APPENDIX L

Noise Study

Noise Technical Study
for the
9160-9176 Sunset Boulevard Project
City of West Hollywood

Prepared for:

City of West Hollywood
Jennifer Alkire, AICP, Planning Manager
8300 Santa Monica Boulevard
West Hollywood, CA 90069

Prepared by:

UltraSystems Environmental Inc.
16431 Scientific Way
Irvine, CA 92618
(949) 788-4900

September 2022

TABLE OF CONTENTS

LIST OF TABLES

LIST OF FIGURES

ATTACHMENTS

1.0 INTRODUCTION

This Noise Technical Report was prepared by UltraSystems to support an Environmental Impact Report (EIR) for the City of West Hollywood's proposed new commercial building, which would be composed of office and high turnover restaurant uses. The proposed project consists of demolishing the existing car dealership located at 9160-9176 Sunset Boulevard within the City of West Hollywood, and then constructing the five-story commercial building with a three-story underground parking garage.

The purpose of this report is to provide a detailed noise analysis of the 9160-9176 Sunset Boulevard Project. One objective is to assess the impacts of noise from project construction on neighboring residents and other sensitive noise receivers. In addition, this technical report will estimate noise exposures to the surrounding community after project build-out. The following analysis provides a discussion of the fundamentals of sound; an examination of federal, state and local noise guidelines and policies; a review of existing conditions; an evaluation of potential noise and vibration impacts associated with the proposed project; and mitigation for identified significant or potentially significant impacts.

2.0 BACKGROUND INFORMATION

2.1 Characteristics of Sound

Sound is a pressure wave transmitted through the air. It is described in terms of loudness or amplitude (measured in decibels), frequency or pitch (measured in hertz [Hz] or cycles per second), and duration (measured in seconds or minutes). The decibel (dB) scale is a logarithmic scale that describes the physical intensity of the pressure vibrations that make up any sound. The pitch of the sound is related to the frequency of the pressure vibration. Because the human ear is not equally sensitive to all frequencies, a special frequency-dependent rating scale is used to relate noise to human sensitivity. The A-weighted decibel scale (dBA) provides this compensation by discriminating against upper and lower frequencies in a manner approximating the sensitivity of the human ear. The scale is based on a reference pressure level of 20 micropascals (zero dBA). The scale ranges from zero (for the average least perceptible sound) to about 130 (for the average human pain level).

2.2 Noise Measurement Scales

Several rating scales have been developed to analyze adverse effects of community noise on people. Since environmental noise fluctuates over time, these scales consider that the effect of noise on people depends largely upon the total acoustical energy content of the noise, as well as the time of day when the noise occurs. Those that are applicable to this analysis are as follows:

- L_{eq}, the equivalent noise level, is an average of sound level over a defined time period (such as 1 minute, 15 minutes, 1 hour or 24 hours). Thus, the L_{eq} of a time-varying noise and that of a steady noise are the same if they deliver the same acoustic energy to the ear during exposure.
- L_{90} is a noise level that is exceeded 90 percent of the time at a given location; it is often used as a measure of "background" noise.
- L_{max} is the root mean square (RMS) maximum noise level during the measurement interval. This measurement is calculated by taking the RMS of all peak noise levels within the sampling

interval. Lmax is distinct from the peak noise level, which only includes the single highest measurement within a measurement interval.

- CNEL, the Community Noise Equivalent Level, is a 24-hour average Leq with a 4.77-dBA "penalty" added to noise during the hours of 7:00 p.m. to 10:00 p.m., and a 10-dBA penalty added to noise during the hours of 10:00 p.m. to 7:00 a.m. to account for noise sensitivity in the evening and nighttime (Caltrans, 2013). The logarithmic effect of these additions is that a 60-dBA 24-hour L_{eq} would result in a calculation of 66.7 dBA CNEL.
- L_{dn}, the day-night average noise, is a 24-hour average Leq with an additional 10-dBA "penalty" added to noise that occurs between 10 p.m. and 7 a.m. The L_{dn} metric yields values within 1 dBA of the CNEL metric. As a matter of practice, L_{dn} and CNEL values are considered to be equivalent and are treated as such in this assessment.

2.3 Noise Attenuation

The noise level from a particular source generally declines as the distance to the receiver increases. Other factors such as the weather and reflecting or shielding also intensify or reduce the noise level at any given location. Typically, a single row of buildings between the receiver and the noise source reduces the noise level by about 3 to 5 dBA (Caltrans, 2013). The U.S. Department of Housing and Urban Development (HUD) has stated that exterior noise levels can normally be reduced by 15 dBA inside buildings constructed with no special noise insulation (U.S. Department of Housing and Development, 1985). The U.S. Environmental Protection Agency (USEPA) estimates that residences in "warm" climates provide at least 12 dBA of exterior-to-interior noise attenuation with windows open and 24 dBA with windows closed (U.S. Environmental Protection Agency, 1974).

Noise from traffic on roads depends on the volume and speed of traffic and the distance from the traffic. A commonly used rule of thumb for traffic noise is that for every doubling of distance from the road, atmospheric spreading over "hard" or "soft" sites reduces the noise level by about 3 or 4.5 dBA, respectively. For a stationary source, the noise is reduced by at least 6 dBA for each doubling of distance. Further, because of the logarithmic nature of the decibel scale, a doubling of traffic on any given roadway or doubling a stationary source would cause a noise increase of approximately 3 dBA.

3.0 PROJECT DESCRIPTION

3.1 Project Overview

The City of West Hollywood (City) is the Lead Agency under the California Environmental Quality Act (CEQA). The proposed project would construct and operate a five-story commercial building, located at 9160-9176 Sunset Boulevard within the City of West Hollywood. The commercial building would have office and high turnover restaurant uses on the ground floor, and office uses on the remaining four floors above. The proposed project would also develop a three-story underground parking garage underneath the proposed building. **Figure 3.1-1** shows the vicinity of the project, **Figure 3.1-2** shows its precise location, and **Figure 3.1-3** shows the project's conceptual site plan.

Figure 3.1-1
PROJECT VICINITY

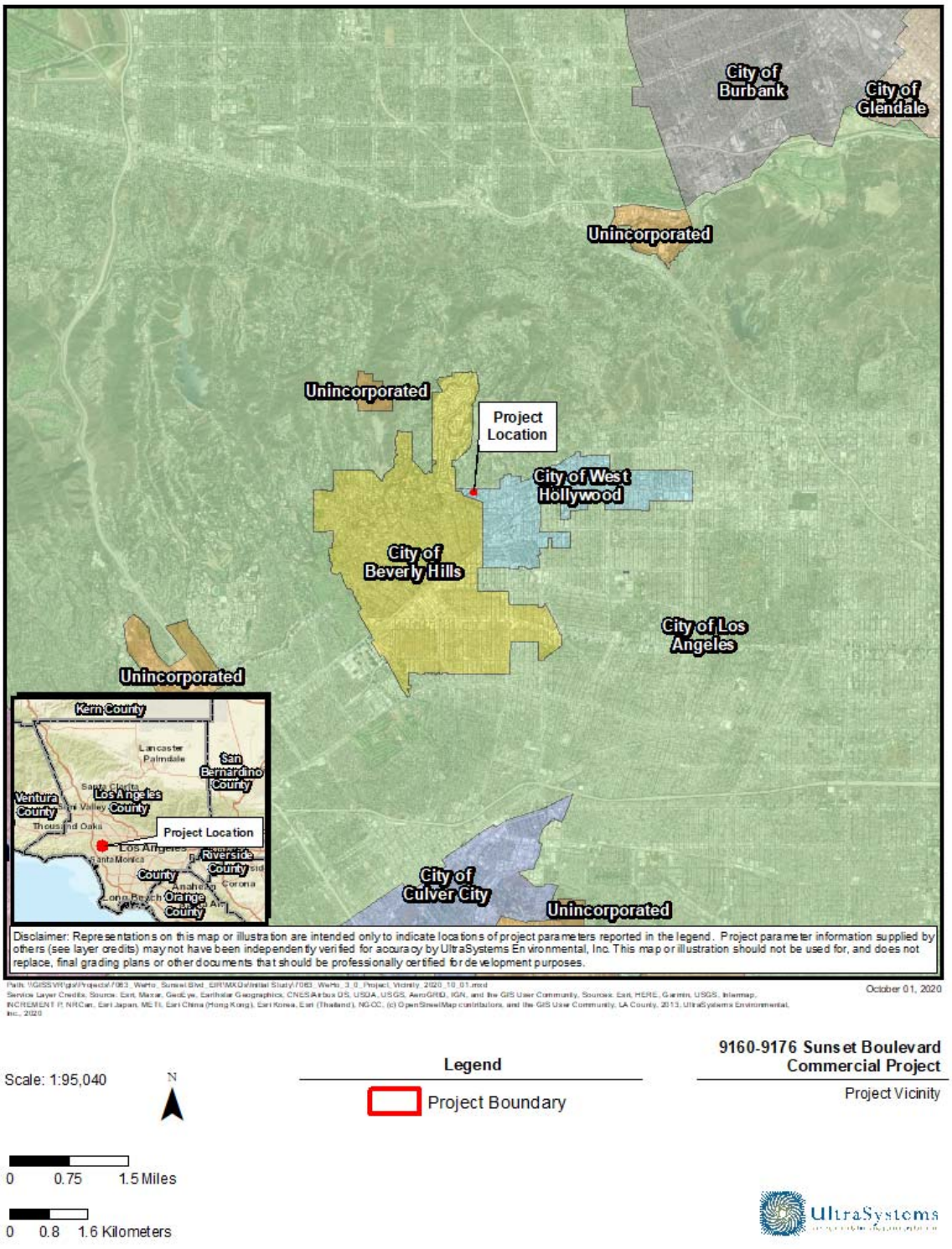


Figure 3.1-2
PROJECT LOCATION

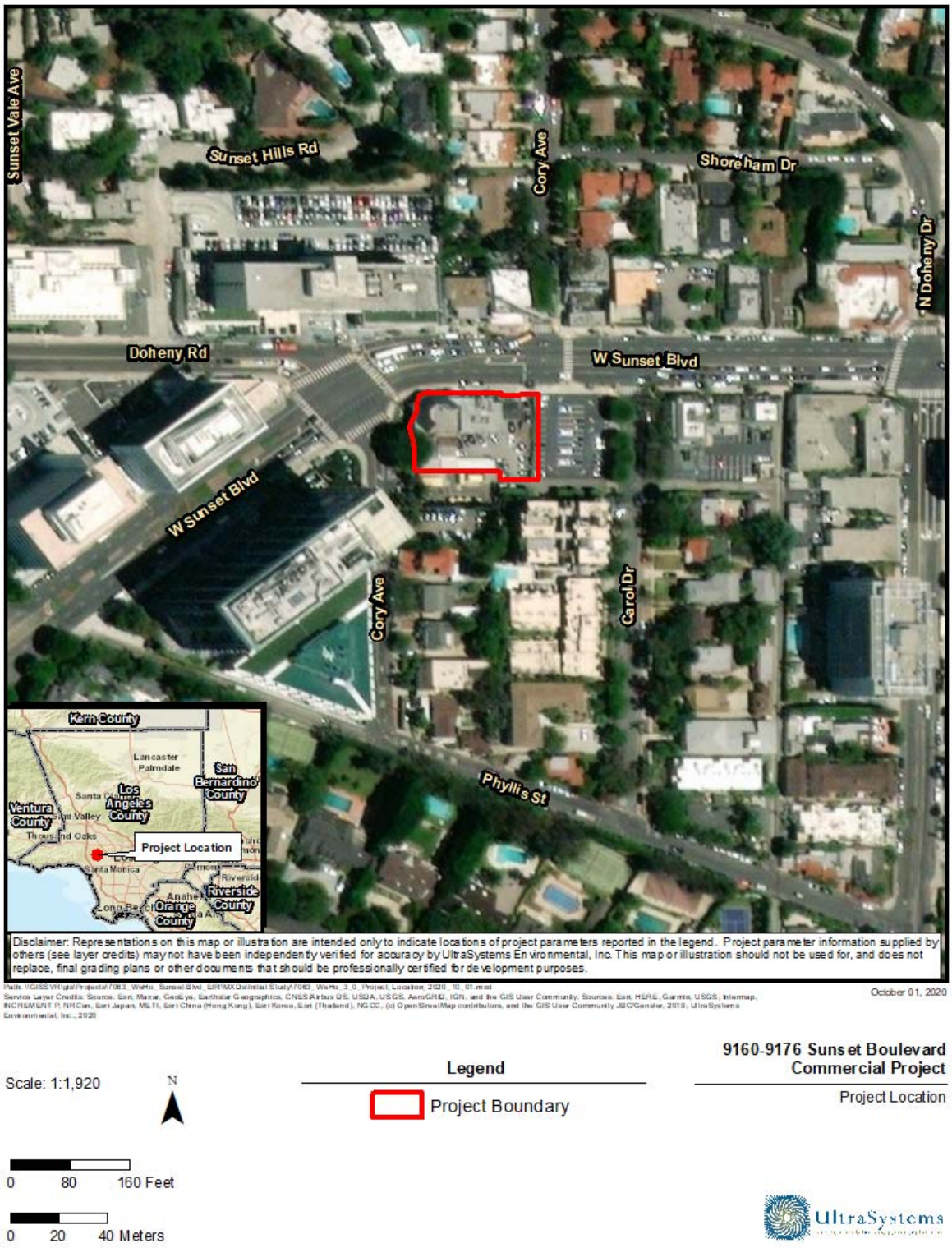
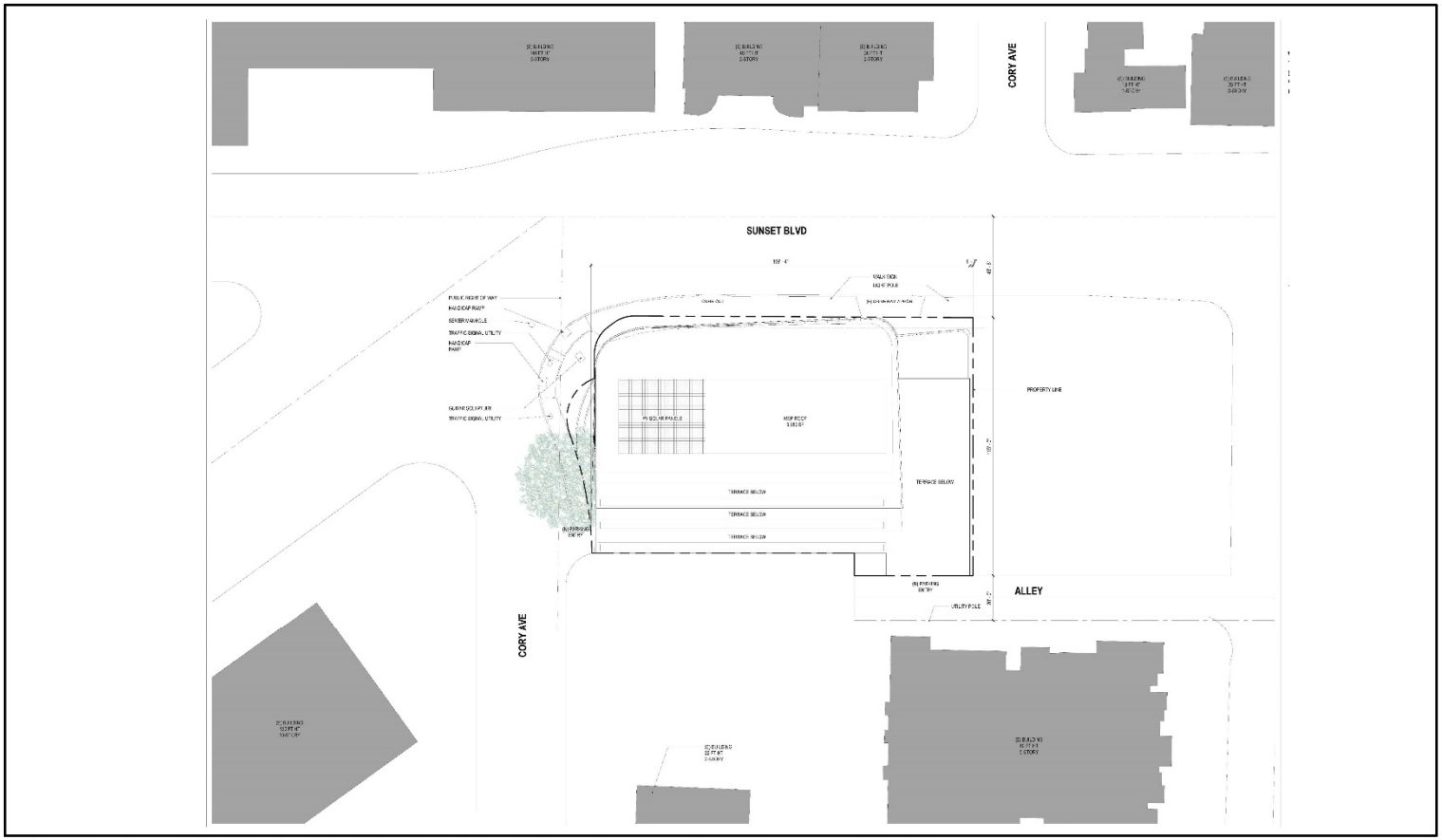


Figure 3.1-3
PROPOSED SITE PLAN



Disclaimer: Illustration provided by JBC/Gensler, who has indicated that the information is true and correct. No other warranties are expressed or implied.

Sources: JBC/Gensler, 2020.

UltraSystems
environmental•management•planning

9160-9176 Sunset Boulevard Commercial Project

Proposed Site Plan

3.2 Project Construction and Phasing

3.2.1 Onsite Construction

Construction activities would include demolition of existing structures and pavement, earthwork, rebar, structural steel, concrete slab, concrete panels, truss placement, mechanical, electrical, plumbing, glazing, roofing, landscaping, hardscape consisting of asphalt concrete, fencing, associated site utilities, site drainage, and any associated offsite work that may be required.

Construction would include excavation for the proposed three-level underground parking structure. The finished floor of the bottom (B03) level of the parking structure would be 36 feet below ground surface, and the structure would span the entire footprint of the proposed building. Construction would involve approximately 25,000 cubic yards (cy) of soil export. Exported soil would be transported to Chiquita Canyon Sanitary Landfill west of the city of Santa Clarita, approximately 36 miles to the north.

For safety reasons, temporary barricades would be used to limit access to the site during project construction and allow for safe access for construction workers to be maintained throughout construction. It is anticipated that approximately 75 to 100 workers would be onsite during the peak construction phases.

The type of equipment utilized during construction is anticipated to include:

- Tractors, loaders, backhoes, dozers, excavators, skip loaders, scrapers, concrete trucks, concrete pumps, concrete vibrators, laser screeds, and dump trucks for site preparation and rough grading.
- Cranes, forklifts, backhoes, skip loaders, trucking, compacting equipment, manlifts, welders, paving-skip loaders, grading equipment, trucking and rollers for building construction.
- Skip loaders, backhoes, trenchers and trucking for utility improvements.
- Bobcats, air compressors, forklifts, and delivery trucks for landscaping and irrigation.

The majority of construction staging areas would be provided within the boundaries of the project site. The existing parking lane on Sunset Boulevard, along the project site boundary, would also be occupied during project construction and used for construction material deliveries and concrete placement activities.

Construction workers' vehicles and construction trucks and equipment would be parked onsite and/or on nearby vacant lots that would be leased for use as construction staging/parking areas. Construction workers would also be encouraged to carpool or use mass transit.

3.2.2 Offsite Improvements

Under the proposed project, offsite improvements would include construction of utility laterals connecting to utility mains in surrounding roadways.

3.2.3 Construction Schedule

Project construction is expected to start in December 2022 and require approximately 19 months. The construction schedule by phase is listed below in **Table 3.2-1**.

Table 3.2-1
CONSTRUCTION PHASING: SCHEDULE AND EQUIPMENT

Construction Phase	Schedule			Construction Equipment	Estimated Number of Construction Workers per day
	Duration in weeks	Beginning	Ending	Type and Number	
Demolition	2	12/1/2022	12/15/2022	Concrete/Industrial Saw (1), Rubber Tired Dozer (1), Tractor/Loader/Backhoe (3), Excavator (1)	5
Site Preparation	2	12/16/2022	12/29/2022	Grader (1), Rubber Tired Dozer (1), Tractor/Loader/Backhoe (1)	6
Grading	12	12/30/2022	3/23/2023	Grader (1), Rubber Tired Dozer (1), Tractor/Loader/Backhoe (2), Excavator (1)	15
Building Construction	60	3/24/2023	5/16/2024	Crane (1), Forklift (1), Generator Set (1), Tractor/Loader/Backhoe (1),	75
Paving	5	5/17/2024	6/20/2024	Cement and Mortar Mixer (1), Paver (1), Roller (1), Paving Equipment (1), Tractor/Loader/Backhoe (1), Welders (3), Cement and Mortar Mixers (2),	8
Architectural Coating	8	6/21/2024	8/15/2024	Air Compressor (1)	10

3.3 Principal Noise Sources

The primary noise source in the city is currently vehicular traffic along major arterials, including Sunset Boulevard, Fountain Avenue and Santa Monica Boulevard. Typical urban noise sources (e.g., hospitality businesses, entertainment venues, community events, construction activities, landscape equipment, and emergency vehicle sirens) also contribute to the overall noise environment. Because of the city's distance from airports, noise from aircraft over-flights is audible, but is not considered excessive. The closest airports to West Hollywood are the Burbank-Glendale-Pasadena Airport and Santa Monica Municipal Airport, which are each approximately seven miles from the city limits (Rami + Associates, 2011, p. 10-16).

3.4 Sensitive Receivers

The Safety and Noise Element of the City of West Hollywood 2035 General Plan deems the following land uses as "noise-sensitive receptors" (Rami + Associates, 2011, p. 10-16):

- Residences
- Schools
- Hospitals
- Religious facilities
- Theaters
- Concert halls
- Libraries
- Offices
- Parks

The Safety and Noise Element does not identify any houses of worship, schools, senior housing, or parks near the proposed project (Rami + Associates Inc., 2011, p. 10-25). The existing sensitive receivers that are nearest to the project site are listed in **Table 3.4-1**. These receivers would be exposed to noise during project construction and operations. **Figure 3.4-1** shows sensitive receivers near the project site.

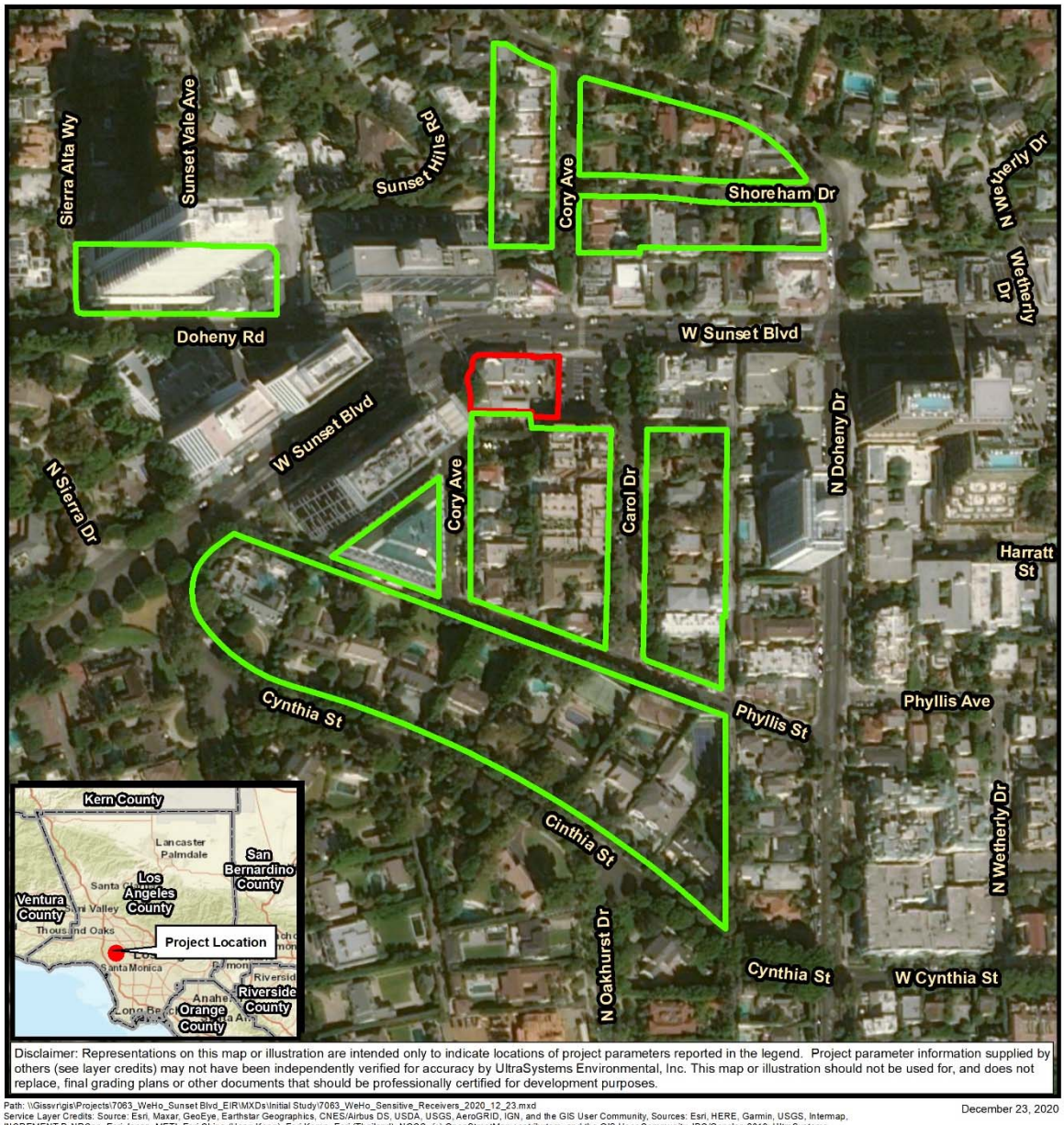
Table 3.4-1
NEAREST EXISTING SENSITIVE RECEIVERS

Sensitive Land Use	Location with Respect to Project	Distance from Proposed Project Boundary[1] (feet)
Multi-family home	South	23
Offices	Southwest	100
Single-family homes	South	103
Offices	Northeast	132
Multi-family home	Southwest	157
Office	East	173
Single-family homes	Southeast	209
Single-family home	Northeast	210

Source: Distances measured by *UltraSystems on Google Earth Pro, 2021.*

[1] These distances were not used for the noise exposure calculations. See **Section 4.5**.

