Noise Impact Analysis
for
Akash Winery

Located in the
County of Riverside, California

Prepared for:

Akash Winery
39730 Calle Contento
Temecula, CA 92591

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I. Introduction and Setting

A. Purpose and Objectives

The purpose of this report is to evaluate the existing noise environment at the Akash Winery in order to determine if expansion of the winery would be consistent with County of Riverside Operational Noise Standards.

B. Project Location

The proposed development is located within the County of Riverside, just south of Rancho California Road and east of Butterfield Stage Road. Specifically, the site address is 39730 Calle Contento Temecula, CA 92591. A vicinity map showing the project location is provided in Figure 1.

C. Proposed Project

Project Overview

Plot Plan No 26225, Revised Permit No. 1 proposes to expand the existing wine tasting/production building of 4,932 square feet (sf) by adding an additional 5,133 sf (total 10,065 sf). The proposed site plan is shown in Figure 2.

The proposed project includes an expansion of the existing wine tasting and production building, and an expanded building area to accommodate a wine production area, wine storage, a wine lab, a barrel washroom, staff restrooms, staff breakroom, offices, a conference room, and a covered tractor parking area. Additionally, the existing wine tasting/production building area will be modified to add a delicatessen, a wine tasting bar, and outdoor covered patio areas. The original patio covers attached to the building will be removed and replaced with nine free-standing patio covers, along with the addition of an outdoor wine tasting bar and refrigeration unit. Winery operations will include limited indoor and outdoor special events on site. No other changes or revisions are proposed than what was already previously approved under the original entitlement.

On Site Parking

The automobile parking required for a facility of this size is 182 spaces. 196 automobile parking spaces are proposed including 6 ADA parking stalls, and 6 electric vehicle stalls. On-site parking will be provided to the north and east of the various structures shown on the site plan. This is illustrated on Figure 2, the site plan.

Site Access

Regional access to the site is provided by Interstates 15, east on Rancho California Road and north on Calle Contento to the site driveway. There are two existing unpaved access driveways along the southern and northern boundaries of the property.

Project Operation

Day-to-Day Winery Operations

Day-to-day activities at the winery will include wine production and wine tasting and associated maintenance. Wine production will continue to use the existing , slightly modified wine production space in addition to a new wine production room with wine storage room. All equipment and stainless-steel fermenting tanks for wine production will be located inside.

Wine harvesting staff will be on consultant basis to assist Akash Winery and production will consist of the required 7,000 gallons annually per Class V winery regulations. Wine production fermenting and testing shall be conducted on-site and within on-site lab. Wine production activities will not occur at the same time as special events on site.

Wine tasting will occur in the existing tasting bar area, the proposed outdoor upper patio, the proposed outdoor lower patio, and the proposed vineyard patio. The winery will be open to the public for wine tasting during the following times:

Monday	12:00 - 6:00 PM
Tuesday	12:00 - 8:00 PM
Wednesday	12:00 – 6:00 PM
Thursday	12:00 – 6:00 PM
Friday	11:00 AM – 6:00 PM
Saturday	10:00 AM – 8:00 PM
Sunday	11:00 AM – 6:00 PM

All private wine tasting shall be by appointment only between 1:00 and 6:00 PM on weekdays and will not occur during special events. Tastings will be limited to 6-10 guests at a time. Private wine tasting will be regulated as required by Alcoholic Beverage Control (ABC).

In addition to the day-to-day operational activities described above, winery operations will include yoga/wellness classes, comedy nights, wine club events, charity events, small business/artisan booths, live music, wedding ceremonies and receptions. The anticipated days, times, frequency, and number of attendees for each are presented in Table 1. The location of where each event is expected to occur on the winery grounds and specific operational details of each event are presented in Table 1, below. Locations are labeled on Figure 3.

Table 1. Proposed Facilities and Activities

Location	Description	Days	Times	Frequency	Number of Attendees	Winery Open?
Outdoor-A	Yoga Classes	Saturdays-Sundays	8:00-10:00 AM	Once a Week	40	Closed
Outdoor-B	Comedy Night	Fridays	6:00-9:00 PM	Once a Month	100	Closed
Outdoor & Indoor--C	Wine Club	Thursdays-Sundays	6:00-9:00 PM	Once a Month	30	Closed
Outdoor-D	Charity Events	Fridays-Sundays	10:00 AM-4:00 PM	4 times /Year	100	Closed
Outdoor-E	Artisan Booths	Fridays-Sundays	10:00 AM-4:00 PM	Once a Month	125	Open
Outdoor-F	Wedding Ceremony	Thursdays-Mondays	10:00 AM-4:00 PM	Twice a Month	100	Closed
Indoor-G	Wedding Reception	Thursdays-Mondays	5:00-10:00 PM	Twice a Month	100	Closed
Indoor-H	Live Music	Fridays-Sundays	3:00-7:00 PM	Once a Week	146	Open

D. Summary of Impacts

Operation of the proposed project is not expected to exceed the County's daytime (7:00 AM to 10:00 PM) noise standards but could exceed the nighttime (10:00 PM to 7:00 AM) noise standards during larger events with indoor amplification. The following mitigation measures are required.

Required Mitigation Measures

1. Tasting and other public activities shall not occur between 10:00 PM and 7:00 AM.

2. No amplified voice or music will occur on the winery patio.

Best Management Practices

The following Best Management Practices (BMPs) will be implemented In addition to the above mitigation measures, as part of the project's operational plan.

1. A visual, readily available, noise monitor (see Figure 4) intended for public use (numbers must be visible at a distance of 20 feet) shall be mounted at a height of 8 feet as shown in Figure 5. This does not have to be a professional type 1 or type 2 monitor; it is intended to be used as a guide to management and event staff. The noise monitor shall remain on during operational hours.

2. Amplification of music or voice whether it is sourced outside on the patios or inside the tasting room shall not cause the noise monitor that will be mounted as shown on Figure 3 to exceed 80 dBA Leq.

3. In the event the County or Winery management receives noise complaints. The Winery shall hire a professional noise consultant to take noise measurements during a loud wedding reception using a type 1 or type 2 sound level meter, document the findings, develop measures to avoid future violations, i.e. temporary barriers (see below) and implement such measures. The winery shall agree to mitigate the violation in lieu of just paying violation fines.

   A portable sound wall system can be utilized to reduce noise transmission during events. The portable sound walls will be constructed to be as close to the ground as possible and extend from the ground to a height of eight feet with no holes or cracks. Sound barrier material should be approved by an acoustical consultant.

4. When deemed necessary, a portable sound wall system can be utilized to reduce noise transmission during events. The portable sound walls will be constructed to be as close to the ground as possible and extend from the ground to a height of eight feet with no holes or cracks. Sound barrier material should be approved by an acoustical consultant.

   Placement of the temporary sound walls will depend on where the amplified sound is placed, i.e., outdoor speakers, indoor event, or live event speakers). Ideal speaker location and barrier location for sound reduction will be calibrated in the field prior to the first occurrence of each type of event and then carried forward as long as no violations are reported.

5. In the case of any complaints, a noise specialist will visit the site and use a type 1 or type 2 datalogging noise meter to document and report event noise levels to verify that they are indeed in compliance with County standards. If the noise specialist determines that event noise is exceeding County standards, adjustments will be made to event operations, or the portable sound walls or alternative mitigation will be defined and implemented.

Figure 1

Regional Location

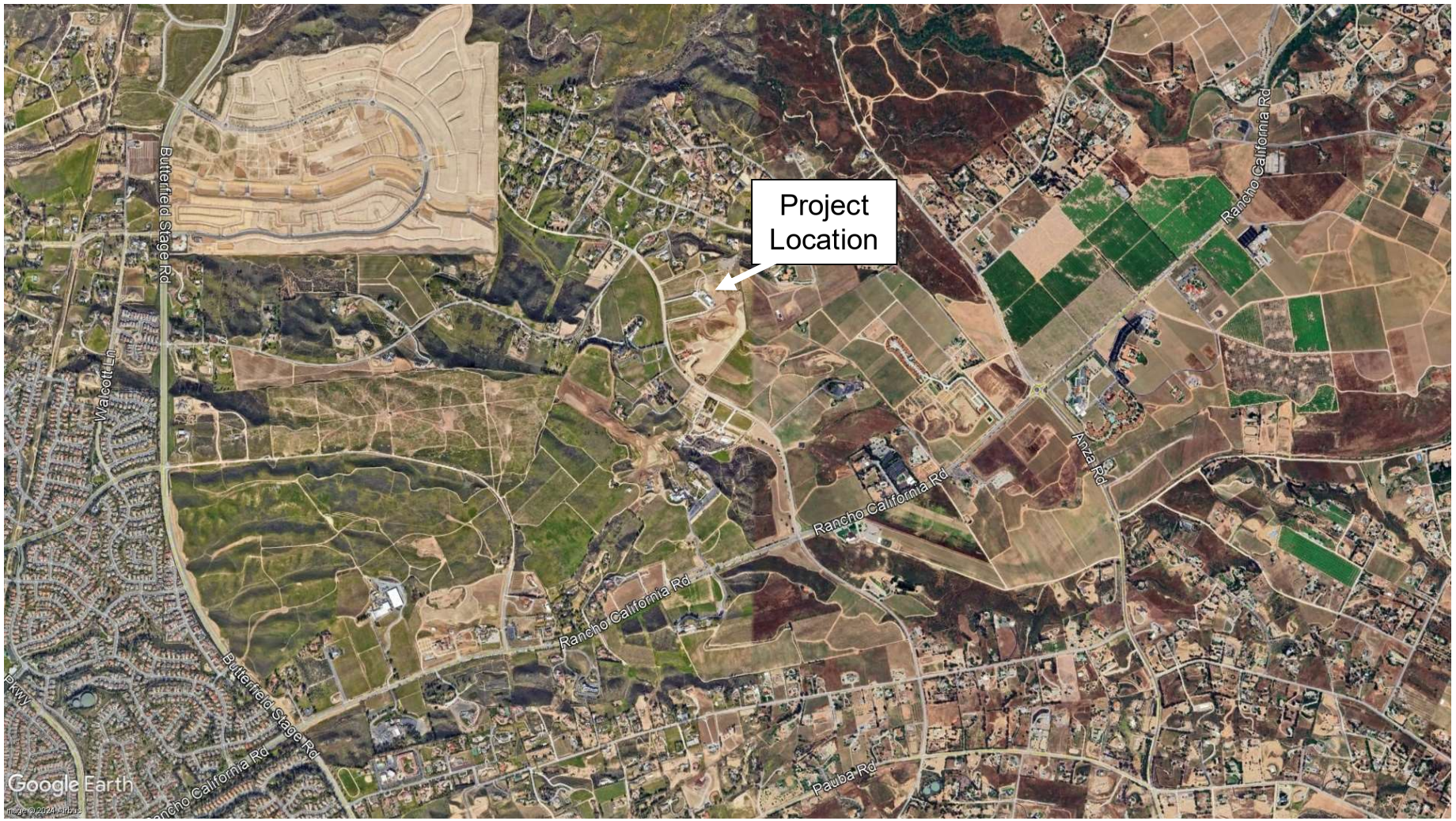

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Figure 2

Site Plan

Figure 3

Sources for Noise Generation

SOURCES FOR NOISE GENERATION

PROPOSED ACTIVITIES

		DESCRIPTION:	TIME FRAMES:	HOW OFTEN:	ATTENDEES:	WINERY OPEN?
OUTDOOR	A	YOGA CLASSES	SAT/SUN 8AM-10AM	ONCE A WEEK	40	CLOSED
OUTDOOR	B	COMEDY NIGHT	FRI/6PM-9PM	ONCE A MONTH	100	CLOSED
OUTDOOR	C	WINE CLUB NIGHT	THU-SUN 6PM-9PM	ONCE A MONTH	30	CLOSED
OUTDOOR	D	CHARITY EVENTS (5K WALKS)	FRI-SUN 10AM-4PM	FOUR TIMES A YR.	100	CLOSED
OUTDOOR	E	LOCAL ARTISAN CRAFT BOOTHS	FRI-SUN 10AM-PM	ONCE A MONTH	125	OPEN
OUTDOOR	F	WEDDING CEREMONY	THU-MON 10AM-4PM	TWICE A MONTH	100	CLOSED
INDOOR	G	WEDDING RECEPTION	THU-MON 5PM-10PM	TWICE A MONTH	100	CLOSED
INDOOR	H	LIVE MUSIC	FRI-SUN 3PM-7PM	ONCE A WEEK	146	OPEN

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Figure 4

Permanent Noise Monitor

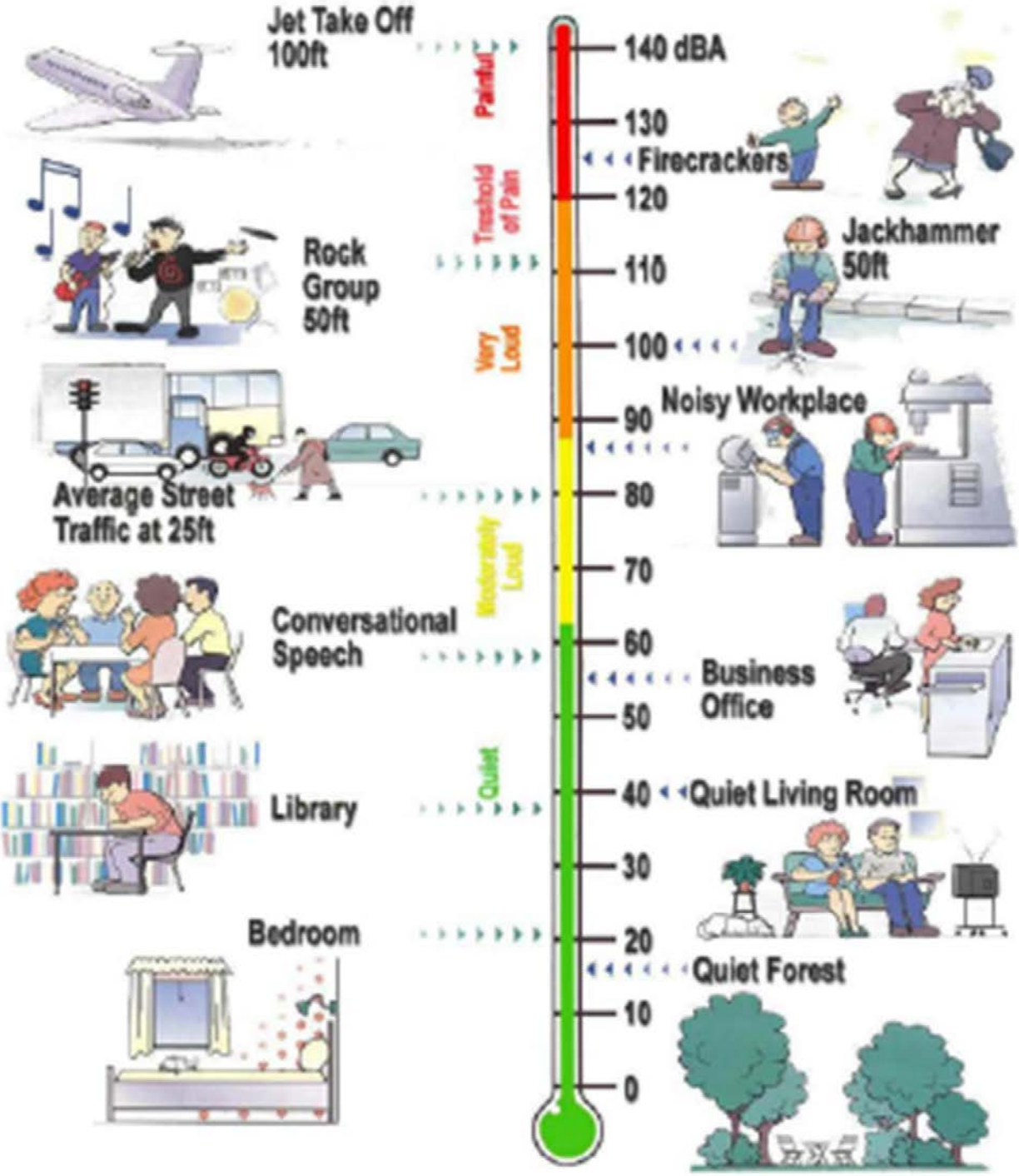
Figure 5

Location of Permanent Noise Monitor

Noise Monitor Location

Figure 6

Common Noise Source (dBA)



II. Noise Fundamentals

Sound is a pressure wave created by a moving or vibrating source that travels through an elastic medium such as air. Noise is defined as unwanted or objectionable sound. The effects of noise on people can include general annoyance, interference with speech communication, sleep disturbance, and in extreme circumstances, hearing impairment.

Definitions of commonly used noise terms are presented in Table 2. The unit of measurement used to describe a noise level is the decibel (dB). The human ear is not equally sensitive to all frequencies within the sound spectrum. Therefore, the "A-weighted" noise scale, which weights the frequencies to which humans are sensitive, is used for measurements. Noise levels using A-weighted measurements are written dB(A) or dBA.

