearby residences and a large bulldozer operating within this distance would exceed the City of Calimesa threshold of 0.0787 in/sec. Therefore, construction activities with equipment that have a reference vibration level that exceeds 0.0787 in/sec are prohibited from operating within 25 feet of residential land uses.

At the closest allowable distance of 30 feet, construction vibration levels are expected to approach 0.0728 in/sec. This predicted construction vibration level does not exceed the City of Calimesa 0.0787 in/sec vibration threshold for residential uses and will not result in vibration impacts. Moreover, construction at the Project site operates within the restricted daytime hours of 7:00 a.m. and 7:00 p.m. during weekdays, thereby eliminating

potential vibration impact during the sensitive nighttime hours. Therefore, construction vibration impacts at the project's property boundary are less than significant.

6.3 Off-site Traffic Noise

The primary off-site noise from the project is attributable to increases in traffic. The FHWA 108 Model was utilized to assess noise impacts at sensitive residential receiver locations within the project area to determine whether exterior noise levels would cause a substantial increase of greater than 3 dBA. The proposed Project, along with future regional growth and other projects to be developed within the Project vicinity, would result in the addition of vehicle trips that would increase traffic noise. A segment along 5th Street, south of Avenue L, and a segment along Avenue L, East of 5th Street were identified within the project area for this analysis.

The FHWA 108 modeling was performed for the following scenarios: existing (2022) and existing plus project. The FHWA 108 model takes into account the posted vehicle speed, average daily traffic volume, the estimated vehicle mixes, and sound-attenuating effects of intervening structures, barriers, vegetation, or topography. The model assumed "pavement" site propagation conditions. **Table 6-3** presents the Existing and Future Roadway Traffic Noise Levels for the project. As shown in **Table 6-3**, the proposed project noise levels do not have noticeable increases above existing noise levels. Therefore, the increase is not considered significant.

Table 6-3. Traffic Noise Levels as Result of Project (dBA)

		CNEL at 60 Feet dBA[2]			
Roadway[1]	**Segment**	**Existing Without Project**	**Existing With Project**	**Change in Noise Level**	**Potential Significant Impact**
5th Street	South of Avenue L	65.9	66.1	0.2	No
Avenue L	East of 5th Street	67.2	67.4	0.2	No

Notes:
[1] Exterior noise levels calculated at 5 feet above ground level.
[2] Noise levels calculated from the centerline of the subject roadway.

6.4 Stationary Noise

Sensitive receptors that may be affected by Project operational noise include residential residences that surround the project site. The worst-case stationary noise was modeled using SoundPLAN acoustical modeling to predict the project-only noise level from HVAC equipment. The predicted L_{eq} operational noise levels from HVAC equipment operation is 34 dBA L_{eq} at nearby single-family residential sensitive receiver locations. This noise level is below the City's nighttime and daytime standards of 50 dBA L_{eq} between 10 p.m. and 7 a.m. and 60 dBA L_{eq} between 7 a.m. and 10 p.m., respectively. The noise level is less than significant. The SoundPLAN modeling inputs and outputs are provided in Appendix C.

6.5 Airport Noise

Redlands Municipal Airport is the nearest airport to the project site. It is approximately 10 miles northwest of the project site. The project site is not located within its noise contour and the project has no impact related to the potential exposure of people residing within the project area to excessive noise levels related to airports.

7.0 Mitigation & Recommended Reduction Measures

The following mitigation measures would reduce any noise level increases produced by the construction equipment to the nearby noise-sensitive land uses.

RIPAOZ EIR Required Noise Mitigation

Mitigation Measures MM-1 (NOI-1) and MM-2 (NOI-2) are incorporated from the RIPAOZ EIR and are required.

MM-1 (NOI-1) : Prior to grading permit issuance, the applicant or its construction contractor(s) shall implement the following and to ensure construction noise levels at community noise-sensitive receptors (e.g., residences) are compliant with City of Calimesa (City) requirements:

Construction noise reduction methods such as shutting off idling equipment, and usage of electric-driven air compressors and similar power tools in lieu of diesel-powered equipment, shall be applied where feasible.

During construction, stationary operating construction equipment shall be placed such that emitted noise is directed away from or shielded from sensitive receptors. When increased distance cannot be used to help reduce noise exposure at a sensitive receptor due to loud operation of stationary equipment, apply feasible on-site noise attenuation measures that may include temporary noise barriers (e.g., acoustical blankets or field-erected wooden walls) or the placement of on-site tanks, containers, or trailers so that direct noise source-to receptor path(s) are occluded.

During construction, stockpiling and vehicle staging areas shall be located as far as practical from noise sensitive receptors while being located on the project site or on existing developed areas.

Construction hours, allowable workdays as described in CMC 18.15.080 (A), and the phone number of the job superintendent shall be clearly posted at all construction entrances to allow surrounding property owners and residents to contact the job superintendent if necessary. In the event the City receives a complaint, appropriate response (that may include corrective actions, as warranted by investigation of the received complaint and determination of noise exceedance) shall be implemented and a report of the response and/or action provided to the reporting party in a reasonable timeframe.

During construction, turn off idling equipment. During construction, implement a noise control monitoring program to limit noise impacts as described in CMC 18.15.080(B).

MM-2 (NOI 2): The construction contractor shall require that all construction equipment be operated with original factory-installed or factory-approved noise control equipment (e.g., exhaust mufflers and silencers, intake filters, and engine shrouds as appropriate) that is properly installed and in good working order.

Enforcement shall be accomplished via field inspections by applicant or third-party personnel during construction activities to the satisfaction of the City of Calimesa Engineering Department.

Additional Recommended Noise and Vibration Reduction Measures

The following noise and vibration reduction measures were not included in the EIR, but are recommended to further reduce noise and vibration impacts.

MM-3: Implementation of mufflers on construction equipment will lower noise from construction to be within the noise thresholds set by the City.

MM-4: The construction contractor shall limit large construction equipment to operating within distances less than 30 feet of the residential property line within the construction noise mitigation plan.

MM-5: The construction contractor shall limit haul truck deliveries to the same hours specified for construction equipment (7:00 a.m. and 7:00 p.m.), thereby eliminating potential noise and vibration impact during sensitive nighttime hours.

8.0 References

City of Calimesa General Plan. August 4, 2014.
https://www.cityofcalimesa.net/DocumentCenter/View/163/Calimesa-General-Plan-PDF?bidId=

City of Calimesa Municipal Code. November 21, 2022.
https://www.codepublishing.com/CA/Calimesa/

Federal Highway Administration (FHWA) *Construction Noise Handbook* Section 9.0. Accessed at:
https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/handbook09.cfm

Federal Highway Administration (FHWA) *Construction Noise Handbook* Section 8.0. Accessed at:
https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/handbook08.cfm

Federal Highway Administration (FHWA), *Roadway Construction Noise Model* (RCNM) (2008).

Federal Transit Administration (FTA). 2018. *Transit Noise and Vibration Impact Assessment*.
https://www.transit.dot.gov/regulations-and-guidance/environmental-programs/fta-noise-and-vibrationimpact-assessment

United States Department of Transportation, FHWA Roadway Construction Noise Model. RCNM. January 2006.

Appendix A: Construction Noise & Vibration Data

Receptor - Residences along southern area

Construction Phase Equipment Item	# of Items	Item Lmax at 50 feet, dBA[1]	Edge of Site to Receptor, feet	Center of Site to Receptor, feet	Item Usage Percent[1]	Ground Factor[2]	Usage Factor	Receptor Item Lmax, dBA	Recptor. Item Leq, dBA	Muffler
SITE PREP										
Dozer	3	82	25	80	40	0.66	0.40	90.0	72.6	57.6
Tractor	4	84	25	80	40	0.66	0.40	92.0	74.6	59.6
							Log Sum	92.0	82.3	61.7
GRADE										
Grader	1	84	25	80	40	0.66	0.40	92.0	74.6	59.6
Excavator	1	81	25	80	40	0.66	0.40	89.0	71.6	56.6
Tractor	3	84	25	80	40	0.66	0.40	92.0	74.6	59.6
Dozer	1	82	25	80	40	0.66	0.40	90.0	72.6	57.6
								92.0	81.7	64.5
BUILD										
Forklift	3	79	25	80	40	0.66	0.40	87.0	69.6	54.6
Generator	1	81	25	80	50	0.66	0.50	89.0	72.6	72.6
Crane	1	81	25	80	16	0.66	0.16	89.0	67.6	52.6
Welder/Torch	1	74	25	80	40	0.66	0.40	82.0	64.6	64.6
Tractor	3	84	25	80	40	0.66	0.40	92.0	74.6	59.6
								92.0	81.5	73.5
PAVE										
Paver	2	77	25	80	50	0.66	0.50	85.0	68.6	53.6
Paving Equipment	2	83	25	80	20	0.66	0.20	91.0	70.6	70.6
Roller	2	80	25	80	20	0.66	0.20	88.0	67.6	52.6
								91.0	76.9	70.7
ARCH COAT										
Compressor (air)	1	78	25	80	40	0.66	0.40	86.0	68.6	68.6
								86.0	68.6	68.6

[1]FHWA Construction Noise Handbook: Table 9.1 RCNM Default Noise Emission Reference Levels and Usage Factors

[2]FTA Transit Noise and Vibration Impact Assesment Manual Section 7.1, 0.66 for soft ground and 0 for hard ground

VIBRATION LEVEL IMPACT

Project:	120 Unit Multi-Family Calimesa	Date: 3/11/24
Source:	Large Bulldozer	
Scenario:	Unmitigated daytime	
Location:	Project Site	
Address:	Avenue L & 5th Street Calimesa CA	

PPV = PPVref(25/D)^n (in/sec)

DATA INPUT

Equipment = Type	2	Large Bulldozer	INPUT SECTION IN BLUE
PPVref =	0.089	Reference PPV (in/sec) at 25 ft.	
D =	25.00	Distance from Equipment to Receiver (ft)	
n =	1.10	Vibration attenuation rate through the ground	

Note: Based on reference equations from Vibration Guidance Manual, California Department of Transportation, 2006, pgs 38-43.