Figure 3.4-1
SENSITIVE RECEIVERS NEAR THE PROJECT SITE



3.5 Ambient Noise Measurements

In order to characterize existing noise levels, UltraSystems conducted ambient noise sampling at five locations in the general project area; these are shown in **Figure 3.5-1**. **Table 3.5-1** lists the measurement points, sampling locations, and measurement results. The purpose of this noise monitoring was to obtain data on background noise in the project area, so that the change in noise exposure due to the project could be evaluated.

A Quest SoundPro Model DL-1-1/3 ANSI Type 1 sound level meter was used in the "slow" mode at each measurement location to obtain a 15-minute average sound level (L_{eq}), as well as other metrics. The meter's microphone was maintained five feet above the ground. The samples were taken between 7:19 a.m. and 10:34 a.m. on Thursday, December 17, 2020. The 15-minute L_{eq} values ranged from 55.2 to 69.1 dBA. The lowest of these values was measured at Point 7, which is located on a driveway, just south of the project site. The maximum ambient noise level was located at Point 8, which is located on a sidewalk along Sunset Boulevard, just north of the project site.

Noise meter output records and observations during sampling are provided in **Attachment 1**.

Figure 3.5-1
NOISE MONITORING LOCATIONS

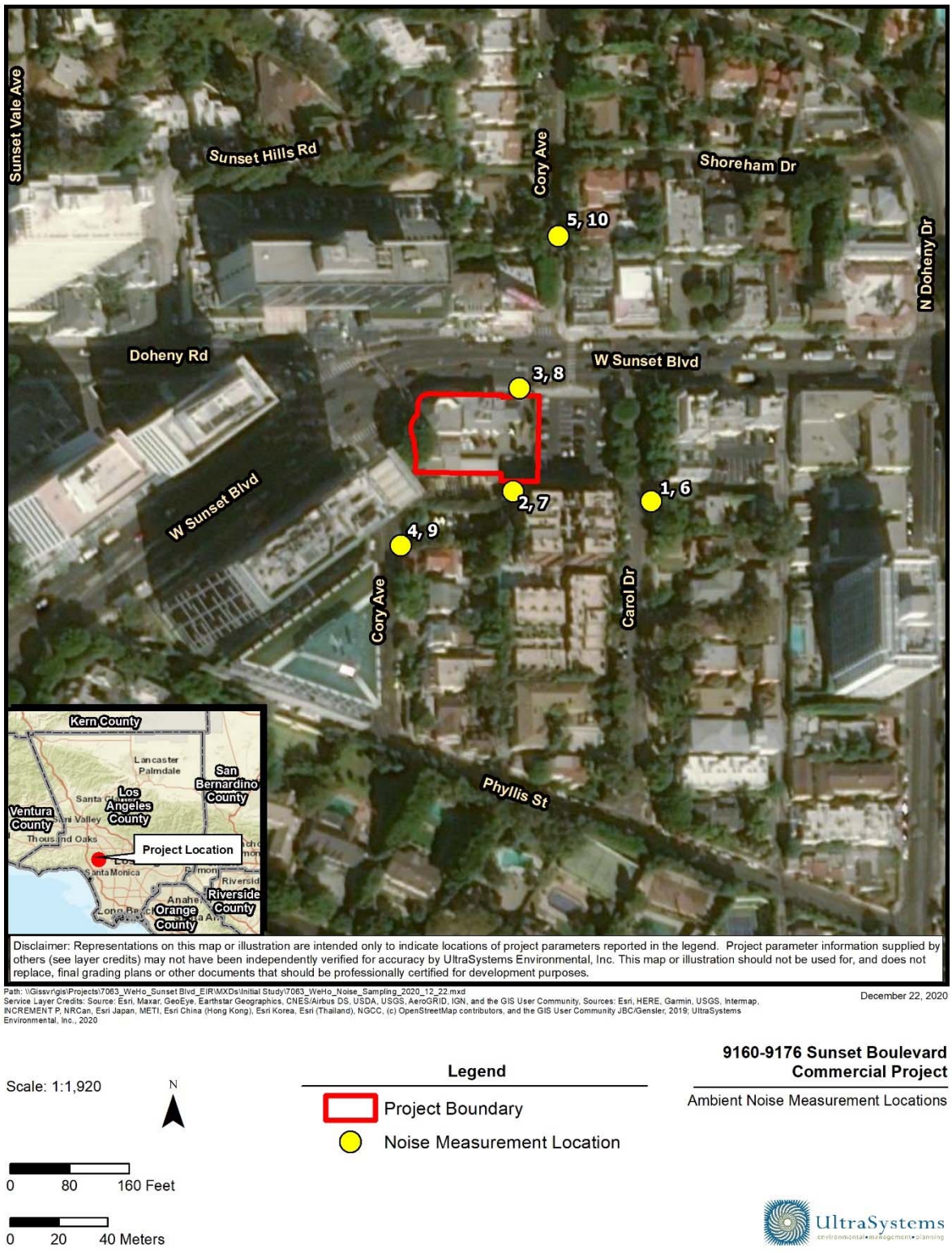


Table 3.5-1
MEASURED AMBIENT NOISE LEVELS

Point	Sampling Location	Measurement Results (dBA)		
		15-Minute Leq	L_{max}	L_{90}
1	1044 Carol Drive. Approximately 165 feet southeast of the project site, on the sidewalk of a single-family residence across Carol Drive.	57.7	71.5	50.2
2	1033 Carol Drive. Approximately 15 feet south of the project site, on a driveway used to enter the project site and also a multi-family building parking garage.	56.3	69.6	48.3
3	9160 Sunset Boulevard. Approximately five feet north of the project site, on a sidewalk next to the northern driveway of the project site.	69.0	83.6	58.6
4	1020 Cory Avenue. Approximately 102 feet southwest of the project site, on a sidewalk in front of a single-family home.	59.4	74.5	50.1
5	1112 Cory Avenue. Approximately 215 feet northeast of the project site, on a sidewalk in front of a single-family home.	61.0	73.0	52.0
6	Refer to Point 1.	56.5	70.4	48.2
7	Refer to Point 2.	55.2	66.1	48.6
8	Refer to Point 3.	69.1	86.0	57.0
9	Refer to Point 4.	59.1	72.1	51.2
10	Refer to Point 5.	60.1	82.4	50.0

Source: UltraSystems.

4.0 REGULATORY SETTING

To limit population exposure to noise levels that are physically and/or psychologically damaging or intrusive, the federal government, the State of California, various county governments, and most municipalities in the state have established noise policies, standards and ordinances.

4.1 Federal

The U.S. Department of Housing and Urban Development has set a goal of 45 dBA L_{dn} as a desirable maximum interior standard for residential units developed under HUD funding (U.S. Department of Housing and Urban Development, 2009). While HUD does not specify acceptable exterior noise levels, standard construction of residential dwellings constructed under Title 24 of the California Code of Regulations typically provides 20 dBA of acoustical attenuation with the windows closed and 10 dBA with the windows open. Based on this assumption, the exterior L_{dn} or CNEL should not exceed 65 dBA under normal conditions.

4.2 State of California

The California Department of Health Services (DHS) Office of Noise Control studied the correlation of noise levels with effects on various land uses. (The Office of Noise Control no longer exists.) The most current guidelines prepared by the state noise officer are contained in the "General Plan Guidelines" issued by the Governor's Office of Planning and Research in 2017 (OPR, 2017). These guidelines establish four categories for judging the severity of noise intrusion on specified land uses:

Normally Acceptable: Is generally acceptable, with no mitigation necessary.

Conditionally Acceptable: May require some mitigation, as established through a noise study.

Normally Unacceptable: Requires substantial mitigation.

Clearly Unacceptable: Probably cannot be mitigated to a less-than-significant level.

The types of land uses addressed by the state standards, and the acceptable noise categories for each are presented in **Table 4.2-1** (Land Use Compatibility for Community Noise Sources). There is some overlap between categories, which indicates that some judgment is required in determining the applicability of the numbers in every situation.

Table 4.2-1
LAND USE COMPATIBILITY FOR COMMUNITY NOISE SOURCES

Land Use Category	*Noise Exposure (dBA, CNEL)*						
	55	*60*	*65*	*70*	*75*	*80*	
Residential – Low-Density Single-Family, Duplex, Mobile Homes							
Residential – Multiple Family							
Transient Lodging – Motel, Hotels							
Schools, Libraries, Churches, Hospitals, Nursing Homes							
Auditoriums, Concert Halls, Amphitheaters							
Sports Arena, Outdoor Spectator Sports							
Playgrounds, Neighborhood Parks							
Golf Courses, Riding Stables, Water Recreation, Cemeteries							

Land Use Category	*Noise Exposure (dBA, CNEL)*						
	55	*60*	*65*	*70*	*75*	*80*	
Office Buildings, Business Commercial and Professional							
Industrial, Manufacturing, Utilities, Agriculture							

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 included in the design. Conventional construction, but with closed windows and fresh air supply system or air conditioning will normally suffice.

Normally Unacceptable: New construction or development should generally 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.

Source: Office of Planning and Research, 2017.

4.3 Local Standards

The primary regulatory documents that establish noise standards within the City of West Hollywood are the City of West Hollywood 2035 General Plan Safety and Noise Element (Rami + Associates, Inc., 2011) and the City of West Hollywood Municipal Code Title 9, Article 2, Chapter 9.08 (West Hollywood, 2020).

4.3.1 City of West Hollywood 2035 General Plan Safety and Noise Element

The Safety and Noise Element of the City of West Hollywood General Plan 2035 (Rami + Associates, Inc., 2011) identifies sources of noise in the City and provides objectives and policies that ensure that noise from various sources would not create an unacceptable noise environment. It states that noise impacts can be mitigated in two basic ways; (1) construction of noise barriers and (2) the inclusion of substantial building sound insulation (Rami + Associates Inc., 2011, p. 10-23).

The City of West Hollywood's General Plan Safety and Noise Element contains a noise/land use compatibility matrix of the same form as shown in **Table 4.2-1**. For residential exposure, it is similar to the state's matrix, except that the two state residential land use categories have been combined into one ("Residential"). For the residential land use category, the City's CNEL ranges for normally and conditionally acceptable do not overlap, as they do in the state's matrix (Rami + Associates Inc., 2011, p. 10-24).

The General Plan Safety and Noise Element has the following applicable goals and associated policies for addressing noise issues in the community (Rami + Associates, 2011, p. 10-27 to 10-28):

Goal SN-3: Minimize the impact of point source noise and ambient noise levels throughout the community.

Policy SN-3.1: As feasible, ensure that construction and occupancy of new development is compatible with and does not exceed thresholds defining the acceptable noise environment in surrounding areas.

Policy SN-3.2: Require the inclusion of noise-reducing design features in development projects to address the impact of noise on residential development.

Policy SN-3.3: Review development proposals to ensure that noise standards and compatibility criteria set forth in the General Plan are met.

Policy SN-3.4: Require all proposed development within the 65 dB L_{dn} contour as shown on Figure 10-5 in the Safety and Noise Chapter of the General Plan to comply with Title 24, as amended.

Policy SN-3.6: Require development projects to implement mitigation measures, where necessary, to reduce noise levels to meet the adopted standards and criteria. Such measures may include, but are not limited to, berms, walls, and sound attenuating architectural design and construction methods.

Policy SN-3.7: Require new development to meet adopted noise standards and regulations.

Goal SN-4: Minimize transportation-related noise.

Policy SN-4.1: Require new development and/or modifications to existing development to include sound-reducing design measures, where needed, to maintain compatibility with adjacent and surrounding uses.

Policy SN-4.2: Promote alternative transportation technologies that minimize noise impacts.

Policy SN-4.3: Seek to establish and designate a system of truck routes on specified arterial streets to minimize the negative impacts of trucking through the City.

Goal SN-5: Create a healthy physical environment related to noise.

Policy SN-5.1: Work to minimize stationary noise impacts on sensitive receptors and noise emanating from construction activities, private developments/residences, landscaping activities, night clubs and bars, and special events.

Policy SN-5.3: Require that entertainment uses, restaurants, and bars engage in responsible management and operation to control the activities of their patrons on-site and within reasonable and legally justifiable proximity to minimize noise impacts on adjacent residences.

Policy SN-5.4: Require mitigation as needed for development of new nightclubs, bars, and other high noise-generating uses adjacent to residences, schools, senior citizen housing, and other noise-sensitive uses.

4.3.2 City of West Hollywood Municipal Code

The City of West Hollywood Municipal Code (West Hollywood, 2020) Title 9, Article 2, Chapter 9.08 specifies various types of noise that are not permitted. Sections that are applicable to the proposed project include the following.

Engines, Motors and Mechanical Devices in or Near Residential District.[2] The sustained, continuous or repeated operation or use between the hours of 10:00 p.m. and 8:00 a.m. of any motor or engine or the repair, modification, reconstruction, testing or operation of any automobile, motorcycle, machine, contrivance, or mechanical device or other contrivance or facility unless such motor, engine, automobile, motorcycle, machine or mechanical device is enclosed within a sound insulated structure so as to prevent noise and sound from being plainly audible at a distance of fifty feet or more from such structure, or at a distance of ten feet or more from any residence. Racing the engine of any motor vehicle or needlessly bringing to a sudden start or stop of any motor vehicle shall be prohibited at any time at any location.

Loading and Unloading Waste in or Near Residential District.[3] Loading, unloading, opening, closing or other handling of boxes, containers, building materials, or similar objects in a residential district or within fifty feet of a residential district, between the hours of 10:00 p.m. and 8:00 a.m., excluding normal handling of solid waste, and recycling containers by a franchised collector pursuant to Title 15.

Construction.[4] Construction between the hours of 7:00 p.m. and 8:00 a.m. on weekdays; or at any time on Saturday (except, between the hours of 8:00 a.m. and 7:00 p.m., interior construction is permissible); or at any time on Sunday, New Year's Day, Martin Luther King Day, President's Day, Memorial Day, Independence Day, Labor Day, Veterans Day, Thanksgiving Day, the day after Thanksgiving, Christmas Day and observed holidays; all except as provided in subsection (d) of § 9.08.060.[5] If New Year's Day, Independence Day or Veterans Day falls on a weekend, then the following Monday or preceding Friday is a holiday.

To minimize the disturbance to the surrounding community, the motors and engines for construction related vehicles and equipment shall not be left idling and shall be turned off when not in use.[6]

Leaf Blowers.[7] The use or operation or allowing the use or operation of any portable machine powered with a combustion or gasoline engine used to blow leaves, dirt and other debris off sidewalks, driveways, lawns and other surfaces.

Commercial Establishments Adjacent to Residential Property.[8] Notwithstanding any provision of this code to the contrary, continuous, repeated or sustained noise from the

2 West Hollywood Municipal Code § 9.08.50(b).
3 West Hollywood Municipal Code § 9.08.50(c).
4 West Hollywood Municipal Code § 9.08.50(d)(1).
5 § 9.08.060 contains exemptions to §9 .08.50(d)(1), none of which would normally apply to the project.
6 West Hollywood Municipal Code § 9.08.50(d)(2).
7 West Hollywood Municipal Code § 9.08.50(h).
8 West Hollywood Municipal Code § 9.08.50(i).

premises of any commercial establishment which is adjacent to one or more residential dwelling units, including any outdoor area part of or under the control of the establishment, between the hours of 10:00 p.m. and 8:00 a.m. that is plainly audible from the residential dwelling unit's property line.

The City of West Hollywood Municipal Code (West Hollywood, 2020) Title 19, Article 19-3, Chapter 19.20 has the following provisions regarding noise mitigation requirements for new developments.

> ***Maximum Noise Level***.[9] Proposed development and land uses shall comply with the requirements of the city's Noise Control Ordinance in Chapter 9.08 of the Municipal Code.
>
> ***Commercial Project Mitigation***.[10] Developers of commercial projects adjacent to residential zoning districts or existing residential uses shall incorporate noise mitigating construction techniques to ensure that noise from the proposed commercial activities is abated to acceptable levels in compliance with Chapter 9.08 of the Municipal Code.
>
> ***Mechanical Equipment***.[11] Equipment located on the rooftop of a structure shall be enclosed or incorporate other elements to prevent adverse noise that might be heard by persons on adjacent properties.

4.4 Thresholds of Significance for this Analysis

In accordance with the State CEQA Guidelines Appendix G, the project would have a significant impact related to noise if it would result in the:

A. Generation of a 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; or

B. Generation of excessive groundborne vibration or groundborne noise levels; or

C. For a project located within the vicinity of a private airstrip or an airport land use plan or, where such a plan has not been adopted, within two miles of a public airport or public use airport, would the project expose people residing or working in the project area to excessive noise levels.

The Initial Study for this project determined that there would be no impact for **Threshold C**. This analysis therefore evaluated impacts only for Appendix G **Thresholds A** and **B**.

Two criteria were used for analyzing noise impacts under Threshold A. First, noise levels generated by the proposed project must comply with all relevant federal, state, and local standards and regulations. Noise impacts on the surrounding community are limited by local noise ordinances, which are implemented through investigations in response to nuisance complaints. It is assumed that all existing regulations for the construction and operation of the proposed project will be enforced. In addition, the proposed project should not produce noise levels that are incompatible with adjacent noise sensitive land uses.

9 West Hollywood Municipal Code § 19.20.090(A).
10 West Hollywood Municipal Code § 19.20.090(C).
11 West Hollywood Municipal Code § 19.20.090(D).

it was assumed that, during construction, the project will comply with all noise-related provisions of the Municipal Code, including limits on hours of construction activities and prohibition of engine idling when devices are not in use.[12] Because the City has no "bright line" limits for construction noise exposure, the metric used in assessing the significance of the construction noise impact was the increase in exposure over ambient levels. Human exposure studies have established that a 5-dBA increase is perceived as about a 41% change and is "readily perceptible" (Hendriks et al., 2013, p. 2-18). However, the City of West Hollywood's criterion for significance is an increase exceeding 10 dBA L_{eq}. For long-term exposures, the increase criterion was 5 dBA CNEL.

For vibration impacts, a wide range of structural damage thresholds has been reported. The magnitudes of the thresholds depend upon the type and age of the structure, and whether the vibration is continuous or intermittent. Our review of data published by Caltrans (Andrews et al., 2020, pp. 23-26) indicates that a threshold of 0.5 to 1.0 inch per second PPV is appropriate for the residential structures nearest the project site. The FTA's threshold for human annoyance is 75 VdB for occasional exposure.

4.5 Methodology

4.5.1 Noise

Noise impacts from construction activities are a function of the noise generated by the operation of construction equipment and onroad delivery and worker commuter vehicles, the location of equipment, and the timing and duration of the noise-generating activities. For the purpose of this analysis, it was estimated that project construction would start in early December 2022 and end in August 2024.

Using preliminary design and scheduling information, UltraSystems used the air pollutant emissions estimation model CalEEMod to estimate the number of days to execute the following construction phases:

- Demolition.
- Site preparation.
- Grading.
- New building construction.
- Paving.
- Architectural coating.

The types and numbers of pieces of equipment anticipated in each phase of construction and development were estimated using CalEEMod and UltraSystems' experience with similar projects. The CalEEMod equipment mix is based on a construction survey performed by the South Coast Air Quality Management District (SCAQMD) (BREEZE Software, 2021). **Table 4.5-1** lists the equipment expected to be used. For each equipment type, the table shows an average noise emission level (in dBA at 50 feet, unless otherwise specified) and a "usage factor," which is an estimated percentage of

[12] Prohibition of idling is already taken into account at least partially through the "usage factor" in the exposure calculations; see **Table 4.11-4**.

operating time that the equipment would be producing noise at the stated level.[13] **Table 4.5-2** shows the assumed deployment of equipment in each construction phase and sub-phase.

Table 4.5-1
CONSTRUCTION EQUIPMENT NOISE CHARACTERISTICS

Equipment Type	Horsepower	Usage Factor	Maximum Sound Level (dBA @ 50 feet)
Air Compressor (portable)	78	0.48	81
Cement and Mortar Mixers	9	0.4	85
Concrete/Industrial Saws	81	0.2	90
Crane	231	0.29	83
Excavator	158	0.4	80
Forklift	89	0.2	67
Generator Set	84	0.5	73
Grader	187	0.41	85
Paver	130	0.5	77
Paving Equipment	132	0.5	85
Roller	80	0.2	80
Rubber-Tired Dozer	247	0.4	79
Tractor/Loader/Backhoe	97	0.37	85
Welder	46	0.45	74

Source: Breeze Software,2021; Knauer, H. et al., 2006.

13 Equipment noise emissions and usage factors are from Knauer, H. et al., 2006. FHWA Highway Construction Noise *Handbook.* U.S. Department of Transportation, Research and Innovative Technology, Administration, Cambridge, Massachusetts, FHWA-HEP-06-015 (August 2006), except where otherwise noted.

Table 4.5-2
ASSUMED DEPLOYMENT OF OFFROAD CONSTRUCTION EQUIPMENT

Phase	Equipment Type	No. of Pieces
Demolition	Concrete/Industrial Saws	1
	Excavators	1
	Rubber-Tired Dozers	1
	Tractors/Loaders/Backhoes	3
Site Preparation	Graders	1
	Rubber-Tired Dozers	1
	Tractors/Loaders/Backhoes	1
Grading	Excavators	1
	Graders	1
	Rubber-Tired Dozers	1
	Tractors/Loaders/Backhoes	2
Building Construction	Cement and Mortar Mixers	2
	Cranes	1
	Forklifts	1
	Generator Sets	1
	Tractors/Loaders/Backhoes	1
	Welders	3
Paving	Cement and Mortar Mixers	1
	Pavers	1
	Paving Equipment	1
	Rollers	1
	Tractors/Loaders/Backhoes	1
Architectural Coating	Air Compressors	1

For the noise exposure calculations, the distances used were, for each subphase, the shortest distance between source and receiver. Because the construction equipment is used throughout the project site, the noise sources were assumed to be roughly in the middle of the construction activity. The calculation assumes spherical spreading, which is used for analysis of stationary sources (as opposed to traffic) and minimal ground absorption. The formula is (Hendriks et al., 2013):

$$dBA_2 = DBA_1 + 20 \log_{10} (D_1/D_2)$$

where

dBA_1 = Reference sound level (dBA)
dBA_2 = Sound level at receiver (dBA)
D_1 = Distance from reference source to receiver
D_2 = Distance from actual source to receiver

As seen in **Table 4.5-1**, the reference distance for all equipment types was 50 feet.

A six-foot-high brick wall lies between the project site and the nearest sensitive receiver. The Fresnel number method (Foss, 1978) was used to estimate the wall's noise attenuation. The Fresnel number (N_o) is a dimensionless parameter calculated from the following formula:

$$N_O = \pm 2f\delta_o/c$$

where

f = Frequency of the sound radiated by the source (hertz).

δ_o = Path length difference determined from site geometry (feet).

C = Speed of sound (feet/second).