From the noise source to the receiver, noise changes both in level and frequency spectrum. The most obvious is the decrease in noise as the distance from the source increases. The manner in which noise reduces with distance depends on whether the source is a point or line source as well as ground absorption, atmospheric effects and refraction, and shielding by natural and manmade features. The noise drop-off rate associated with point source noise is 6 dBA per each doubling of the distance (dBA/DD).

Decibels are measured on a logarithmic scale, which quantifies sound intensity in a manner similar to the Richter scale used for earthquake magnitudes. Thus, a doubling of the energy of a noise source, such as a doubled traffic volume, would increase the noise levels by 3 dBA; halving of the energy would result in a 3 dBA decrease.

Figure 6 shows the relationship of various noise levels to commonly experienced noise events.

Average noise levels over a period of minutes or hours are usually expressed as dBA $L_{eq,}$ or the equivalent noise level for that period of time. For example, $L_{eq(3)}$ would represent a 3-hour average. When no period is specified, a one-hour average is assumed. Instantaneous and short-duration noise events are often described using the L_{max} noise descriptor, which is the RMS (root mean squared) maximum level of a noise source or environment measured on a sound level meter, during a designated time interval. For stationary noise sources the County of Riverside uses a 10-minute L_{eq} standard which is the average sound level as measured over a ten-minute period.

It is widely accepted that the average healthy ear can barely perceive changes of 3 dBA; that a change of 5 dBA is readily perceptible, and that an increase (decrease) of 10 dBA sounds twice (half) as loud. This definition is recommended by the California Department of Transportation's Technical Noise Supplement to the Traffic Noise Analysis Protocol (2013).

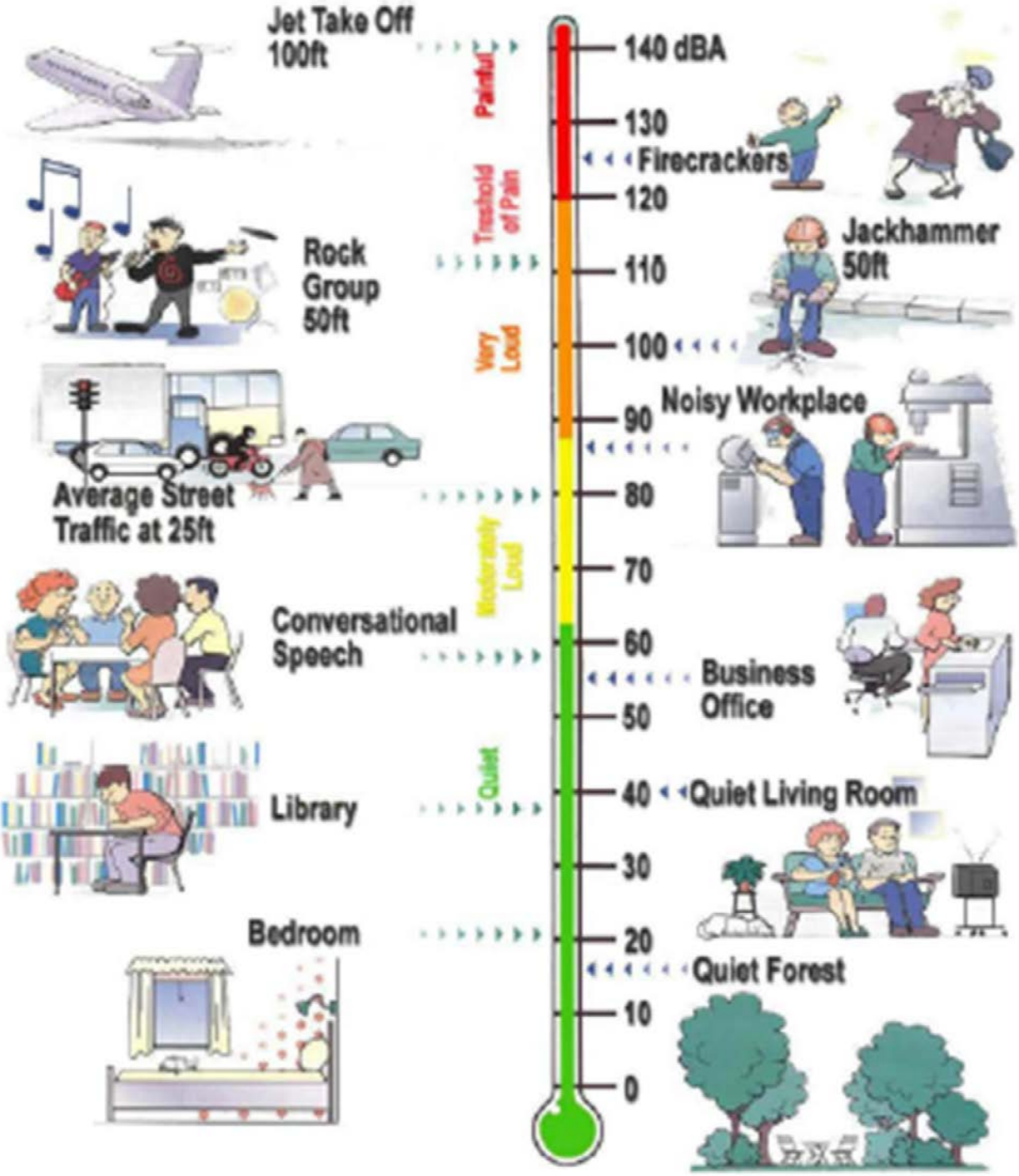
Table 2. Definitions of Acoustical Terms

Term	Definition
Decibel, dB	A logarithmic unit of noise level measurement that relates the energy of a noise source to that of a constant reference level; the number of decibels is 10 times the logarithm (to the base 10) of this ratio.
Frequency, Hertz	In a function periodic in time, the number of times that the quantity repeats itself in one second (i.e., the number of cycles per second).
A-Weighted Sound Level, dBA	The sound level obtained by use of A-weighting. The A-weighting filter de-emphasizes the very low and very high frequency components of the sound in a manner similar to the frequency response of the human ear.
Root Mean Square (RMS)	A measure of the magnitude of a varying noise source quantity. The name derives from the calculation of the square root of the mean of the squares of the values. It can be calculated from either a series of lone values or a continuous varying function.
Fast/Slow Meter Response	The fast and slow meter responses are different settings on a sound level meter. The fast response setting takes a measurement every 100 milliseconds, while a slow setting takes one every second.
L_{02}, L_{08}, L_{50}, L_{90}	The A-weighted noise levels that are equaled or exceeded by a fluctuating sound level, 2 percent, 8 percent, 50 percent, and 90 percent of a stated time period, respectively.
Equivalent Continuous Noise Level, L_{eq}	A level of steady state sound that in a stated time period, and a stated location, has the same A-weighted sound energy as the time-varying sound.
L_{max}, L_{min}	L_{max} is the RMS (root mean squared) maximum level of a noise source or environment measured on a sound level meter, during a designated time interval, using fast meter response. L_{min} is the minimum level.
Ambient Noise Level	The all-encompassing noise environment associated with a given environment, at a specified time, usually a composite of sound from many sources, at many directions, near and far, in which usually no particular sound is dominant.
Offensive/ Offending/ Intrusive Noise	The noise that intrudes over and above the existing ambient noise at a given location. The relative intrusiveness of sound depends on its amplitude, duration, frequency, and time of occurrence, and tonal information content as well as the prevailing ambient noise level.

Source: Adapted from: Cyril M. Harris; Handbook of Acoustical Measurement and Noise Control, 1991.

Figure 6

Common Noise Source (dBA)



III. Existing Noise Environment

A. Existing Land Uses and Sensitive Receptors

The State of California defines sensitive receptors as those land uses that require serenity or are otherwise adversely affected by noise events or conditions. Schools, libraries, churches, hospitals, single and multiple family residential, including transient lodging, motels and hotel uses make up the majority of these areas. Sensitive receptors that may be affected by project generated noise include the single-family residential dwelling units in the vicinity of the project site.

The project site is located on a hillside that slopes from the east to the west and is surrounded by other rolling hills and rural land uses.

B. Ambient Noise Measurements

An American National Standards Institute (ANSI Section SI4 1979, Type 1) Larson Davis model LxT sound level meter was used to document existing ambient noise levels at four locations along the winery property lines (see Figure 7).

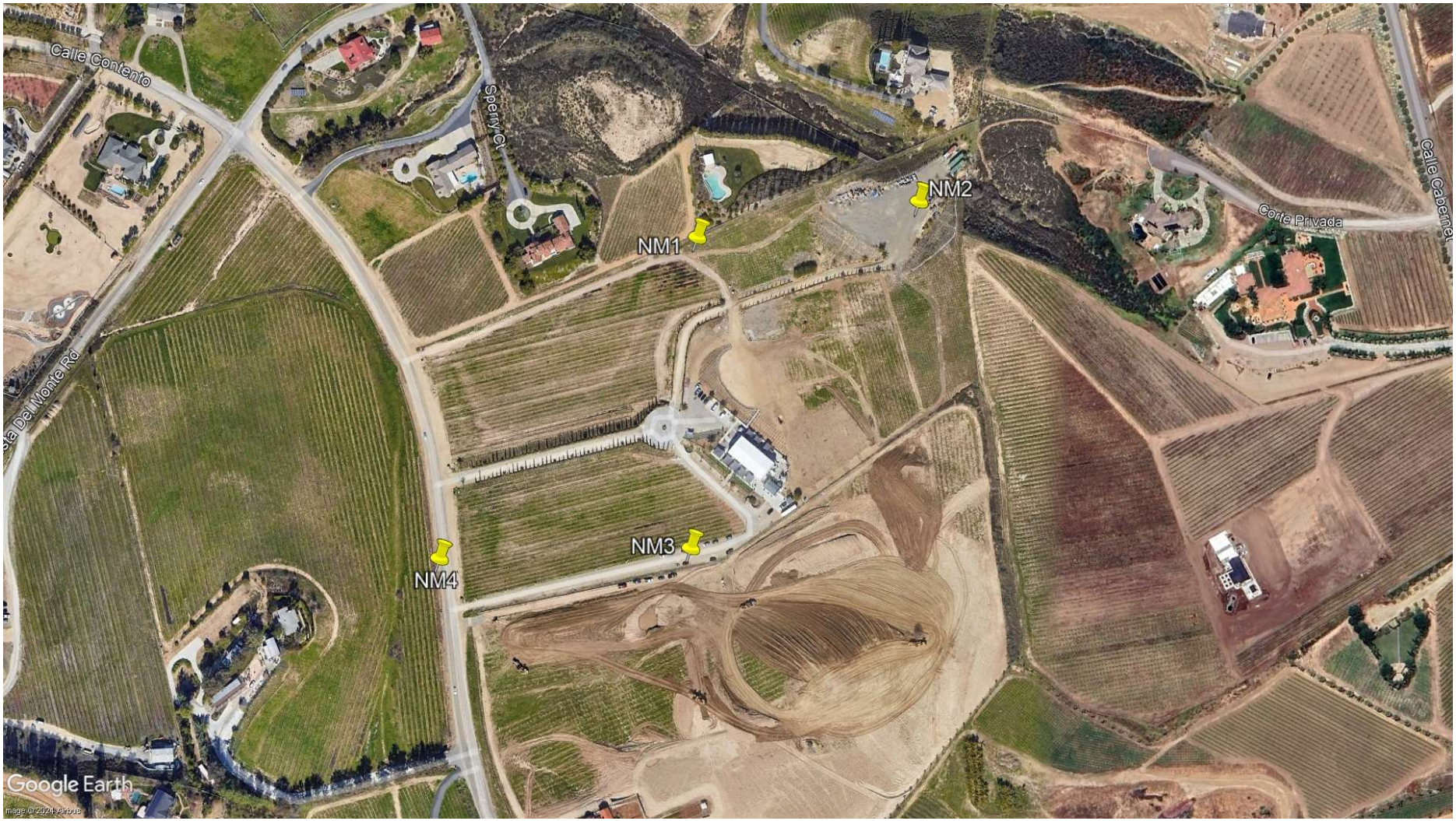
As shown in Table 3, existing noise levels outside of the Akash Winery tasting room ranged between 40.3 and 63.9 dBA L_{eq} at winery property lines. Noise measurement data is provided in Appendix A.

Table 3. Noise Measurement Results

Name	Time Period	Description	Existing Ambient Noise Levels (dBA)					
			L_{eq}	L_{max}	L_2	L_8	L_{25}	L_{50}
NM1	10:43-10:53 AM	Rural, vineyard	45.8	60.0	55.9	49.9	44.2	41.1
NM2	11:06-11:16 AM	Rural, vineyard	40.3	53.2	48.4	45	40.3	37.3
NM3	11:37-11:47 AM	Rural, vineyard	50.5	60.4	57.7	54.7	50.8	48.4
NM4	12:01 PM	Rural, vineyard	63.9	80.2	74.7	69.8	57.5	44.8

Figure 7

Ambient Noise Measurements



IV. Regulatory Setting

A. Project Generated Noise Impacts to Sensitive Receptors

1. On-Site Activities

Riverside County Department General Plan Policy N2.3 states that stationary noise sources that generate noise levels exceeding those presented in Table 4 should be mitigated to the extent feasible.

- 45 dBA – 10-minute noise equivalent level (L_{eq}), between the hours of 10:00 PM and 7:00 AM (nighttime standard)
- 65 dBA – 10-minute noise equivalent level (L_{eq}) between the hours of 7:00 AM and 10:00 PM (daytime standard)

Table 4. Stationary noise Source Land Use Noise Standards[1]

Land Use	Interior Standards (Leq 10-minute)	Exterior Standards (Leq 10-minute)
Residential		
10:00 PM to 7:00 AM	40	45
7:00 AM-10:00 PM	55	65

Source: Riverside County General Plan 2015

[1] These are only preferred standards; final decision will be made by the Riverside County Planning Department and Office of Public Health.

V. Analytical Methodology and Impact Analysis

A. Methodology

1. Operational Noise Modeling

The SoundPLAN noise modeling software was utilized to model operational noise levels associated with typical operations and for each special event (as presented in Table 1). This three-dimensional model takes into consideration the existing and proposed topography, existing structures, barriers and ground type.

The County noise standard is a ten-minute L_{eq}. The SoundPLAN noise model allows the user to model the L_{eq} or a CNEL. In order to capture the worst-case ten-minute period, activities associated with peak hour operation are assumed.

All noise sources were modeled as point or area sources. Point and area noise sources typically drop off by 6 dB for every doubling of distance between the noise source and the noise receptor. For example, if a noise level of 95 dB at a distance of 3 feet would be 89 dB at a distance of 6 feet, 83 at a distance of 12 feet, 77 at a distance of 24 feet, 71 at a distance of 48 feet and 65 dB at a distance of 96 feet.

Modeling parameters for each noise source are described below. All areas noise sources were modeled at a height of five feet with the exception of the wine tasting building which had areas sources wrapped on three sides and the roof to represent indoor noise leaking out. It was assumed that the building would provide a 15 dB interior to exterior noise reduction. Patio speakers were modeled at a height of eight feet. All ground surfaces were modeled as hard ground.

Yoga/Wellness Classes
Yoga and Wellness classes will occur on a lower patio or grassy area identified with the letter A on Figure 3. The yoga or wellness classes will occur once a week on either a Saturday or Sunday morning between 8:00 AM and 10:00 PM. Yoga and wellness classes are generally very quiet in nature. They will not include any amplification of voice or music. Yoga areas were modeled with a sound power level of 63 dBA which resulted in an overall noise level of 65 dBA Leq.

Wedding Receptions
Wedding Receptions are proposed to occur twice a month Thursday-Monday between 5:00 and 10:00 PM. The noise sources associated with a wedding reception would include the attendees chatting and laughing and amplified music. Although this event is proposed to occur within the tasting room, noise will leak outside of the tasting room when windows and doors are left open. Two scenarios, one with the NW door open and one with it closed were modeled.

All patio areas, with the exception of the vineyard patio, were assumed to be occupied and were modeled to represent normal conversation (65 dBA Leq). An interior noise level of 90 dBA Leq was also assumed to represent indoor amplified music or voice.

Comedy Night
Comedy night will occur on the upper patio as depicted by the letter B on Figure 3. Comedy shows will occur once a month on a Friday night between the hours of 6:00 PM and 9:00 PM. The noise sources associated with a comedy show would include the attendees chatting and laughing and the amplified voice of the comedian. All patio areas occupied and modeled to represent normal conversation (65 dBA Leq) with the exception of the vineyard patio. An interior noise level of 90 dBA Leq was also assumed to represent indoor amplified music or voice. Two scenarios, one with the NW door open and one with it closed were modeled.

Live Music
Live Music, to be conducted inside of the tasting room is expected to occur once a week Friday-Sunday between 3:00 PM and 7:00 PM. The noise sources associated with the live music event would include the attendees chatting and laughing and the amplified music. Although this event is proposed to occur within the tasting room, some noise could leak outside of the tasting room if windows and doors are left open. Two scenarios, one with the NW door open and one with it closed were modeled.

All patio areas occupied and modeled to represent normal conversation (65 dBA Leq) with the exception of the vineyard patio. An interior noise level of 90 dBA Leq was also assumed to represent indoor amplified music or voice. Two scenarios, one with the NW door open and one with it closed were modeled.