DATA OUT RESULTS

PPV =	**0.089**	IN/SEC	OUTPUT IN RED
	87	VdB	

Appendix B: FHWA Model Output

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT:	120 Unit Multi-Family Calimesa	JOB #:	0889-23-22
ROADWAY:	5th Street	DATE:	30-Nov-23
LOCATION:	City of Calimesa - EXISTING - NOISE CONTOURS	ENGINEER:	F. Irarrazabal

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	18,300	
SPEED =	30	
PK HR % =	10	
NEAR LANE/FAR LANE DIS	25	
ROAD ELEVATION =	0.0	
GRADE =	0.0	%
PK HR VOL =	1,830	

RECEIVER INPUT DATA

RECEIVER DISTANCE =		60
DIST C/L TO WALL =		0
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		340
PAD ELEVATION =		0.0
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL:	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.755	0.140	0.105	0.9742
MEDIUM TRUCK	0.489	0.022	0.489	0.0184
HEAVY TRUCKS	0.473	0.054	0.473	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	58.76	- -
MEDIUM TRUCKS	4.0	58.69	- -
HEAVY TRUCKS	8.0	58.76	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	62.6	60.6	59.3	53.3	61.7	62.3
MEDIUM TRUCKS	56.0	52.1	44.6	53.3	59.5	59.5
HEAVY TRUCKS	57.6	53.6	50.2	54.9	61.1	61.1
NOISE LEVELS (dBA)	64.5	61.9	59.9	58.6	65.6	65.9

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	62.6	60.6	59.3	53.3	61.7	62.3
MEDIUM TRUCKS	56.0	52.1	44.6	53.3	59.5	59.5
HEAVY TRUCKS	57.6	53.6	50.2	54.9	61.1	61.1
NOISE LEVELS (dBA)	64.5	61.9	59.9	58.6	65.6	65.9

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	32	69	149	320
LDN	31	66	142	305

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT:	120 Unit Multi-Family Calimesa	JOB #:	0889-23-22
ROADWAY:	Avenue L	DATE:	30-Nov-23
LOCATION:	City of Calimesa - EXISTING - NOISE CONTOURS	ENGINEER:	F. Irarrazabal

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	18,300	
SPEED =	35	
PK HR % =	10	
NEAR LANE/FAR LANE DIS	25	
ROAD ELEVATION =	0.0	
GRADE =	0.0	%
PK HR VOL =	1,830	

RECEIVER INPUT DATA

RECEIVER DISTANCE =		60
DIST C/L TO WALL =		0
RECEIVER HEIGHT =		5.0
WALL DISTANCE FROM RECEIVER		340
PAD ELEVATION =		0.0
ROADWAY VIEW:	LF ANGLE=	-90
	RT ANGLE=	90
	DF ANGLE=	180

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL:	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.755	0.140	0.105	0.9742
MEDIUM TRUCK	0.489	0.022	0.489	0.0184
HEAVY TRUCKS	0.473	0.054	0.473	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	58.76	- -
MEDIUM TRUCKS	4.0	58.69	- -
HEAVY TRUCKS	8.0	58.76	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	64.5	62.5	61.2	55.2	63.6	64.2
MEDIUM TRUCKS	57.0	53.1	45.7	54.4	60.5	60.6
HEAVY TRUCKS	58.3	54.2	50.8	55.5	61.7	61.8
NOISE LEVELS (dBA)	66.0	63.5	61.7	59.8	66.9	67.2

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	64.5	62.5	61.2	55.2	63.6	64.2
MEDIUM TRUCKS	57.0	53.1	45.7	54.4	60.5	60.6
HEAVY TRUCKS	58.3	54.2	50.8	55.5	61.7	61.8
NOISE LEVELS (dBA)	66.0	63.5	61.7	59.8	66.9	67.2

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	39	85	182	392
LDN	37	80	173	372

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT:	120 Unit Multi-Family Calimesa	JOB #:	0889-23-22
ROADWAY:	5th Street	DATE:	30-Nov-23
LOCATION:	City of Calimesa - EXISTING + PROJECT - NOISE CONTOURS	ENGINEER:	F. Irarrazabal

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	18,997	
SPEED =	30	
PK HR % =	10	
NEAR LANE/FAR LANE DIS	25	
ROAD ELEVATION =	0.0	
GRADE =	0.0	%
PK HR VOL =	1,900	

RECEIVER INPUT DATA

RECEIVER DISTANCE =	60	
DIST C/L TO WALL =	0	
RECEIVER HEIGHT =	5.0	
WALL DISTANCE FROM RECEIVER	340	
PAD ELEVATION =	0.0	
ROADWAY VIEW: LF ANGLE=	-90	
RT ANGLE=	90	
DF ANGLE=	180	

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL:	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.755	0.140	0.105	0.9742
MEDIUM TRUCK	0.489	0.022	0.489	0.0184
HEAVY TRUCKS	0.473	0.054	0.473	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	58.76	- -
MEDIUM TRUCKS	4.0	58.69	- -
HEAVY TRUCKS	8.0	58.76	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	62.8	60.7	59.4	53.4	61.8	62.5
MEDIUM TRUCKS	56.1	52.2	44.8	53.5	59.6	59.7
HEAVY TRUCKS	57.8	53.8	50.4	55.0	61.2	61.3
NOISE LEVELS (dBA)	64.6	62.0	60.1	58.8	65.8	66.1

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	62.8	60.7	59.4	53.4	61.8	62.5
MEDIUM TRUCKS	56.1	52.2	44.8	53.5	59.6	59.7
HEAVY TRUCKS	57.8	53.8	50.4	55.0	61.2	61.3
NOISE LEVELS (dBA)	64.6	62.0	60.1	58.8	65.8	66.1

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	33	71	152	328
LDN	31	67	145	313

FHWA-RD-77-108 HIGHWAY NOISE PREDICTION MODEL

PROJECT:	120 Unit Multi-Family Calimesa	JOB #:	0889-23-22
ROADWAY:	Avenue L	DATE:	30-Nov-23
LOCATION:	City of Calimesa - EXISTING + PROJECT - NOISE CONTOURS	ENGINEER:	F. Irarrazabal

NOISE INPUT DATA

ROADWAY CONDITIONS

ADT =	18,997	
SPEED =	35	
PK HR % =	10	
NEAR LANE/FAR LANE DIS	25	
ROAD ELEVATION =	0.0	
GRADE =	0.0	%
PK HR VOL =	1,900	

RECEIVER INPUT DATA

RECEIVER DISTANCE =	60	
DIST C/L TO WALL =	0	
RECEIVER HEIGHT =	5.0	
WALL DISTANCE FROM RECEIVER	340	
PAD ELEVATION =	0.0	
ROADWAY VIEW: LF ANGLE=	-90	
RT ANGLE=	90	
DF ANGLE=	180	

SITE CONDITIONS

AUTOMOBILES =	15	
MEDIUM TRUCKS =	15	(10 = HARD SITE, 15 = SOFT SITE)
HEAVY TRUCKS =	15	

WALL INFORMATION

HTH WALL:	0.0	
AMBIENT=	0.0	
BARRIER =	0	(0 = WALL, 1 = BERM)

VEHICLE MIX DATA

VEHICLE TYPE	DAY	EVENING	NIGHT	DAILY
AUTOMOBILES	0.755	0.140	0.105	0.9742
MEDIUM TRUCK	0.489	0.022	0.489	0.0184
HEAVY TRUCKS	0.473	0.054	0.473	0.0074

MISC. VEHICLE INFO

VEHICLE TYPE	HEIGHT	SLE DISTANCE	GRADE ADJUSTMENT
AUTOMOBILES	2.0	58.76	- -
MEDIUM TRUCKS	4.0	58.69	- -
HEAVY TRUCKS	8.0	58.76	0.00

NOISE OUTPUT DATA

NOISE IMPACTS (WITHOUT TOPO OR BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	64.7	62.7	61.4	55.3	63.8	64.4
MEDIUM TRUCKS	57.2	53.3	45.8	54.5	60.7	60.7
HEAVY TRUCKS	58.4	54.4	51.0	55.6	61.8	61.9
NOISE LEVELS (dBA)	66.2	63.7	61.9	60.0	67.1	67.4

NOISE IMPACTS (WITH TOPO AND BARRIER SHIELDING)