N_o is positive when the line of sight between the source and receiver is lower than the top of the barrier (as is the case here). It was assumed that f = 1,000 hertz (representative of heavy construction equipment)[14] and that c = 1115.49 feet per second. The Fresnel number was determined to be 0.0610 for demolition noise and 0.0218 for all other construction phases. Using a formula of attenuation as a function of N_o (Vardhan et al., 2005), it was determined that the wall would provide 5.2 dB of attenuation for construction noise and 5.0 dB for all other construction phases. This was taken into account in the construction noise exposure estimates.

4.5.2 Vibration

For a standard reference distance of 25 feet, peak particle velocity is found from (Andrews et al., 2020, p. 37):

$$PPV = PPV_{ref} \times (25/D)^{1.1}$$

where

PPV_{ref} = Reference source vibration at 25 feet
D = Distance from source to receiver

The vibration level (VdB) for a standard reference distance of 25 feet is found from (Andrews et al., 2020, p.37):

$$VdB = L_{vref} - 30 \log(D/25)$$

where

L_{vref} = Reference source vibration level at 25 feet
D = Distance from source to receiver

[14] Noise frequency spectra for typical bulldozers and front-end loaders are presented in Vardhan et al., 2005.

5.0 PROJECT IMPACTS

Noise impacts associated with new commercial development include short-term and long-term impacts. Construction activities, especially heavy equipment operation, would create noise effects on and adjacent to the construction site. Long-term noise impacts include project-generated onsite and offsite operational noise sources. Onsite (stationary) noise sources from the proposed project would include movement of vehicles into and from the site, air conditioners, landscaping and building maintenance. Offsite noise would be attributable to project-induced traffic, which would cause an incremental increase in noise levels within and near the project vicinity.

This section also evaluates potential groundborne vibration that would be generated from the construction or operation of the proposed project.

5.1 Short-Term Noise Impacts

Short-term noise impacts associated with the project include demolition and construction impacts. The combinations of pieces of equipment (see **Table 4.5-2**) in all phases of construction would result in short-term increases in exposures of the nearest sensitive receiver of more than 5 dBA. These increases are shown in **Table 5.1-1**. The increase over ambient would range from 11.5 to 20.0 dBA L_{eq}. The CNEL value of total exposure (ambient plus construction) would be about 72.5 dBA, which is in the "normally unacceptable" zone according to the City's Noise/Land Use Compatibility Matrix."

Table 5.1-1
SHORT-TERM NOISE EXPOSURES DURING CONSTRUCTION

Construction Phase	One-Hour Noise Exposure dBA L_{eq}	Increase Over Ambient dBA L_{eq}
Demolition	75.8	20.0
Site Preparation	73.6	17.9
Grading	75.5	19.7
Building Construction	75.5	19.7
Paving	75.7	19.9
Architectural Coating	67.0	11.5

Mitigation measures **N-1** through **N-5** would result in an appreciable decrease in exposures, but these short-term exposures at the nearest sensitive receiver would still be significant sometimes during construction. **Therefore, project impacts related to increased noise levels during construction would be significant and unavoidable after mitigation.** Detailed mitigation measures are listed in **Section 7.0** of this document.

5.2 Long-Term Noise Impacts

5.2.1 Noise from Onsite Sources

Onsite noise sources associated with the proposed project will include rooftop equipment, such as air conditioners; trash collection; and cars entering and exiting the parking levels. Rooftop equipment usually emits about 50 to 55 dB at 50 feet, and would not be heard above normal traffic. Trash pickup may be loud but it is for only a few minutes or so, and does not contribute to the hourly L_{eq}. Most of the parking noise will be inside the building. If a drive-through fast food establishment is included,

then noise from communications systems, radios and noisy car engines will be subject to regulation under the City's Municipal Code. The neighborhood already has office buildings, restaurants, clubs, and parking lots. **Therefore, onsite noise sources would not cause a change in exposure to the community and the impact would be less than significant.**

5.2.2 Roadway Noise

In a mixed commercial and residential area, traffic noise predominates. For offsite, onroad noise impacts to be significant, it is generally necessary for traffic to double (Hendriks et al., 2013, p. 2-12). Current and projected traffic volumes for the immediate neighborhood of the project were unavailable. The nearest road segments for which the City has published traffic count data online are 8300-8400 Sunset Boulevard and 8500-8700 Sunset Boulevard; these are 51,462 and 52,231 ADT, respectively.[15] A traffic generation study for the project estimates that ADT will be 1,470 vehicles. (See **Appendix O**.) This represents an increase of about 2.8%, far below 100%. **The noise level increase due to the project would be less than significant.**

5.3 Vibration Impacts

Vibration is sound radiated through the ground. Vibration can result from a source (e.g., subway operations, vehicles, machinery equipment, etc.) causing the adjacent ground to move, thereby creating vibration waves that propagate through the soil to the foundations of nearby buildings. This effect is referred to as groundborne vibration. The peak particle velocity (PPV) or the root mean square (RMS) velocity is usually used to describe vibration levels. PPV is defined as the maximum instantaneous peak of the vibration level, while RMS is defined as the square root of the average of the squared amplitude of the level. PPV is typically used for evaluating potential building damage, while RMS velocity in decibels (VdB) is typically more suitable for evaluating human response.

The background vibration velocity level in residential areas is usually around 50 VdB. The vibration velocity level threshold of perception for humans is approximately 65 VdB. A vibration velocity level of 75 VdB is the approximate dividing line between barely perceptible and distinctly perceptible levels for most people. Most perceptible indoor vibration is caused by sources within buildings such as operation of mechanical equipment, movement of people, or the slamming of doors. Typical outdoor sources of perceptible groundborne vibration are construction equipment, steel-wheeled trains, and traffic on rough roads. If a roadway is smooth, the groundborne vibration from traffic is rarely perceptible. The range of interest is from approximately 50 VdB to 100 VdB, which is the general threshold where minor damage can occur in fragile buildings.

The American National Standards Institute (1983) indicates that vibration levels in critical care areas, such as hospital surgical rooms and laboratories, should not exceed 0.2 inch per second of PPV. The FTA also uses a PPV of 0.2 inch per second as a vibration damage threshold for fragile buildings and a PPV of 0.12 inch per second for extremely fragile historic buildings (FTA, 2018, p. 186). The FTA criteria for infrequent groundborne vibration events (less than 30 events per day) that may cause annoyance are 80 VdB for residences and buildings where people normally sleep, and 83 VdB for institutional land uses with primarily daytime use.

[15] https://data.weho.org/Traffic/Citywide-Traffic-Volumes/g47c-h4yt/data. Accessed September 24, 2021.

5.3.1 Construction Vibration

It is expected that groundborne vibration from project construction activities would cause only intermittent, localized intrusion. The project's construction activities most likely to cause vibration impacts are:

- **Heavy Construction Equipment:** Although all heavy, mobile construction equipment has the potential of causing at least some perceptible vibration while operating close to buildings, the vibration is usually short-term and is not of sufficient magnitude to cause building damage. It is not expected that heavy equipment such as large bulldozers would operate closely enough to any sensitive receivers to cause vibration impact.
- **Trucks:** Trucks hauling building materials to construction sites can be sources of vibration intrusion if the haul routes pass through residential neighborhoods on streets with bumps or potholes. Repairing the bumps and potholes almost always eliminates the problem.

The project would not include any blasting, drilling, or pile driving. Construction equipment such as loaded trucks, jack hammers, and small bulldozers may temporarily increase groundborne vibration or noise at the project site.

The FTA (2018) has published standard vibration levels for construction equipment operations, at a reference distance of 25 feet. The smallest distance from a sensitive receiver and construction activity for this project is 17 feet. The calculated vibration levels expressed in VdB and PPV for typical construction equipment at their distances during construction are listed in **Table 5.3-1**.[16]

Table 5.3-1
VIBRATION LEVELS OF TYPICAL CONSTRUCTION EQUIPMENT

Equipment	PPV at 25 feet (in/sec)	Vibration Decibels at 25 feet (VdB)	PPV at 17 feet (in/sec)	Vibration Decibels at 98 feet (VdB)	PPV at 98 feet (in/sec)	Vibration Decibels at 98 feet (VdB)	PPV at 111 feet (in/sec)	Vibration Decibels at 111 feet (VdB)
Loaded trucks	0.076	86	0.1162	91				
Jack hammer	0.035	79					0.0068	60
Small bulldozer	0.003	58			0.00067	40		

As shown in **Table 5.3-1**, the vibration level of construction equipment at the nearest sensitive receiver (a multifamily residential building at 17 feet) is at most 0.1162 inch per second, which is less than Caltrans' damage threshold of 1.0 inch per second PPV for residential structures. The maximum vibration exposures from loaded trucks would be 91 VdB, which exceeds the FTA threshold for human annoyance of 75 VdB for occasional exposure. For a small bulldozer, the exposure would be less than 75 VdB, and jackhammers, if they are used on the project would be much farther away than 17 feet. For the nearest residence examined, annoyance from loaded truck vibration would be significant if not mitigated.

[16] As seen in Table 4.9-3, the nearest sensitive vibration receivers would be offsite residents.

However, with implementation of mitigation measure **N-4**, the loaded truck vibration would be less than significant. For a small bulldozer, the exposure would be about 40 VdB, and jackhammers, if they are used on the project, would be about 60 VdB. The impacts would therefore be significant and unavoidable. Detailed mitigation measures are listed in **Section 7.0** of this document.

5.3.2 Operational Vibration

Office building and restaurant operations do not involve sources that cause substantial ground-borne vibration. **Therefore, the project would not result in long-term significant impacts due to ground-borne vibration or noise levels. No mitigation is necessary for operational vibration impacts.**

6.0 CUMULATIVE IMPACTS

Cumulative construction impacts could occur if other construction projects were active concurrently with development of the proposed project, and near enough so that noise from two or more projects were perceived by the same sensitive receivers. However, the area surrounding the project site is almost completely built out, and there is limited space for new development. **Currently, there are no planned or reasonably foreseeable future projects that would be constructed at the same time and could generate additional construction noise in the immediate project vicinity. Therefore, cumulative construction noise impacts would be less than significant.**

7.0 MITIGATION MEASURES

Use of onsite construction equipment during project construction would have the potential to result in significant noise impacts. Therefore, the following measures are provided to reduce the construction-related noise impacts:

N-1: The construction contractor will use the following source controls:

- Use of noise producing equipment will be limited to the interval from 8:00 a.m. to 5:00 p.m., Monday through Friday.
- For all noise producing equipment, use types and models that have the lowest horsepower and the lowest noise generating potential practical for their intended use.
- The construction contractor will ensure that all construction equipment, fixed or mobile, is properly operating (tuned up) and lubricated, and that mufflers are working adequately.
- Have only necessary equipment on site.
- Use manually adjustable or ambient sensitive backup alarms.[17]

[17] These are backup alarms that focus their noise on a specific area and/or automatically adjust the volume of the noise to be only slightly above that of the ambient level at the worksite.

N-2: The contractor will use the following path controls, except where not physically feasible:

- Install portable noise barriers, including solid structures and noise blankets, between the active noise sources and the nearest noise receivers. A typical noise barrier in a construction setting can absorb about 85% of the noise along the path from source to receiver.[18] If these are used for the cases shown in **Table 4.11-6**, the increase in exposure due to the project would, except for the architectural coating phase, range from about 10 to 12 dBA.

- Temporarily enclose localized and stationary noise sources. Enclosures can attenuate 10 to 20 dBA (AASHTO, 2007).

- Store and maintain equipment, building materials and waste materials as far as practical from as many sensitive receivers as practical.

N-3: Advance notice of the start of construction shall be delivered to all noise-sensitive receivers adjacent to the project area. The notice shall state specifically where and when construction activities will occur, and provide contact information for filing noise complaints with the contractor and the City.

Construction Vibration

As discussed above, operation of loaded trucks near one or two multifamily residences has the potential to cause vibration exceeding the FTA's noise level for the frequency of traffic. The following mitigation measure will decrease the annoyance to a less than significant level.

N-4 The applicant shall repave with a smooth surface the alleyway through which loaded trucks will enter the project construction site. According to Caltrans, because vibration from vehicle operations is almost always the result of pavement discontinuities, the solution is to smooth the pavement to eliminate the discontinuities. This step will eliminate perceptible vibration from vehicle operations in virtually all cases.[19]

8.0 IMPACTS AFTER MITIGATION

Construction Noise

Mitigation measures **N-1** through **N-3** would result in at least a 10-dBA decrease in exposures, but these short-term exposures would still be significant sometimes during construction. Therefore, project impacts related to increased noise levels during construction would be significant and unavoidable after mitigation.

[18] The 85% reduction value is from AASHTI (2007); the effect on the increase of exposure was calculated by UltraSystems,

[19] Andrews, J., Buehler, D, Gill, H., and Bender, W.L., 2020. Transportation and Construction Vibration Guidance Manual. California Department of Transportation, Division of Environmental Analysis, Sacramento, CA. Report No. CT-HWANP-RT-20-365.01.01, April, Accessed online at https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf on September 15, 2022.

Construction Vibration

Mitigation measure **N-4** would reduce vibration impacts from loaded trucks to a less than significant level.

9.0 REFERENCES

American National Standards Institute (ANSI), 1983. Guide to the Evaluation of Human Exposure to Vibration in Buildings. Accessed online at https://webstore.ansi.org/standards/asa/ansis3291983r1996 on April 22, 2021.

Andrews, J., Buehler, D., Gill, H., and Bender, W.L. 2020. Transportation and Construction Vibration Guidance Manual. California Department of Transportation, Division of Environmental Analysis, Sacramento, CA. Report No, CT-HWANP-RT-20-365.01.01. Accessed online at https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf. Accessed on September 28, 2021.

BREEZE Software, 2021. California Emissions Estimator Model. Appendix E. Technical Source Documentation. Prepared for California Air Pollution Control Association. May. Accessed online at http://www.aqmd.gov/docs/default-source/caleemod/user-guide-2021/appendix-e2020-4-0.pdf?sfvrsn=6. Accessed on September 28, 2021.

Caltrans. 2013. Technical Noise Supplement to the Traffic Noise Analysis Protocol. California Department of Transportation. Accessed online at https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tens-sep2013-a11y.pdf on September 29, 2021.

FTA. 2018. Transit Noise and Vibration Impact Assessment Manual. Federal Transit Administration, Office of Planning and Environment, Washington, DC. FTA Report No. 0123. Available at: https://www.transit.dot.gov/sites/fta.dot.gov/files/docs/research-innovation/118131/transit-noise-and-vibration-impact-assessment-manual-fta-report-no-0123_0.pdf.

Google Earth Pro. 2021. Version 7.3.3.7788 (July 22, 2020). West Hollywood Sunset boulevard EIR Project Site, Los Angeles County, California. 34.090354° -118.391187°. Eye altitude 2,811 feet. Imagery date January 2, 2020. ©Google 2021. Accessed on July 26, 2021.

Office of Planning and Research (OPR). 2017. General Plan Guidelines: State of California, Sacramento, California. http://opr.ca.gov/docs/OPR_COMPLETE_7.31.17.pdf. Accessed November 12, 2020.

Rami + Associates, Inc., 2011. City of West Hollywood 2035 General Plan. Accessed online at https://www.weho.org/city-government/download-documents/-folder-155 , accessed on March 16, 2021.

U.S. Department of Housing and Urban Development, 1985. The Noise Guidebook. A Reference Document for Implementing the Department of Housing and Urban Development's Noise Policy. Office of Community Planning and Development. Accessed online at https://babel.hathitrust.org/cgi/pt?id=umn.31951p00994853x&view=1up&seq=8 on September 29, 2021.

U.S. Environmental Protection Agency. 1974. Information on Levels of Environmental Noise Requisite to Protect Public Health and Welfare with an Adequate Margin of Safety. Office of Noise Abatement and Control. March. Accessed online at:

https://nepis.epa.gov/Exe/ZyPDF.cgi/2000L3LN.PDF?Dockey=2000L3LN.PDF on September 29, 2021.

West Hollywood, 2020. Municipal Code. Accessed online at: http://qcode.us/codes/westhollywood/, on November 12, 2020

ATTACHMENT 1

AMBIENT NOISE MEASUREMENT DATA

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 7:19am Project Number: 7063

Monitoring Segment / Area: 1 Monitoring Site Address: 1044 Carol Drive

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: Ø mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 10 ft

Approximate distance of sound level meter from construction site: 165 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 7:19 am Measurement End Time: 7:34 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S210

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
$L_{eq\ (h)}$	Slow: 57.7 Fast:
L_{max}	Slow: 71.5 Fast:
L_{90}	Slow: 50.2 Fast:

Field Notes:

1. Relatively little traffic on Corey.
2. Background construction and traffic along Sunset Blvd.
3.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 7:19 am Project Number: 7063

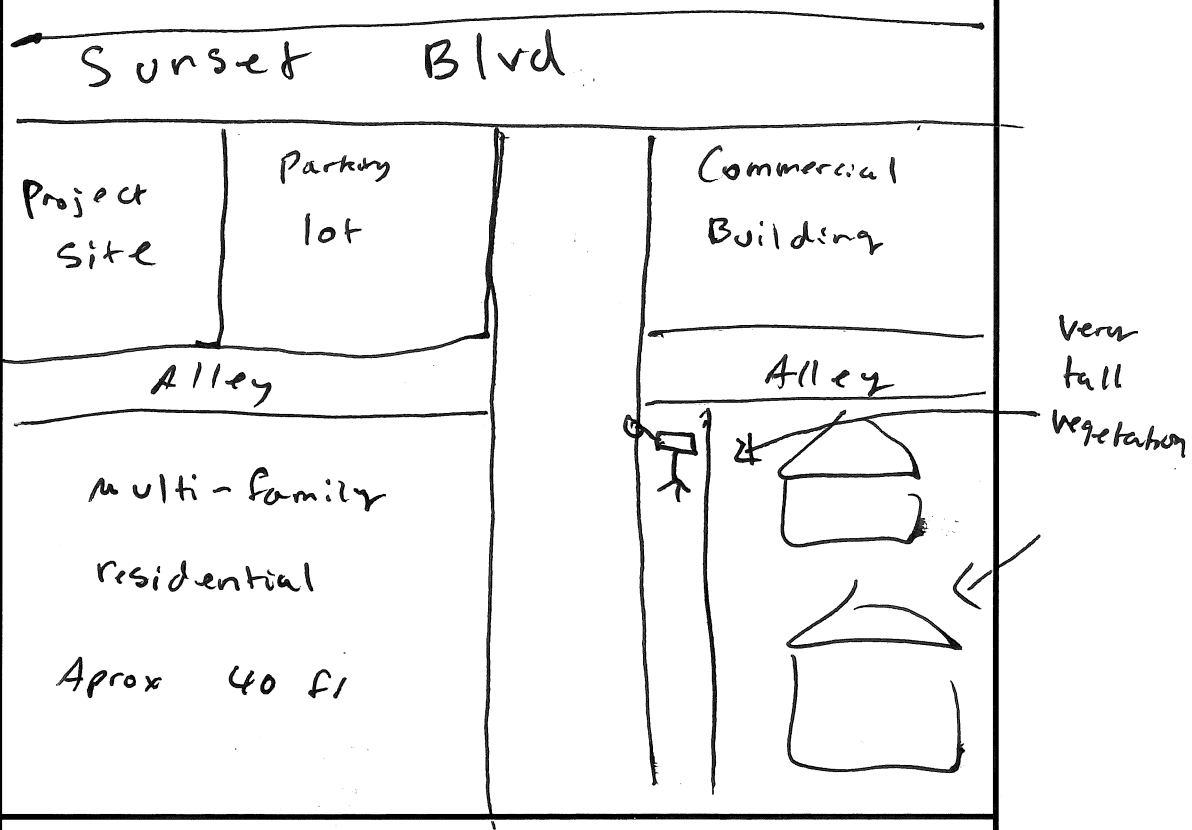
Monitoring Segment / Area: 1 Monitoring Site Address: 1044 Carol Drive

Site Map

Plan View

North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

- Approx 12 ft vegetation in front of Single-family house.

34.090099° -118.390995 406

Latitude: [redacted]	Longitude: [redacted]	Elevation: [redacted]

Noise Monitor's Signature: [signature] Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S210_BLH080004_18122020_085942
Start Time	12/17/2020 7:25:41 AM
Stop Time	12/17/2020 7:40:41 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	57.7 dB	L90	1	50.2 dB
Lmax	1	71.5 dB	Lmin	1	45.5 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

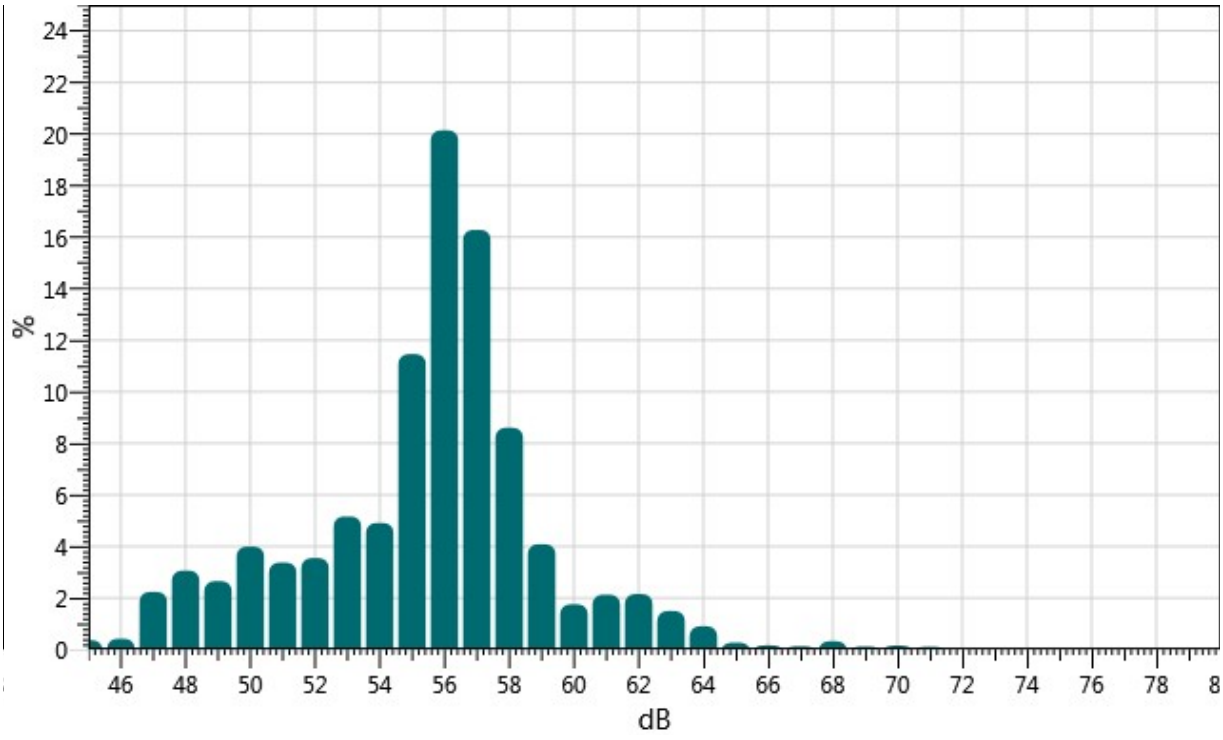
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
45:	0.00	0.00	0.00	0.00	0.00	0.01	0.07	0.10	0.13	0.06	0.36
46:	0.07	0.08	0.06	0.04	0.03	0.04	0.03	0.02	0.03	0.02	0.42
47:	0.05	0.28	0.15	0.12	0.12	0.27	0.22	0.40	0.32	0.31	2.24
48:	0.42	0.34	0.30	0.39	0.31	0.19	0.23	0.22	0.34	0.33	3.06
49:	0.19	0.26	0.20	0.32	0.44	0.29	0.22	0.25	0.27	0.22	2.65
50:	0.24	0.52	0.38	0.30	0.47	0.52	0.45	0.35	0.42	0.35	4.00
51:	0.39	0.36	0.24	0.28	0.36	0.34	0.41	0.38	0.28	0.33	3.37
52:	0.40	0.32	0.30	0.36	0.37	0.34	0.30	0.30	0.45	0.39	3.55
53:	0.57	0.54	0.61	0.54	0.63	0.50	0.49	0.41	0.41	0.47	5.16
54:	0.47	0.45	0.26	0.52	0.44	0.47	0.50	0.55	0.67	0.57	4.91
55:	0.60	0.54	0.60	0.72	1.05	1.11	0.99	1.65	1.87	2.34	11.46
56:	2.76	1.90	1.90	1.79	1.68	2.02	1.80	1.86	2.05	2.37	20.14
57:	1.98	1.76	1.13	1.56	1.75	1.54	1.80	1.47	1.75	1.54	16.28