Wine Club Night
Wine club nights are proposed to occur once a month between Thursday and Sunday between 6:00 PM and 9:00 PM. Areas of the winery expected to be used during Wine Club night are depicted on Figure 3 with a "C". Noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq). Two outdoor speakers were modeled with ambient music at a sound pressure level of 81.7 @ 5 feet.

Charity Events
Charity Events are proposed to occur four times a year, Friday-Sunday between 10:00 AM and 4:00 PM. Areas of the winery expected to be used during Wine Club night are depicted on Figure 3 with a "D". Noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq). Two outdoor speakers were modeled with ambient music at a sound pressure level of 81.7 @ 5 feet.

Local Artisan/Small Business Booths
Small Business Booths can be expected Friday-Sunday once a month between 10:00 AM and 8:00 PM. Small Business Booth events will occur on outside patios and are labeled with a "E" on Figure 3. Noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq). Two outdoor speakers were modeled with ambient music at a sound pressure level of 81.7 @ 5 feet.

Wedding Ceremonies
Wedding Ceremonies are proposed to occur twice a month Thursday-Monday between 10:00 AM and 4:00 PM. Wedding Ceremonies will occur outside on the patio outside of

the tasting room (see Figure 3). No amplified music or amplified voice will be used during these events. Noise levels associated with the ceremony, assumed to occur on the vineyard patio, was modeled to represent normal conversation (65 dBA Leq).

Event Traffic Noise

A Live Music event is expected to generate the most vehicle traffic. Assuming each event would last for more than one hour, no more than 73 vehicle trips would occur during any particular hour. Noise associated with vehicles entering and exiting the site and traveling along local roads to access the site would be negligible.

B. Impact Analysis and Mitigation

1. Project Operational Noise Impacts to Sensitive Receptors

Although several activities are proposed in addition to normal winery operations, several of the activities will occupy the same spaces and have similar noise sources. Therefore, five scenarios were modeled, 1) Yoga/Wellness Class, 2) Indoor Amplification Event with the doors and windows closed 3) Indoor Amplification Event with the northwest door of the tasting room open, 4) wine club/charity event/small business and artisan booths, and 5) wedding ceremony. The following impact summary lumps these activities accordingly. In addition to modeling anticipated operations, a model was run to determine the loudest an event can be (indoor) without exceeding the County's noise criteria. In addition to modeling anticipated operations, a model was run to determine the loudest an event can be (indoor) without exceeding the County's noise criteria.

In addition to modeling anticipated operations, a model was run to determine the loudest an event can be (indoor) without exceeding the County's noise criteria. The point of this exercise was to find a maximum noise level that can be monitored on the patio to avoid exceeding County criteria.

Yoga/Wellness Classes
As shown in Figures 8 and 9, noise levels at the site property line and nearby properties associated with yoga and wellness classes are expected to range between 15 and 39 dBA Leq and would not exceed the County's daytime ten-minute L_{eq} standard of 65 dBA or the County's ten-minute L_{eq} nighttime noise standard of 45 dBA at any property lines.

Indoor Amplification Event (Windows Closed) – Wedding Receptions, Live Music, Comedy Night
Figures 10 and 11, noise levels associated with an event in the tasting room building are expected to range between 22 and 52 dBA Leq and would not exceed the County's daytime ten-minute L_{eq} standard of 65 dBA but would likely exceed the County's nighttime 10-minute L_{eq} standard of 45 along the southern property boundary. A mitigation measure limiting events to between the hours of 7:00 AM and 10:00 PM will avoid this impact.

Indoor Amplification Event (NW Door Open) – Wedding Receptions, Live Music, Comedy Night
Figures 12 and 13, in the case that a door located at the northwest side of the tasting room is left open, noise levels associated with an event in the tasting room building are expected to range between 26 and 52 dBA Leq and would not exceed the County's daytime ten-minute L_{eq} standard of 65 dBA but would likely exceed the County's nighttime 10-minute L_{eq} standard of 45 along the southern property boundary. A mitigation measure limiting events to between the hours of 7:00 AM and 10:00 PM will avoid this impact.

Wine Club/Charity Event/Small Business & Artisan Booths

As shown in Figures 14 and 15, noise levels associated with Wine Club Night are expected to range between 19 and 42 dBA Leq at the site's property lines and would not exceed the County's daytime ten-minute L_{eq} standard of 65 dBA L_{eq} or the County's nighttime noise standard of 45 dBA L_{eq} (10-minute).

Wedding Ceremony

As shown in Figures 16 and 17, noise levels associated with a wedding ceremony on the vineyard patio would range between 19 and 39 dBA Leq at the site's property lines and would not exceed the County's daytime ten-minute L_{eq} standard of 65 dBA L_{eq} or the County's nighttime noise standard of 45 dBA L_{eq} (10-minute).

Maximum Event Noise Without Exceeding Noise Criteria

The maximum event noise scenario assumes the same conditions as the Indoor Amplification Event but with an interior noise level of 101 dBA Leq. Based on the above modeling results and maximum event noise modeling results, (shown in Figures 18 and 19, the winery could host an indoor event with noise levels reaching 101 dB inside the tasting room and not exceed the 65 dBA 10-minute Leq daytime standard (7:00 AM to 10:00 PM). However, in an effort to ensure that additional measures are not required, the following mitigation measures are recommended.

2. Recommended Mitigation Measures

    1. Wine tasting and other public activities shall not occur between 10:00 PM and 7:00 AM.

    2. No amplified voice or music will occur on the patio located in the vineyard.

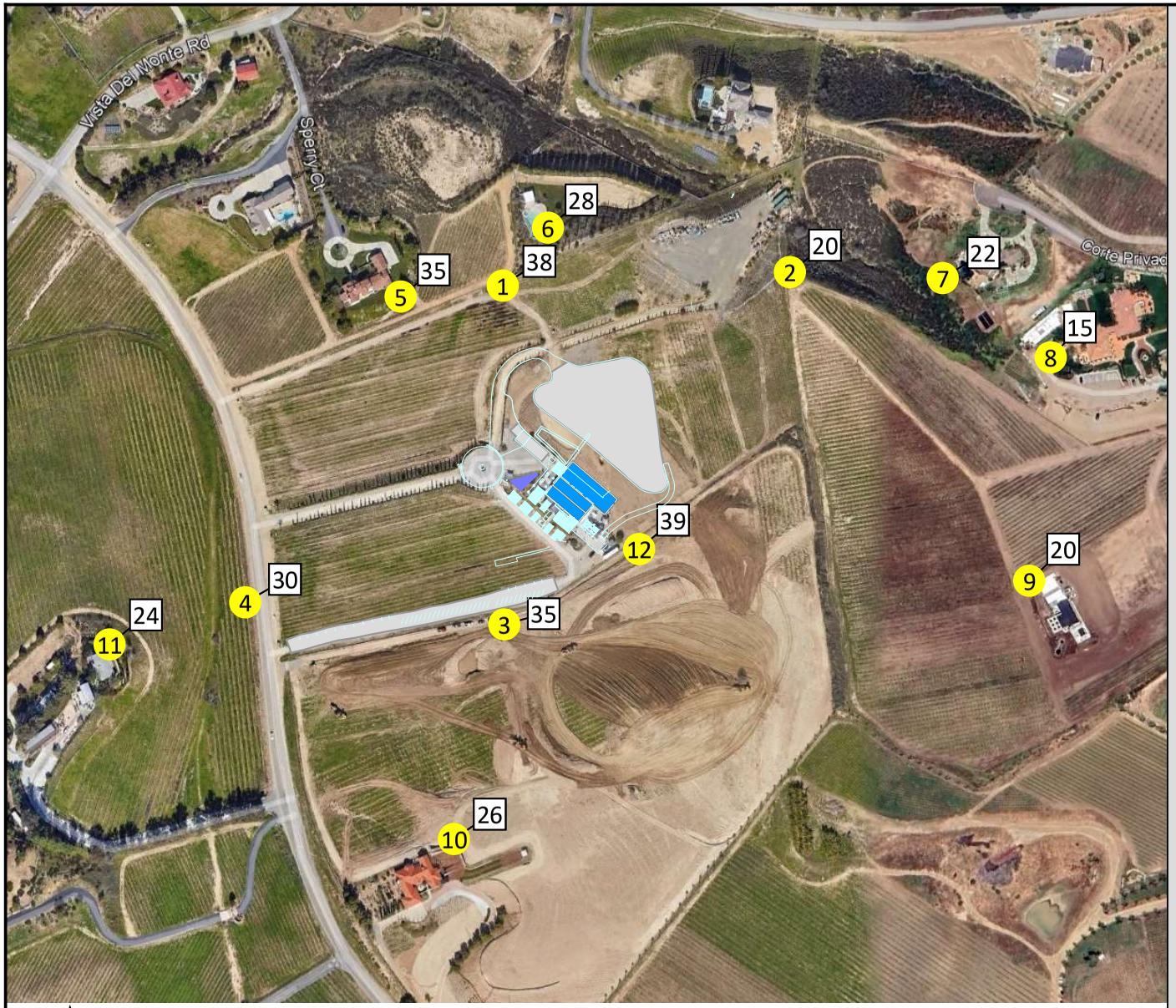


Figure 8

Yoga/Wellness Class
Noise Levels (dBA, Leq)

Signs and symbols

- Buildings
- Receivers
- Area Sources (Yoga/Wellness Instructor Patio Conversation etc.)
- Parking lot
- Noise Level Tables (dBA, Leq)

1 : 400

0 100 200 400 600 800 feet

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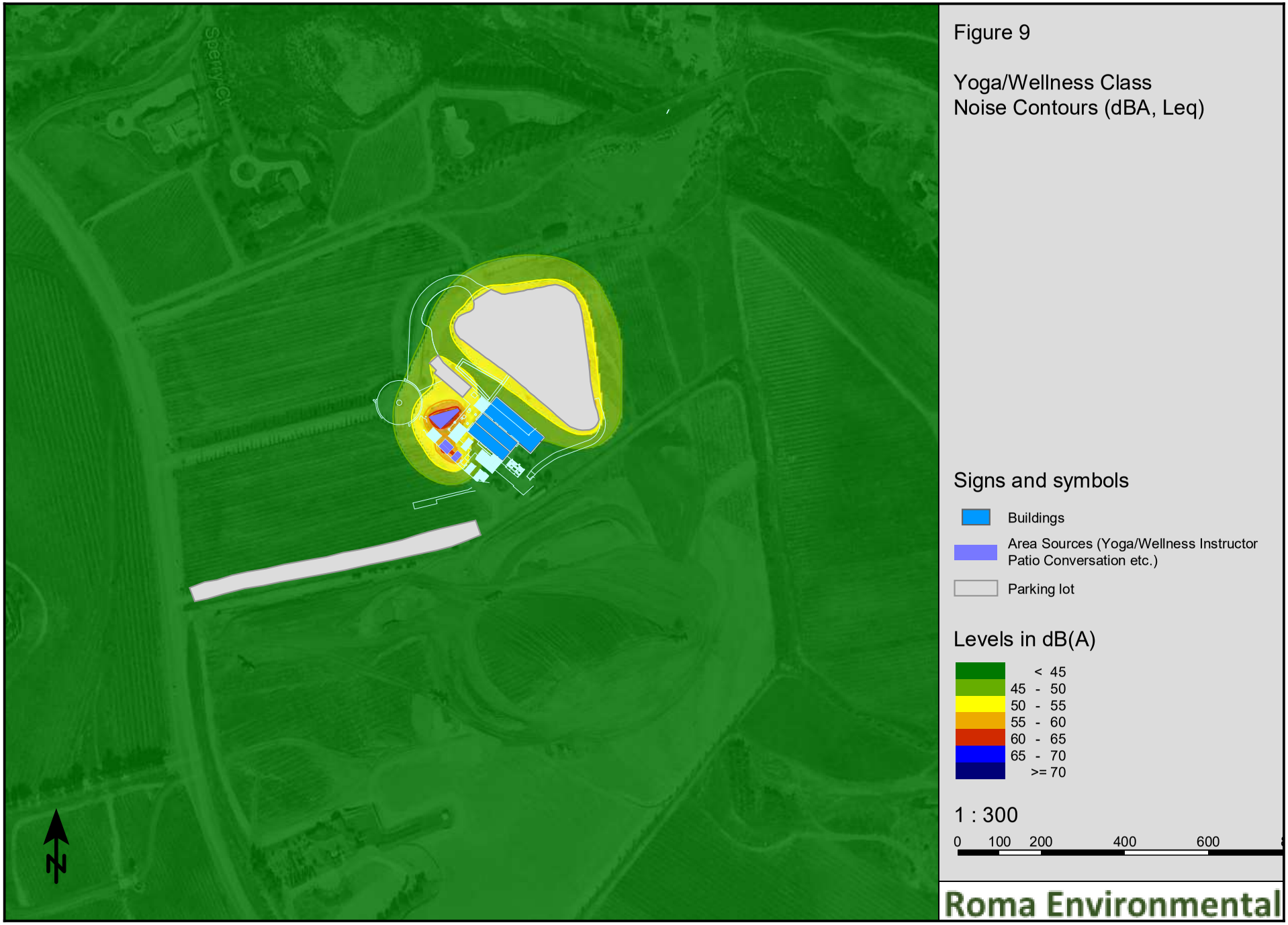
Sperry Ct
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Figure 9
Yoga/Wellness Class
Noise Contours (dBA, Leq)
Signs and symbols
Buildings
Area Sources (Yoga/Wellness Instructor Patio Conversation etc.)
Parking lot
Levels in dB(A)
< 45
45 - 50
50 - 55
55 - 60
60 - 65
65 - 70
>= 70
1 : 300
0 100 200 400 600
Roma Environmental

Figure 10

Indoor Amplified Music or Voice
Doors/Windows Closed
Noise Levels (dBA, Leq)

This exhibit represents noise levels associated with all patio areas occupied with patrons and normal conversation (65 dBA Leq), with the exception of the vineyard patio. An interior noise level of 90 dBA Leq was also assumed to represent indoor amplified music or voice.

Signs and symbols

- Buildings
- Receiver
- Area Sources (Amplified Music/Voice & Patio Conversation etc.)
- Parking lot
- Noise Level Tables (dBA, Leq)

1 : 400

0 100 200 400 600 800 feet

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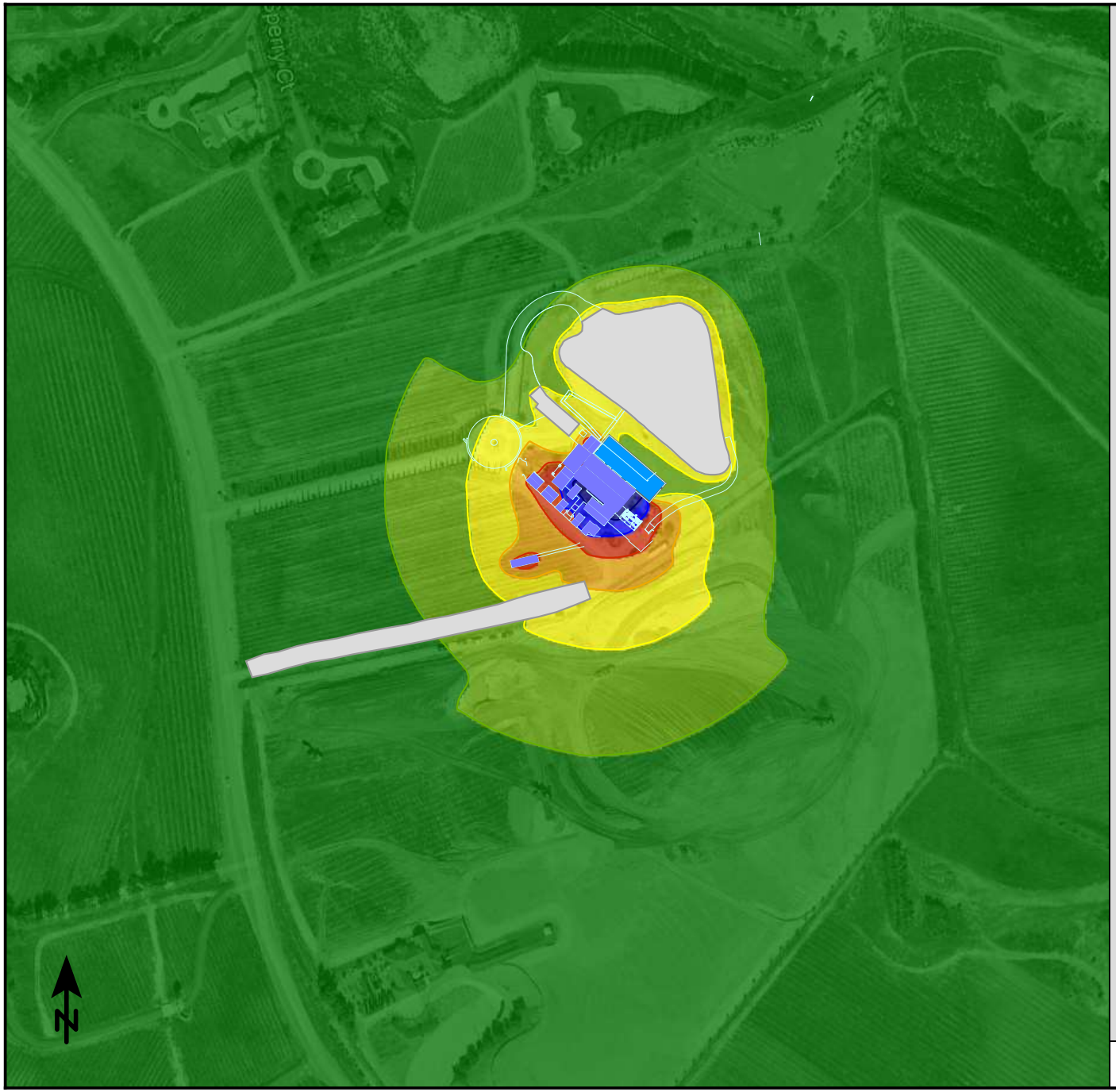


Figure 11

Indoor Amplified Music or Voice
NW Door Open
Noise Levels (dBA, Leq)

This exhibit represents noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq) with the exception of the vineyard patio. An interior noise level of 90 dBA Leq was also assumed to represent indoor amplified music or voice. The sound pressure level used on the outside of the building was modified to represent an open door condition at the NW portion of the building.