VEHICLE TYPE	PK HR LEQ	DAY LEQ	EVEN LEQ	NIGHT LEQ	LDN	CNEL
AUTOMOBILES	64.7	62.7	61.4	55.3	63.8	64.4
MEDIUM TRUCKS	57.2	53.3	45.8	54.5	60.7	60.7
HEAVY TRUCKS	58.4	54.4	51.0	55.6	61.8	61.9
NOISE LEVELS (dBA)	66.2	63.7	61.9	60.0	67.1	67.4

NOISE CONTOUR (FT)				
NOISE LEVELS	70 dBA	65 dBA	60 dBA	55 dBA
CNEL	40	87	187	402
LDN	38	82	177	382

Appendix C: SoundPLAN Input

120 Unit Multi-Family Calimesa Noise
Octave spectra of the sources in dB(A) - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9

120 Unit Multi-Family Calimesa Noise
Octave spectra of the sources in dB(A) - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9

120 Unit Multi-Family Calimesa Noise
Octave spectra of the sources in dB(A) - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9

120 Unit Multi-Family Calimesa Noise
Octave spectra of the sources in dB(A) - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9

120 Unit Multi-Family Calimesa Noise
Octave spectra of the sources in dB(A) - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9

120 Unit Multi-Family Calimesa Noise
Octave spectra of the sources in dB(A) - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9

120 Unit Multi-Family Calimesa Noise
Octave spectra of the sources in dB(A) - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9

120 Unit Multi-Family Calimesa Noise
Octave spectra of the sources in dB(A) - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Name	Source type	l or A	Li	R'w	L'w	Lw	KI	KT	LwMax	DO-Wall	Time histogram	Emission spectrum	63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz	16kHz
		m,m²	dB(A)	dB	dB(A)	dB(A)	dB	dB	dB(A)	dB			dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9
HVAC	Point				74.9	74.9	0.0	0.0		0	100%/24h	HVAC: 67.7dB @ 3ft - Carrier 50TFQ0006 -	52.0	60.5	62.9	67.2	69.5	69.1	66.1	61.2	48.9

120 Unit Multi-Family Calimesa Noise
Contribution spectra - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz	12.5kHz	16kHz	20kHz	
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	
Receiver 11495070,3761836 Fl G Lr,lim dB(A) Leq,d 34.3 dB(A)																																
Leq,d	12.8	-36.5	-30.6	-26.7	-13.9	-9.1	-15.3	-7.6	-6.0	-7.4	-5.8	-3.0	-1.5	-1.0	-0.5	2.8	6.0	1.2	3.8	4.2	1.0	0.5	-4.5	-6.2	-12.0	-17.5	-30.2	-46.0	-62.7	-86.0		
Leq,d	0.9	-39.6	-34.3	-31.2	-19.1	-15.0	-21.9	-14.8	-13.7	-15.7	-14.7	-12.9	-11.9	-11.9	-11.9	-9.0	-6.8	-11.9	-10.3	-10.2	-13.1	-12.9	-17.1	-11.6	-17.3	-22.6	-35.1	-50.5	-66.8	-89.6		
Leq,d	0.7	-39.5	-34.3	-31.1	-19.0	-14.9	-21.8	-14.7	-13.7	-15.7	-14.6	-12.8	-11.8	-11.9	-11.8	-8.9	-6.7	-11.9	-10.2	-10.1	-13.1	-12.9	-17.1	-18.0	-22.9	-27.5	-39.3	-54.2	-69.9	-92.3		
Leq,d	10.0	-36.6	-30.6	-26.8	-13.9	-9.2	-15.4	-7.6	-6.0	-7.4	-5.9	-4.3	-3.0	-2.7	-2.4	0.8	3.0	-2.0	-0.1	0.0	-3.4	-4.0	-9.2	-11.1	-17.0	-22.6	-34.0	-49.8	-66.4	-89.6		
Leq,d	8.7	-37.1	-31.4	-27.7	-15.1	-10.7	-17.2	-9.7	-8.4	-10.1	-8.8	-5.8	-4.5	-4.3	-4.0	-0.9	2.0	-3.0	-0.8	-0.6	-4.1	-4.8	-10.1	-12.0	-18.1	-23.8	-36.6	-52.0	-69.3	-93.2		
Leq,d	6.7	-37.2	-31.5	-27.9	-15.4	-11.0	-17.7	-10.3	-9.1	-10.9	-9.7	-7.0	-5.9	-5.8	-5.6	-2.6	0.1	-4.9	-4.1	-3.9	-7.4	-8.2	-13.4	-15.3	-21.3	-27.0	-39.6	-55.4	-72.0	-94.3		
Leq,d	9.4	-36.9	-31.1	-27.4	-14.8	-10.4	-16.9	-9.4	-8.1	-9.9	-8.6	-5.5	-4.2	-4.0	-3.7	-0.6	2.7	-2.3	0.0	0.5	-2.9	-3.6	-8.8	-10.6	-16.6	-22.2	-35.1	-51.1	-68.0	-91.6		
Leq,d	0.8	-39.5	-34.2	-31.1	-19.0	-14.9	-21.8	-14.6	-13.6	-15.6	-14.6	-12.8	-11.8	-11.8	-11.8	-8.9	-6.7	-11.8	-10.1	-10.0	-13.1	-12.9	-17.1	-18.0	-22.9	-27.5	-39.3	-54.2	-69.9	-92.3		
Leq,d	5.0	-37.6	-32.3	-29.2	-17.1	-13.0	-19.9	-12.8	-11.8	-13.8	-12.8	-10.9	-10.0	-9.9	-9.9	-7.0	-4.8	-4.2	-3.3	-3.2	-6.5	-6.8	-10.2	-11.5	-16.7	-21.2	-32.6	-46.5	-60.6	-80.3		
Leq,d	4.0	-36.1	-30.9	-27.8	-15.7	-11.7	-18.6	-11.5	-10.5	-12.5	-11.5	-9.7	-8.7	-8.7	-8.7	-5.8	-3.5	-8.6	-6.9	-6.8	-9.8	-9.3	-13.2	-13.6	-16.0	-19.4	-29.6	-42.1	-54.4	-71.9	-94.4	
Leq,d	3.9	-36.2	-31.0	-28.0	-15.9	-11.9	-18.8	-11.7	-10.7	-12.7	-11.7	-9.9	-8.9	-8.9	-8.9	-6.0	-3.8	-8.9	-7.1	-7.0	-9.8	-9.4	-13.3	-13.6	-14.2	-15.9	-26.6	-39.5	-52.1	-69.9	-92.8	