58:	1.06	1.36	1.03	1.20	0.83	0.77	0.69	0.56	0.50	0.60	8.60
59:	0.59	0.52	0.40	0.47	0.46	0.43	0.33	0.34	0.29	0.26	4.09
60:	0.22	0.29	0.13	0.15	0.17	0.16	0.18	0.17	0.12	0.16	1.76
61:	0.16	0.21	0.24	0.31	0.19	0.19	0.29	0.16	0.10	0.27	2.13
62:	0.29	0.30	0.18	0.24	0.20	0.17	0.32	0.29	0.09	0.08	2.15
63:	0.08	0.07	0.05	0.08	0.12	0.19	0.21	0.24	0.14	0.30	1.49
64:	0.10	0.14	0.07	0.06	0.07	0.10	0.11	0.07	0.12	0.06	0.90
65:	0.04	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.27
66:	0.04	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.16
67:	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.13
68:	0.04	0.03	0.05	0.05	0.05	0.02	0.04	0.02	0.01	0.01	0.32
69:	0.02	0.01	0.01	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.12
70:	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.02	0.01	0.02	0.15
71:	0.02	0.01	0.01	0.02	0.03	0.02	0.00	0.00	0.00	0.00	0.11

Statistics Chart

S210_BLH080004_18122020_085942: Statistics Chart



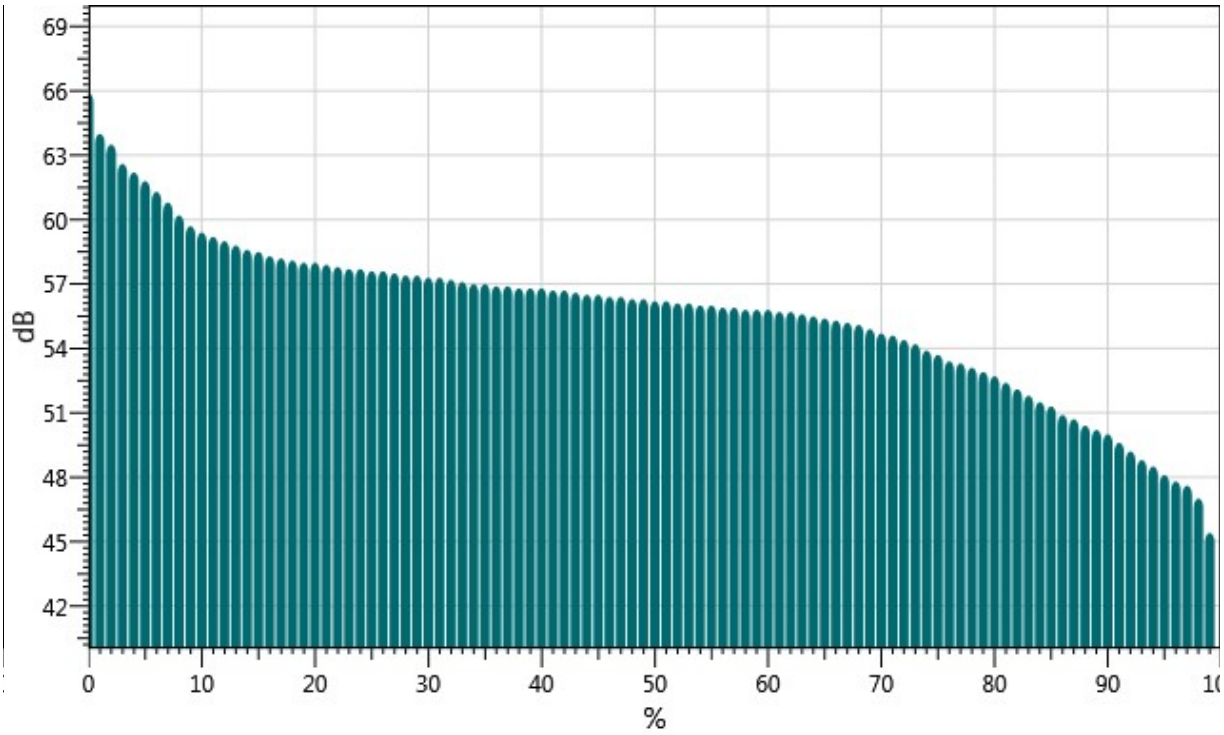
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		65.9	64.0	63.5	62.6	62.2	61.8	61.3	60.8	60.2

10%:	59.7	59.4	59.2	59.0	58.8	58.6	58.5	58.3	58.2	58.1
20%:	58.0	58.0	57.9	57.8	57.7	57.7	57.6	57.6	57.5	57.4
30%:	57.4	57.3	57.3	57.2	57.1	57.0	57.0	56.9	56.9	56.8
40%:	56.8	56.8	56.7	56.7	56.6	56.5	56.5	56.4	56.4	56.3
50%:	56.3	56.2	56.2	56.1	56.1	56.0	56.0	55.9	55.9	55.8
60%:	55.8	55.8	55.7	55.7	55.6	55.5	55.4	55.3	55.2	55.1
70%:	54.9	54.7	54.6	54.4	54.2	53.9	53.7	53.4	53.3	53.1
80%:	52.9	52.7	52.4	52.1	51.8	51.5	51.3	50.9	50.7	50.4
90%:	50.2	50.0	49.6	49.2	48.8	48.5	48.1	47.8	47.6	47.0
100%:	45.4									

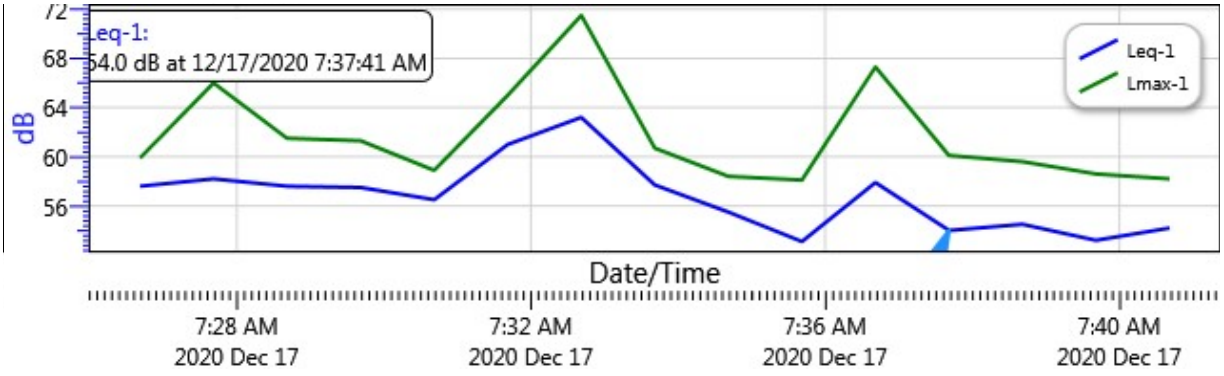
Exceedance Chart

S210_BLH080004_18122020_085942: Exceedance Chart



Logged Data Chart

S210_BLH080004_18122020_085942: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 7:38am Project Number: 7063

Monitoring Segment / Area: 2 Monitoring Site Address: ~~7063~~, 1033 Carol Drive

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 10 ft

Approximate distance of sound level meter from construction site: 15 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 7:38 am Measurement End Time: 7:53 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S211

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
L_{eq} (h)	Slow: 56.3 Fast:
L_{max} 69.6	Slow: ~~6926~~ Fast:
L_{90}	Slow: 48.3 Fast:

Field Notes:

1. Along alley way / driveway for multi family residence.
2.
3.

Noise Monitor's Signature: Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 7:38 am Project Number: 7063

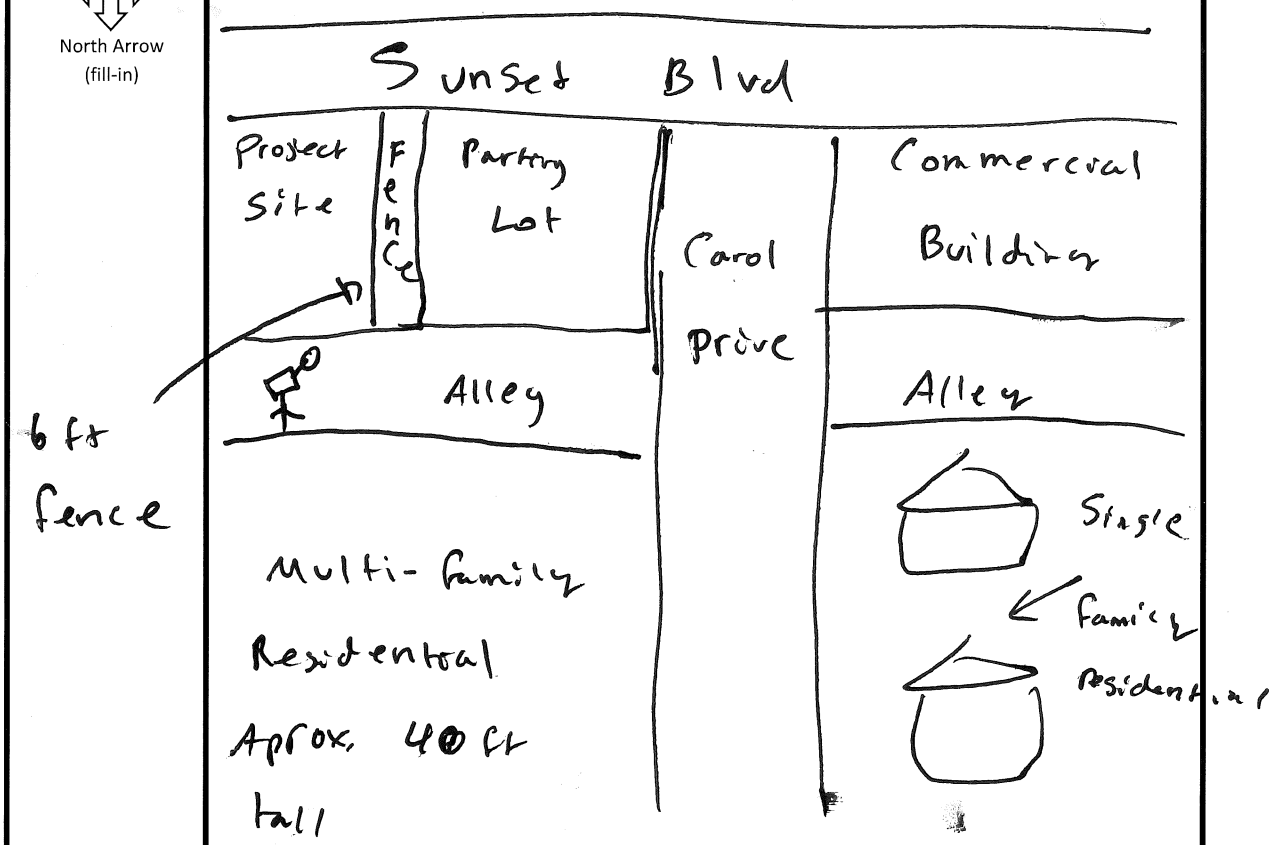
Monitoring Segment / Area: 2 Monitoring Site Address: 1033 Carol Drive

Site Map

Plan View

North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

410

Latitude: 34.09013°	Longitude: -118.39159°	Elevation: ~~[illegible]~~ ft

Noise Monitor's Signature: _____ Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S211_BLH080004_18122020_085944
Start Time	12/17/2020 7:44:35 AM
Stop Time	12/17/2020 7:59:35 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	56.3 dB	L90	1	48.3 dB
Lmax	1	69.6 dB	Lmin	1	43.6 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

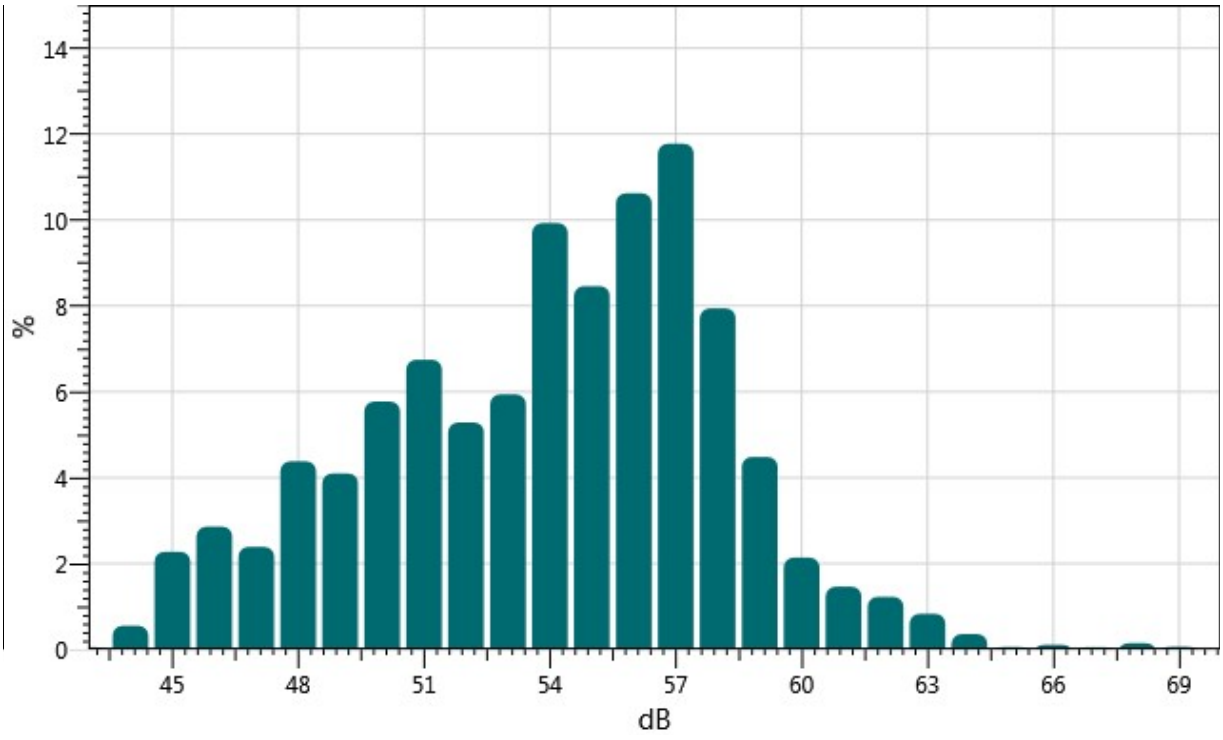
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
43:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.02	0.05
44:	0.03	0.01	0.01	0.09	0.06	0.03	0.05	0.08	0.08	0.12	0.55
45:	0.12	0.13	0.20	0.23	0.25	0.29	0.32	0.24	0.19	0.30	2.28
46:	0.42	0.37	0.37	0.34	0.32	0.28	0.24	0.17	0.21	0.14	2.86
47:	0.17	0.19	0.24	0.23	0.27	0.24	0.21	0.26	0.23	0.35	2.39
48:	0.40	0.38	0.42	0.57	0.44	0.41	0.39	0.45	0.40	0.51	4.38
49:	0.35	0.46	0.61	0.50	0.55	0.35	0.32	0.36	0.30	0.29	4.10
50:	0.31	0.45	0.58	0.53	0.63	0.68	0.64	0.63	0.65	0.67	5.77
51:	0.61	0.70	0.47	0.66	0.61	0.60	0.72	0.71	0.88	0.78	6.74
52:	0.72	0.74	0.53	0.59	0.48	0.46	0.51	0.45	0.39	0.42	5.28
53:	0.47	0.55	0.54	0.61	0.48	0.50	0.65	0.72	0.75	0.67	5.94
54:	0.97	1.10	0.69	1.16	0.99	1.01	1.03	1.10	0.91	0.96	9.93
55:	1.08	0.83	1.05	0.98	0.82	0.79	0.74	0.84	0.68	0.65	8.46

56:	0.73	0.82	0.98	1.13	1.01	1.11	1.06	1.23	1.31	1.24	10.62
57:	1.55	1.32	0.63	0.90	0.94	1.62	1.30	1.41	1.25	0.85	11.77
58:	1.03	1.14	0.79	0.89	0.77	0.74	0.73	0.72	0.50	0.63	7.94
59:	0.78	0.73	0.67	0.44	0.25	0.34	0.43	0.30	0.24	0.29	4.48
60:	0.34	0.30	0.14	0.18	0.17	0.15	0.17	0.19	0.23	0.28	2.14
61:	0.20	0.19	0.13	0.12	0.15	0.13	0.12	0.12	0.13	0.16	1.46
62:	0.16	0.08	0.10	0.09	0.15	0.16	0.15	0.15	0.11	0.07	1.23
63:	0.08	0.09	0.05	0.07	0.07	0.05	0.18	0.13	0.08	0.04	0.83
64:	0.06	0.03	0.04	0.04	0.04	0.07	0.03	0.02	0.02	0.02	0.36
65:	0.00	0.01	0.00	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.06
66:	0.01	0.01	0.02	0.03	0.01	0.00	0.01	0.01	0.01	0.01	0.11
67:	0.01	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.06
68:	0.01	0.02	0.02	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.15
69:	0.01	0.01	0.00	0.01	0.01	0.01	0.02	0.00	0.00	0.00	0.07

Statistics Chart

S211_BLH080004_18122020_085944: Statistics Chart



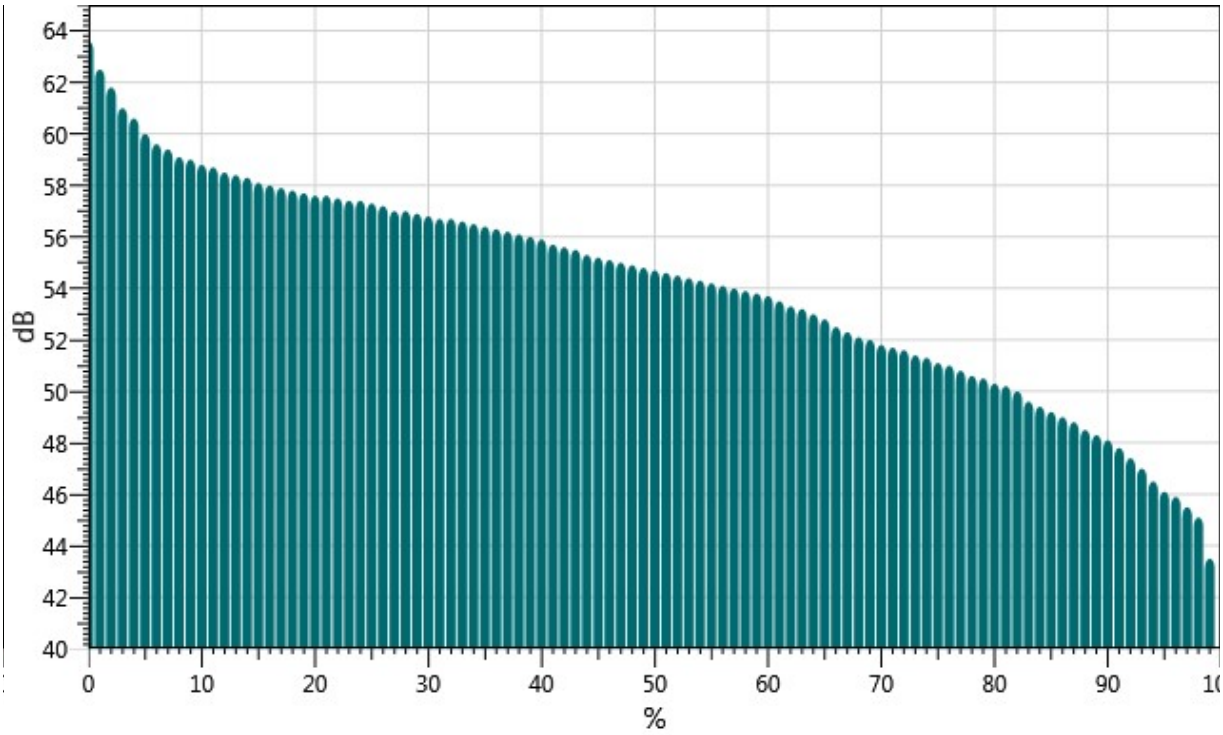
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		63.6	62.5	61.8	61.0	60.6	60.0	59.6	59.4	59.1

10%:	59.0	58.8	58.7	58.5	58.4	58.3	58.1	58.0	57.9	57.8
20%:	57.7	57.6	57.6	57.5	57.4	57.4	57.3	57.2	57.0	57.0
30%:	56.9	56.8	56.7	56.7	56.6	56.5	56.4	56.3	56.2	56.1
40%:	56.0	55.9	55.7	55.6	55.5	55.3	55.2	55.1	55.0	54.9
50%:	54.8	54.7	54.6	54.5	54.4	54.3	54.2	54.1	54.0	53.9
60%:	53.8	53.7	53.5	53.3	53.2	53.0	52.8	52.5	52.3	52.1
70%:	52.0	51.8	51.7	51.6	51.4	51.3	51.1	51.0	50.8	50.6
80%:	50.5	50.3	50.2	50.0	49.6	49.4	49.2	49.0	48.8	48.5
90%:	48.3	48.1	47.8	47.4	47.0	46.5	46.1	45.9	45.5	45.1
100%:	43.5									

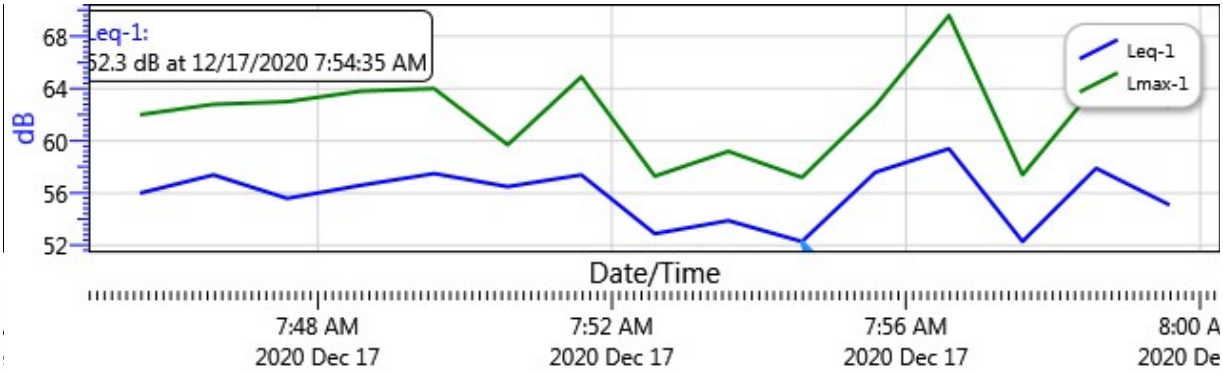
Exceedance Chart

S211_BLH080004_18122020_085944: Exceedance Chart



Logged Data Chart

S211_BLH080004_18122020_085944: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 7:56 am Project Number: 7063

Monitoring Segment / Area: 3 Monitoring Site Address: 9160 Sunset Blvd

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 5 ft

Approximate distance of sound level meter from construction site: 5 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☒ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 7:56 am Measurement End Time: 8:11 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S212

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
$L_{eq\ (h)}$	Slow: 69.0 Fast:
L_{max}	Slow: 83.6 Fast:
L_{90}	Slow: 58.6 Fast:

Field Notes:

1. Loud traffic along Sunset Blvd.
2.
3.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 7:56 am Project Number: 7063