Signs and symbols

- Buildings
- Area Sources (Amplified Music/Voice & Patio Conversation etc.)
- Parking lot

Levels in dB(A)

< 45
45 - 50
50 - 55
55 - 60
60 - 65
65 - 70
>= 70

1 : 300

0 100 200 400 600

Roma Environmental

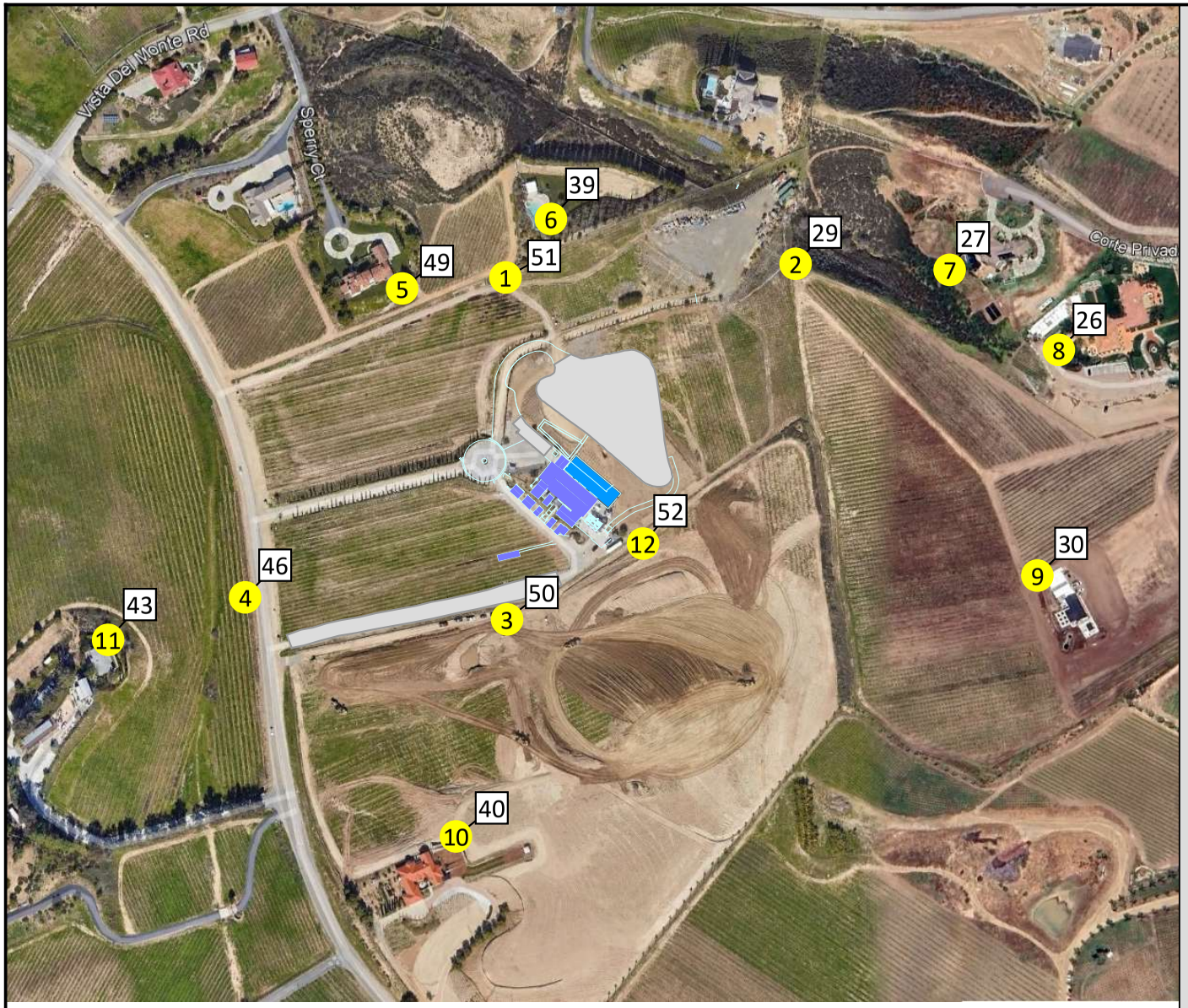


Figure 12

Indoor Amplified Music or Voice
NW Door Open
Noise Levels (dBA, Leq)

This exhibit represents noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq) with the exception of the vineyard patio. An interior noise level of 90 dBA Leq was also assumed to represent indoor amplified music or voice. The sound pressure level used on the outside of the building was modified to represent an open door condition at the NW portion of the building.

Signs and symbols

- Buildings
- Receiver
- Area Sources (Amplified Music/Voice & Patio Conversation etc.)
- Parking lot
- Noise Level Tables (dBA, Leq)

1 : 400

0 100 200 400 600 800 feet

Roma Environmental

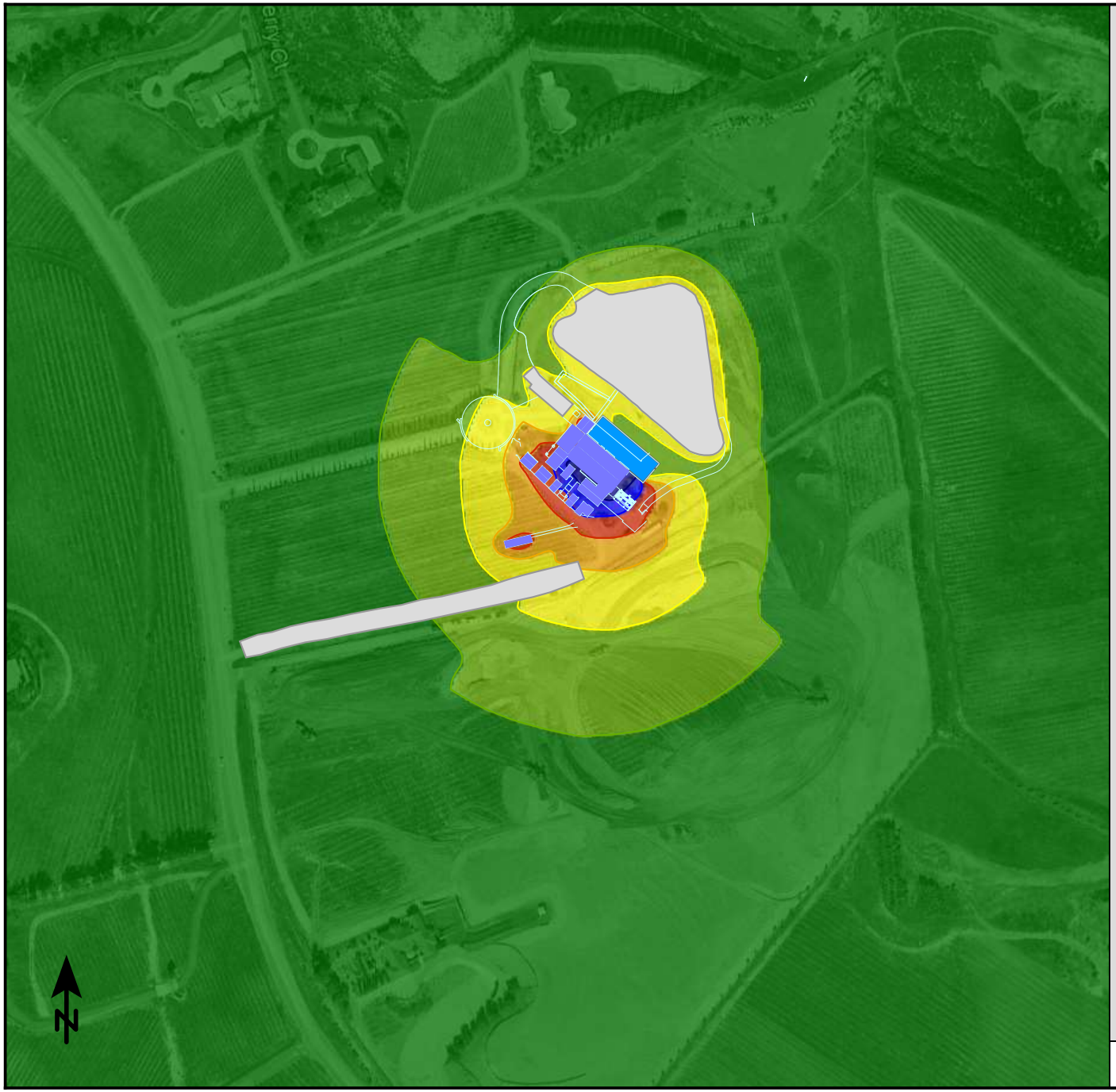


Figure 13

Indoor Amplified Music or Voice
NW Door Open
Noise Levels (dBA, Leq)

This exhibit represents noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq) with the exception of the vineyard patio. An interior noise level of 90 dBA Leq was also assumed to represent indoor amplified music or voice. The sound pressure level used on the outside of the building was modified to represent an open door condition at the NW portion of the building.

Signs and symbols

- Buildings
- Area Sources (Amplified Music/Voice & Patio Conversation etc.)
- Parking lot

Levels in dB(A)

- < 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- >= 70

1 : 300

0 100 200 400 600

Roma Environmental

Figure 14

Wine Club/Charity Events/
Small Business Booths
Noise Levels (dBA, Leq)

This exhibit represents noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq). Two outdoor speakers are assumed to be playing ambient music at 81.7 @ 5 feet.

Signs and symbols

- Buildings
- Receiver
- Point source (Speakers)
- Area Sources (Amplified Music/Voice & Patio Conversation etc.)
- Parking lot
- Noise Level Tables (dBA, Leq)

1 : 400

0 100 200 400 600 800 feet

Roma Environmental

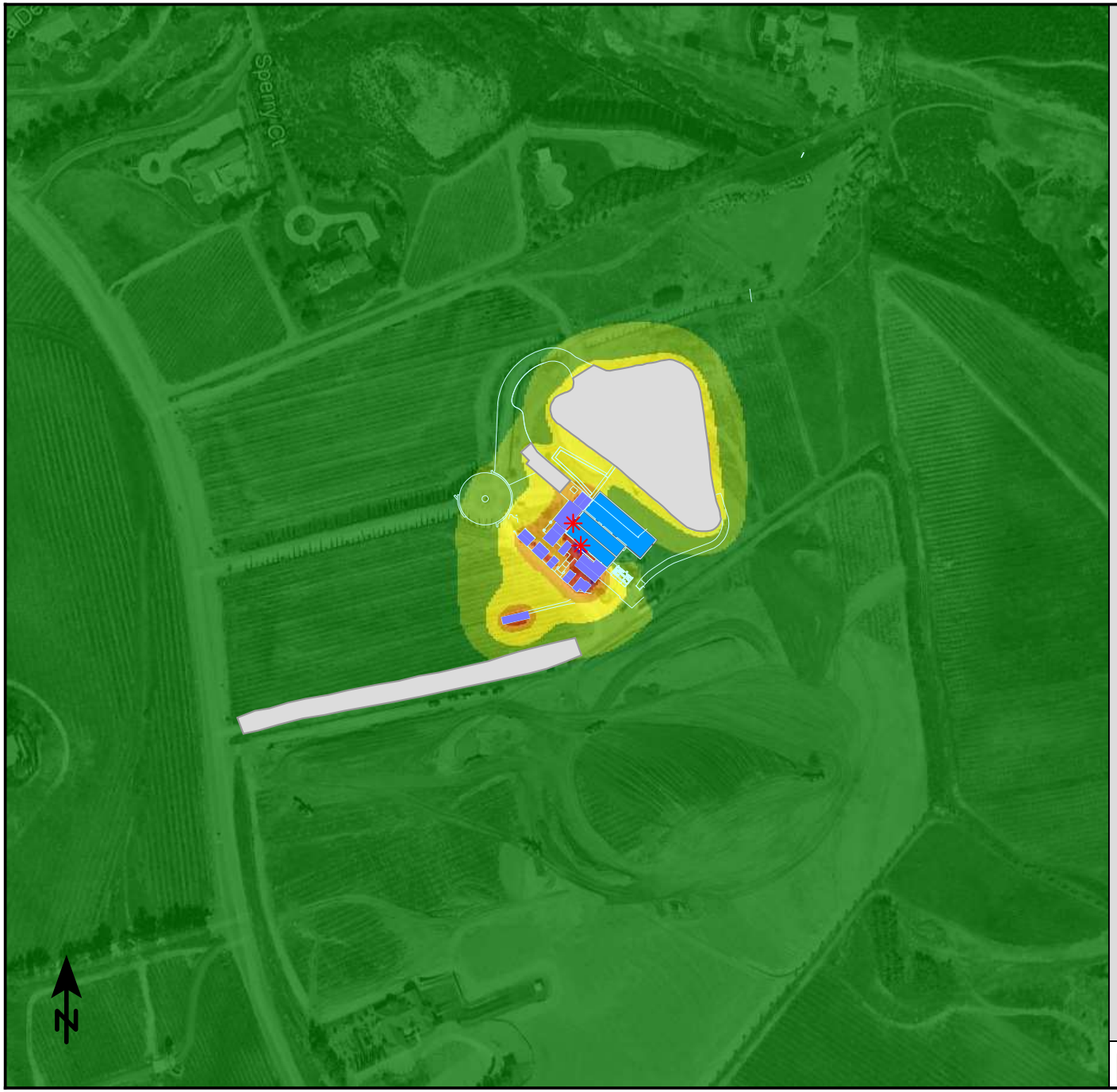


Figure 15

Wine Club/Charity Events/ Small Business Booths Noise Contours (dBA, Leq)

This exhibit represents noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq). Two outdoor speakers are assumed to be playing ambient music at 81.7 @ 5 feet.

Signs and symbols

- Buildings
- Point source (Speakers)
- Area Sources (Amplified Music/Voice & Patio Conversation etc.)
- Parking lot

Levels in dB(A)

- < 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- >= 70

1 : 300

0 100 200 400 600

Roma Environmental

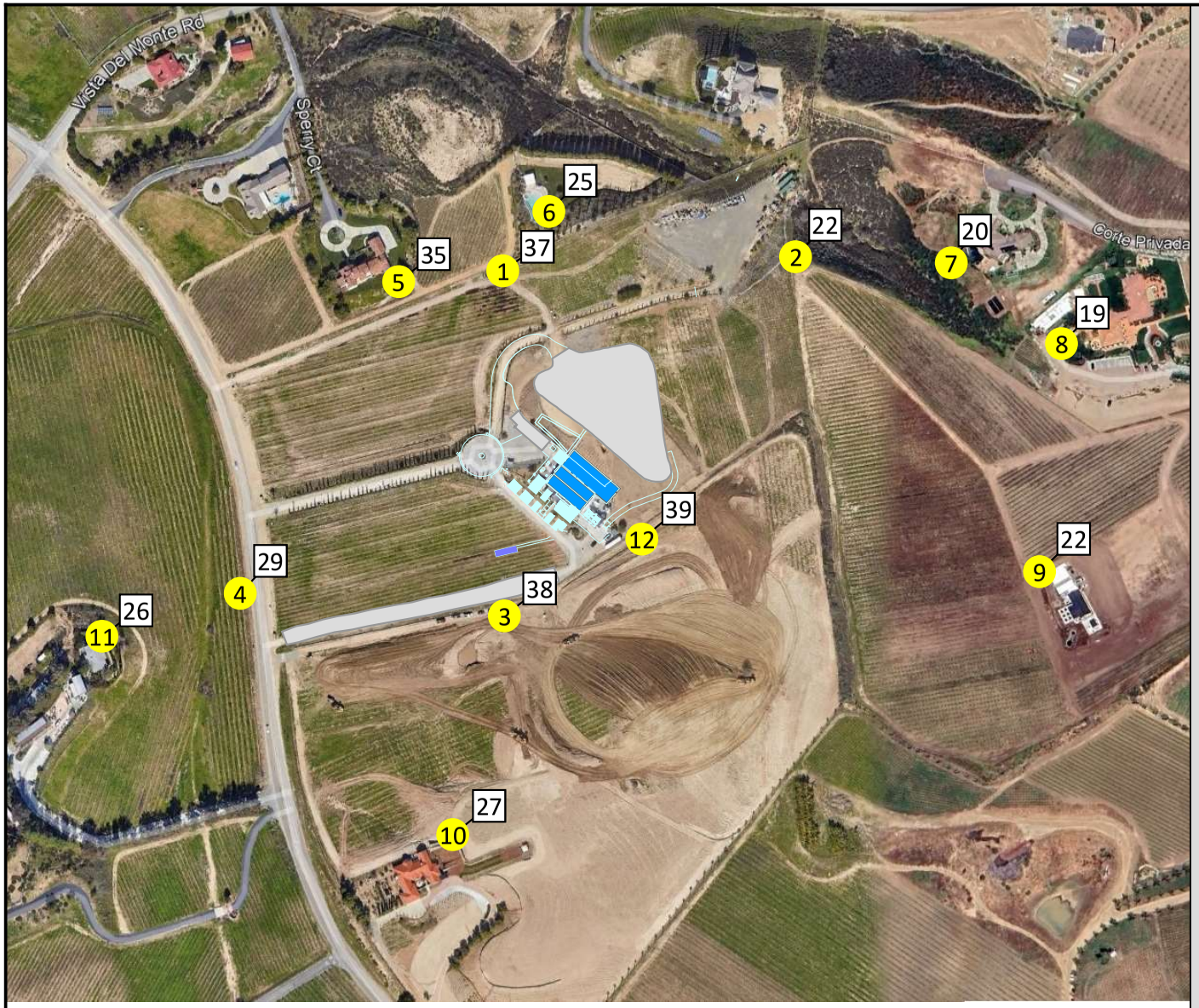


Figure 16

Wedding Ceremony
Noise Levels (dBA, Leq)

This exhibit represents noise levels associated a wedding ceremony on the vineyard patio with guests and normal conversation (65 dBA Leq).