Leq,d	5.0	-37.5	-32.3	-29.2	-17.0	-13.0	-19.9	-12.8	-11.7	-13.7	-12.7	-10.9	-9.9	-9.9	-9.9	-7.0	-4.7	-9.9	-2.6	-2.5	-5.8	-6.1	-10.8	-10.8	-16.0	-20.5	-31.8	-45.6	-59.5	-79.1		
Leq,d	2.8	-37.4	-32.2	-29.1	-17.0	-12.9	-19.8	-12.7	-11.7	-13.7	-12.7	-10.9	-9.9	-9.9	-9.8	-6.9	-4.7	-9.8	-8.1	-8.0	-11.1	-10.7	-14.7	-15.3	-19.7	-23.4	-33.9	-47.0	-60.4	-79.4		
Leq,d	2.7	-37.5	-32.2	-29.1	-17.0	-12.9	-19.9	-12.7	-11.7	-13.7	-12.7	-10.9	-9.9	-9.9	-9.9	-6.9	-4.7	-9.8	-8.1	-8.0	-11.1	-10.7	-14.8	-15.3	-19.7	-23.5	-34.0	-47.2	-60.1	-79.4		
Leq,d	2.6	-37.6	-32.4	-29.2	-17.2	-13.1	-20.0	-12.9	-11.9	-13.9	-12.9	-11.1	-10.1	-10.1	-10.1	-7.1	-4.9	-10.1	-8.4	-8.2	-11.2	-10.8	-14.8	-15.4	-19.8	-18.6	-30.0	-44.0	-58.1	-78.0		
Leq,d	8.8	-34.7	-29.0	-25.5	-13.0	-8.6	-15.3	-7.9	-6.7	-8.5	-7.3	-8.1	-3.7	-3.6	-3.4	-0.4	0.5	-1.9	-1.0	-0.8	-4.2	-4.8	-9.8	-9.4	-14.7	-19.3	-30.6	-44.1	-57.3	-75.8	-99.7	
Leq,d	9.9	-34.3	-28.5	-24.8	-12.2	-7.8	-14.4	-7.0	-5.7	-7.5	-6.2	-7.0	-2.1	-1.9	-1.7	1.4	2.4	-1.9	-0.9	-0.7	-4.1	-4.6	-9.5	-10.9	-14.3	-17.3	-28.5	-41.9	-55.2	-73.9	-98.0	
Leq,d	10.9	-34.1	-28.3	-24.7	-12.1	-7.6	-14.2	-6.8	-5.5	-7.3	-6.1	-3.2	-1.9	-1.7	-1.5	1.6	4.4	-0.5	0.4	0.7	-2.7	-3.1	-8.0	-9.4	-14.6	-18.9	-29.2	-42.4	-55.4	-73.9	-97.4	
Leq,d	8.7	-34.8	-29.1	-25.4	-12.9	-8.4	-15.0	-7.6	-6.3	-8.1	-6.8	-7.6	-3.0	-2.9	-2.7	0.3	1.3	-3.8	-2.8	-2.6	-6.0	-5.0	-8.9	-10.4	-15.7	-20.3	-31.6	-45.2	-58.7	-77.4		
Leq,d	12.2	-31.8	-26.0	-22.2	-9.6	-5.1	-11.7	-4.3	-3.0	-4.8	-3.6	-4.4	0.4	0.6	0.8	3.9	4.9	-0.1	0.9	1.1	-2.1	-2.5	-7.2	-5.3	-10.0	-13.6	-23.5	-35.1	-45.8	-61.1	-80.6	
Leq,d	15.1	-31.4	-25.5	-21.6	-8.8	-4.0	-10.2	-2.4	-0.8	-2.2	-0.6	1.1	2.4	2.7	3.0	6.2	8.2	3.3	4.3	4.6	1.4	1.1	-3.6	-4.6	-9.2	-8.6	-18.3	-29.8	-40.3	-55.3	-74.5	
Leq,d	17.6	-31.3	-25.3	-21.5	-8.6	-3.8	-10.0	-2.3	-0.6	-2.1	-0.5	2.3	3.8	4.3	4.8	8.1	11.1	6.4	7.6	8.0	4.9	4.7	0.2	-0.7	-5.2	-8.7	-18.4	-29.6	-38.8	-53.7	-72.9	
Leq,d	13.4	-33.9	-28.1	-24.3	-11.7	-7.1	-13.7	-6.3	-5.2	-7.1	-6.0	-3.2	-2.1	-1.9	-1.8	1.3	7.9	3.1	4.2	4.5	1.3	0.9	-3.9	-5.3	-10.4	-14.6	-25.7	-39.0	-52.2	-70.2	-93.9	
Leq,d	10.3	-35.2	-29.4	-25.8	-13.2	-8.8	-15.5	-8.1	-7.0	-8.8	-7.7	-5.0	-3.8	-3.7	-3.5	-0.5	2.3	0.4	1.4	1.6	-1.7	-2.3	-7.3	-8.9	-14.5	-19.4	-31.2	-45.5	-59.0	-79.3		
Leq,d	14.5	-34.9	-29.0	-25.1	-12.3	-7.5	-13.7	-6.0	-4.4	-5.8	-4.3	-1.5	0.0	0.5	1.0	4.3	7.4	2.7	5.7	6.1	2.9	2.5	-2.4	-3.8	-9.2	-14.0	-25.6	-39.7	-54.1	-74.3	-99.2	
Leq,d	14.5	-34.8	-28.9	-25.0	-12.2	-7.4	-13.7	-5.9	-4.3	-5.8	-4.2	-1.4	0.1	0.6	1.0	4.3	7.5	2.7	5.6	6.0	2.8	2.4	-2.4	-3.8	-9.2	-13.9	-25.4	-39.4	-53.6	-73.6	-99.2	
Leq,d	7.8	-35.6	-29.9	-26.3	-13.8	-9.5	-16.2	-8.9	-7.7	-9.5	-8.3	-5.8	-4.7	-4.5	-4.4	-1.4	1.1	-3.9	-3.0	-2.9	-6.3	-6.9	-11.9	-13.5	-19.0	-23.8	-33.3	-47.5	-61.6	-81.3		
Leq,d	15.8	-33.7	-27.8	-24.0	-11.1	-6.4	-12.6	-4.8	-3.2	-4.7	-3.1	-0.4	1.1	1.6	2.0	5.3	8.4	4.9	7.0	7.3	4.2	3.8	-0.9	-2.2	-7.2	-11.5	-22.5	-35.5	-48.4	-66.6	-89.9	
Leq,d	7.7	-36.0	-30.3	-26.7	-14.2	-9.8	-16.5	-9.1	-7.8	-9.7	-8.4	-9.2	-4.8	-4.6	-4.5	-1.5	-0.6	-5.7	-2.0	-1.6	-4.7	-5.4	-10.6	-10.8	-16.5	-21.7	-33.7	-48.3	-63.2	-83.6		
Leq,d	8.8	-35.5	-29.8	-26.1	-13.6	-9.1	-15.7	-8.3	-7.0	-8.7	-7.5	-8.2	-3.4	-3.2	-3.0	0.1	1.0	-4.0	-1.2	-1.0	-4.4	-5.1	-10.1	-11.8	-16.0	-19.9	-31.9	-46.4	-61.3	-82.0		
Leq,d	20.0	-21.1	-15.3	-11.6	1.0	5.5	-1.1	6.8	7.9	5.8	6.1	4.9	8.2	8.0	7.8	10.6	11.6	6.5	7.4	7.5	4.4	4.3	1.4	2.3	-0.2	-0.9	-7.1	-13.7	-17.9	-25.0	-34.7	
Leq,d	19.6	-21.9	-16.1	-12.3	0.3	4.8	-1.7	6.1	7.2	5.1	5.5	4.3	5.1	7.3	7.2	10.1	11.0	6.0	8.3	9.2	6.1	6.0	1.7	1.5	-1.2	-2.0	-8.3	-15.1	-19.6	-26.9	-37.0	
Leq,d	19.2	-22.9	-17.0	-13.3	-0.6	3.9	-2.6	5.1	6.2	4.2	4.6	3.5	4.3	4.2	6.5	9.4	11.8	6.7	7.7	8.6	6.2	6.1	1.8	1.5	-1.8	-2.8	-9.2	-16.2	-21.1	-28.8	-39.5	
Leq,d	21.0	-20.6	-14.8	-11.1	1.5	5.9	-0.6	7.3	8.3	6.2	6.5	7.9	8.6	8.3	8.1	10.9	13.0	8.6	9.5	9.6	6.5	6.4	2.3	2.8	0.4	-0.3	-6.4	-12.9	-17.1	-23.9	-33.4	
Leq,d	13.3	-26.1	-20.5	-17.1	-4.8	-0.7	-7.7	-0.5	0.3	-1.9	-1.3	-2.3	1.3	1.2	1.2	4.2	5.2	0.1	1.1	1.2	-1.9	-1.7	-5.1	-3.3	-5.4	-6.6	-13.4	-21.1	-26.8	-35.8	-47.9	