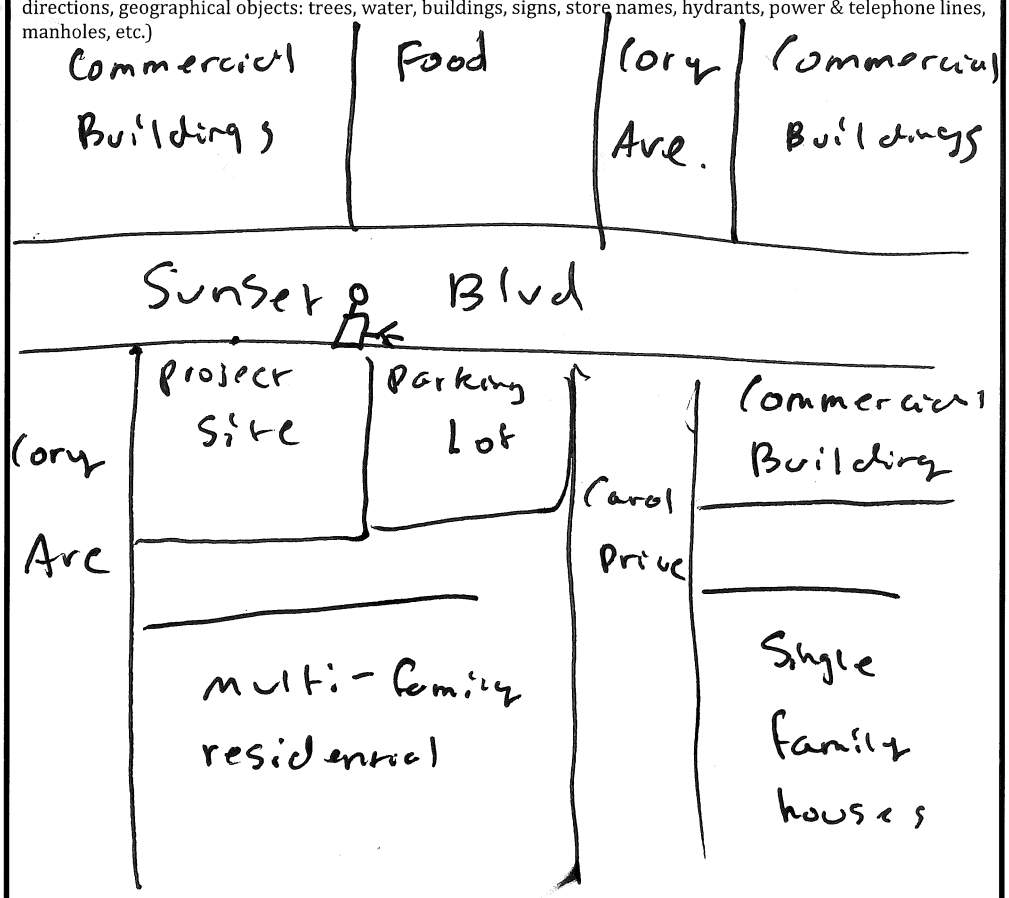
Monitoring Segment / Area: 3 Monitoring Site Address: 9160 Sunset Blvd

Site Map

Plan View

North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

- Commercial buildings north of project site are two stories

34.090513° −118.391581° 420 ft

Latitude: [redacted]	Longitude: [redacted]	Elevation: [redacted]

Noise Monitor's Signature: [signature] Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S212_BLH080004_18122020_085945
Start Time	12/17/2020 8:02:29 AM
Stop Time	12/17/2020 8:17:29 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	69 dB	L90	1	58.6 dB
Lmax	1	83.6 dB	Lmin	1	52.9 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

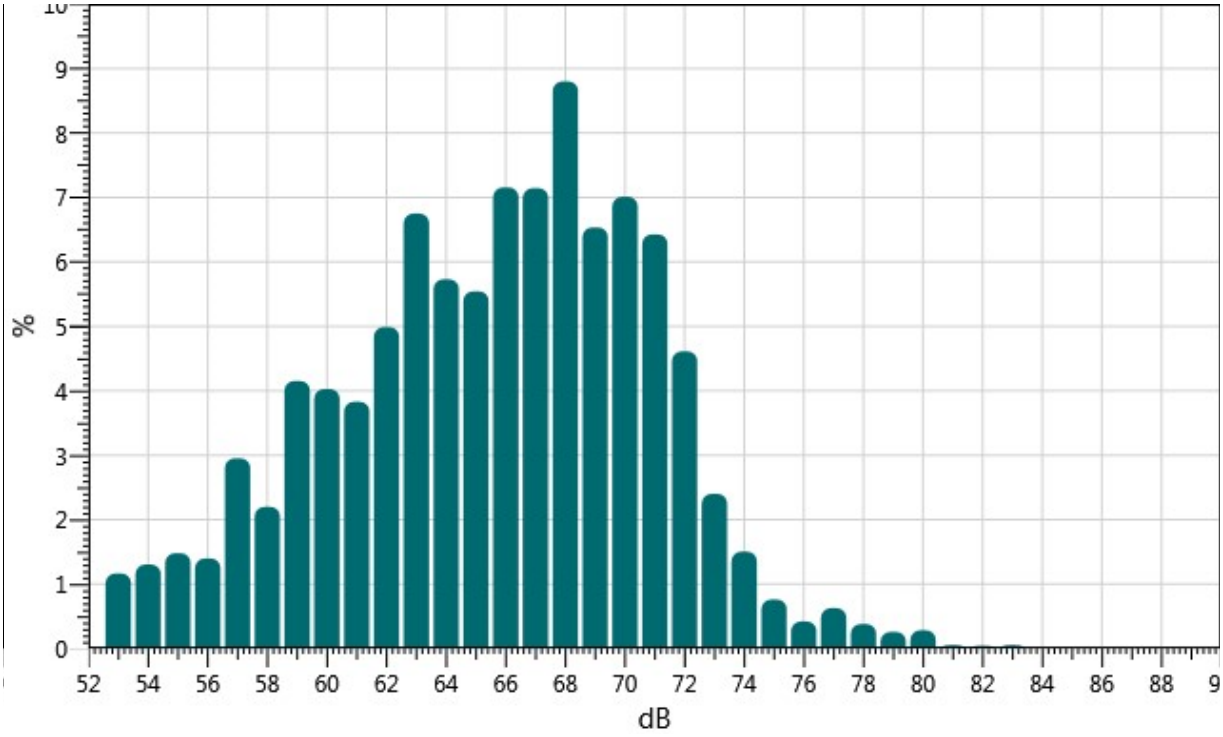
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
52:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01
53:	0.01	0.02	0.01	0.02	0.10	0.18	0.19	0.15	0.18	0.30	1.16
54:	0.18	0.11	0.17	0.17	0.10	0.07	0.08	0.08	0.10	0.23	1.30
55:	0.24	0.31	0.25	0.10	0.12	0.14	0.09	0.09	0.09	0.06	1.48
56:	0.10	0.15	0.10	0.10	0.10	0.13	0.18	0.17	0.15	0.22	1.40
57:	0.21	0.31	0.16	0.28	0.40	0.35	0.37	0.34	0.27	0.25	2.95
58:	0.27	0.23	0.24	0.31	0.19	0.19	0.17	0.19	0.19	0.23	2.20
59:	0.24	0.31	0.63	0.53	0.45	0.32	0.37	0.59	0.38	0.32	4.15
60:	0.34	0.52	0.25	0.33	0.30	0.38	0.51	0.50	0.40	0.51	4.03
61:	0.38	0.32	0.28	0.35	0.43	0.35	0.34	0.44	0.49	0.47	3.83
62:	0.35	0.41	0.47	0.48	0.54	0.55	0.62	0.44	0.59	0.54	4.99
63:	0.60	0.61	0.43	0.56	0.93	0.85	0.73	0.60	0.77	0.69	6.75
64:	0.52	0.42	0.47	0.50	0.51	0.58	0.51	0.56	0.81	0.85	5.73

65:	0.69	0.61	0.46	0.49	0.45	0.49	0.59	0.57	0.55	0.63	5.54
66:	0.81	0.72	0.50	0.73	0.75	0.83	0.75	0.62	0.75	0.71	7.15
67:	0.73	0.78	0.76	1.01	0.71	0.64	0.65	0.62	0.65	0.59	7.14
68:	0.66	0.65	0.63	0.72	0.93	1.01	1.04	1.05	1.05	1.05	8.80
69:	0.95	0.85	0.60	0.54	0.53	0.55	0.51	0.61	0.64	0.73	6.53
70:	0.96	0.77	0.71	0.62	0.55	0.60	0.78	0.68	0.66	0.69	7.01
71:	0.55	0.64	0.61	0.73	0.67	0.63	0.62	0.58	0.63	0.75	6.43
72:	0.65	0.76	0.64	0.30	0.53	0.42	0.32	0.35	0.30	0.34	4.61
73:	0.44	0.32	0.25	0.22	0.19	0.19	0.18	0.18	0.20	0.23	2.40
74:	0.22	0.15	0.17	0.12	0.12	0.10	0.15	0.23	0.14	0.11	1.50
75:	0.13	0.10	0.10	0.05	0.09	0.07	0.06	0.05	0.05	0.05	0.76
76:	0.07	0.05	0.06	0.03	0.03	0.03	0.03	0.04	0.03	0.05	0.42
77:	0.04	0.07	0.04	0.04	0.05	0.04	0.06	0.11	0.10	0.07	0.63
78:	0.06	0.06	0.08	0.02	0.03	0.02	0.03	0.03	0.02	0.03	0.38
79:	0.03	0.02	0.03	0.05	0.02	0.02	0.02	0.02	0.02	0.02	0.26
80:	0.02	0.03	0.03	0.04	0.03	0.03	0.03	0.06	0.02	0.01	0.28
81:	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.05
82:	0.00	0.01	0.01	0.01	0.00	0.01	0.01	0.00	0.01	0.01	0.05
83:	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.00	0.00	0.00	0.05

Statistics Chart

S212_BLH080004_18122020_085945: Statistics Chart

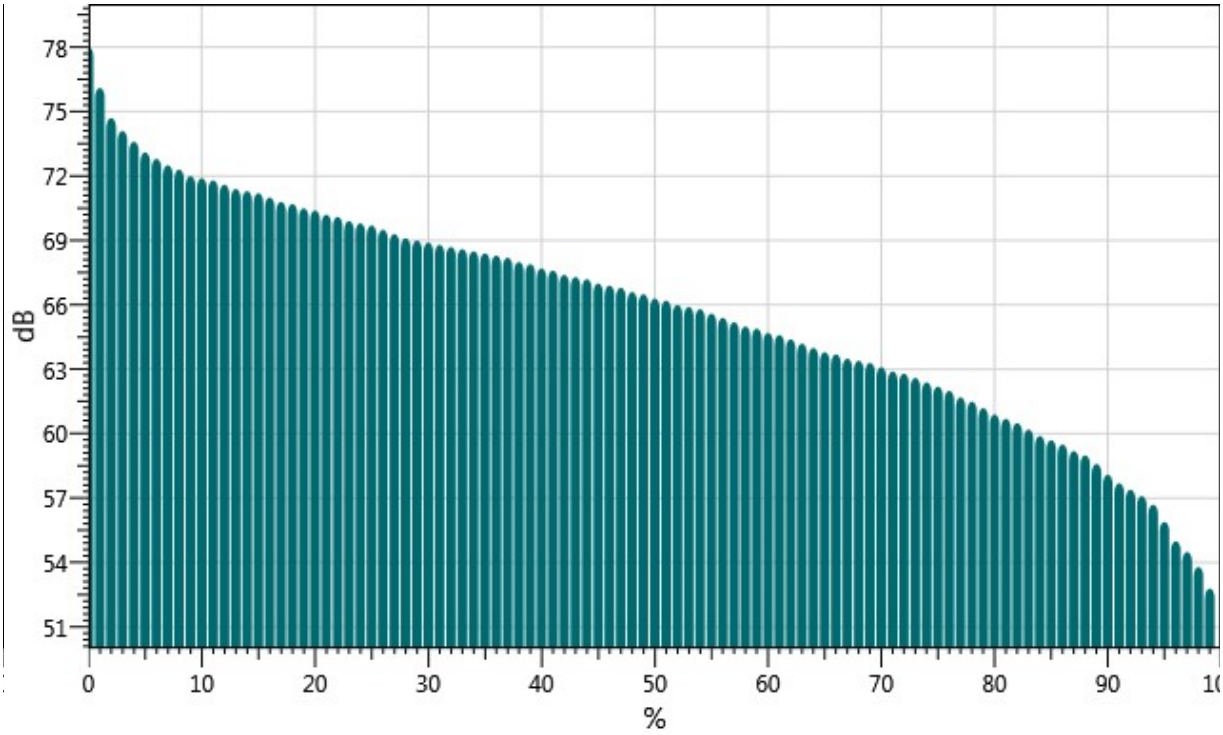


Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		78.0	76.1	74.7	74.1	73.6	73.1	72.8	72.5	72.3
10%:	72.0	71.9	71.8	71.6	71.4	71.3	71.2	71.0	70.8	70.7
20%:	70.5	70.4	70.2	70.1	69.9	69.8	69.7	69.5	69.3	69.1
30%:	69.0	68.9	68.8	68.7	68.6	68.5	68.4	68.3	68.2	68.0
40%:	67.9	67.7	67.6	67.4	67.3	67.2	67.0	66.9	66.8	66.6
50%:	66.5	66.3	66.2	66.0	65.9	65.8	65.6	65.4	65.2	65.0
60%:	64.9	64.7	64.6	64.4	64.2	64.0	63.8	63.7	63.5	63.4
70%:	63.3	63.1	62.9	62.8	62.6	62.4	62.2	62.0	61.7	61.5
80%:	61.2	60.9	60.7	60.5	60.2	59.9	59.7	59.5	59.2	59.0
90%:	58.6	58.1	57.7	57.4	57.1	56.7	55.9	55.0	54.5	53.8
100%:	52.8									

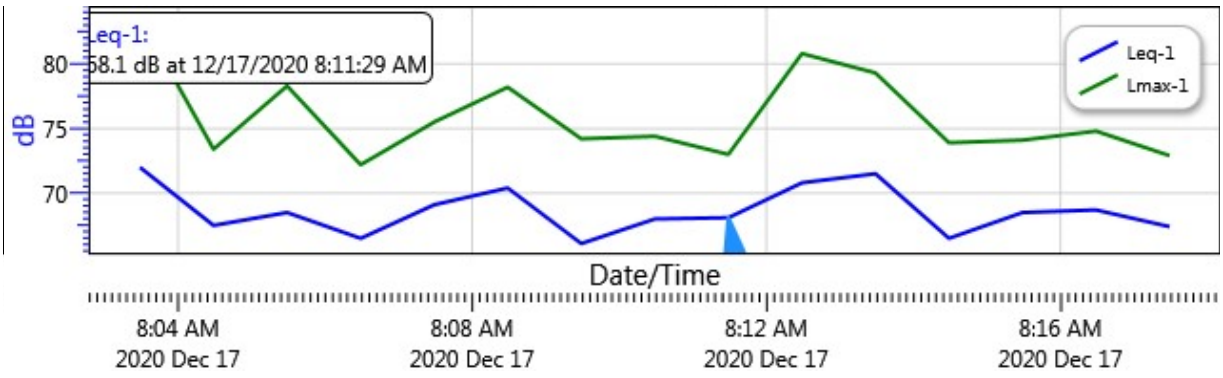
Exceedance Chart

S212_BLH080004_18122020_085945: Exceedance Chart



Logged Data Chart

S212_BLH080004_18122020_085945: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 8:15am Project Number: 7063

Monitoring Segment / Area: 4 Monitoring Site Address: 1020 Cory Ave

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 10 ft

Approximate distance of sound level meter from construction site: 102 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 8:15 am Measurement End Time: 8:30 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S213

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
$L_{eq\ (h)}$	Slow: 59.4 Fast:
L_{max}	Slow: 74.5 Fast:
L_{90}	Slow: 50.1 Fast:

Field Notes:

1. Light traffic along Cory Ave
2. Background traffic noise along Sunset Blvd.
3.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 8:15 am Project Number: 7063

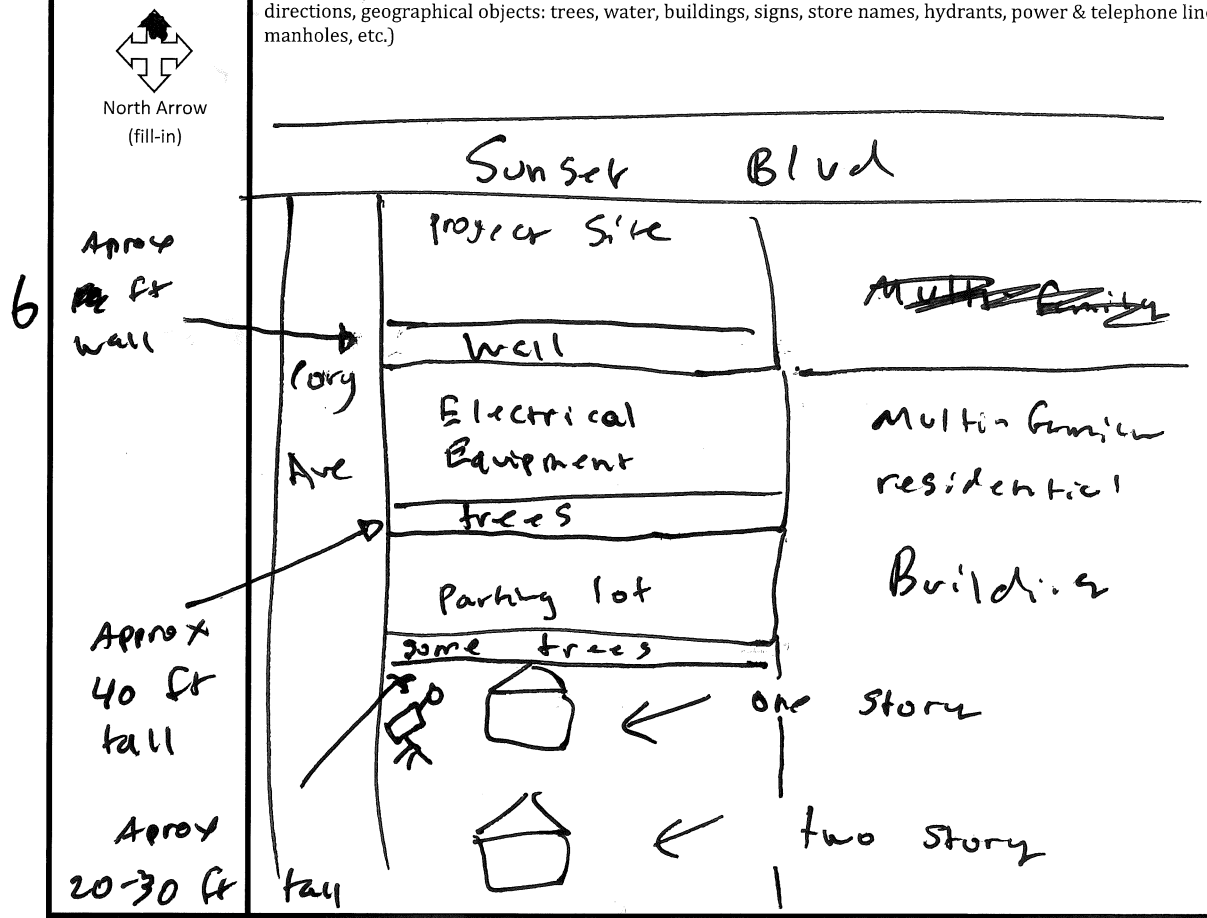
Monitoring Segment / Area: 4 Monitoring Site Address: 1020 Cory Ave

Site Map

Plan View

North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

34.089933° -118.392104° 398 ft

Latitude: [redacted]	Longitude: [redacted]	Elevation: [redacted]

Noise Monitor's Signature: [signature] Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S213_BLH080004_18122020_085947
Start Time	12/17/2020 8:21:42 AM
Stop Time	12/17/2020 8:36:42 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	59.4 dB	L90	1	50.1 dB
Lmax	1	74.5 dB	Lmin	1	47.6 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

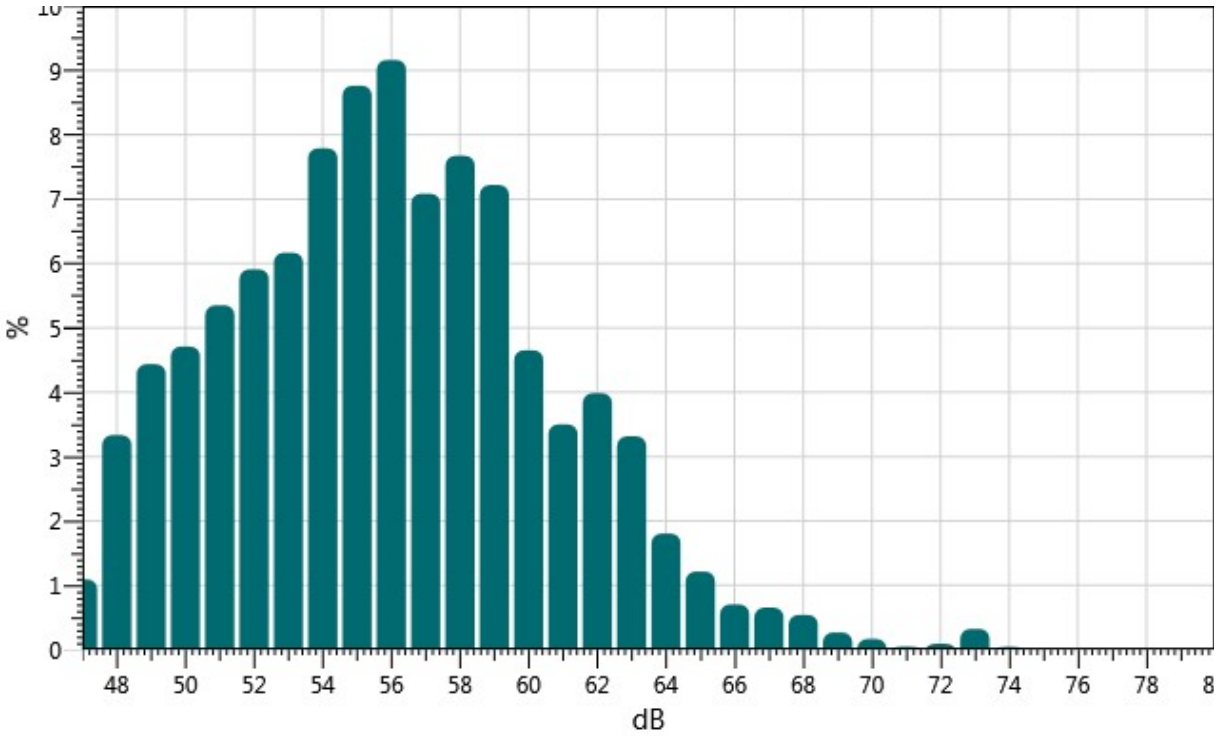
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
47:	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.37	0.28	0.28	1.09
48:	0.26	0.25	0.02	0.09	0.60	0.44	0.43	0.39	0.48	0.37	3.33
49:	0.32	0.47	0.60	0.48	0.39	0.40	0.41	0.38	0.41	0.58	4.44
50:	0.41	0.42	0.41	0.44	0.37	0.55	0.50	0.51	0.52	0.57	4.71
51:	0.48	0.57	0.31	0.52	0.60	0.55	0.71	0.57	0.52	0.52	5.35
52:	0.46	0.48	0.47	0.65	0.69	0.49	0.61	0.56	0.65	0.84	5.91
53:	0.53	0.52	0.49	0.79	0.66	0.56	0.73	0.61	0.67	0.60	6.17
54:	0.86	0.81	0.52	0.69	0.77	0.90	0.84	0.69	0.80	0.92	7.79
55:	0.91	0.89	0.87	0.92	0.82	0.90	0.88	0.80	0.97	0.80	8.76
56:	0.92	0.95	0.85	0.83	0.94	0.99	1.04	0.97	0.82	0.85	9.16
57:	0.81	0.87	0.49	0.84	0.64	0.69	0.67	0.74	0.59	0.75	7.09
58:	0.82	0.84	0.78	0.77	0.83	0.74	0.71	0.87	0.70	0.62	7.67
59:	0.64	0.82	0.78	0.81	0.90	0.71	0.66	0.72	0.58	0.59	7.22

60:	0.50	0.56	0.36	0.47	0.45	0.52	0.47	0.50	0.44	0.38	4.65
61:	0.42	0.34	0.30	0.39	0.30	0.32	0.32	0.35	0.41	0.37	3.50
62:	0.36	0.40	0.33	0.44	0.35	0.34	0.46	0.47	0.41	0.44	3.98
63:	0.51	0.44	0.28	0.33	0.31	0.49	0.37	0.22	0.19	0.19	3.32
64:	0.19	0.19	0.28	0.21	0.20	0.19	0.16	0.12	0.12	0.13	1.80
65:	0.12	0.10	0.11	0.12	0.14	0.11	0.11	0.12	0.12	0.16	1.21
66:	0.14	0.09	0.04	0.06	0.07	0.07	0.06	0.06	0.05	0.06	0.70
67:	0.05	0.06	0.06	0.06	0.08	0.09	0.09	0.07	0.05	0.05	0.65
68:	0.04	0.05	0.06	0.09	0.06	0.06	0.04	0.05	0.05	0.05	0.54
69:	0.03	0.04	0.02	0.02	0.07	0.02	0.02	0.01	0.01	0.01	0.27
70:	0.01	0.05	0.02	0.02	0.03	0.01	0.01	0.01	0.00	0.01	0.16
71:	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.05
72:	0.01	0.01	0.01	0.00	0.01	0.01	0.02	0.02	0.02	0.01	0.09
73:	0.02	0.02	0.01	0.02	0.03	0.06	0.04	0.05	0.05	0.03	0.32
74:	0.01	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.04