Signs and symbols

- Buildings
- Receiver
- Area Sources (Voice/ Patio Conversation etc.)
- Parking lot
- Noise Level Tables (dBA, Leq)

1 : 400

0 100 200 400 600 800 feet

Roma Environmental

Figure 17

Wedding Ceremony
Noise Contours (dBA, Leq)

This exhibit represents noise levels associated a wedding ceremony on the vineyard patio with guests and normal conversation (65 dBA Leq).

Signs and symbols

- Buildings
- Area Sources (Voice/ Patio Conversation etc.)
- Parking lot

Levels in dB(A)

- < 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- >= 70

1 : 300

0 100 200 400 600

Roma Environmental

Figure 18

Maximum Level Without Maximum Noise Without Exceeding 65 dBA Leq Daytime Noise Standard Noise Levels (dBA, Leq)

This exhibit represents noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq). An interior noise level of 97 dBA Leq was also assumed to represent amplified music or voice.

If interior noise levels exceed 97 dBA Leq or if exterior noise levels at Receptor Location 13 exceed 76 dBA Leq, then it is likely that noise ordinance standards will be exceeded at nearby property lines.

Signs and symbols

- Buildings
- Receiver
- Area Sources (Tasting Room Amplified Music/Voice & Patio Conversation etc.)
- Parking lot
- Noise Level Tables (dBA, Leq)

1 : 400

0 100 200 400 600 800 feet

Roma Environmental

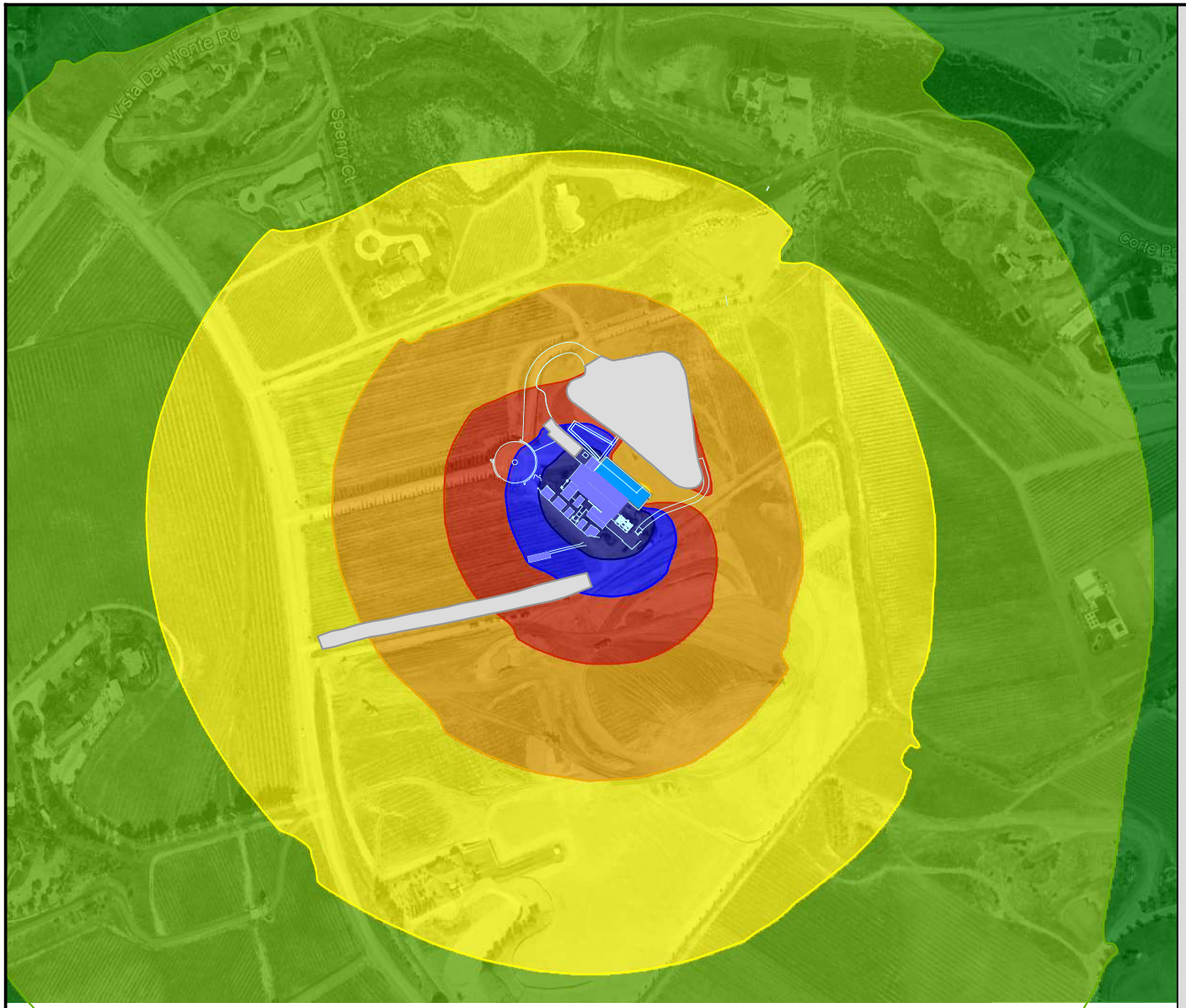


Figure 19

Maximum Level Without Maximum Noise Without Exceeding 65 dBA Leq Daytime Noise Standard Noise Contours (dBA, Leq)

This exhibit represents noise levels associated with all patio areas occupied and modeled to represent normal conversation (65 dBA Leq). An interior noise level of 97 dBA Leq was also assumed to represent amplified music or voice.

If interior noise levels exceed 97 dBA Leq or if exterior noise levels at Receptor Location 13 exceed 76 dBA Leq, then it is likely that noise ordinance standards will be exceeded at nearby property lines.

Signs and symbols

- Buildings
- Area Sources (Tasting Room Amplified Music/Voice & Patio Conversation etc.)
- Parking lot

Levels in dB(A)

- < 45
- 45 - 50
- 50 - 55
- 55 - 60
- 60 - 65
- 65 - 70
- >= 70

1 : 400

0 100 200 400 600 800 feet

Roma Environmental

V. References

California Department of Transportation
2013 Technical Noise Supplement to the Traffic Noise Analysis Protocol

Cyril M. Harris
1991 Handbook of Acoustical Measurement and Noise Control.

Riverside County
2015 General Plan Noise Element.

APPENDIX A

Larson Davis 820 Noise Measurement Data

Noise Measurement Field Data

Project Name: 39730 Calle Contento. Temecula, California 92591 **Date:** February 16, 2020

Project #:

Noise Measurement #: NM1 no music **Technician:** Ian Gallagher

Nearest Address or Cross Street: 40124 Sperry Ct, Temecula, California.

Site Description (Type of Existing Land Use and any other notable features): On-site : Rural, vineyard & commercial building, business as winery &

entertainment. Adjacent: Rural, low density residential N. S, E & W. Open land mostly used for agricultural purposes (growing grape vines).

Weather: Sunny, clear skies. Sunset: 5:36 PM. **Settings:** SLOW FAST

Temperature: 63 deg F **Wind:** 3-5 mph **Humidity:** 33% **Terrain:** Hilly

Start Time: 10:43 AM **End Time:** 10:53 AM **Run Time:** 10 minutes

Leq: 45.8 dB **Primary Noise Source:** One pass-by of an overhead small, propellor and jet aircraft.

Lmax 60 dB

L2 55.9 dB **Secondary Noise Sources:** Vehicle ambiance from Calle Contento, Vista Del Monte Road and other

L8 49.9 dB surrounding roads. Bird song. Machinery being operated on winery, fork lift.

L25 44.2 dB

L50 41.1 dB

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/19/2017
FIELD CALIBRATION DATE:	2/16/2020		

Roma Environmental

Noise Measurement Field Data

PHOTOS:

NM1 looking S towards 39730 Calle Contento, Temecula.

NM1 looking W towards residence 40124 Sperry Ct, Temecula.

Noise Measurement Field Data

Project Name: 39730 Calle Contento. Temecula, California 92591 **Date:** February 16, 2020

Project #: 2001

Noise Measurement #: NM1 with music **Technician:** Ian Gallagher

Nearest Address or Cross Street: 40124 Sperry Ct, Temecula, California.

Site Description (Type of Existing Land Use and any other notable features): On-site : Rural, vineyard & commercial building, business as winery & entertainment. Adjacent: Rural, low density residential N. S, E & W. Open land mostly used for agricultural purposes (growing grape vines).

Weather: Sunny, clear skies. Sunset: 5:36 PM. **Settings:** SLOW FAST

Temperature: 71 deg F **Wind:** 3-5 mph **Humidity:** 23% **Terrain:** Hilly

Start Time: 1:18 PM **End Time:** 1:28 PM **Run Time:** 10 minutes

Leq: 52 dB

Lmax 68.2 dB

L2 61.7 dB

L8 51.6 dB

L25 48.9 dB

L50 47.4 dB

Primary Noise Source: One pass-by of an overhead small, propellor and jet aircraft. Low flying plane at 1:23 PI

Music being played from music band at winery.

Secondary Noise Sources: Vehicle ambiance from Calle Contento, Vista Del Monte Road and other surrounding roads. Bird song.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/19/2017
FIELD CALIBRATION DATE:	2/16/2020		

Roma Environmental

Noise Measurement Field Data

PHOTOS:

NM1 looking S towards winery 39730 Calle Contento, Temecula.

NM1 looking W towards residence 40124 Sperry Ct, Temecula.

Noise Measurement Field Data

Project Name: 39730 Calle Contento. Temecula, California 92591 **Date:** February 16, 2020

Project #: 2001

Noise Measurement #: NM2 no music **Technician:** Ian Gallagher

Nearest Address or Cross Street: 33563 Vino Way Temecula, California.

Site Description (Type of Existing Land Use and any other notable features): On-site : Rural, vineyard & commercial building, business as winery & entertainment. Adjacent: Rural, low density residential N. S, E & W. Open land mostly used for agricultural purposes (growing grape vines).

Weather: Sunny, clear skies. Sunset: 5:36 PM. **Settings:** SLOW FAST

Temperature: 63 deg F **Wind:** 3-5 mph **Humidity:** 33% **Terrain:** Hilly

Start Time: 11:06 AM **End Time:** 11:16 AM **Run Time:** 10 minutes

Leq:	40.3	dB	**Primary Noise Source:** Over head small, propellor and jet aircraft.
Lmax	53.2	dB	
L2	48.4	dB	**Secondary Noise Sources:** Vehicle ambiance from Calle Contento, Vista Del Monte Road and other
L8	45.0	dB	surrounding roads. Bird song. Machinery being operated on winery, fork lift.
L25	40.3	dB	
L50	37.3	dB	

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/19/2017
FIELD CALIBRATION DATE:	2/16/2020		

Roma Environmental

Noise Measurement Field Data

PHOTOS:

NM2 looking N towards residence 33563 Vino Way, Temecula.

NM2 looking SW towards 39730 Calle Contento winery.

Noise Measurement Field Data

Project Name: 39730 Calle Contento. Temecula, California 92591 **Date:** February 16, 2020

Project #: 2001

Noise Measurement #: NM2 with music **Technician:** Ian Gallagher

Nearest Address or Cross Street: 33563 Vino Way Temecula, California.

Site Description (Type of Existing Land Use and any other notable features): On-site : Rural, vineyard & commercial building, business as winery & entertainment. Adjacent: Rural, low density residential N. S, E & W. Open land mostly used for agricultural purposes (growing grape vines).

Weather: Sunny, clear skies. Sunset: 5:36 PM. **Settings:** SLOW FAST

Temperature: 71 deg F **Wind:** 3-5 mph **Humidity:** 23% **Terrain:** Hilly

Start Time: 1:49 PM **End Time:** 1:59 PM **Run Time:** 10 minutes

Leq: 39.4 dB

Lmax 51.4 dB

L2 45.6 dB

L8 42.6 dB

L25 39.7 dB

L50 37.7 dB

Primary Noise Source: One over-head small, propellor and jet aircraft.

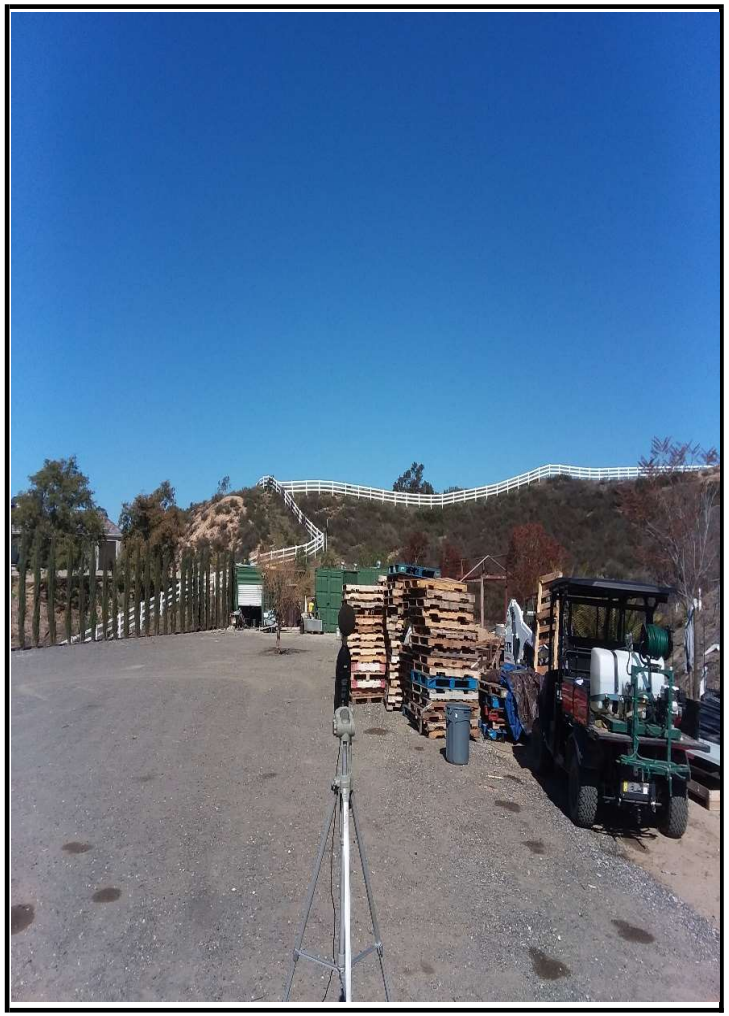
Secondary Noise Sources: Vehicle ambiance from Calle Contento, Vista Del Monte Road and other surrounding roads. Bird song. Machinery being operated on winery, fork lift.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/19/2017
FIELD CALIBRATION DATE:	2/16/2020		

Roma Environmental

Noise Measurement Field Data

PHOTOS:



NM2 looking N towards residence 33563 Vino Way, Temecula.

NM2 looking SW towards 39730 Calle Contento winery.

Noise Measurement Field Data

Project Name: 39730 Calle Contento. Temecula, California 92591 **Date:** February 16, 2020

Project #: 2001

Noise Measurement #: NM3 no music **Technician:** Ian Gallagher

Nearest Address or Cross Street: 39788 Calle Contento, Temecula, California

Site Description (Type of Existing Land Use and any other notable features): On-site : Rural, vineyard & commercial building, business as winery & entertainment. Adjacent: Rural, low density residential N. S, E & W. Open land mostly used for agricultural purposes (growing grape vines).