120 Unit Multi-Family Calimesa Noise
Contribution spectra - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz	12.5kHz	16kHz	20kHz
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Leq,d	13.4	-26.5	-20.8	-17.4	-5.0	-0.9	-7.9	-0.7	0.2	-2.0	-1.3	-2.3	1.2	1.2	1.2	4.2	5.1	0.1	1.1	1.2	-0.6	0.1	-3.7	-3.2	-6.0	-7.3	-14.3	-22.1	-28.0	-37.3	-49.8
Leq,d	13.0	-27.1	-21.5	-18.0	-5.7	-1.6	-8.6	-1.4	-0.6	-2.7	-1.9	-2.9	-2.0	0.5	0.5	3.5	4.5	-0.6	2.6	2.8	-0.4	-0.6	-4.4	-3.9	-6.8	-8.2	-15.3	-23.4	-29.6	-39.3	-52.3
Leq,d	18.1	-24.0	-18.2	-14.5	-1.8	2.7	-3.8	3.8	4.9	2.8	3.4	2.4	3.2	3.1	5.7	8.6	9.6	6.0	7.9	8.0	4.9	4.8	0.5	0.1	-3.5	-5.0	-11.6	-18.9	-24.1	-32.4	-43.8
Leq,d	7.4	-39.0	-33.2	-29.6	-17.0	-12.5	-19.0	-11.5	-10.1	-11.9	-10.6	-7.4	-6.1	-5.9	-5.6	-2.5	0.8	-4.1	-1.9	-1.7	-5.2	-6.1	-11.6	-13.9	-20.7	-27.5	-42.1	-60.8	-81.3		
Leq,d	4.9	-39.4	-33.7	-30.2	-17.7	-13.3	-19.9	-12.5	-11.2	-13.1	-11.8	-9.1	-8.0	-7.8	-7.7	-4.7	-1.9	-7.0	-5.0	-5.0	-8.6	-9.5	-15.1	-17.6	-24.5	-31.4	-46.2	-65.0	-85.9		
Leq,d	4.5	-39.7	-34.0	-30.5	-18.0	-13.6	-20.2	-12.8	-11.5	-13.3	-12.1	-9.4	-8.3	-8.1	-8.0	-5.0	-2.2	-7.3	-5.3	-5.3	-8.9	-9.9	-15.6	-18.1	-25.1	-32.3	-47.3	-66.5	-87.9		
Leq,d	7.5	-38.7	-33.0	-29.3	-16.7	-12.2	-18.7	-11.3	-9.9	-11.7	-10.4	-7.3	-6.0	-5.8	-5.6	-2.5	0.8	-4.2	-1.9	-1.7	-5.2	-6.1	-11.5	-13.8	-20.4	-27.0	-41.4	-59.0	-79.1		
Leq,d	7.9	-37.8	-32.1	-28.4	-15.8	-11.3	-17.9	-10.4	-9.1	-10.8	-9.5	-6.4	-5.2	-4.9	-4.7	-1.6	1.6	-3.4	-2.5	-2.3	-4.9	-5.7	-11.0	-13.1	-19.4	-25.5	-39.1	-56.1	-74.4	-99.7	
Leq,d	6.7	-38.0	-32.2	-28.5	-15.9	-11.5	-18.1	-10.7	-9.5	-11.3	-10.1	-7.2	-6.0	-5.9	-5.7	-2.6	0.4	-4.7	-3.8	-3.7	-7.2	-8.0	-13.4	-15.5	-21.9	-26.7	-40.7	-58.1	-77.0		
Leq,d	6.9	-38.3	-32.5	-28.8	-16.3	-11.8	-18.4	-11.1	-9.8	-11.6	-10.4	-7.5	-6.3	-6.2	-6.0	-2.9	0.1	-4.9	-2.5	-2.4	-5.9	-6.7	-12.2	-14.4	-20.9	-27.3	-40.4	-58.3	-77.7		
Leq,d	10.8	-33.3	-28.1	-25.0	-13.0	-9.0	-16.1	-9.0	-8.1	-10.1	-9.1	-7.3	-6.3	-6.3	-6.3	3.3	4.6	-0.5	0.7	0.9	-2.2	-1.2	-5.6	-5.9	-10.2	-12.9	-22.3	-33.3	-43.2	-57.5	-76.0
Leq,d	6.7	-33.3	-28.0	-24.9	-12.8	-8.9	-15.9	-8.8	-7.9	-9.9	-8.9	-7.1	-6.1	-6.1	-6.1	-3.1	-0.9	-5.9	-4.2	-4.0	-7.1	-6.5	-10.2	-10.2	-13.8	-16.3	-25.0	-35.4	-44.9	-58.9	-77.3
Leq,d	6.4	-33.4	-28.1	-25.0	-13.0	-9.0	-16.0	-9.0	-8.0	-10.0	-9.0	-7.2	-6.2	-6.2	-6.2	-3.2	-1.0	-6.1	-5.2	-5.0	-8.0	-7.4	-11.1	-11.1	-14.7	-17.3	-25.8	-36.3	-45.9	-59.4	-78.0
Leq,d	11.8	-33.2	-27.9	-24.9	-12.8	-8.9	-15.9	-8.9	-7.9	-10.0	-8.9	-7.2	-6.2	-6.2	-6.1	-3.2	-0.9	3.2	4.4	4.7	1.6	1.5	-1.6	-2.4	-6.8	-10.1	-19.5	-30.6	-40.8	-55.3	-74.0
Leq,d	6.2	-36.3	-31.1	-28.0	-15.9	-11.9	-18.9	-11.8	-10.8	-12.8	-11.7	-10.0	-9.0	-9.0	-9.0	-6.0	-3.8	-5.1	-1.7	-1.5	-4.7	-4.9	-9.4	-9.3	-14.1	-18.1	-28.6	-41.4	-53.8	-71.5	-94.3
Leq,d	6.4	-36.2	-31.0	-27.9	-15.8	-11.8	-18.7	-11.6	-10.6	-12.6	-11.6	-9.8	-8.8	-8.8	-8.7	-5.8	-3.6	-3.0	-1.9	-1.7	-5.0	-5.2	-8.5	-9.5	-14.4	-18.1	-28.8	-41.7	-54.2	-72.0	-95.0
Leq,d	3.6	-36.4	-31.1	-28.0	-15.9	-11.9	-18.8	-11.7	-10.7	-12.7	-11.7	-9.8	-8.9	-8.8	-8.8	-5.9	-3.7	-8.8	-7.9	-7.8	-10.9	-10.4	-14.3	-14.7	-18.9	-21.8	-32.0	-44.4	-56.6	-73.5	-96.4
Leq,d	5.8	-33.5	-28.2	-25.0	-13.0	-9.0	-15.9	-8.9	-7.9	-9.9	-8.9	-7.1	-6.1	-6.1	-6.0	-3.1	-2.2	-7.3	-6.4	-6.2	-9.3	-8.9	-12.6	-12.6	-16.2	-18.8	-26.4	-37.0	-46.8	-61.2	-80.0
Leq,d	7.4	-31.7	-26.3	-23.2	-11.1	-7.2	-14.2	-7.2	-6.3	-8.3	-7.3	-8.3	-4.6	-4.6	-4.6	-1.6	-0.7	-5.8	-4.8	-4.7	-7.7	-7.0	-10.6	-9.2	-11.8	-14.0	-22.2	-31.8	-40.2	-52.8	-69.5
Leq,d	14.6	-25.5	-19.9	-16.5	-4.2	-0.1	-7.1	0.1	0.9	-1.3	-0.8	0.8	1.7	1.7	1.6	4.6	6.9	1.8	3.6	3.7	0.6	0.8	-2.5	-2.0	-4.7	-5.9	-12.6	-20.1	-25.2	-34.0	-45.1
Leq,d	14.4	-25.7	-20.1	-16.7	-4.3	-0.2	-7.2	0.0	0.8	-1.4	-0.9	0.8	1.7	1.6	1.6	4.6	6.9	1.8	2.8	2.9	-0.2	-0.1	-3.5	-2.9	-5.7	-6.9	-12.8	-20.6	-26.3	-34.6	-46.6
Leq,d	8.5	-31.3	-26.0	-22.8	-10.7	-6.8	-13.8	-6.8	-5.9	-7.9	-6.9	-5.1	-4.1	-4.1	-4.1	-1.1	1.1	-4.0	-3.0	-2.9	-6.0	-5.5	-9.1	-8.9	-12.2	-14.3	-21.7	-31.2	-39.4	-51.8	-68.2
Leq,d	13.2	-31.0	-25.7	-22.5	-10.5	-6.6	-13.6	-6.6	-5.7	-7.8	-6.8	-5.1	-4.1	-4.1	-4.0	5.5	7.0	2.1	3.5	3.8	0.7	0.7	-3.5	-3.9	-7.8	-10.3	-18.9	-28.7	-37.1	-49.3	-65.5
Leq,d	8.6	-31.2	-25.9	-22.7	-10.7	-6.8	-13.8	-6.9	-6.0	-8.0	-7.0	-5.3	-4.3	-4.3	-4.3	-1.3	0.9	-4.1	-2.4	-2.2	-5.1	-4.4	-8.0	-7.8	-11.1	-11.5	-20.1	-29.9	-38.3	-50.5	-66.5
Leq,d	8.5	-31.2	-25.8	-22.7	-10.6	-6.7	-13.7	-6.8	-5.8	-7.9	-6.9	-5.1	-4.1	-4.1	-4.1	-1.1	1.2	-3.9	-3.0	-2.8	-5.8	-5.3	-8.9	-8.7	-12.0	-14.0	-22.0	-31.4	-39.5	-51.6	-67.2
Leq,d	8.4	-37.0	-31.2	-27.6	-15.1	-10.6	-17.1	-9.7	-8.4	-10.1	-8.9	-5.8	-4.6	-4.4	-4.2	-1.1	2.0	-2.9	-2.0	-1.8	-5.2	-5.9	-11.2	-13.0	-19.0	-24.6	-37.5	-53.4	-70.2	-93.6	
Leq,d	9.9	-36.8	-31.0	-27.3	-14.7	-10.2	-16.7	-9.3	-8.0	-9.7	-8.4	-5.2	-3.9	-3.7	-3.4	-0.3	3.2	-1.7	0.8	1.1	-2.3	-2.9	-8.0	-9.9	-15.8	-21.4	-34.2	-50.2	-67.1	-90.6	
Leq,d	8.9	-36.7	-30.8	-27.2	-14.5	-10.1	-16.7	-9.3	-8.1	-9.9	-8.7	-5.8	-4.5	-4.3	-4.2	-1.1	2.1	-2.9	-0.5	-0.3	-3.7	-4.4	-9.6	-11.4	-17.3	-22.9	-35.7	-51.6	-68.3	-91.5	
Leq,d	7.7	-37.2	-31.5	-27.9	-15.3	-10.9	-17.4	-10.0	-8.7	-10.5	-9.3	-6.3	-5.0	-4.8	-4.7	-1.6	1.4	-3.7	-2.7	-2.6	-6.0	-6.8	-12.0	-13.9	-19.9	-25.6	-38.5	-54.4	-70.3	-93.9	
Leq,d	8.3	-38.2	-32.4	-28.7	-16.1	-11.6	-18.1	-10.6	-9.3	-11.1	-9.8	-6.5	-5.2	-5.0	-4.7	-1.6	1.6	-3.4	-0.9	-0.7	-4.2	-4.9	-10.3	-12.5	-18.9	-25.3	-39.3	-57.0	-76.2		
Leq,d	12.0	-37.9	-31.9	-28.1	-15.2	-10.4	-16.6	-8.9	-7.2	-8.7	-7.1	-4.2	-2.6	-2.1	-1.6	1.8	5.1	0.4	3.1	3.6	0.4	-0.1	-5.2	-7.1	-13.4	-19.5	-33.4	-50.9	-70.0	-96.6	
Leq,d	5.9	-37.5	-31.8	-28.3	-15.9	-11.5	-18.1	-10.8	-9.6	-11.4	-10.2	-7.7	-6.6	-6.4	-6.3	-3.3	-0.8	-5.9	-5.0	-4.9	-8.4	-9.1	-14.4	-16.4	-22.4	-28.0	-38.8	-54.8	-71.5	-94.8	
Leq,d	13.4	-36.4	-30.5	-26.6	-13.8	-9.0	-15.2	-7.4	-5.8	-7.2	-5.6	-2.8	-1.2	-0.7	-0.2	3.1	6.5	1.8	4.4	4.9	1.8	1.4	-3.5	-5.1	-10.9	-16.2	-28.9	-44.7	-61.3	-84.6	
Leq,d	14.2	-35.6	-29.6	-25.8	-12.9	-8.2	-14.4	-6.6	-5.0	-6.4	-4.8	-2.0	-0.4	0.1	0.6	4.0	7.3	2.6	5.2	5.7	2.6	2.3	-2.6	-4.1	-9.5	-14.5	-26.6	-41.4	-56.7	-78.2	
Leq,d	14.3	-35.5	-29.6	-25.7	-12.9	-8.1	-14.3	-6.5	-4.9	-6.3	-4.8	-1.9	-0.4	0.2	0.6	4.0	7.3	2.6	5.3	5.8	2.7	2.3	-2.5	-3.9	-9.4	-14.3	-26.4	-41.1	-56.4	-77.8	
Leq,d	9.7	-34.4	-28.6	-24.9	-12.3	-7.8	-14.3	-6.9	-5.6	-7.4	-6.2	-6.9	-2.1	-1.9	-1.7	1.4	2.3	-2.6	-1.7	-1.5	-4.8	-5.3	-10.3	-8.1	-13.4	-17.9	-29.1	-42.7	-56.3	-75.3	-99.7