Statistics Chart

S213_BLH080004_18122020_085947: Statistics Chart



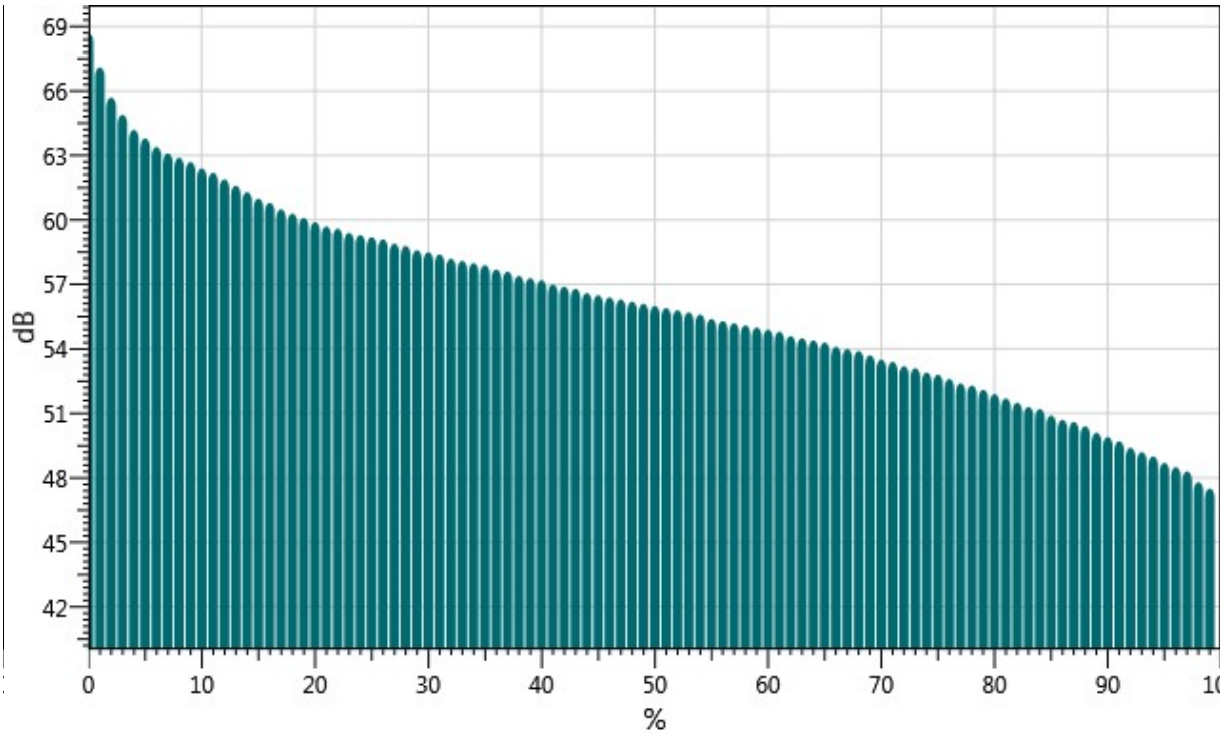
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9

0%:		68.7	67.1	65.7	64.9	64.2	63.8	63.4	63.1	62.9
10%:	62.7	62.4	62.2	61.9	61.6	61.3	61.0	60.8	60.5	60.3
20%:	60.1	59.9	59.7	59.6	59.4	59.3	59.2	59.1	58.9	58.8
30%:	58.6	58.5	58.4	58.2	58.1	58.0	57.9	57.7	57.6	57.4
40%:	57.3	57.2	57.0	56.9	56.8	56.6	56.5	56.4	56.3	56.2
50%:	56.1	56.0	55.9	55.8	55.7	55.6	55.4	55.3	55.2	55.1
60%:	55.0	54.9	54.8	54.6	54.5	54.4	54.3	54.1	54.0	53.9
70%:	53.7	53.5	53.4	53.2	53.1	52.9	52.8	52.6	52.4	52.3
80%:	52.1	51.9	51.7	51.5	51.3	51.2	50.9	50.7	50.6	50.4
90%:	50.1	49.9	49.7	49.4	49.2	49.0	48.7	48.5	48.3	47.8
100%:	47.5									

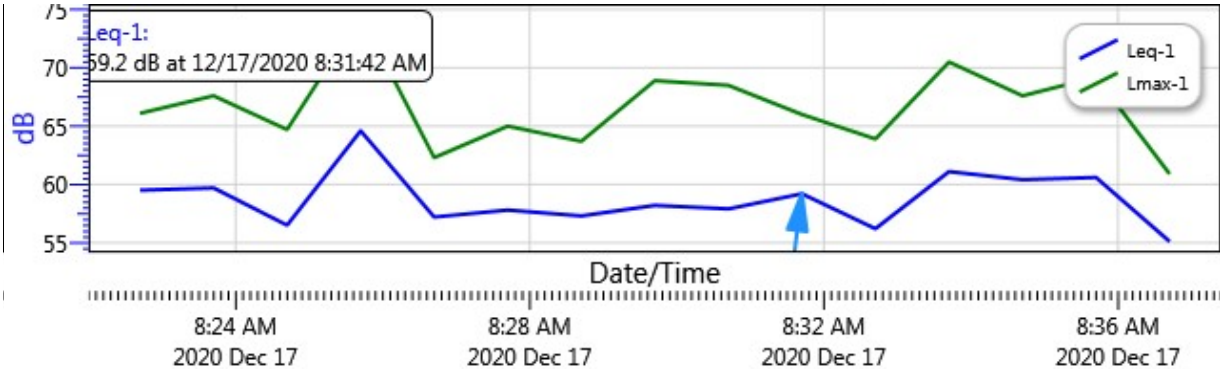
Exceedance Chart

S213_BLH080004_18122020_085947: Exceedance Chart



Logged Data Chart

S213_BLH080004_18122020_085947: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 8:34 am Project Number: 7063

Monitoring Segment / Area: 5 Monitoring Site Address: 1112 Cory Ave.

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: Ø mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 10 ft

Approximate distance of sound level meter from construction site: 215 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 8:34 am Measurement End Time: 8:49 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S214

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
$L_{eq\ (h)}$	Slow: 61.0 Fast:
L_{max}	Slow: 73.0 Fast:
L_{90}	Slow: 52.0 Fast:

Field Notes:

1. Occasional traffic along Cory Ave.
2. Background traffic along Sunset Blvd.
3.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 8:34 am Project Number: 7063

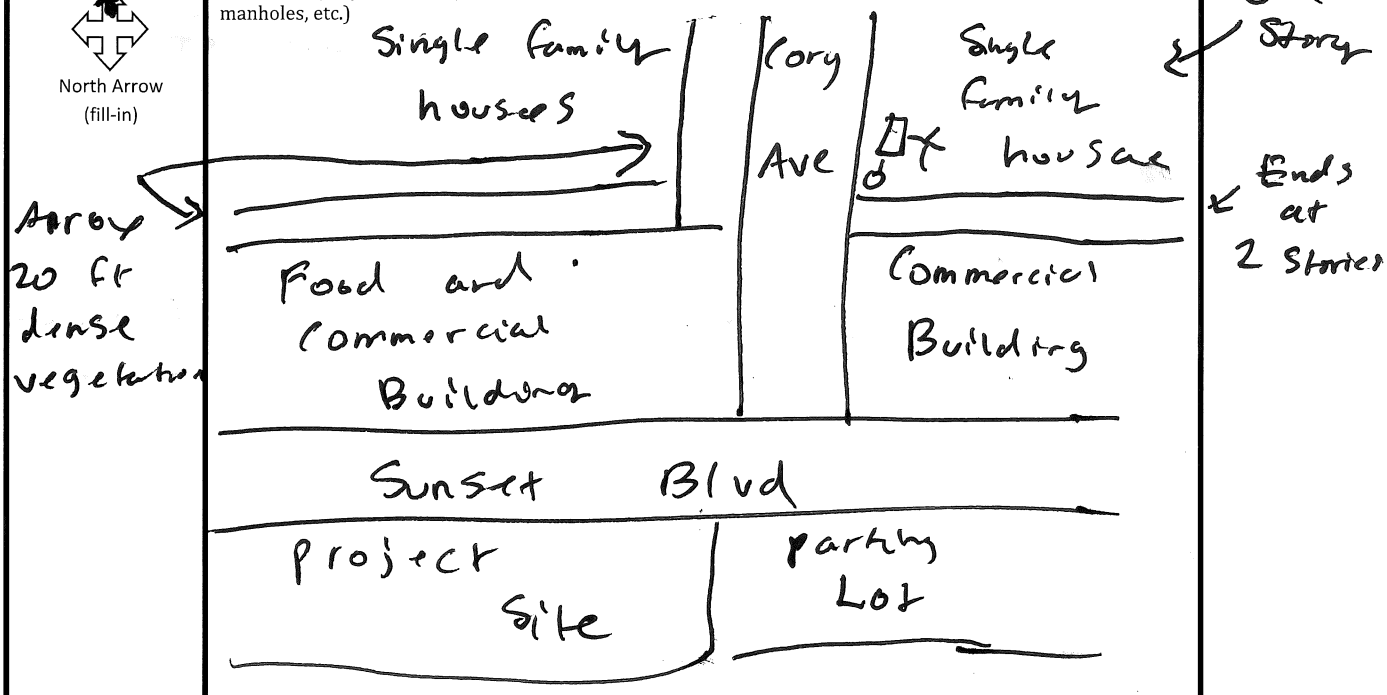
Monitoring Segment / Area: 5 Monitoring Site Address: 1112 Cory Ave.

Site Map

Plan View

North Arrow (fill-in)

(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.)



Elevation View

(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

- Commercial building South of Single-family house rises ~~as it~~ north as it goes further up Cory Ave,

34.091073° -118.391411° 440 ft

Latitude:	Longitude:	Elevation:
[redacted]	[redacted]	[redacted]

Noise Monitor's Signature: [signature] Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S214_BLH080004_18122020_085948
Start Time	12/17/2020 8:41:22 AM
Stop Time	12/17/2020 8:56:22 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	61 dB	L90	1	52 dB
Lmax	1	73 dB	Lmin	1	46.6 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

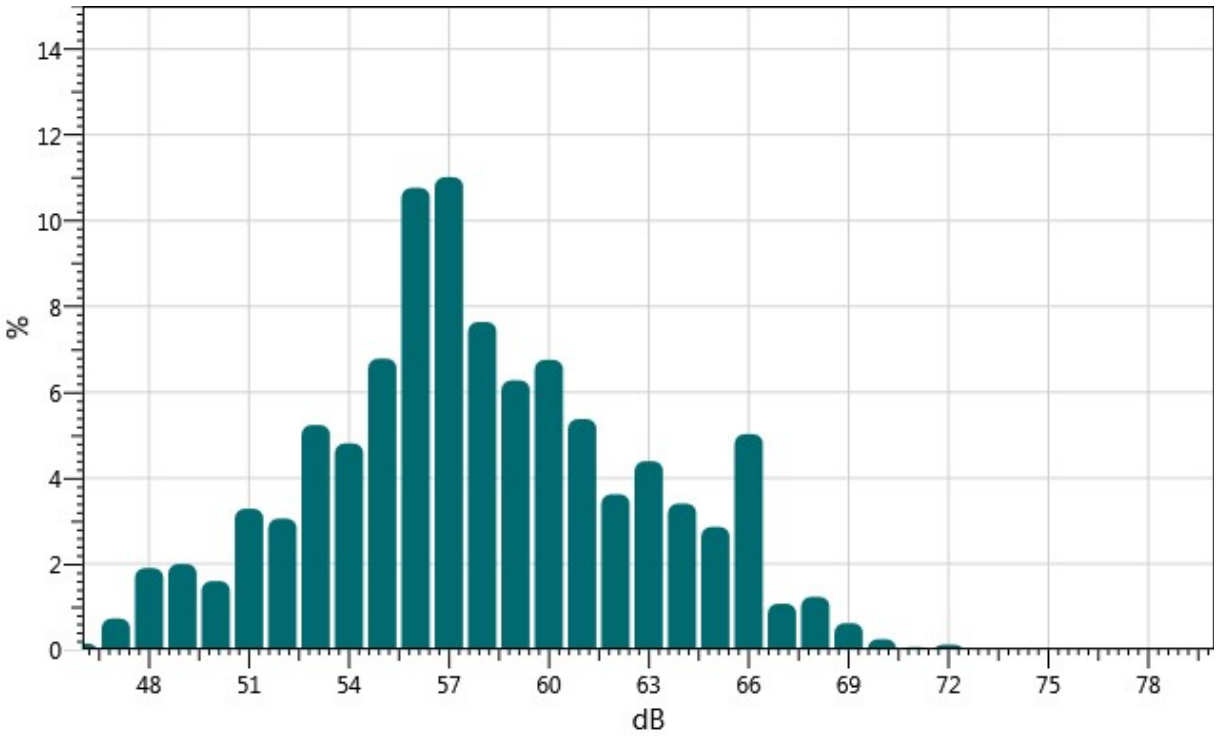
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
46:	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.02	0.09	0.02	0.14
47:	0.02	0.07	0.11	0.10	0.05	0.04	0.02	0.09	0.14	0.09	0.73
48:	0.18	0.14	0.13	0.19	0.27	0.18	0.11	0.27	0.18	0.25	1.90
49:	0.30	0.25	0.21	0.20	0.19	0.22	0.13	0.10	0.18	0.21	2.00
50:	0.20	0.19	0.10	0.21	0.14	0.12	0.17	0.15	0.14	0.17	1.60
51:	0.35	0.42	0.36	0.44	0.26	0.33	0.25	0.21	0.22	0.44	3.28
52:	0.31	0.36	0.24	0.23	0.22	0.28	0.35	0.36	0.36	0.34	3.05
53:	0.45	0.53	0.47	0.39	0.40	0.53	0.53	0.63	0.65	0.66	5.24
54:	0.51	0.50	0.41	0.47	0.50	0.45	0.54	0.53	0.43	0.46	4.81
55:	0.45	0.46	0.55	0.60	0.79	0.79	0.73	0.75	0.77	0.89	6.78
56:	0.68	0.84	1.09	1.08	1.03	1.02	1.12	1.14	1.21	1.56	10.76
57:	1.42	1.48	0.85	1.11	0.97	1.08	1.20	1.05	1.02	0.83	11.01
58:	0.76	1.03	0.90	0.81	0.77	0.58	0.67	0.69	0.73	0.70	7.64

59:	0.59	0.68	0.58	0.56	0.54	0.64	0.56	0.63	0.68	0.83	6.28
60:	0.58	0.64	0.50	0.75	0.61	0.91	0.68	0.80	0.70	0.58	6.76
61:	0.61	0.53	0.62	0.43	0.46	0.49	0.56	0.65	0.57	0.46	5.38
62:	0.54	0.37	0.39	0.36	0.35	0.29	0.26	0.35	0.33	0.37	3.62
63:	0.53	0.47	0.32	0.41	0.33	0.45	0.59	0.39	0.39	0.51	4.39
64:	0.56	0.39	0.34	0.33	0.26	0.31	0.27	0.27	0.32	0.35	3.40
65:	0.37	0.40	0.24	0.24	0.22	0.20	0.20	0.23	0.35	0.42	2.86
66:	0.49	0.59	0.50	0.74	0.69	0.67	0.54	0.39	0.28	0.14	5.02
67:	0.10	0.23	0.13	0.08	0.08	0.08	0.08	0.09	0.09	0.12	1.07
68:	0.11	0.08	0.08	0.07	0.08	0.12	0.26	0.22	0.10	0.12	1.23
69:	0.11	0.08	0.06	0.09	0.11	0.08	0.02	0.02	0.02	0.02	0.62
70:	0.03	0.02	0.02	0.03	0.03	0.05	0.04	0.01	0.01	0.01	0.24
71:	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.06
72:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.12
73:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Statistics Chart

S214_BLH080004_18122020_085948: Statistics Chart



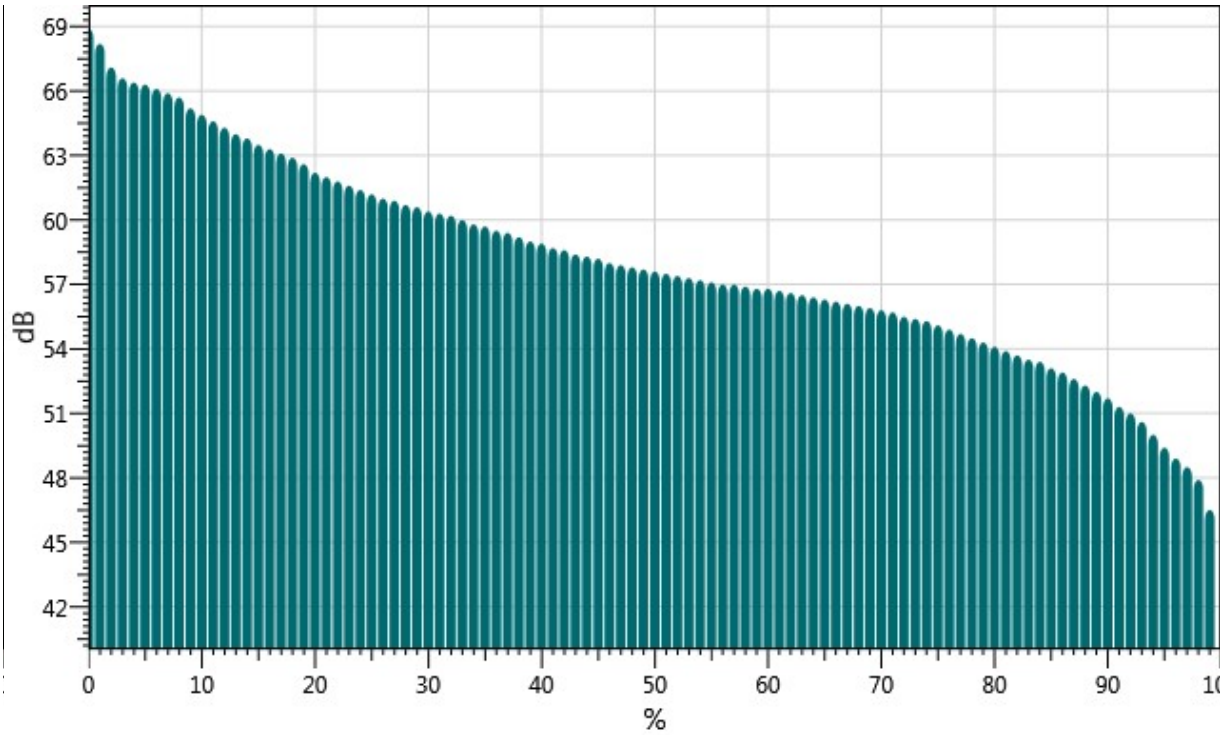
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9

0%:		68.9	68.2	67.1	66.6	66.4	66.3	66.1	65.9	65.7
10%:	65.2	64.9	64.6	64.3	64.0	63.8	63.5	63.3	63.1	62.9
20%:	62.6	62.2	62.0	61.8	61.6	61.4	61.2	61.0	60.9	60.7
30%:	60.6	60.4	60.3	60.2	60.0	59.8	59.7	59.5	59.4	59.2
40%:	59.0	58.9	58.7	58.6	58.4	58.3	58.2	58.0	57.9	57.8
50%:	57.7	57.6	57.5	57.4	57.3	57.2	57.1	57.0	57.0	56.9
60%:	56.8	56.8	56.7	56.6	56.5	56.4	56.3	56.2	56.1	56.0
70%:	55.9	55.8	55.7	55.5	55.4	55.3	55.1	54.9	54.7	54.5
80%:	54.3	54.1	53.9	53.7	53.5	53.4	53.1	52.9	52.6	52.3
90%:	52.0	51.7	51.3	51.0	50.6	50.0	49.4	48.9	48.5	47.9
100%:	46.5									

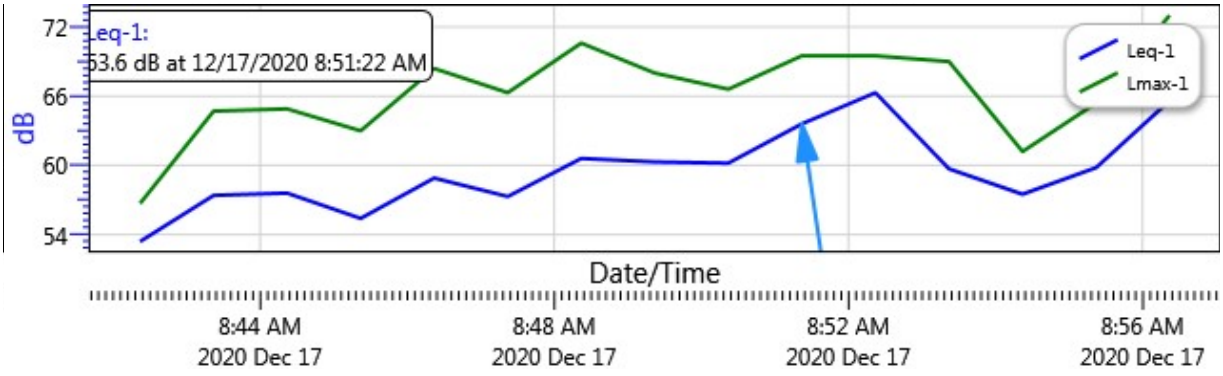
Exceedance Chart

S214_BLH080004_18122020_085948: Exceedance Chart



Logged Data Chart

S214_BLH080004_18122020_085948: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 9:01am Project Number: 7063

Monitoring Segment / Area: 6 Monitoring Site Address: 1044 Carol Drive

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: Ø mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 10 ft

Approximate distance of sound level meter from construction site: 165 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 9:01 am Measurement End Time: 9:16 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S215

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
$L_{eq\ (h)}$	Slow: 56.5 Fast:
L_{max}	Slow: 70.4 Fast:
L_{90}	Slow: 48.2 Fast:

Field Notes:

1. Occasional traffic along Carol Drive
2. Background traffic along Sunset Blvd.
3.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 9:01 am Project Number: 7063

Monitoring Segment / Area: 6 Monitoring Site Address: 1044 Carol Drive

Site Map

Plan View North Arrow (fill-in)	(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.) Refer to S210
Elevation View	(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

Latitude:	**Longitude:**	**Elevation:**

Noise Monitor's Signature: [signature] Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S215_BLH080004_18122020_085949
Start Time	12/17/2020 9:08:19 AM
Stop Time	12/17/2020 9:23:19 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	56.5 dB	L90	1	48.2 dB
Lmax	1	70.4 dB	Lmin	1	44.5 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

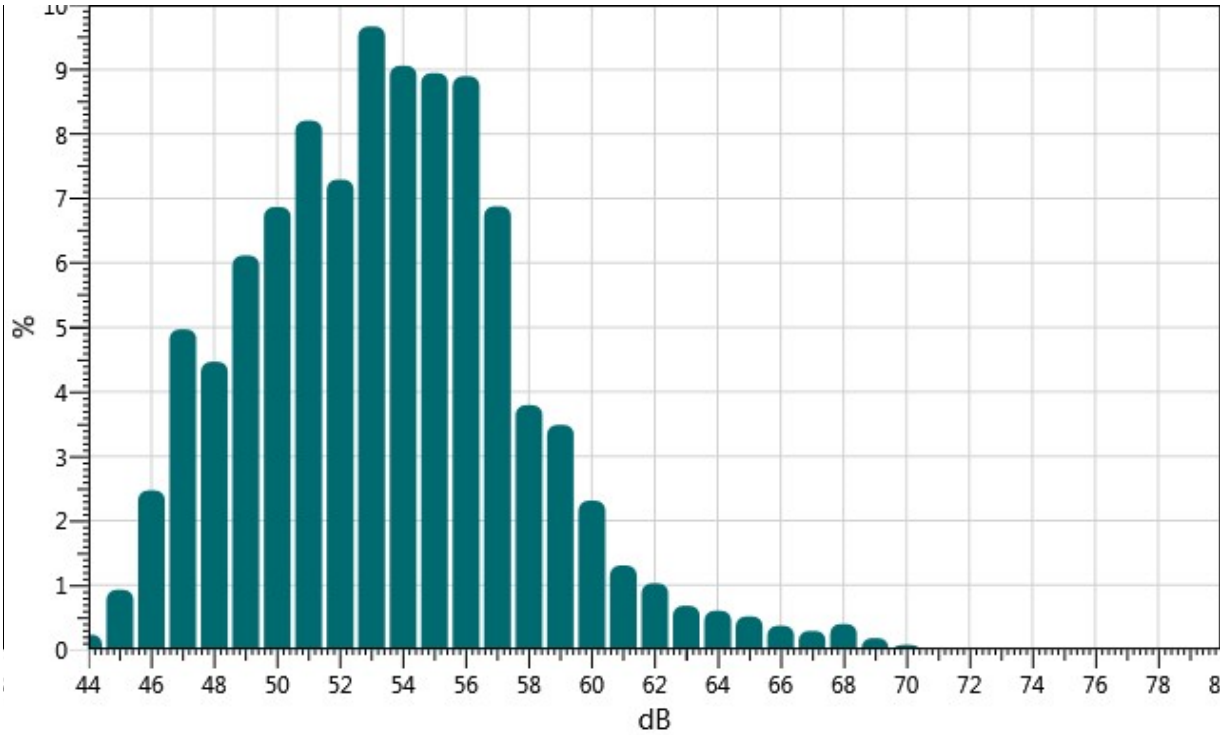
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
44:	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.11	0.02	0.02	0.23
45:	0.01	0.01	0.03	0.05	0.06	0.06	0.19	0.15	0.17	0.20	0.93
46:	0.25	0.14	0.08	0.17	0.11	0.24	0.37	0.36	0.34	0.41	2.47
47:	0.38	0.30	0.32	0.36	0.55	0.69	0.62	0.67	0.46	0.61	4.97
48:	0.50	0.54	0.30	0.47	0.40	0.35	0.47	0.51	0.45	0.48	4.47
49:	0.51	0.63	0.63	0.70	0.63	0.60	0.56	0.72	0.59	0.54	6.11
50:	0.61	0.59	0.53	0.65	0.77	0.69	0.78	0.68	0.73	0.85	6.87
51:	0.89	0.86	0.47	0.94	0.81	1.04	0.86	0.84	0.70	0.80	8.21
52:	0.86	0.86	0.69	0.63	0.70	0.62	0.70	0.64	0.79	0.79	7.29
53:	0.74	0.92	0.82	1.01	1.19	1.10	1.08	0.84	1.01	0.96	9.67
54:	0.85	1.13	0.70	1.09	0.92	0.99	0.86	0.79	0.84	0.89	9.06
55:	0.94	0.99	0.91	1.01	0.99	0.98	0.83	0.78	0.67	0.83	8.94
56:	0.81	0.95	0.78	0.84	0.97	0.76	0.81	0.84	1.03	1.12	8.90