Weather: Sunny, clear skies. Sunset: 5:36 PM. **Settings:** SLOW FAST

Temperature: 65 deg F **Wind:** 3-5 mph **Humidity:** 30% **Terrain:** Hilly

Start Time: 11:37 AM **End Time:** 11:47 AM **Run Time:** 10 minutes

Leq: 50.5 dB

Lmax 60.4 dB

L2 57.7 dB

L8 54.7 dB

L25 50.8 dB

L50 48.4 dB

Primary Noise Source: On overhead small, propellor and jet aircraft. Vehicles arriving and departing from winery. No vehicles passed microphone during measurement.

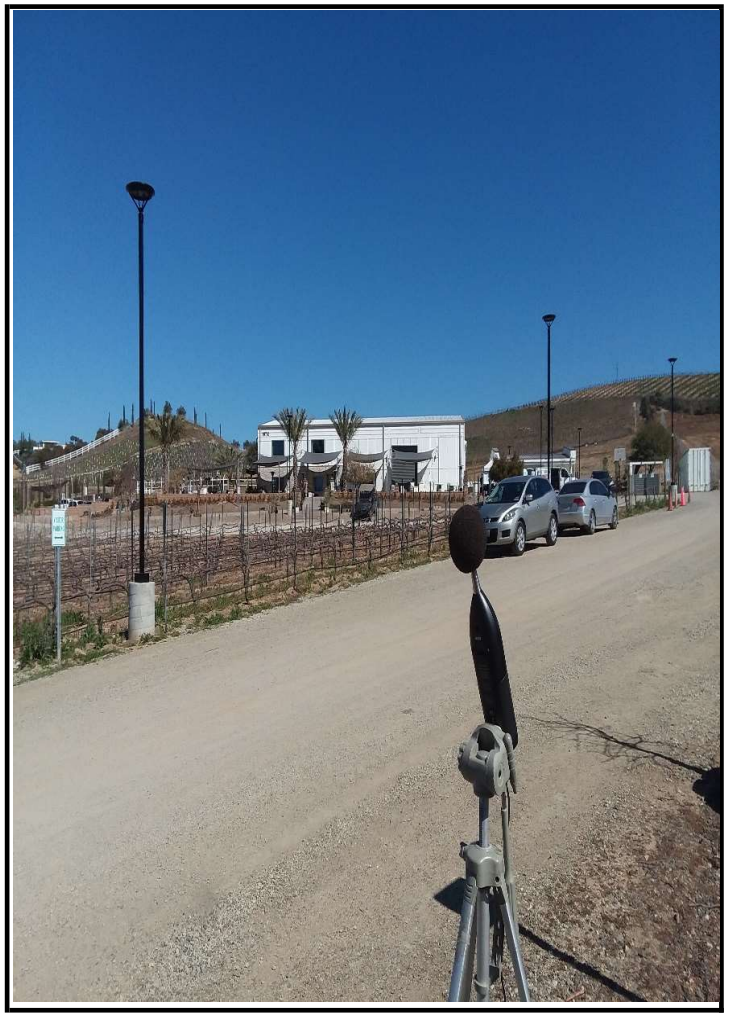
Secondary Noise Sources: Vehicle ambiance from Calle Contento, Vista Del Monte Road and other surrounding roads. Bird song. Machinery being operated on winery, fork lift.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/19/2017
FIELD CALIBRATION DATE:	2/16/2020		

Roma Environmental

Noise Measurement Field Data

PHOTOS:



NM3 looking NE back towards winery 39730 Calle Contento.

NM3 looking WSW down winery exit road to Calle Contento.

Noise Measurement Field Data

Project Name: 39730 Calle Contento. Temecula, California 92591 **Date:** February 16, 2020

Project #: 2001

Noise Measurement #: NM3 with music **Technician:** Ian Gallagher

Nearest Address or Cross Street: 39788 Calle Contento, Temecula, California

Site Description (Type of Existing Land Use and any other notable features): On-site : Rural, vineyard & commercial building, business as winery & entertainment. Adjacent: Rural, low density residential N. S, E & W. Open land mostly used for agricultural purposes (growing grape vines).

Weather: Sunny, clear skies. Sunset: 5:36 PM. **Settings:** SLOW FAST

Temperature: 71 deg F **Wind:** 3-5 mph **Humidity:** 23% **Terrain:** Hilly

Start Time: 2:27 PM **End Time:** 2:37 PM **Run Time:** 10 minutes

Leq: 46.6 dB

Lmax 62.7 dB

L2 53.5 dB

L8 48.9 dB

L25 46.0 dB

L50 44.4 dB

Primary Noise Source: One overhead small, propellor and jet aircraft. Vehicles arriving and departing from winery. One vehicle passed microphone at 2:37 PM.

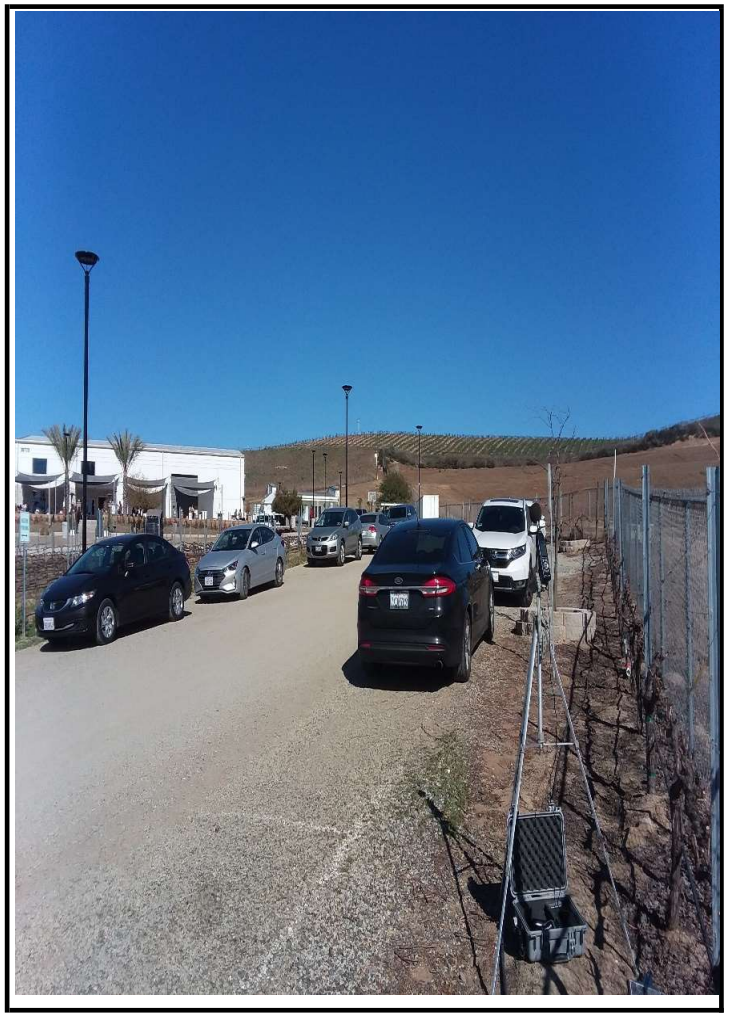
Secondary Noise Sources: Vehicle ambiance from Calle Contento, Vista Del Monte Road and other surrounding roads. Bird song. Winery customers and band music.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/19/2017
FIELD CALIBRATION DATE:	2/16/2020		

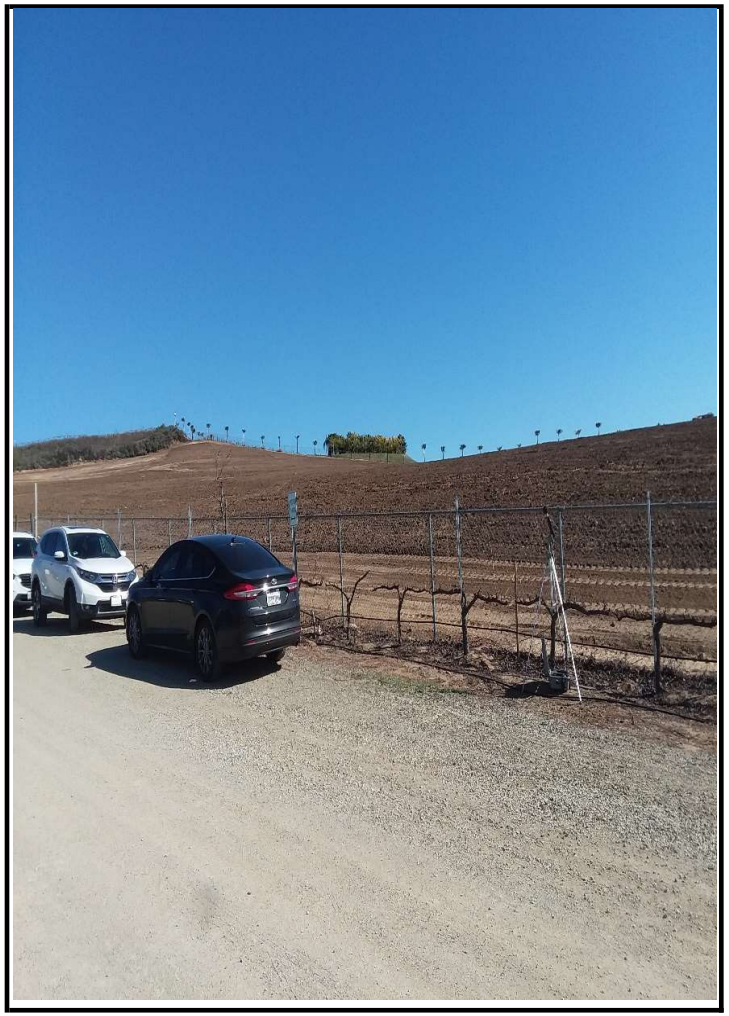
Roma Environmental

Noise Measurement Field Data

PHOTOS:



NM3 looking NE back towards winery 39730 Calle Contento.



NM3 looking SW across land of residence 39788 Calle Contento..

Noise Measurement Field Data

Project Name: 39730 Calle Contento. Temecula, California 92591 **Date:** February 16, 2020

Project #: 2001

Noise Measurement #: NM4 no music **Technician:** Ian Gallagher

Nearest Address or Cross Street: 39555 Calle Contento, Temecula, California

Site Description (Type of Existing Land Use and any other notable features): On-site : Rural, vineyard & commercial building, business as winery & entertainment. Adjacent: Rural, low density residential N. S, E & W. Open land mostly used for agricultural purposes (growing grape vines).

Weather: Sunny, clear skies. Sunset: 5:36 PM. **Settings:** SLOW FAST

Temperature: 65 deg F **Wind:** 3-5 mph **Humidity:** 30% **Terrain:** Hilly

Start Time: 12:01 PM **End Time:** 12:11 PM **Run Time:** 10 minutes

Leq: 63.9 dB

Lmax 80.2 dB

L2 74.7 dB

L8 69.8 dB

L25 57.5 dB

L50 44.8 dB

Primary Noise Source: Traffic noise from vehicles passing microphone travelling along Calle Contento.

19 vehicles passed microphone during measurement.

Secondary Noise Sources: Vehicles arriving and departing winery. Overhead jet and propellor aircraft.

Bird song. Machinery being operated on winery, workers pruning vines.

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/19/2017
FIELD CALIBRATION DATE:	2/16/2020		

Roma Environmental

Noise Measurement Field Data

PHOTOS:

NM4 looking ENE across Calle Contento towards winery 39730 Calle Contento, Temecula.

NM4 looking WSW towards residence 39555 Calle Contento, Temecula.

Noise Measurement Field Data

Project Name: 39730 Calle Contento. Temecula, California 92591 **Date:** February 16, 2020

Project #: 2001

Noise Measurement #: NM4 with music **Technician:** Ian Gallagher

Nearest Address or Cross Street: 39555 Calle Contento, Temecula, California

Site Description (Type of Existing Land Use and any other notable features): On-site : Rural, vineyard & commercial building, business as winery & entertainment. Adjacent: Rural, low density residential N. S, E & W. Open land mostly used for agricultural purposes (growing grape vines).

Weather: Sunny, clear skies. Sunset: 5:36 PM. **Settings:** SLOW FAST

Temperature: 71 deg F **Wind:** 3-5 mph **Humidity:** 23% **Terrain:** Hilly

Start Time: 2:53 PM **End Time:** 3:03 PM **Run Time:** 10 minutes

Leq: 63.1 dB **Primary Noise Source:** Traffic noise from vehicles passing microphone travelling along Calle Contento.

Lmax 75.6 dB 33 vehicles passed microphone during measurement.

L2 72.9 dB **Secondary Noise Sources:** Vehicles arriving and departing winery. Overhead jet and propellor aircraft.

L8 68.8 dB Bird song. Machinery being operated on winery, workers pruning vines.

L25 60.7 dB

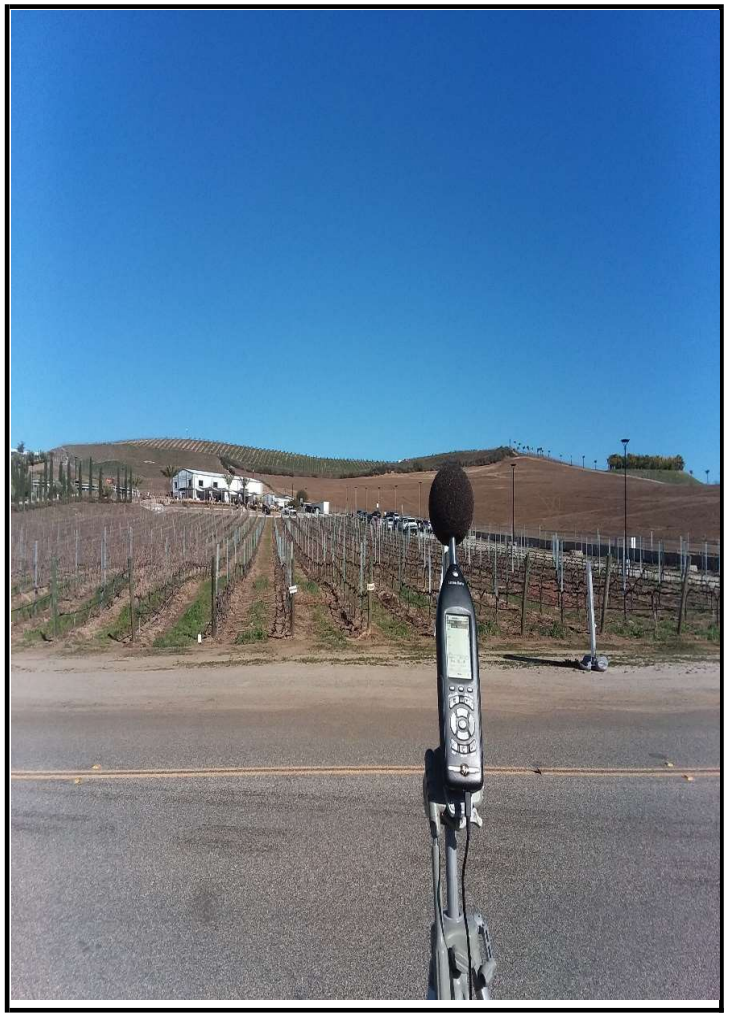
L50 52.1 dB

NOISE METER:	SoundTrack LXT Class 1	**CALIBRATOR:**	Larson Davis CAL250
MAKE:	Larson Davis	**MAKE:**	Larson Davis
MODEL:	LXT1	**MODEL:**	Cal 250
SERIAL NUMBER:	3099	**SERIAL NUMBER:**	2733
FACTORY CALIBRATION DATE:	6/23/2017	**FACTORY CALIBRATION DATE:**	6/19/2017
FIELD CALIBRATION DATE:	2/16/2020		

Roma Environmental

Noise Measurement Field Data

PHOTOS:



NM4 looking ENE across Calle Contento towards winery 39730 Calle Contento, Temecula.

NM4 looking WSW towards residence 39555 Calle Contento, Temecula.