120 Unit Multi-Family Calimesa Noise
Contribution spectra - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz	12.5kHz	16kHz	20kHz	
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	
Leq,d	9.7	-35.9	-30.1	-26.4	-13.8	-9.3	-15.9	-8.6	-7.4	-9.2	-8.0	-5.2	-4.0	-3.8	-3.7	-0.6	2.4	-2.6	0.7	0.9	-2.5	-3.1	-8.2	-9.9	-15.6	-20.9	-33.2	-48.1	-63.6	-85.2		
Leq,d	8.4	-36.3	-30.6	-27.0	-14.4	-10.0	-16.5	-9.1	-7.8	-9.6	-8.4	-5.4	-4.2	-4.0	-3.9	-0.8	1.9	-3.1	-2.1	-2.0	-5.4	-6.1	-11.2	-12.9	-18.7	-21.5	-33.9	-49.1	-65.0	-87.1		
Leq,d	7.0	-36.4	-30.7	-27.2	-14.7	-10.4	-17.1	-9.7	-8.5	-10.4	-9.2	-6.7	-5.5	-5.4	-5.3	-2.3	0.3	-4.8	-3.9	-3.8	-7.2	-7.9	-13.0	-14.7	-20.4	-25.6	-37.5	-51.4	-66.5	-87.7		
Leq,d	9.2	-36.1	-30.3	-26.7	-14.2	-9.7	-16.3	-8.8	-7.6	-9.3	-8.1	-5.0	-3.7	-3.5	-3.3	-0.2	2.9	-2.1	-1.2	-1.0	-4.4	-5.0	-10.1	-11.8	-17.4	-22.6	-34.9	-49.8	-65.2	-85.8		
Leq,d	6.7	-40.0	-34.2	-30.6	-18.0	-13.5	-20.1	-12.7	-11.4	-13.2	-11.9	-8.8	-7.6	-7.4	-7.2	-4.1	0.0	-4.9	-1.9	-1.6	-5.1	-6.0	-11.6	-14.3	-21.4	-29.0	-44.9	-65.2	-88.3			
Leq,d	5.7	-39.4	-33.7	-30.1	-17.5	-13.0	-19.5	-12.1	-10.8	-12.5	-11.3	-8.3	-7.1	-6.9	-6.7	-3.6	-0.6	-5.7	-4.8	-4.7	-8.3	-9.2	-14.8	-17.3	-24.1	-31.0	-45.9	-64.6	-85.4			
Leq,d	5.8	-39.3	-33.6	-30.0	-17.5	-13.1	-19.7	-12.2	-11.0	-12.8	-11.5	-8.7	-7.5	-7.4	-7.2	-4.2	-1.2	-6.3	-4.2	-2.8	-6.4	-7.3	-12.9	-15.4	-22.3	-29.3	-44.2	-63.1	-84.0			
Leq,d	6.3	-40.2	-34.4	-30.8	-18.2	-13.6	-20.1	-12.7	-11.3	-13.0	-11.8	-8.5	-7.2	-7.0	-6.7	-3.6	-0.3	-5.3	-2.8	-2.7	-6.3	-7.2	-12.9	-15.6	-22.9	-30.5	-46.4	-66.8	-89.9			
Leq,d	4.5	-40.6	-34.9	-31.3	-18.8	-14.3	-20.9	-13.5	-12.2	-14.0	-12.7	-9.9	-8.8	-8.6	-8.5	-5.5	-2.5	-7.6	-5.6	-4.1	-7.8	-8.9	-14.8	-17.6	-25.0	-32.8	-49.0	-69.6	-93.0			
Leq,d	5.9	-40.4	-34.6	-31.0	-18.4	-13.9	-20.4	-12.9	-11.6	-13.4	-12.1	-9.0	-7.7	-7.5	-7.3	-4.3	-0.7	-5.7	-3.3	-3.2	-6.7	-7.7	-13.5	-16.2	-23.5	-31.2	-47.2	-67.7	-90.9			
Leq,d	5.5	-40.3	-34.5	-30.9	-18.3	-13.8	-20.3	-12.8	-11.5	-13.2	-12.0	-8.8	-7.5	-7.3	-7.1	-4.0	-1.3	-6.3	-4.2	-4.2	-6.7	-7.8	-13.5	-16.3	-23.6	-31.3	-47.3	-67.8	-91.0			
Leq,d	7.6	-39.1	-33.3	-29.7	-17.1	-12.5	-19.0	-11.6	-10.2	-12.0	-10.7	-7.5	-6.2	-5.9	-5.7	-2.6	1.0	-4.0	-1.5	-1.3	-4.8	-5.6	-11.1	-13.5	-20.2	-27.1	-41.9	-60.7	-81.4			
Leq,d	6.6	-38.6	-32.9	-29.2	-16.7	-12.2	-18.7	-11.3	-10.0	-11.7	-10.5	-7.5	-6.3	-6.1	-5.9	-2.8	0.3	-4.7	-3.8	-3.7	-7.2	-8.0	-13.5	-15.7	-22.2	-28.7	-42.8	-60.5	-79.8			
Leq,d	8.0	-38.3	-32.6	-28.9	-16.3	-11.8	-18.3	-10.9	-9.5	-11.2	-10.0	-6.9	-5.6	-5.4	-5.1	-2.0	1.4	-3.6	-1.2	-1.0	-4.5	-5.3	-10.7	-12.9	-19.4	-25.8	-39.9	-57.7	-77.1			
Leq,d	8.1	-38.2	-32.5	-28.8	-16.2	-11.7	-18.2	-10.7	-9.4	-11.1	-9.9	-6.6	-5.4	-5.1	-4.9	-1.7	1.1	-3.9	-1.8	-0.5	-4.0	-4.8	-10.3	-12.5	-19.0	-25.4	-39.6	-57.4	-76.7			
Leq,d	6.0	-38.7	-33.0	-29.4	-16.8	-12.4	-18.9	-11.5	-10.2	-12.0	-10.7	-7.8	-6.6	-6.4	-6.3	-3.2	-0.3	-5.4	-4.5	-4.4	-8.0	-8.8	-14.3	-16.5	-23.1	-29.6	-43.7	-61.5	-79.8			
Leq,d	6.2	-39.1	-33.4	-29.8	-17.2	-12.8	-19.3	-11.9	-10.6	-12.4	-11.2	-8.2	-7.0	-6.8	-6.7	-3.6	-0.5	-5.6	-3.3	-3.2	-6.7	-7.6	-13.2	-15.5	-22.3	-29.2	-43.9	-62.5	-83.1			
Leq,d	7.0	-38.9	-33.1	-29.4	-16.8	-12.4	-18.9	-11.5	-10.2	-12.0	-10.8	-7.7	-6.5	-6.3	-6.1	-3.0	0.3	-4.7	-2.2	-2.0	-5.5	-6.4	-11.9	-14.3	-21.0	-27.8	-42.5	-61.1	-81.7			
Leq,d	11.3	-38.6	-32.6	-28.8	-15.9	-11.1	-17.3	-9.6	-7.9	-9.3	-7.8	-4.9	-3.3	-2.8	-2.3	1.1	4.4	-0.2	2.4	2.9	-0.3	-0.8	-6.1	-8.1	-14.6	-21.2	-35.8	-54.3	-74.8			
Leq,d	21.3	-26.3	-20.4	-16.5	-3.7	1.0	-5.2	2.7	4.3	2.8	4.2	3.7	5.1	8.2	8.6	11.8	13.0	9.9	12.1	12.5	9.4	9.4	5.1	4.6	0.7	-1.7	-9.5	-18.1	-24.8	-34.6	-47.7	
Leq,d	21.4	-25.6	-19.7	-15.9	-3.1	1.7	-4.6	3.3	4.9	3.5	4.8	4.3	8.5	8.9	9.3	12.5	13.7	8.9	10.0	10.3	10.1	10.0	5.7	5.3	1.5	-0.8	-8.5	-16.9	-23.2	-32.5	-45.1	
Leq,d	12.1	-31.4	-25.5	-21.9	-9.3	-4.8	-11.4	-4.1	-2.9	-4.7	-3.5	-4.3	-3.2	-3.1	-0.2	2.8	3.8	0.8	1.8	3.2	0.0	-0.4	-5.0	-6.0	-10.6	-14.1	-23.7	-34.7	-44.7	-59.0	-77.6	
Leq,d	21.7	-26.9	-21.0	-17.1	-4.3	0.5	-5.8	2.1	3.7	2.2	3.7	3.2	4.6	5.0	8.0	11.3	15.4	10.6	11.7	13.0	9.9	9.8	5.5	5.0	1.1	-1.4	-9.6	-18.3	-25.2	-35.6	-49.2	
Leq,d	19.1	-28.9	-23.0	-19.2	-6.3	-1.6	-7.8	0.0	1.6	0.1	1.7	1.3	2.7	6.0	6.3	9.6	10.8	6.0	10.3	10.7	7.6	7.5	3.1	2.4	-1.8	-4.2	-13.1	-23.2	-31.6	-43.9	-59.8	
Leq,d	19.9	-28.2	-22.3	-18.4	-5.6	-0.8	-7.1	0.7	2.3	0.9	2.4	2.0	3.4	3.8	7.0	10.2	13.2	8.4	9.6	11.2	8.1	8.0	3.6	3.0	-1.0	-3.8	-12.3	-21.9	-29.7	-41.3	-56.4	
Leq,d	21.1	-27.6	-21.6	-17.8	-5.0	-0.2	-6.4	1.4	3.0	1.6	3.1	2.6	4.1	4.4	4.8	12.4	14.9	10.1	11.2	11.5	9.5	9.3	5.0	4.4	0.4	-2.2	-10.5	-19.6	-27.0	-38.0	-52.3	
Leq,d	12.8	-30.9	-25.0	-21.3	-8.7	-4.2	-10.7	-3.3	-2.1	-3.9	-2.7	-3.4	-2.3	0.5	0.7	3.7	4.7	-0.3	3.1	3.3	0.1	-0.2	-4.9	-5.8	-10.3	-13.7	-23.1	-33.8	-43.3	-57.0	-75.0	
Leq,d	10.2	-32.8	-27.1	-23.5	-11.0	-6.6	-13.2	-5.9	-4.7	-6.5	-5.3	-6.1	-5.0	-1.9	-1.8	1.2	2.1	-2.9	-2.0	1.4	-1.9	-2.3	-7.1	-8.2	-13.1	-17.0	-27.0	-38.8	-50.0	-65.7	-86.2	
Leq,d	8.2	-32.9	-27.3	-23.8	-11.5	-7.3	-14.1	-6.9	-5.9	-7.8	-6.8	-7.6	-3.8	-3.7	-3.7	-0.7	0.2	-4.9	-3.9	-3.8	-4.5	-4.9	-9.7	-10.7	-15.1	-18.2	-27.4	-38.2	-48.7	-63.9	-84.0	
Leq,d	11.1	-32.2	-26.4	-22.8	-10.2	-5.8	-12.4	-5.1	-3.9	-5.7	-4.5	-5.3	-0.9	-0.8	-0.6	2.4	3.4	-1.6	-0.7	-0.5	-3.7	-0.9	-5.6	-6.7	-11.4	-15.1	-25.0	-36.6	-47.4	-62.5	-82.3	
Leq,d	18.7	-29.5	-23.6	-19.8	-7.0	-2.2	-8.5	-0.7	0.9	-0.6	1.0	3.6	5.1	5.5	6.0	9.3	12.2	7.4	8.6	8.9	5.9	5.7	1.2	0.5	-3.7	-5.4	-13.3	-23.6	-32.6	-45.4	-62.0	
Leq,d	13.0	-30.6	-24.7	-21.0	-8.4	-4.0	-10.6	-3.2	-2.0	-3.9	-2.7	-3.5	-2.3	0.7	0.9	3.9	4.9	-0.1	0.8	4.2	1.0	0.7	-3.9	-4.8	-9.2	-11.5	-21.0	-31.9	-41.5	-55.3	-72.9	
Leq,d	13.1	-30.2	-24.4	-20.7	-8.1	-3.6	-10.2	-2.9	-1.7	-3.6	-2.5	-3.3	1.1	1.2	1.3	4.4	5.4	0.4	1.3	1.6	-1.7	1.2	-3.4	-4.2	-8.3	-10.5	-19.9	-30.8	-40.3	-53.6	-70.9	
Leq,d	13.7	-29.9	-24.0	-20.3	-7.6	-3.0	-9.6	-2.2	-1.0	-3.0	-1.8	-2.7	1.9	2.0	2.2	5.2	6.2	1.2	2.2	2.4	-0.8	-1.0	-5.6	-3.2	-7.5	-10.6	-19.7	-30.1	-39.2	-52.3	-69.2	
Leq,d	15.9	-33.6	-27.7	-23.8	-11.0	-6.2	-12.4	-4.7	-3.1	-4.5	-2.9	-0.1	1.4	1.9	2.4	5.7	9.0	4.3	6.8	7.3	4.3	4.0	-0.6	-1.8	-6.7	-10.9	-21.8	-34.7	-47.5	-65.6	-88.9	
Leq,d	10.5	-33.3	-27.4	-23.7	-11.1	-6.6	-13.2	-5.8	-4.7	-6.6	-5.5	-6.3	-1.3	-1.1	-0.9	2.2	3.1	-1.8	-0.9	-0.7	-4.0	-4.4	-6.7	-7.9	-12.9	-17.0	-27.5	-40.0	-52.2	-69.2	-91.1	