57:	0.94	0.89	0.60	0.85	0.79	0.76	0.62	0.56	0.48	0.40	6.88
58:	0.55	0.36	0.40	0.44	0.35	0.38	0.39	0.32	0.27	0.34	3.79
59:	0.42	0.35	0.29	0.27	0.37	0.33	0.32	0.34	0.42	0.38	3.49
60:	0.35	0.34	0.24	0.19	0.19	0.18	0.20	0.21	0.20	0.21	2.31
61:	0.16	0.17	0.12	0.12	0.15	0.11	0.12	0.14	0.10	0.11	1.30
62:	0.13	0.13	0.12	0.09	0.09	0.11	0.11	0.11	0.07	0.07	1.03
63:	0.08	0.08	0.06	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.68
64:	0.06	0.06	0.08	0.07	0.07	0.06	0.06	0.06	0.04	0.05	0.60
65:	0.04	0.05	0.05	0.05	0.05	0.07	0.06	0.05	0.05	0.06	0.51
66:	0.04	0.06	0.03	0.04	0.04	0.03	0.03	0.03	0.03	0.03	0.37
67:	0.03	0.03	0.04	0.03	0.06	0.03	0.02	0.02	0.02	0.01	0.29
68:	0.03	0.02	0.02	0.02	0.03	0.03	0.06	0.12	0.04	0.03	0.40
69:	0.02	0.03	0.02	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.18
70:	0.01	0.01	0.01	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.07

Statistics Chart

S215_BLH080004_18122020_085949: Statistics Chart



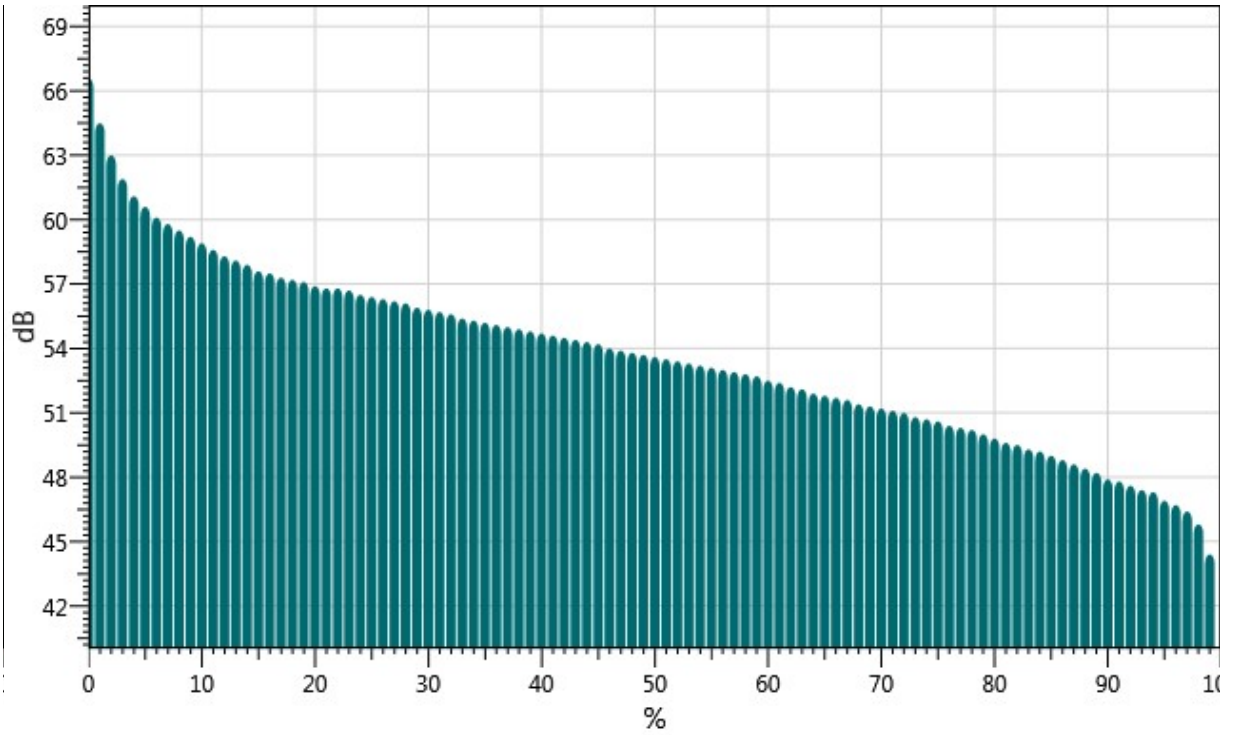
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		66.6	64.5	63.0	61.9	61.1	60.6	60.1	59.8	59.5

10%:	59.2	58.9	58.6	58.3	58.1	57.9	57.6	57.5	57.3	57.2
20%:	57.1	56.9	56.8	56.8	56.7	56.5	56.4	56.3	56.2	56.1
30%:	55.9	55.8	55.7	55.6	55.4	55.3	55.2	55.1	55.0	54.9
40%:	54.8	54.7	54.6	54.5	54.4	54.3	54.2	54.0	53.9	53.8
50%:	53.7	53.6	53.5	53.4	53.3	53.2	53.1	53.0	52.9	52.8
60%:	52.7	52.5	52.4	52.2	52.1	51.9	51.8	51.7	51.6	51.4
70%:	51.3	51.2	51.1	51.0	50.8	50.7	50.6	50.4	50.3	50.2
80%:	50.0	49.8	49.6	49.5	49.3	49.2	49.0	48.8	48.6	48.4
90%:	48.2	47.9	47.8	47.6	47.4	47.3	46.9	46.7	46.4	45.8
100%:	44.4									

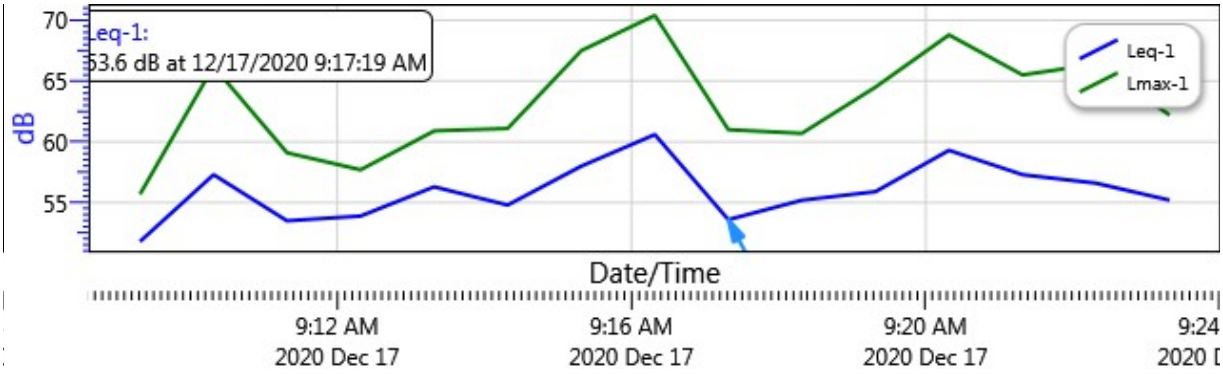
Exceedance Chart

S215_BLH080004_18122020_085949: Exceedance Chart



Logged Data Chart

S215_BLH080004_18122020_085949: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 9:20 am Project Number: 7063

Monitoring Segment / Area: 7 Monitoring Site Address: 1033 Carol Drive

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 10 ft

Approximate distance of sound level meter from construction site: 15 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☑ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 9:20 am Measurement End Time: 9:35 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S216

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
$L_{eq\ (h)}$	Slow: 55.2 Fast:
L_{max}	Slow: 66.1 Fast:
L_{90}	Slow: 48.6 Fast:

Field Notes:

1. Background traffic noise along Sunset Blvd.
2. Occasional vehicles in alley way
3.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 9:20am Project Number: 7063

Monitoring Segment / Area: 7 Monitoring Site Address: 1033 Carol Drive

Site Map

Plan View North Arrow (fill-in)	(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.) Refer to S 211
Elevation View	(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

Latitude:	**Longitude:**	**Elevation:**

Noise Monitor's Signature: [signature] Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S216_BLH080004_18122020_085951
Start Time	12/17/2020 9:27:05 AM
Stop Time	12/17/2020 9:42:05 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	55.2 dB	L90	1	48.6 dB
Lmax	1	66.1 dB	Lmin	1	43.9 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

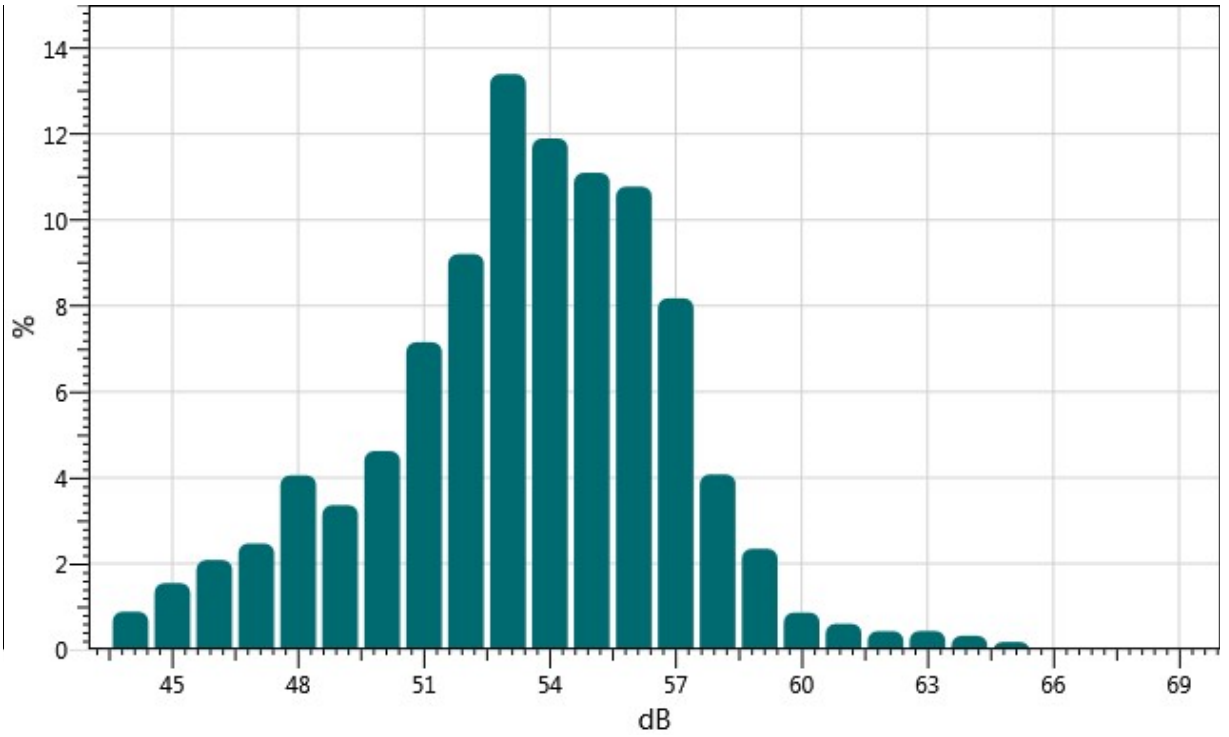
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
43:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.03
44:	0.16	0.10	0.05	0.13	0.09	0.11	0.08	0.05	0.04	0.07	0.88
45:	0.10	0.05	0.13	0.18	0.13	0.10	0.11	0.13	0.25	0.36	1.55
46:	0.20	0.19	0.18	0.18	0.29	0.28	0.19	0.16	0.24	0.18	2.08
47:	0.11	0.16	0.15	0.14	0.18	0.31	0.48	0.31	0.35	0.27	2.47
48:	0.38	0.53	0.24	0.44	0.30	0.35	0.46	0.56	0.44	0.35	4.06
49:	0.34	0.34	0.26	0.34	0.38	0.42	0.31	0.29	0.39	0.31	3.36
50:	0.30	0.31	0.40	0.33	0.33	0.34	0.55	0.80	0.72	0.55	4.62
51:	0.64	0.72	0.50	0.69	0.78	0.87	0.71	0.70	0.71	0.85	7.15
52:	0.99	0.97	0.73	0.82	0.71	1.03	0.95	0.95	0.95	1.10	9.20
53:	1.07	1.53	1.30	1.60	1.45	1.30	1.52	1.31	1.08	1.23	13.39
54:	1.22	1.27	0.93	1.36	1.18	1.16	1.12	1.14	1.28	1.25	11.90
55:	1.26	0.90	1.03	0.92	0.80	1.08	1.27	1.48	1.31	1.05	11.10

56:	0.92	0.86	0.83	0.93	1.07	1.34	1.11	1.15	1.15	1.40	10.77
57:	1.17	1.17	0.69	0.75	0.81	0.92	0.84	0.80	0.59	0.44	8.18
58:	0.42	0.39	0.35	0.43	0.49	0.55	0.41	0.34	0.37	0.31	4.08
59:	0.31	0.36	0.37	0.23	0.20	0.20	0.16	0.17	0.18	0.15	2.35
60:	0.11	0.13	0.06	0.11	0.13	0.11	0.06	0.04	0.05	0.07	0.86
61:	0.05	0.07	0.07	0.06	0.06	0.05	0.06	0.06	0.05	0.06	0.60
62:	0.07	0.05	0.04	0.05	0.01	0.02	0.01	0.02	0.10	0.06	0.43
63:	0.05	0.05	0.07	0.06	0.05	0.04	0.03	0.02	0.03	0.02	0.43
64:	0.02	0.02	0.03	0.02	0.03	0.04	0.06	0.03	0.05	0.02	0.32
65:	0.02	0.03	0.03	0.05	0.02	0.01	0.02	0.00	0.00	0.00	0.18
66:	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Statistics Chart

S216_BLH080004_18122020_085951: Statistics Chart



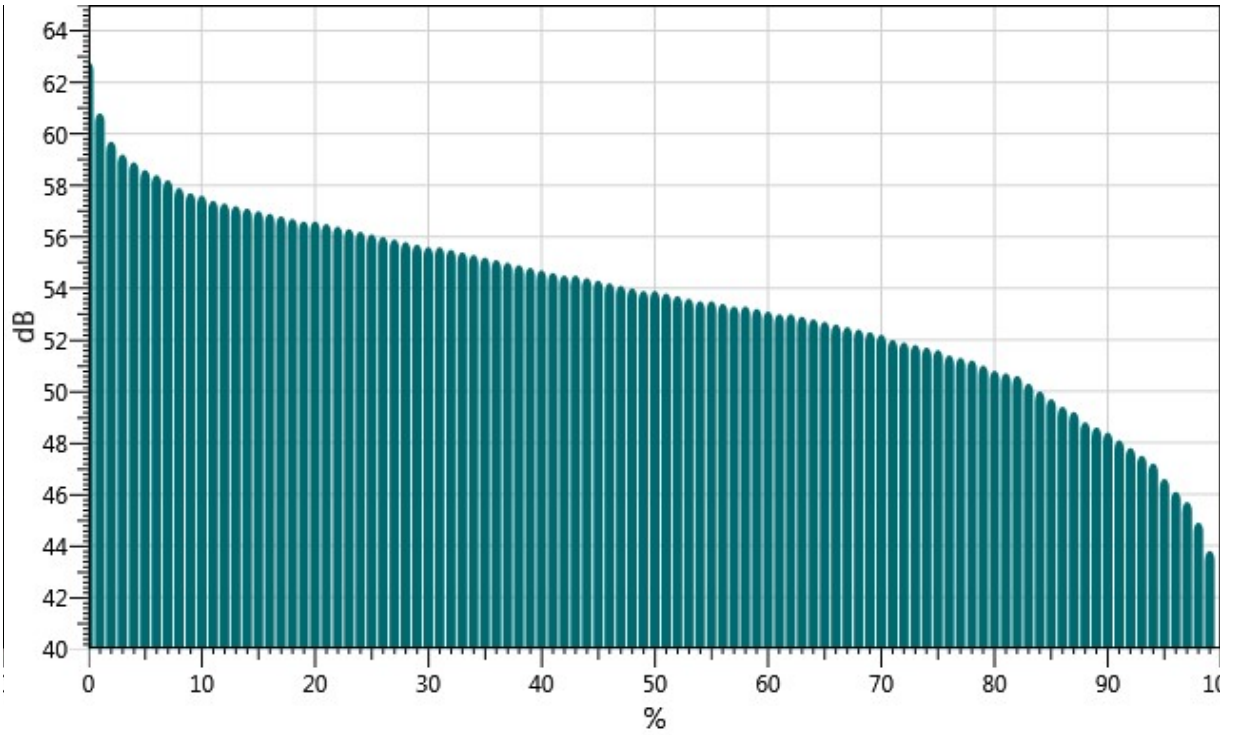
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		62.8	60.8	59.7	59.2	58.9	58.6	58.4	58.2	57.9
10%:	57.7	57.6	57.4	57.3	57.2	57.1	57.0	56.9	56.8	56.7
20%:	56.6	56.6	56.5	56.4	56.3	56.2	56.1	56.0	55.9	55.8
30%:	55.7	55.6	55.6	55.5	55.4	55.3	55.2	55.1	55.0	54.9

40%:	54.8	54.7	54.6	54.5	54.5	54.4	54.3	54.2	54.1	54.0
50%:	53.9	53.9	53.8	53.7	53.6	53.5	53.5	53.4	53.3	53.3
60%:	53.2	53.1	53.0	53.0	52.9	52.8	52.7	52.6	52.5	52.4
70%:	52.3	52.2	52.0	51.9	51.8	51.7	51.6	51.4	51.3	51.2
80%:	51.0	50.8	50.7	50.6	50.3	50.0	49.7	49.4	49.2	48.8
90%:	48.6	48.4	48.1	47.8	47.5	47.2	46.6	46.1	45.7	44.9
100%:	43.8									

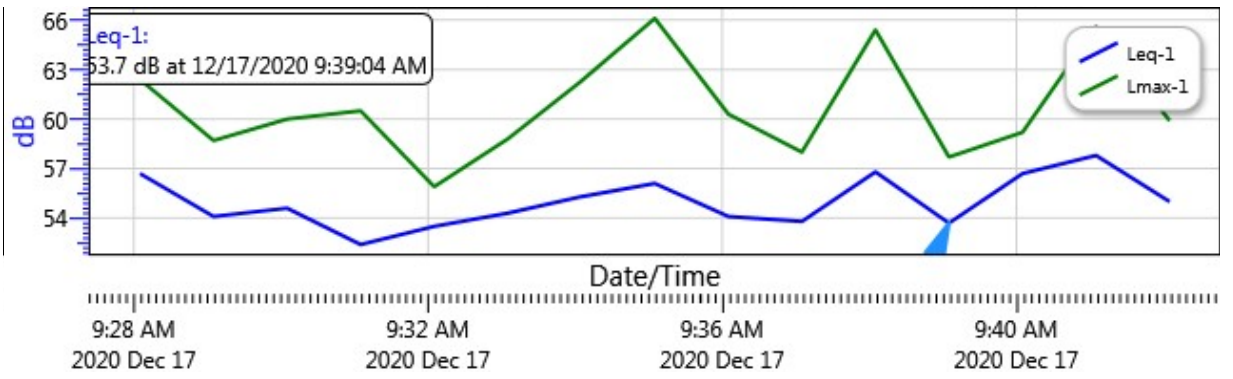
Exceedance Chart

S216_BLH080004_18122020_085951: Exceedance Chart



Logged Data Chart

S216_BLH080004_18122020_085951: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 9:39 am Project Number: 7063

Monitoring Segment / Area: 8 Monitoring Site Address: 9160 Sunset Blvd

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 5 ft

Approximate distance of sound level meter from construction site: 5 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☐ Residential ☐ Institutional ☒ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 9:39 am Measurement End Time: 9:54 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S217

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: ~~114~~ 114 Post:
$L_{eq\ (h)}$	Slow: 69.1 Fast:
L_{max}	Slow: 86.0 Fast:
L_{90}	Slow: 57.0 Fast:

Field Notes:

1. Loud traffic along Sunset Blvd.
2.
3.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 9:39 am Project Number: 7063

Monitoring Segment / Area: 8 Monitoring Site Address: 9160 Sunset Blvd.