APPENDIX B

SoundPLAN Input/Output

Noise emissions of industry sources - Yoga

Source name	Reference	Level Day dB(A)	Frequency spectrum [dB(A)] 500 Hz	Corrections Cwall dB	CI dB	CT dB
1	Lw/m²	-	63.0	-	-	-
2	Lw/m²	-	63.0	-	-	-
3	Lw/m²	-	63.0	-	-	-
4	Lw/m²	-	63.0	-	-	-
5	Lw/m²	-	63.0	-	-	-

Noise emissions of parking lot traffic

Name	Parking lot type	Size	Movements per hour Day	Road surface	Separated method	Lw,ref dB(A)
1	Visitors and staff	13 Parking bays	0.600	Asphaltic driving lanes	no	75.6
2	Visitors and staff	131 Parking bays	0.600	Asphaltic driving lanes	no	89.4
3	Visitors and staff	46 Parking bays	0.000	Asphaltic driving lanes	no	83.5

Receiver list

No.	Receiver name	Building side	Floor	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
1	1	-	EG	-	37.9	-
2	2	-	EG	-	20.2	-
3	3	-	EG	-	35.3	-
4	4	-	EG	-	30.1	-
5	5	-	EG	-	35.1	-
6	6	-	EG	-	27.7	-
7	7	-	EG	-	21.7	-
8	8	-	EG	-	14.8	-
9	9	-	EG	-	20.2	-
10	10	-	EG	-	25.5	-
11	11	-	EG	-	24.1	-
12	14	-	EG	-	39.4	-

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
1	EG		37.9	0.0
1		-	24.7	
1		-	29.8	
2		-	36.8	
2		-	20.1	
3		-	16.7	
3		-	-	
4		-	5.6	
5		-	5.2	
2	EG		20.2	0.0
1		-	3.6	
1		-	7.3	
2		-	19.8	
2		-	-1.7	
3		-	-5.2	
3		-	-	
4		-	-16.1	
5		-	-17.0	
3	EG		35.3	0.0
1		-	23.3	
1		-	31.0	
2		-	30.8	
2		-	26.3	
3		-	23.9	
3		-	-	
4		-	11.4	
5		-	11.9	
4	EG		30.1	0.0
1		-	17.4	
1		-	24.1	
2		-	28.0	
2		-	17.5	
3		-	14.4	
3		-	-	
4		-	2.8	
5		-	2.6	
5	EG		35.1	0.0
1		-	22.1	
1		-	28.1	
2		-	33.6	
2		-	19.1	
3		-	15.8	
3		-	-	
4		-	4.6	
5		-	4.1	
6	EG		27.7	0.0
1		-	11.7	
1		-	17.8	
2		-	27.0	
2		-	8.3	
3		-	5.2	
3		-	-	
4		-	-6.2	
5		-	-6.4	
7	EG		21.7	0.0
1		-	7.2	
1		-	15.1	
2		-	20.4	
2		-	-1.6	
3		-	-4.3	

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
3		-	-	
4		-	-16.3	
5		-	-16.4	
8	EG		14.8	0.0
1		-	-0.7	
1		-	3.4	
2		-	14.3	
2		-	-3.9	
3		-	-6.4	
3		-	-	
4		-	-18.7	
5		-	-18.4	
9	EG		20.2	0.0
1		-	3.7	
1		-	5.9	
2		-	19.8	
2		-	2.0	
3		-	2.1	
3		-	-	
4		-	-13.1	
5		-	-11.4	
10	EG		25.5	0.0
1		-	10.0	
1		-	21.0	
2		-	22.2	
2		-	15.6	
3		-	12.0	
3		-	-	
4		-	0.1	
5		-	2.4	
11	EG		24.1	0.0
1		-	9.0	
1		-	19.8	
2		-	20.9	
2		-	12.8	
3		-	9.7	
3		-	-	
4		-	-1.9	
5		-	-2.1	
14	EG		39.4	0.0
1		-	13.4	
1		-	21.9	
2		-	38.9	
2		-	25.7	
3		-	23.9	
3		-	-	
4		-	11.3	
5		-	12.3	

Noise emissions of industry sources - Indoor Amplified Closed

Source name	Reference	Level Day dB(A)	Frequency spectrum [dB(A)] 500 Hz	Corrections Cwall dB	CI dB	CT dB
1	Lw/m²	-	63.0	-	-	-
2	Lw/m²	-	63.0	-	-	-
3	Lw/m²	-	63.0	-	-	-
4	Lw/m²	-	63.0	-	-	-
5	Lw/m²	-	63.0	-	-	-
6	Lw/m²	-	63.0	-	-	-
7	Lw/m²	-	63.0	-	-	-
9	Lw/m²	-	63.0	-	-	-
10	Lw/m²	-	63.0	-	-	-
11	Lw/m²	-	63.0	-	-	-
12	Lw/m²	-	63.0	-	-	-
13	Lw/m²	-	63.0	-	-	-
14	Lw/m²	-	63.0	-	-	-
15	Lw/m²	-	63.0	-	-	-
16	Lw/m²	-	63.0	-	-	-
17	Lw/m²	-	63.0	-	-	-
18	Lw/m²	-	63.0	-	-	-
19	Lw/m²	-	72.5	3.0	-	-
20	Lw/m²	-	72.5	3.0	-	-
21	Lw/m²	-	72.5	3.0	-	-
22	Lw/m²	-	72.5	3.0	-	-
23	Lw/m²	-	72.5	3.0	-	-
24	Lw/m²	-	72.5	-	-	-
25	Lw/m²	-	72.5	-	-	-

Noise emissions of parking lot traffic

Name	Parking lot type	Size	Movements per hour Day	Road surface	Separated method	Lw,ref dB(A)
1	Visitors and staff	13 Parking bays	0.600	Asphaltic driving lanes	no	75.6
2	Visitors and staff	131 Parking bays	0.600	Asphaltic driving lanes	no	89.4
3	Visitors and staff	46 Parking bays	0.000	Asphaltic driving lanes	no	83.5

Receiver list

No.	Receiver name	Building side	Floor	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
1	2	-	EG	-	41.2	-
2		-	EG	-	24.9	-
3	3	-	EG	-	48.8	-
4	4	-	EG	-	39.4	-
5	5	-	EG	-	39.7	-
6	6	-	EG	-	30.1	-
7	7	-	EG	-	23.3	-
8	8	-	EG	-	22.0	-
9	9	-	EG	-	27.4	-
10	10	-	EG	-	39.0	-
11	11	-	EG	-	36.3	-
12	12	-	EG	-	51.9	-

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
2	EG		41.2	0.0
1		-	24.4	
1		-	20.8	
2		-	37.0	
2		-	20.2	
3		-	-	
3		-	16.8	
4		-	15.8	
5		-	16.2	
6		-	12.5	
7		-	24.7	
9		-	6.4	
10		-	9.0	
11		-	4.9	
12		-	6.3	
13		-	8.3	
14		-	9.3	
15		-	5.7	
16		-	3.9	
17		-	5.2	
18		-	-9.4	
19		-	19.0	
20		-	18.1	
21		-	28.2	
22		-	35.3	
23		-	35.0	
24		-	13.2	
25		-	13.2	
2	EG		24.9	0.0
1		-	7.1	
1		-	2.6	
2		-	22.3	
2		-	-0.5	
3		-	-	
3		-	-4.6	
4		-	-4.8	
5		-	0.7	
6		-	1.0	
7		-	3.8	
9		-	-14.0	
10		-	-12.3	
11		-	-16.8	
12		-	-11.9	
13		-	-13.5	
14		-	-12.7	
15		-	-14.9	
16		-	-16.8	
17		-	-16.3	
18		-	-18.5	
19		-	12.9	
20		-	13.9	
21		-	17.3	
22		-	11.8	
23		-	11.6	
24		-	-4.2	
25		-	-4.2	
3	EG		48.8	0.0
1		-	23.0	
1		-	25.9	
2		-	30.1	
2		-	27.1	
3		-	-	
3		-	24.7	

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
4	-	24.8
5	-	30.9
6	-	32.0
7	-	17.8
9	-	11.6
10	-	8.4
11	-	11.5
12	-	11.0
13	-	10.5
14	-	-5.1
15	-	12.4
16	-	12.6
17	-	12.9
18	-	13.5
19	-	41.3
20	-	41.5
21	-	46.1
22	-	26.4
23	-	30.3
24	-	19.0
25	-	20.7
4 EG		39.4 0.0
1	-	17.4
1	-	18.0
2	-	27.9
2	-	17.6
3	-	-
3	-	14.5
4	-	15.2
5	-	21.2
6	-	22.5
7	-	18.7
9	-	2.6
10	-	3.3
11	-	4.4
12	-	3.2
13	-	2.4
14	-	4.0
15	-	2.9
16	-	2.4
17	-	2.7
18	-	4.2
19	-	16.7
20	-	20.4
21	-	36.9
22	-	30.4
23	-	30.8
24	-	12.5
25	-	13.3
5 EG		39.7 0.0
1	-	22.5
1	-	20.1
2	-	34.4
2	-	19.4
3	-	-
3	-	16.0
4	-	15.4
5	-	20.7
6	-	22.0
7	-	23.0
9	-	5.1
10	-	7.6
11	-	4.6

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
12	-	5.5
13	-	6.4
14	-	7.5
15	-	4.8
16	-	3.6
17	-	4.3
18	-	-1.6
19	-	17.0
20	-	17.0
21	-	29.8
22	-	33.7
23	-	33.7
24	-	12.3
25	-	12.4
6 EG		30.1 0.(
1	-	11.8
1	-	10.3
2	-	24.5
2	-	9.6
3	-	-
3	-	6.1
4	-	2.1
5	-	5.3
6	-	5.1
7	-	12.2
9	-	-4.1
10	-	-2.6
11	-	-7.4
12	-	-4.3
13	-	-2.7
14	-	-3.1
15	-	-5.0
16	-	-12.0
17	-	-5.5
18	-	-15.3
19	-	14.3
20	-	14.3
21	-	20.8
22	-	23.8
23	-	23.9
24	-	2.1
25	-	2.6
7 EG		23.3 0.(
1	-	5.5
1	-	0.5
2	-	20.2
2	-	-1.6
3	-	-
3	-	-4.8
4	-	-4.9
5	-	1.5
6	-	0.7
7	-	5.2
9	-	-16.6
10	-	-14.2
11	-	-17.7
12	-	-14.0
13	-	-16.7
14	-	-17.7
15	-	-16.4
16	-	-17.1
17	-	-16.6
18	-	-19.6

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
19		-	12.1	
20		-	13.9	
21		-	15.6	
22		-	9.7	
23		-	9.7	
24		-	-4.6	
25		-	-1.4	
8	EG		22.0	0.0
1		-	3.6	
1		-	-1.5	
2		-	18.0	
2		-	-2.0	
3		-	-	
3		-	-4.9	
4		-	-4.8	
5		-	6.5	
6		-	3.3	
7		-	-1.2	
9		-	-18.1	
10		-	-18.0	
11		-	-18.2	
12		-	-16.1	
13		-	-18.9	
14		-	-21.5	
15		-	-17.0	
16		-	-17.3	
17		-	-16.9	
18		-	-18.4	
19		-	11.6	
20		-	13.8	
21		-	14.5	
22		-	8.3	
23		-	8.4	
24		-	-5.0	
25		-	-1.3	
9	EG		27.4	0.0
1		-	5.6	
1		-	3.7	
2		-	20.8	
2		-	4.4	
3		-	-	
3		-	5.6	
4		-	5.3	
5		-	10.8	
6		-	11.2	
7		-	-3.5	
9		-	-14.3	
10		-	-17.2	
11		-	-13.4	
12		-	-11.8	
13		-	-18.0	
14		-	-21.5	
15		-	-10.9	
16		-	-6.5	
17		-	-8.6	
18		-	-10.1	
19		-	19.1	
20		-	23.5	
21		-	17.2	
22		-	10.8	
23		-	10.7	
24		-	4.6	
25		-	5.2	

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
10	EG		39.0	0.(
1		-	10.9	
1		-	15.7	
2		-	24.7	
2		-	16.8	
3		-	-	
3		-	14.4	
4		-	15.0	
5		-	20.0	
6		-	21.8	
7		-	7.4	
9		-	2.0	
10		-	-1.2	
11		-	1.1	
12		-	0.9	
13		-	0.9	
14		-	-13.5	
15		-	2.5	
16		-	3.5	
17		-	2.9	
18		-	3.4	
19		-	32.0	
20		-	32.1	
21		-	35.7	
22		-	18.1	
23		-	19.0	
24		-	12.4	
25		-	13.5	
11	EG		36.3	0.(
1		-	13.6	
1		-	13.6	
2		-	24.9	
2		-	13.4	
3		-	-	
3		-	10.4	
4		-	10.9	
5		-	17.3	
6		-	18.9	
7		-	16.0	
9		-	-1.5	
10		-	0.3	
11		-	1.2	
12		-	-1.1	
13		-	-0.8	
14		-	1.1	
15		-	-1.3	
16		-	-1.6	
17		-	-1.4	
18		-	0.5	
19		-	15.2	
20		-	17.4	
21		-	33.8	
22		-	27.4	
23		-	27.6	
24		-	9.5	
25		-	10.5	
12	EG		51.9	0.(
1		-	13.1	
1		-	24.9	
2		-	39.1	
2		-	26.1	
3		-	-	
3		-	24.1	

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
4	-	25.6
5	-	32.8
6	-	34.0
7	-	11.0
9	-	6.6
10	-	-3.5
11	-	11.0
12	-	10.3
13	-	0.3
14	-	-6.4
15	-	11.6
16	-	14.1
17	-	12.7
18	-	15.6
19	-	48.2
20	-	47.8
21	-	41.7
22	-	25.9
23	-	25.7
24	-	23.5
25	-	22.9

Noise emissions of industry sources - Indoor Amplified Open

Source name	Reference	Level Day dB(A)	Frequency spectrum [dB(A)] 500 Hz	Corrections Cwall dB	CI dB	CT dB
1	Lw/m²	-	63.0	-	-	-
2	Lw/m²	-	63.0	-	-	-
3	Lw/m²	-	63.0	-	-	-
4	Lw/m²	-	63.0	-	-	-
5	Lw/m²	-	63.0	-	-	-
6	Lw/m²	-	63.0	-	-	-
7	Lw/m²	-	63.0	-	-	-
8	Lw/m²	-	63.0	-	-	-
9	Lw/m²	-	63.0	-	-	-
10	Lw/m²	-	63.0	-	-	-
11	Lw/m²	-	63.0	-	-	-
12	Lw/m²	-	63.0	-	-	-
13	Lw/m²	-	63.0	-	-	-
14	Lw/m²	-	63.0	-	-	-
15	Lw/m²	-	63.0	-	-	-
16	Lw/m²	-	63.0	-	-	-
17	Lw/m²	-	63.0	-	-	-
18	Lw/m²	-	63.0	-	-	-
19	Lw/m²	-	72.5	3.0	-	-
20	Lw/m²	-	72.5	3.0	-	-
21	Lw/m²	-	72.5	3.0	-	-
22	Lw/m²	-	87.5	3.0	-	-
23	Lw/m²	-	72.5	3.0	-	-
24	Lw/m²	-	72.5	-	-	-
25	Lw/m²	-	72.5	-	-	-

Noise emissions of parking lot traffic

Name	Parking lot type	Size	Movements per hour Day	Road surface	Separated method	Lw,ref dB(A)
1	Visitors and staff	13 Parking bays	0.600	Asphaltic driving lanes	no	75.6
2	Visitors and staff	131 Parking bays	0.600	Asphaltic driving lanes	no	89.4
3	Visitors and staff	46 Parking bays	0.000	Asphaltic driving lanes	no	83.5

Receiver list

No.	Receiver name	Building side	Floor	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
1	2	-	EG	-	41.3	-
2		-	EG	-	24.9	-
3	3	-	EG	-	49.0	-
4	4	-	EG	-	39.5	-
5	5	-	EG	-	39.8	-
6	6	-	EG	-	30.2	-
7	7	-	EG	-	23.3	-
8	8	-	EG	-	22.1	-
9	9	-	EG	-	27.5	-
10	10	-	EG	-	39.0	-
11	11	-	EG	-	36.3	-
12	12	-	EG	-	52.0	-

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
2	EG		50.6	0.0
1		-	24.4	
1		-	20.8	
2		-	37.0	
2		-	20.2	
3		-	-	
3		-	16.8	
4		-	15.8	
5		-	16.2	
6		-	12.5	
7		-	24.7	
8		-	22.6	
9		-	6.4	
10		-	9.0	
11		-	4.9	
12		-	6.3	
13		-	8.3	
14		-	9.3	
15		-	5.7	
16		-	3.9	
17		-	5.2	
18		-	-9.4	
19		-	19.0	
20		-	18.1	
21		-	28.2	
22		-	50.3	
23		-	35.0	
24		-	13.2	
25		-	13.2	
2	EG		28.9	0.0
1		-	7.1	
1		-	2.6	
2		-	22.3	
2		-	-0.5	
3		-	-	
3		-	-4.6	
4		-	-4.8	
5		-	0.7	
6		-	1.0	
7		-	3.8	
8		-	2.9	
9		-	-14.0	
10		-	-12.3	
11		-	-16.8	
12		-	-11.9	
13		-	-13.5	
14		-	-12.7	
15		-	-14.9	
16		-	-16.8	
17		-	-16.3	
18		-	-18.5	
19		-	12.9	
20		-	13.9	
21		-	17.3	
22		-	26.8	
23		-	11.6	
24		-	-4.2	
25		-	-4.2	
3	EG		49.7	0.0
1		-	23.0	
1		-	25.9	
2		-	30.1	
2		-	27.1	