120 Unit Multi-Family Calimesa Noise
Contribution spectra - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz	12.5kHz	16kHz	20kHz
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Leq,d	9.8	-33.1	-27.3	-23.6	-10.9	-6.5	-13.1	-5.8	-4.6	-6.6	-5.5	-6.3	-1.9	-1.8	-1.7	1.4	2.3	-2.7	-1.8	-1.6	-4.9	-5.4	-10.2	-7.7	-12.6	-16.6	-27.0	-39.4	-51.2	-67.8	-89.3
Leq,d	12.7	-33.8	-27.9	-24.0	-11.3	-6.6	-13.0	-5.5	-4.2	-6.1	-5.0	-2.4	-1.3	-1.2	-1.1	1.9	5.0	0.0	3.9	4.3	1.2	0.9	-3.9	-5.1	-10.1	-14.4	-25.3	-38.4	-51.4	-69.8	-93.3
Leq,d	10.1	-34.2	-28.4	-24.7	-12.1	-7.6	-14.2	-6.8	-5.5	-7.3	-6.0	-3.0	-1.8	-1.6	-1.4	1.8	2.7	-2.3	-1.3	-1.1	-4.4	-4.9	-9.8	-11.2	-13.5	-17.9	-29.1	-42.5	-55.7	-74.3	-98.2
Leq,d	11.3	-34.1	-28.3	-24.6	-12.0	-7.5	-14.0	-6.6	-5.4	-7.1	-5.9	-2.9	-1.6	-1.4	-1.2	1.9	4.8	-0.1	0.9	1.1	-2.2	-2.7	-7.6	-8.9	-14.1	-18.5	-27.2	-40.5	-53.7	-72.3	-96.2
Leq,d	11.6	-34.0	-28.1	-24.4	-11.8	-7.3	-13.9	-6.5	-5.2	-7.0	-5.8	-2.8	-1.5	-1.3	-1.1	2.0	5.1	0.2	1.2	1.4	-1.8	-2.3	-7.2	-8.5	-13.6	-18.0	-29.0	-42.1	-53.8	-72.1	-95.7
Leq,d	12.7	-32.8	-26.9	-23.2	-10.5	-6.0	-12.5	-5.1	-3.9	-5.7	-4.5	-1.5	-0.3	-0.1	0.1	3.3	6.1	1.2	2.2	2.5	-0.8	-1.2	-6.0	-7.1	-12.0	-13.5	-24.0	-36.4	-48.2	-65.1	-86.8
Leq,d	17.3	-30.2	-24.2	-20.4	-7.6	-2.8	-9.0	-1.3	0.4	-1.1	0.5	0.0	4.6	5.0	5.4	8.7	9.9	5.1	6.3	6.6	3.5	5.2	2.1	1.4	-2.9	-6.1	-15.3	-25.9	-35.3	-48.8	-66.3
Leq,d	17.6	-29.9	-24.0	-20.1	-7.3	-2.5	-8.8	-1.0	0.6	-0.8	0.7	0.3	4.9	5.3	5.8	9.1	10.3	5.5	6.7	7.0	3.9	5.1	0.6	1.3	-1.9	-5.0	-13.9	-24.5	-33.8	-47.1	-64.3
Leq,d	18.9	-29.7	-23.7	-19.9	-7.1	-2.3	-8.5	-0.8	0.8	-0.6	0.9	3.6	5.1	5.6	6.0	9.3	12.3	7.6	8.8	9.2	6.1	5.9	2.2	1.5	-2.8	-5.9	-14.9	-24.1	-33.3	-46.3	-63.2
Leq,d	15.6	-30.5	-24.6	-20.7	-7.9	-3.2	-9.6	-2.0	-0.7	-2.5	-1.4	-2.3	3.1	3.4	3.7	7.0	8.1	3.3	4.4	4.7	3.7	3.4	-1.1	-2.0	-6.4	-9.7	-19.1	-29.9	-39.7	-53.4	-71.1
Leq,d	12.8	-32.7	-26.8	-23.1	-10.4	-5.9	-12.4	-5.0	-3.8	-5.7	-4.5	-1.5	-0.3	-0.1	0.1	3.2	6.3	1.4	2.4	2.6	-0.6	-1.0	-5.8	-6.9	-11.8	-15.7	-26.0	-38.2	-48.5	-65.1	-86.5
Leq,d	16.9	-32.5	-26.5	-22.7	-9.8	-5.1	-11.3	-3.6	-1.9	-3.4	-1.8	1.0	2.5	3.0	3.5	6.8	10.0	5.3	7.7	8.2	5.2	5.0	0.4	-0.7	-5.4	-9.2	-19.4	-31.5	-43.0	-59.4	-80.5
Leq,d	13.4	-30.9	-25.0	-21.2	-8.5	-3.9	-10.3	-2.9	-1.7	-3.6	-2.5	-3.4	-2.3	0.8	0.9	3.9	4.9	-0.2	4.2	4.4	1.2	0.9	-3.7	-4.7	-9.2	-12.6	-22.2	-33.0	-42.9	-57.0	-75.4
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															

120 Unit Multi-Family Calimesa Noise
Contribution spectra - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz	12.5kHz	16kHz	20kHz
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															

120 Unit Multi-Family Calimesa Noise
Contribution spectra - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Time slice	Sum	25Hz	31.5Hz	40Hz	50Hz	63Hz	80Hz	100Hz	125Hz	160Hz	200Hz	250Hz	315Hz	400Hz	500Hz	630Hz	800Hz	1kHz	1.25kHz	1.6kHz	2kHz	2.5kHz	3.15kHz	4kHz	5kHz	6.3kHz	8kHz	10kHz	12.5kHz	16kHz	20kHz
	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)	dB(A)
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															
Leq,d																															

120 Unit Multi-Family Calimesa Noise
Contribution spectra - 001 - 120 Unit Multi-Family Calimesa: Outdoor SP

Time slice	Sum dB(A)	25Hz dB(A)	31.5Hz dB(A)	40Hz dB(A)	50Hz dB(A)	63Hz dB(A)	80Hz dB(A)	100Hz dB(A)	125Hz dB(A)	160Hz dB(A)	200Hz dB(A)	250Hz dB(A)	315Hz dB(A)	400Hz dB(A)	500Hz dB(A)	630Hz dB(A)	800Hz dB(A)	1kHz dB(A)	1.25kHz dB(A)	1.6kHz dB(A)	2kHz dB(A)	2.5kHz dB(A)	3.15kHz dB(A)	4kHz dB(A)	5kHz dB(A)	6.3kHz dB(A)	8kHz dB(A)	10kHz dB(A)	12.5kHz dB(A)	16kHz dB(A)	20kHz dB(A)	
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																
Leq,d																																

120 Unit Multi-Family Calimesa Noise
Contribution level - 001 - 120 Unit Multi-Family Calimesa:

Source group	Source ty	Tr. lane	Leq,d dB(A)	A dB	
Receiver 11495070,3761836 Fl G Lr,lim dB(A) Leq,d 34.3 dB(A)					
Default industrial noise	Point		4.5	0.0	
Default industrial noise	Point		5.9	0.0	
Default industrial noise	Point		5.5	0.0	
Default industrial noise	Point		6.3	0.0	
Default industrial noise	Point		6.7	0.0	
Default industrial noise	Point		5.7	0.0	
Default industrial noise	Point		5.8	0.0	
Default industrial noise	Point		7.6	0.0	
Default industrial noise	Point		6.2	0.0	
Default industrial noise	Point		7.0	0.0	
Default industrial noise	Point		11.3	0.0	
Default industrial noise	Point		6.0	0.0	
Default industrial noise	Point		6.6	0.0	
Default industrial noise	Point		8.0	0.0	
Default industrial noise	Point		8.1	0.0	
Default industrial noise	Point		8.3	0.0	
Default industrial noise	Point		12.0	0.0	
Default industrial noise	Point		5.9	0.0	
Default industrial noise	Point		7.7	0.0	
Default industrial noise	Point		8.4	0.0	
Default industrial noise	Point		9.9	0.0	
Default industrial noise	Point		8.9	0.0	
Default industrial noise	Point		13.4	0.0	
Default industrial noise	Point		8.4	0.0	
Default industrial noise	Point		7.0	0.0	
Default industrial noise	Point		9.2	0.0	
Default industrial noise	Point		9.7	0.0	
Default industrial noise	Point		14.2	0.0	
Default industrial noise	Point		14.3	0.0	
Default industrial noise	Point		9.7	0.0	
Default industrial noise	Point		10.1	0.0	
Default industrial noise	Point		11.3	0.0	
Default industrial noise	Point		11.6	0.0	
Default industrial noise	Point		12.7	0.0	
Default industrial noise	Point		15.9	0.0	
Default industrial noise	Point		10.5	0.0	
Default industrial noise	Point		9.8	0.0	
Default industrial noise	Point		12.7	0.0	
Default industrial noise	Point		12.8	0.0	
Default industrial noise	Point		16.9	0.0	
Default industrial noise	Point		13.4	0.0	
Default industrial noise	Point		15.6	0.0	
Default industrial noise	Point		17.3	0.0	
Default industrial noise	Point		17.6	0.0	

Source group	Source ty	Tr. lane	Leq,d dB(A)	A dB	
Default industrial noise	Point		18.9	0.0	
Default industrial noise	Point		19.1	0.0	
Default industrial noise	Point		19.9	0.0	
Default industrial noise	Point		21.1	0.0	
Default industrial noise	Point		21.7	0.0	
Default industrial noise	Point		21.3	0.0	
Default industrial noise	Point		21.4	0.0	
Default industrial noise	Point		12.1	0.0	
Default industrial noise	Point		12.8	0.0	
Default industrial noise	Point		13.0	0.0	
Default industrial noise	Point		13.1	0.0	
Default industrial noise	Point		13.7	0.0	
Default industrial noise	Point		18.7	0.0	
Default industrial noise	Point		10.2	0.0	
Default industrial noise	Point		8.2	0.0	
Default industrial noise	Point		11.1	0.0	
Default industrial noise	Point		12.2	0.0	
Default industrial noise	Point		15.1	0.0	
Default industrial noise	Point		17.6	0.0	
Default industrial noise	Point		8.7	0.0	
Default industrial noise	Point		8.8	0.0	
Default industrial noise	Point		9.9	0.0	
Default industrial noise	Point		10.9	0.0	
Default industrial noise	Point		13.4	0.0	
Default industrial noise	Point		15.8	0.0	
Default industrial noise	Point		7.7	0.0	
Default industrial noise	Point		8.8	0.0	
Default industrial noise	Point		7.8	0.0	
Default industrial noise	Point		10.3	0.0	
Default industrial noise	Point		14.5	0.0	
Default industrial noise	Point		14.5	0.0	
Default industrial noise	Point		8.7	0.0	
Default industrial noise	Point		6.7	0.0	
Default industrial noise	Point		9.4	0.0	
Default industrial noise	Point		10.0	0.0	
Default industrial noise	Point		12.8	0.0	
Default industrial noise	Point		0.9	0.0	
Default industrial noise	Point		0.7	0.0	
Default industrial noise	Point		0.8	0.0	
Default industrial noise	Point		2.8	0.0	
Default industrial noise	Point		2.7	0.0	
Default industrial noise	Point		2.6	0.0	
Default industrial noise	Point		5.0	0.0	
Default industrial noise	Point		5.0	0.0	
Default industrial noise	Point		4.0	0.0	

120 Unit Multi-Family Calimesa Noise
Contribution level - 001 - 120 Unit Multi-Family Calimesa:

Source group	Source ty	Tr. lane	Leq,d dB(A)	A dB	
Default industrial noise	Point		3.9	0.0	
Default industrial noise	Point		6.2	0.0	
Default industrial noise	Point		6.4	0.0	
Default industrial noise	Point		3.6	0.0	
Default industrial noise	Point		11.8	0.0	
Default industrial noise	Point		10.8	0.0	
Default industrial noise	Point		6.7	0.0	
Default industrial noise	Point		6.4	0.0	
Default industrial noise	Point		5.8	0.0	
Default industrial noise	Point		13.2	0.0	
Default industrial noise	Point		8.6	0.0	
Default industrial noise	Point		8.5	0.0	
Default industrial noise	Point		8.5	0.0	
Default industrial noise	Point		7.4	0.0	
Default industrial noise	Point		14.6	0.0	
Default industrial noise	Point		14.4	0.0	
Default industrial noise	Point		13.3	0.0	
Default industrial noise	Point		13.4	0.0	
Default industrial noise	Point		13.0	0.0	
Default industrial noise	Point		21.0	0.0	
Default industrial noise	Point		20.0	0.0	
Default industrial noise	Point		19.6	0.0	
Default industrial noise	Point		19.2	0.0	
Default industrial noise	Point		18.1	0.0	
Default industrial noise	Point		7.9	0.0	
Default industrial noise	Point		6.7	0.0	
Default industrial noise	Point		6.9	0.0	
Default industrial noise	Point		7.5	0.0	
Default industrial noise	Point		7.4	0.0	
Default industrial noise	Point		4.9	0.0	
Default industrial noise	Point		4.5	0.0	