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
3	-	-
3	-	24.7
4	-	24.8
5	-	30.9
6	-	32.0
7	-	17.8
8	-	36.6
9	-	11.6
10	-	8.4
11	-	11.5
12	-	11.0
13	-	10.5
14	-	-5.1
15	-	12.4
16	-	12.6
17	-	12.9
18	-	13.5
19	-	41.3
20	-	41.5
21	-	46.1
22	-	41.4
23	-	30.3
24	-	19.0
25	-	20.7
4 EG		46.3 0.0
1	-	17.4
1	-	18.0
2	-	27.9
2	-	17.6
3	-	-
3	-	14.5
4	-	15.2
5	-	21.2
6	-	22.5
7	-	18.7
8	-	22.9
9	-	2.6
10	-	3.3
11	-	4.4
12	-	3.2
13	-	2.4
14	-	4.0
15	-	2.9
16	-	2.4
17	-	2.7
18	-	4.2
19	-	16.7
20	-	20.4
21	-	36.9
22	-	45.4
23	-	30.8
24	-	12.5
25	-	13.3
5 EG		49.1 0.0
1	-	22.5
1	-	20.1
2	-	34.4
2	-	19.4
3	-	-
3	-	16.0
4	-	15.4
5	-	20.7
6	-	22.0

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
7	-	23.0
8	-	22.3
9	-	5.1
10	-	7.6
11	-	4.6
12	-	5.5
13	-	6.4
14	-	7.5
15	-	4.8
16	-	3.6
17	-	4.3
18	-	-1.6
19	-	17.0
20	-	17.0
21	-	29.8
22	-	48.7
23	-	33.7
24	-	12.3
25	-	12.4
6 EG		39.2 0.(
1	-	11.8
1	-	10.3
2	-	24.5
2	-	9.6
3	-	-
3	-	6.1
4	-	2.1
5	-	5.3
6	-	5.1
7	-	12.2
8	-	13.5
9	-	-4.1
10	-	-2.6
11	-	-7.4
12	-	-4.3
13	-	-2.7
14	-	-3.1
15	-	-5.0
16	-	-12.0
17	-	-5.5
18	-	-15.3
19	-	14.3
20	-	14.3
21	-	20.8
22	-	38.8
23	-	23.9
24	-	2.1
25	-	2.6
7 EG		27.0 0.(
1	-	5.5
1	-	0.5
2	-	20.2
2	-	-1.6
3	-	-
3	-	-4.8
4	-	-4.9
5	-	1.5
6	-	0.7
7	-	5.2
8	-	4.5
9	-	-16.6
10	-	-14.2
11	-	-17.7

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
12		-	-14.0	
13		-	-16.7	
14		-	-17.7	
15		-	-16.4	
16		-	-17.1	
17		-	-16.6	
18		-	-19.6	
19		-	12.1	
20		-	13.9	
21		-	15.6	
22		-	24.7	
23		-	9.7	
24		-	-4.6	
25		-	-1.4	
8	EG		25.7	0.(
1		-	3.6	
1		-	-1.5	
2		-	18.0	
2		-	-2.0	
3		-	-	
3		-	-4.9	
4		-	-4.8	
5		-	6.5	
6		-	3.3	
7		-	-1.2	
8		-	8.6	
9		-	-18.1	
10		-	-18.0	
11		-	-18.2	
12		-	-16.1	
13		-	-18.9	
14		-	-21.5	
15		-	-17.0	
16		-	-17.3	
17		-	-16.9	
18		-	-18.4	
19		-	11.6	
20		-	13.8	
21		-	14.5	
22		-	23.3	
23		-	8.4	
24		-	-5.0	
25		-	-1.3	
9	EG		29.7	0.(
1		-	5.6	
1		-	3.7	
2		-	20.8	
2		-	4.4	
3		-	-	
3		-	5.6	
4		-	5.3	
5		-	10.8	
6		-	11.2	
7		-	-3.5	
8		-	12.7	
9		-	-14.3	
10		-	-17.2	
11		-	-13.4	
12		-	-11.8	
13		-	-18.0	
14		-	-21.5	
15		-	-10.9	
16		-	-6.5	

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
17		-	-8.6	
18		-	-10.1	
19		-	19.1	
20		-	23.5	
21		-	17.2	
22		-	25.8	
23		-	10.7	
24		-	4.6	
25		-	5.2	
10	EG		40.0	0.(
1		-	10.9	
1		-	15.7	
2		-	24.7	
2		-	16.8	
3		-	-	
3		-	14.4	
4		-	15.0	
5		-	20.0	
6		-	21.8	
7		-	7.4	
8		-	21.7	
9		-	2.0	
10		-	-1.2	
11		-	1.1	
12		-	0.9	
13		-	0.9	
14		-	-13.5	
15		-	2.5	
16		-	3.5	
17		-	2.9	
18		-	3.4	
19		-	32.0	
20		-	32.1	
21		-	35.7	
22		-	33.1	
23		-	19.0	
24		-	12.4	
25		-	13.5	
11	EG		43.2	0.(
1		-	13.6	
1		-	13.6	
2		-	24.9	
2		-	13.4	
3		-	-	
3		-	10.4	
4		-	10.9	
5		-	17.3	
6		-	18.9	
7		-	16.0	
8		-	18.5	
9		-	-1.5	
10		-	0.3	
11		-	1.2	
12		-	-1.1	
13		-	-0.8	
14		-	1.1	
15		-	-1.3	
16		-	-1.6	
17		-	-1.4	
18		-	0.5	
19		-	15.2	
20		-	17.4	
21		-	33.8	

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
22	-	42.4
23	-	27.6
24	-	9.5
25	-	10.5
12 EG		52.3 0.(
1	-	13.1
1	-	24.9
2	-	39.1
2	-	26.1
3	-	-
3	-	24.1
4	-	25.6
5	-	32.8
6	-	34.0
7	-	11.0
8	-	29.3
9	-	6.6
10	-	-3.5
11	-	11.0
12	-	10.3
13	-	0.3
14	-	-6.4
15	-	11.6
16	-	14.1
17	-	12.7
18	-	15.6
19	-	48.2
20	-	47.8
21	-	41.7
22	-	40.9
23	-	25.7
24	-	23.5
25	-	22.9

Noise emissions of industry sources - Wine Club

Source name	Reference	Level Day dB(A)	Frequency spectrum [dB(A)] 500 Hz	Corrections Cwall dB	CI dB	CT dB
1	Lw/m²	-	63.0	-	-	-
2	Lw/m²	-	63.0	-	-	-
3	Lw/m²	-	63.0	-	-	-
4	Lw/m²	-	63.0	-	-	-
5	Lw/m²	-	63.0	-	-	-
6	Lw/m²	-	63.0	-	-	-
7	Lw/m²	-	63.0	-	-	-
8	Lw/m²	-	63.0	-	-	-
9	Lw/m²	-	63.0	-	-	-
10	Lw/m²	-	63.0	-	-	-
11	Lw/m²	-	63.0	-	-	-
12	Lw/m²	-	63.0	-	-	-
13	Lw/m²	-	63.0	-	-	-
14	Lw/m²	-	63.0	-	-	-
15	Lw/m²	-	63.0	-	-	-
16	Lw/m²	-	63.0	-	-	-
17	Lw/m²	-	63.0	-	-	-
18	Lw/m²	-	63.0	-	-	-
1	Lw/	-	85.3	-	-	-
2	Lw/	-	85.3	-	-	-

Noise emissions of parking lot traffic

Name	Parking lot type	Size	Movements per hour Day	Road surface	Separated method	Lw,ref dB(A)
1	Visitors and staff	13 Parking bays	0.600	Asphaltic driving lanes	no	75.6
2	Visitors and staff	131 Parking bays	0.600	Asphaltic driving lanes	no	89.4
3	Visitors and staff	46 Parking bays	0.000	Asphaltic driving lanes	no	83.5

Receiver list

No.	Receiver name	Building side	Floor	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
1	2	-	EG	-	38.8	-
2		-	EG	-	22.8	-
3	3	-	EG	-	41.6	-
4	4	-	EG	-	33.9	-
5	5	-	EG	-	36.9	-
6	6	-	EG	-	26.8	-
7	7	-	EG	-	20.9	-
8	8	-	EG	-	19.3	-
9	9	-	EG	-	22.6	-
10	10	-	EG	-	31.0	-
11	11	-	EG	-	30.6	-
12	12	-	EG	-	41.8	-

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
2	EG		38.8	0.(
1		-	24.4	
1		-	31.4	
1		-	20.8	
2		-	37.0	
2		-	14.6	
2		-	20.2	
3		-	-	
3		-	16.8	
4		-	15.8	
5		-	16.2	
6		-	12.5	
7		-	24.7	
8		-	22.6	
9		-	6.4	
10		-	9.0	
11		-	4.9	
12		-	6.3	
13		-	8.3	
14		-	9.3	
15		-	5.7	
16		-	3.9	
17		-	5.2	
18		-	-9.4	
2	EG		22.8	0.(
1		-	7.1	
1		-	4.9	
1		-	2.6	
2		-	22.3	
2		-	3.5	
2		-	-0.5	
3		-	-	
3		-	-4.6	
4		-	-4.8	
5		-	0.7	
6		-	1.0	
7		-	3.8	
8		-	2.9	
9		-	-14.0	
10		-	-12.3	
11		-	-16.8	
12		-	-11.9	
13		-	-13.5	
14		-	-12.7	
15		-	-14.9	
16		-	-16.8	
17		-	-16.3	
18		-	-18.5	
3	EG		41.6	0.(
1		-	23.0	
1		-	21.7	
1		-	25.9	
2		-	30.1	
2		-	36.0	
2		-	27.1	
3		-	-	
3		-	24.7	
4		-	24.8	
5		-	30.9	
6		-	32.0	
7		-	17.8	
8		-	36.6	
9		-	11.6	

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
10		-	8.4	
11		-	11.5	
12		-	11.0	
13		-	10.5	
14		-	-5.1	
15		-	12.4	
16		-	12.6	
17		-	12.9	
18		-	13.5	
4	EG		33.9	0.(
1		-	17.4	
1		-	27.0	
1		-	18.0	
2		-	27.9	
2		-	27.0	
2		-	17.6	
3		-	-	
3		-	14.5	
4		-	15.2	
5		-	21.2	
6		-	22.5	
7		-	18.7	
8		-	22.9	
9		-	2.6	
10		-	3.3	
11		-	4.4	
12		-	3.2	
13		-	2.4	
14		-	4.0	
15		-	2.9	
16		-	2.4	
17		-	2.7	
18		-	4.2	
5	EG		36.9	0.(
1		-	22.5	
1		-	30.0	
1		-	20.1	
2		-	34.4	
2		-	16.5	
2		-	19.4	
3		-	-	
3		-	16.0	
4		-	15.4	
5		-	20.7	
6		-	22.0	
7		-	23.0	
8		-	22.3	
9		-	5.1	
10		-	7.6	
11		-	4.6	
12		-	5.5	
13		-	6.4	
14		-	7.5	
15		-	4.8	
16		-	3.6	
17		-	4.3	
18		-	-1.6	
6	EG		26.8	0.(
1		-	11.8	
1		-	20.2	
1		-	10.3	
2		-	24.5	
2		-	6.0	

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
2		-	9.6	
3		-	-	
3		-	6.1	
4		-	2.1	
5		-	5.3	
6		-	5.1	
7		-	12.2	
8		-	13.5	
9		-	-4.1	
10		-	-2.6	
11		-	-7.4	
12		-	-4.3	
13		-	-2.7	
14		-	-3.1	
15		-	-5.0	
16		-	-12.0	
17		-	-5.5	
18		-	-15.3	
7	EG		20.9	0.(
1		-	5.5	
1		-	2.5	
1		-	0.5	
2		-	20.2	
2		-	1.4	
2		-	-1.6	
3		-	-	
3		-	-4.8	
4		-	-4.9	
5		-	1.5	
6		-	0.7	
7		-	5.2	
8		-	4.5	
9		-	-16.6	
10		-	-14.2	
11		-	-17.7	
12		-	-14.0	
13		-	-16.7	
14		-	-17.7	
15		-	-16.4	
16		-	-17.1	
17		-	-16.6	
18		-	-19.6	
8	EG		19.3	0.(
1		-	3.6	
1		-	1.1	
1		-	-1.5	
2		-	18.0	
2		-	0.2	
2		-	-2.0	
3		-	-	
3		-	-4.9	
4		-	-4.8	
5		-	6.5	
6		-	3.3	
7		-	-1.2	
8		-	8.6	
9		-	-18.1	
10		-	-18.0	
11		-	-18.2	
12		-	-16.1	
13		-	-18.9	
14		-	-21.5	
15		-	-17.0	

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
16		-	-17.3	
17		-	-16.9	
18		-	-18.4	
9	EG		22.6	0.0
1		-	5.6	
1		-	2.4	
1		-	3.7	
2		-	20.8	
2		-	1.5	
2		-	4.4	
3		-	-	
3		-	5.6	
4		-	5.3	
5		-	10.8	
6		-	11.2	
7		-	-3.5	
8		-	12.7	
9		-	-14.3	
10		-	-17.2	
11		-	-13.4	
12		-	-11.8	
13		-	-18.0	
14		-	-21.5	
15		-	-10.9	
16		-	-6.5	
17		-	-8.6	
18		-	-10.1	
10	EG		31.0	0.0
1		-	10.9	
1		-	10.0	
1		-	15.7	
2		-	24.7	
2		-	25.7	
2		-	16.8	
3		-	-	
3		-	14.4	
4		-	15.0	
5		-	20.0	
6		-	21.8	
7		-	7.4	
8		-	21.7	
9		-	2.0	
10		-	-1.2	
11		-	1.1	
12		-	0.9	
13		-	0.9	
14		-	-13.5	
15		-	2.5	
16		-	3.5	
17		-	2.9	
18		-	3.4	
11	EG		30.6	0.0
1		-	13.6	
1		-	23.9	
1		-	13.6	
2		-	24.9	
2		-	23.9	
2		-	13.4	
3		-	-	
3		-	10.4	
4		-	10.9	
5		-	17.3	
6		-	18.9	

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
7	-	16.0
8	-	18.5
9	-	-1.5
10	-	0.3
11	-	1.2
12	-	-1.1
13	-	-0.8
14	-	1.1
15	-	-1.3
16	-	-1.6
17	-	-1.4
18	-	0.5
12 EG		41.8 0.(
1	-	13.1
1	-	16.8
1	-	24.9
2	-	39.1
2	-	24.6
2	-	26.1
3	-	-
3	-	24.1
4	-	25.6
5	-	32.8
6	-	34.0
7	-	11.0
8	-	29.3
9	-	6.6
10	-	-3.5
11	-	11.0
12	-	10.3
13	-	0.3
14	-	-6.4
15	-	11.6
16	-	14.1
17	-	12.7
18	-	15.6

Noise emissions of industry sources - Ceremony

Source name	Reference	Level Day dB(A)	Frequency spectrum [dB(A)] 500 Hz	Corrections Cwall dB	CI dB	CT dB
1	Lw/m²	-	63.0	-	-	-

Noise emissions of parking lot traffic

Name	Parking lot type	Size	Movements per hour Day	Road surface	Separated method	Lw,ref dB(A)
1	Visitors and staff	13 Parking bays	0.600	Asphaltic driving lanes	no	75.6
2	Visitors and staff	131 Parking bays	0.600	Asphaltic driving lanes	no	89.4
3	Visitors and staff	46 Parking bays	0.000	Asphaltic driving lanes	no	83.5

Receiver list

No.	Receiver name	Building side	Floor	Limit Day dB(A)	Level Day dB(A)	Conflict Day dB
1	2	-	EG	-	37.3	-
2		-	EG	-	22.4	-
3	3	-	EG	-	37.6	-
4	4	-	EG	-	29.4	-
5	5	-	EG	-	34.9	-
6	6	-	EG	-	25.1	-
7	7	-	EG	-	20.4	-
8	8	-	EG	-	18.6	-
9	9	-	EG	-	21.5	-
10	10	-	EG	-	26.5	-
11	11	-	EG	-	26.1	-
12	12	-	EG	-	39.5	-

Contribution levels of the receivers

Source name		Traffic lane	Level Day dB(A)	
2	EG		37.3	0.0
1		-	24.4	
1		-	22.5	
2		-	37.0	
3		-	-	
2	EG		22.4	0.0
1		-	7.1	
1		-	2.8	
2		-	22.3	
3		-	-	
3	EG		37.6	0.0
1		-	23.0	
1		-	36.5	
2		-	30.1	
3		-	-	
4	EG		29.4	0.0
1		-	17.4	
1		-	22.8	
2		-	27.9	
3		-	-	
5	EG		34.9	0.0
1		-	22.5	
1		-	22.2	
2		-	34.4	
3		-	-	
6	EG		25.1	0.0
1		-	11.8	
1		-	13.3	
2		-	24.5	
3		-	-	
7	EG		20.4	0.0
1		-	5.5	
1		-	4.4	
2		-	20.2	
3		-	-	
8	EG		18.6	0.0
1		-	3.6	
1		-	8.5	
2		-	18.0	
3		-	-	
9	EG		21.5	0.0
1		-	5.6	
1		-	12.6	
2		-	20.8	
3		-	-	
10	EG		26.5	0.0
1		-	10.9	
1		-	21.6	
2		-	24.7	
3		-	-	
11	EG		26.1	0.0
1		-	13.6	
1		-	18.3	
2		-	24.9	
3		-	-	
12	EG		39.5	0.0
1		-	13.1	
1		-	29.2	

Contribution levels of the receivers

Source name	Traffic lane	Level Day dB(A)
2	-	39.1
3	-	-