Site Map

Plan View North Arrow (fill-in)	(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.) Refer to S 212
Elevation View	(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

Latitude:	**Longitude:**	**Elevation:**

Noise Monitor's Signature: _____ Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S217_BLH080004_18122020_085952
Start Time	12/17/2020 9:45:50 AM
Stop Time	12/17/2020 10:00:50 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	69.1 dB	L90	1	57 dB
Lmax	1	86 dB	Lmin	1	50.4 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

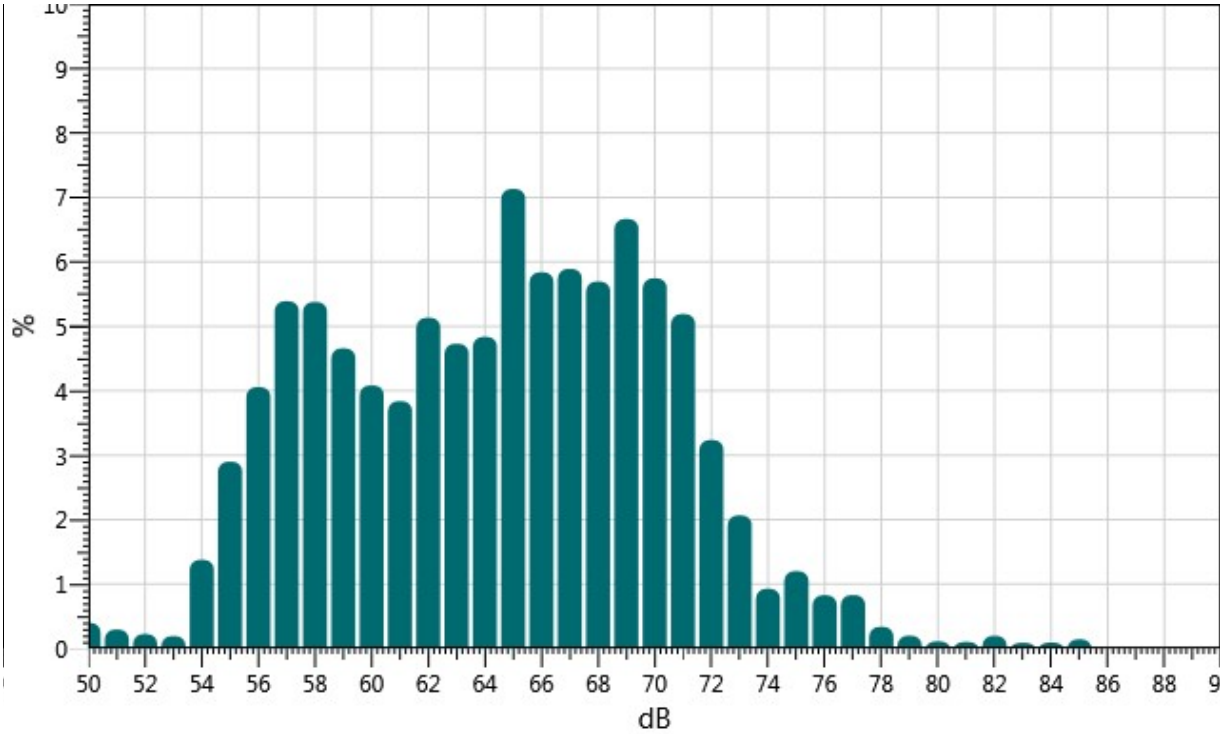
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
50:	0.00	0.00	0.00	0.00	0.02	0.05	0.09	0.14	0.05	0.05	0.40
51:	0.04	0.03	0.01	0.04	0.07	0.03	0.02	0.02	0.02	0.02	0.30
52:	0.02	0.04	0.03	0.03	0.02	0.01	0.02	0.02	0.02	0.02	0.22
53:	0.02	0.03	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.19
54:	0.03	0.04	0.07	0.07	0.05	0.14	0.13	0.15	0.34	0.35	1.38
55:	0.50	0.44	0.29	0.29	0.19	0.24	0.20	0.22	0.26	0.27	2.90
56:	0.23	0.27	0.24	0.30	0.47	0.56	0.51	0.51	0.43	0.55	4.06
57:	0.40	0.61	0.45	0.59	0.49	0.59	0.53	0.59	0.56	0.57	5.39
58:	0.63	0.57	0.61	0.69	0.51	0.36	0.69	0.57	0.42	0.35	5.38
59:	0.32	0.36	0.40	0.41	0.39	0.48	0.51	0.54	0.57	0.67	4.66
60:	0.54	0.39	0.32	0.45	0.33	0.35	0.34	0.44	0.53	0.41	4.08
61:	0.40	0.42	0.47	0.36	0.49	0.40	0.31	0.34	0.31	0.35	3.84
62:	0.34	0.47	0.64	0.62	0.48	0.47	0.43	0.58	0.55	0.54	5.13

63:	0.64	0.62	0.41	0.52	0.48	0.34	0.42	0.42	0.45	0.43	4.73
64:	0.46	0.41	0.57	0.49	0.50	0.42	0.47	0.50	0.54	0.47	4.84
65:	0.44	0.57	0.64	0.85	0.91	0.92	0.76	0.55	0.70	0.80	7.13
66:	0.74	0.83	0.64	0.63	0.54	0.55	0.45	0.45	0.46	0.55	5.84
67:	0.52	0.55	0.68	0.65	0.59	0.67	0.64	0.53	0.57	0.50	5.89
68:	0.52	0.58	0.50	0.51	0.53	0.57	0.60	0.57	0.68	0.66	5.69
69:	0.71	0.80	0.68	0.57	0.63	0.62	0.63	0.72	0.63	0.69	6.66
70:	0.69	0.68	0.66	0.63	0.55	0.47	0.49	0.46	0.62	0.49	5.74
71:	0.54	0.57	0.55	0.61	0.57	0.43	0.43	0.51	0.49	0.49	5.19
72:	0.48	0.50	0.44	0.21	0.33	0.31	0.27	0.24	0.25	0.21	3.24
73:	0.22	0.26	0.30	0.34	0.19	0.20	0.15	0.17	0.14	0.09	2.07
74:	0.11	0.10	0.10	0.09	0.08	0.10	0.08	0.08	0.09	0.09	0.93
75:	0.12	0.13	0.18	0.13	0.20	0.13	0.08	0.08	0.08	0.07	1.20
76:	0.09	0.14	0.08	0.07	0.06	0.08	0.09	0.07	0.08	0.08	0.83
77:	0.06	0.07	0.07	0.08	0.09	0.05	0.07	0.09	0.15	0.09	0.83
78:	0.08	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.02	0.03	0.34
79:	0.03	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.20
80:	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.11
81:	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.10
82:	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.03	0.01	0.20
83:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
84:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
85:	0.01	0.01	0.01	0.01	0.02	0.01	0.02	0.02	0.01	0.02	0.14
86:	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Statistics Chart

S217_BLH080004_18122020_085952: Statistics Chart

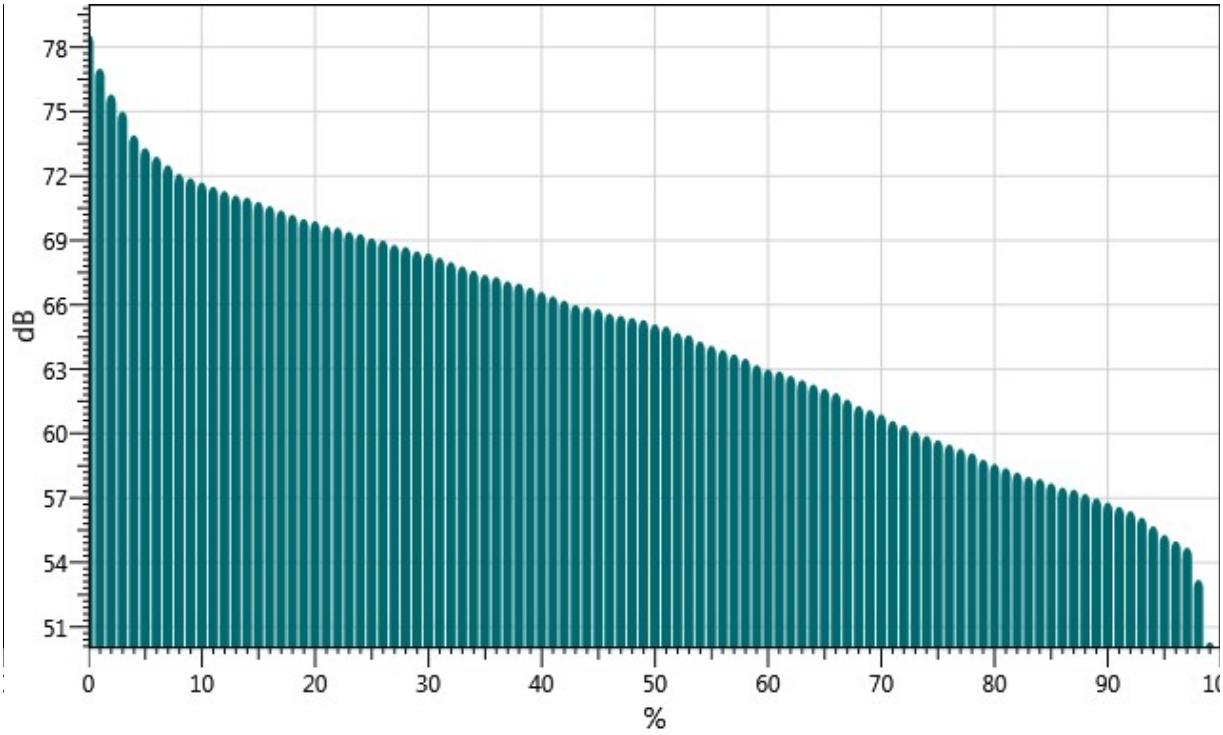


Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		78.6	77.0	75.8	75.0	73.9	73.3	72.9	72.5	72.1
10%:	71.9	71.7	71.5	71.3	71.1	71.0	70.8	70.6	70.4	70.2
20%:	70.0	69.9	69.7	69.6	69.4	69.3	69.1	69.0	68.8	68.7
30%:	68.5	68.4	68.2	68.0	67.8	67.6	67.4	67.3	67.1	67.0
40%:	66.8	66.6	66.4	66.2	66.0	65.9	65.8	65.6	65.5	65.4
50%:	65.3	65.1	65.0	64.7	64.6	64.3	64.1	63.9	63.7	63.5
60%:	63.2	63.0	62.9	62.7	62.5	62.3	62.1	61.9	61.6	61.3
70%:	61.1	60.9	60.6	60.4	60.1	59.9	59.7	59.5	59.3	59.1
80%:	58.8	58.6	58.4	58.2	58.0	57.9	57.7	57.5	57.4	57.2
90%:	57.0	56.8	56.6	56.4	56.1	55.7	55.3	55.0	54.7	53.2
100%:	50.3									

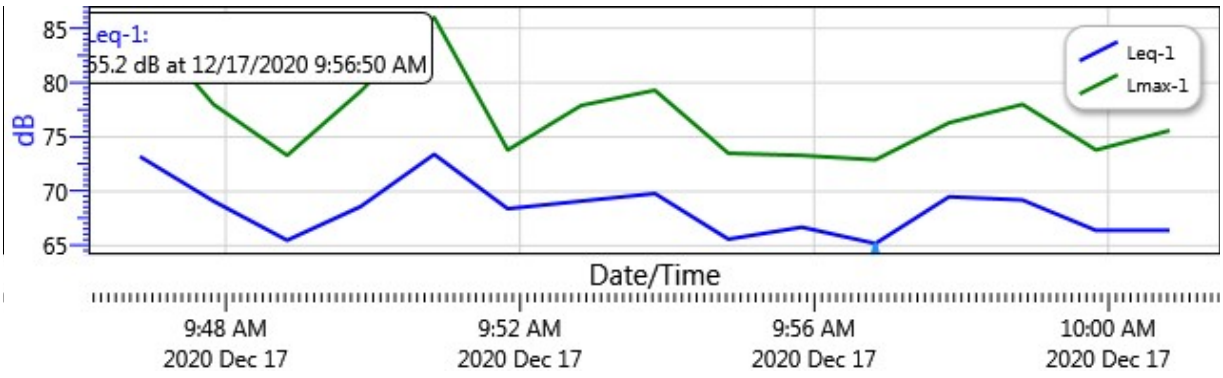
Exceedance Chart

S217_BLH080004_18122020_085952: Exceedance Chart



Logged Data Chart

S217_BLH080004_18122020_085952: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 9:59 am Project Number: 7063

Monitoring Segment / Area: #9 Monitoring Site Address: 1020 Cory Ave

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 10 ft

Approximate distance of sound level meter from construction site: 102 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 9:59 am Measurement End Time: 10:14 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S218

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
$L_{eq\ (h)}$	Slow: 59.1 Fast:
L_{max}	Slow: 72.1 Fast:
L_{90}	Slow: 51.2 Fast:

Field Notes:

1. Occasional traffic along Cory Ave
2. Background traffic along Sunset Blvd
3.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 9:59 am Project Number: 7063

Monitoring Segment / Area: 9 Monitoring Site Address: 1020 Cory Ave.

Site Map

Plan View  North Arrow (fill-in)	(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.) Refer to S213
Elevation View	(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

Latitude:	**Longitude:**	**Elevation:**

Noise Monitor's Signature: [signature] Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S218_BLH080004_18122020_085954
Start Time	12/17/2020 10:05:21 AM
Stop Time	12/17/2020 10:20:21 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	59.1 dB	L90	1	51.2 dB
Lmax	1	72.1 dB	Lmin	1	48.6 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

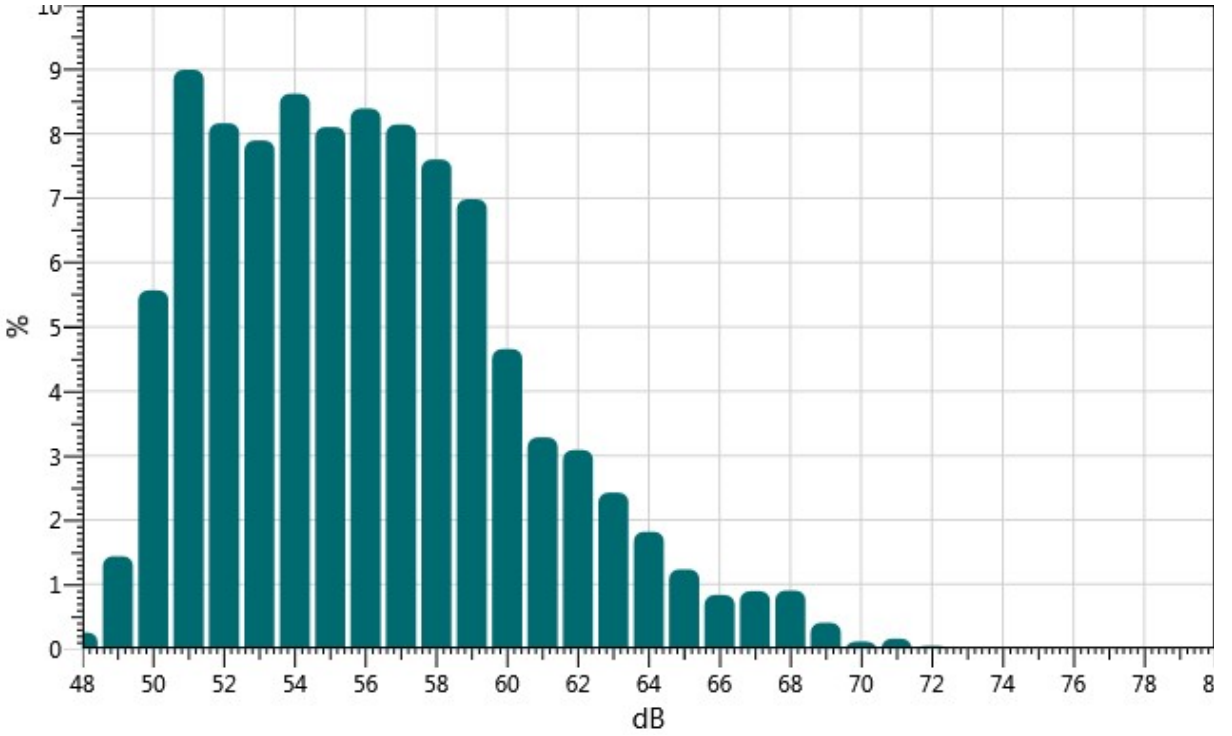
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
48:	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.02	0.08	0.12	0.25
49:	0.11	0.09	0.03	0.03	0.11	0.16	0.13	0.11	0.29	0.37	1.44
50:	0.44	0.52	0.34	0.45	0.65	0.57	0.47	0.76	0.69	0.68	5.57
51:	0.69	0.91	0.60	0.71	0.99	1.39	1.09	0.98	0.79	0.83	9.00
52:	0.79	0.97	0.82	0.73	0.69	0.73	0.72	0.88	0.96	0.86	8.16
53:	0.90	0.77	0.79	0.70	0.93	0.97	0.78	0.70	0.72	0.64	7.90
54:	0.76	0.95	0.53	0.83	0.94	0.95	0.79	0.96	1.06	0.88	8.62
55:	0.93	0.94	1.02	0.66	0.63	0.72	0.72	0.75	0.87	0.86	8.11
56:	1.03	1.10	1.02	0.81	0.67	0.85	0.83	0.63	0.63	0.83	8.39
57:	0.95	0.96	0.61	0.78	0.83	0.72	0.71	0.84	0.94	0.79	8.14
58:	0.75	0.71	0.68	0.65	0.71	0.64	0.76	0.89	0.86	0.94	7.60
59:	0.85	0.77	0.79	0.73	0.71	0.66	0.55	0.62	0.62	0.69	6.98
60:	0.63	0.45	0.29	0.41	0.50	0.47	0.62	0.51	0.40	0.37	4.66

61:	0.38	0.34	0.31	0.32	0.33	0.34	0.28	0.31	0.35	0.31	3.28
62:	0.29	0.28	0.26	0.28	0.32	0.32	0.28	0.33	0.37	0.36	3.09
63:	0.41	0.36	0.23	0.19	0.21	0.27	0.18	0.18	0.18	0.21	2.42
64:	0.20	0.16	0.19	0.21	0.15	0.20	0.16	0.16	0.21	0.17	1.82
65:	0.12	0.13	0.14	0.12	0.10	0.11	0.14	0.16	0.11	0.10	1.23
66:	0.10	0.10	0.06	0.09	0.09	0.07	0.08	0.09	0.06	0.08	0.84
67:	0.08	0.09	0.07	0.08	0.09	0.10	0.10	0.09	0.11	0.09	0.89
68:	0.10	0.11	0.10	0.06	0.11	0.09	0.11	0.10	0.08	0.05	0.90
69:	0.08	0.05	0.05	0.03	0.05	0.06	0.04	0.01	0.01	0.01	0.40
70:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.11
71:	0.01	0.01	0.01	0.02	0.03	0.03	0.01	0.01	0.01	0.01	0.15
72:	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

Statistics Chart

S218_BLH080004_18122020_085954: Statistics Chart



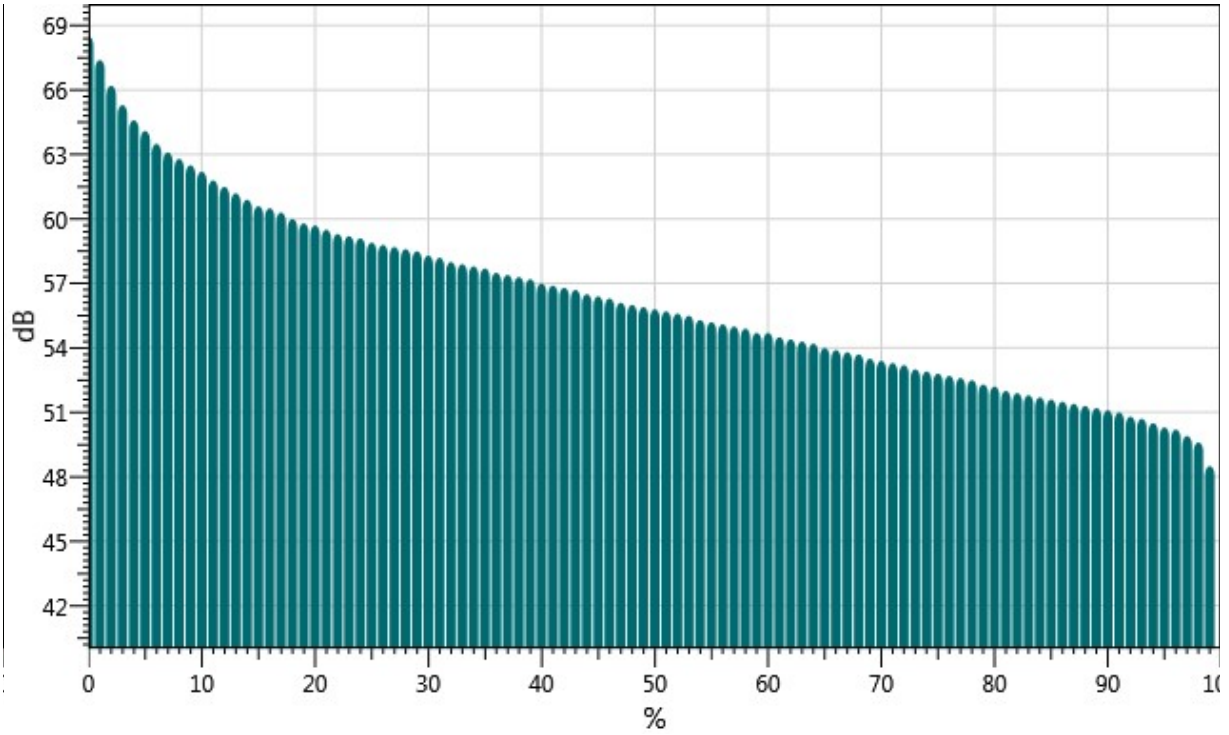
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		68.5	67.4	66.2	65.3	64.6	64.1	63.5	63.1	62.8
10%:	62.5	62.2	61.8	61.5	61.2	60.9	60.6	60.5	60.3	60.0
20%:	59.8	59.7	59.5	59.3	59.2	59.1	58.9	58.8	58.7	58.6

30%:	58.5	58.3	58.2	58.0	57.9	57.8	57.7	57.5	57.4	57.3
40%:	57.2	57.0	56.9	56.8	56.7	56.5	56.4	56.3	56.1	56.0
50%:	55.9	55.8	55.7	55.6	55.5	55.3	55.2	55.1	55.0	54.9
60%:	54.7	54.7	54.5	54.4	54.3	54.2	54.0	53.9	53.8	53.7
70%:	53.5	53.4	53.3	53.2	53.0	52.9	52.8	52.7	52.6	52.5
80%:	52.3	52.2	52.0	51.9	51.8	51.7	51.6	51.5	51.4	51.3
90%:	51.2	51.1	51.0	50.8	50.7	50.5	50.3	50.2	49.9	49.6
100%:	48.5									

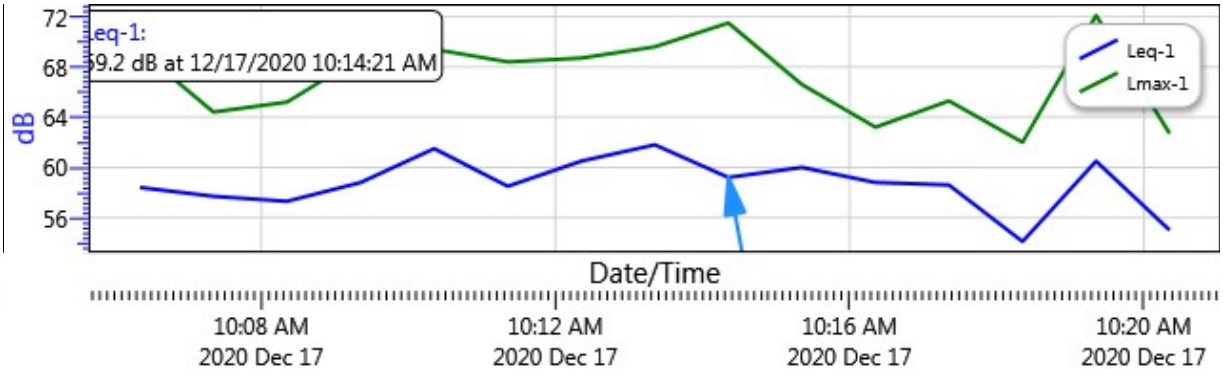
Exceedance Chart

S218_BLH080004_18122020_085954: Exceedance Chart



Logged Data Chart

S218_BLH080004_18122020_085954: Logged Data Chart



UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part A

Date: 12/17/2020 Day of Week: Thursday Time: 10:19 am Project Number: 7063

Monitoring Segment / Area: 10 Monitoring Site Address: 1112 Cory Ave

Measurement Taken By: Victor Paitimusa of UltraSystems Environmental

Approximate Wind Speed: 0 mph [km/hr] Approximate Wind Direction: From the N/A

Approximate distance of sound level meter from receptor location: 10 ft

Approximate distance of sound level meter from construction site: 215 ft
(Leave Blank for Baseline Ambient)

Receptor Land Use (Check One): ☒ Residential ☐ Institutional ☐ Comm./Ind. ☐ Recreational

Sound Level Meter: Make and Model: Quest SoundPro DL-1-1/3 Serial Number: BLH080004

Meter Setting: ☒ A-Weighted Sound Level (SLOW) ☐ A-Weighted Sound Level (FAST)

Measurement Start Time: 10:19 am Measurement End Time: 10:34 am

Total Measurement Time: 15 min Session File Name (e.g., S012): S219

Check the measurement purpose:

☒ Baseline condition ☐ Ongoing construction ☐ Major change ☐ Complaint response

Measurement Results

Measurement Type	Measured Levels (dB)
Calibration	Pre: 114 Post:
$L_{eq\ (h)}$	Slow: 60.1 Fast:
L_{max}	Slow: 82.4 Fast:
L_{90}	Slow: 50.0 Fast:

Field Notes:

1. Occasional traffic along Cory Ave.
2. Background traffic along Sunset Blvd.
3. Background gardening equipment.

Noise Monitor's Signature: [signature] Date: 12/17/2020

UltraSystems
environmental | management | planning

16431 Scientific Way
Irvine, CA 92618
949.788.4900

Noise Measurement Report Form – Part B

Date: 12/17/2020 Day of Week: Thursday Time: 10:19 am Project Number: 7063

Monitoring Segment / Area: 10 Monitoring Site Address: 1112 Cory Ave

Site Map

Plan View North Arrow (fill-in)	(Indicate site location, receptor location, meter location, distance in feet to landmarks, roadways, travel lane directions, geographical objects: trees, water, buildings, signs, store names, hydrants, power & telephone lines, manholes, etc.) Refer to S214
Elevation View	(Indicate terrain, roadway, height and location of receptor, meter, walls, barriers, buildings, etc.)

Latitude:	**Longitude:**	**Elevation:**

Noise Monitor's Signature: _____ Date: 12/17/2020

Session Report

12/18/2020

Information Panel

Name	S219_BLH080004_18122020_085955
Start Time	12/17/2020 10:26:05 AM
Stop Time	12/17/2020 10:41:05 AM
Device Name	BLH080004
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	60.1 dB	L90	1	50 dB
Lmax	1	82.4 dB	Lmin	1	47.1 dB
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	3 dB	Weighting	2	A
Response	2	FAST			

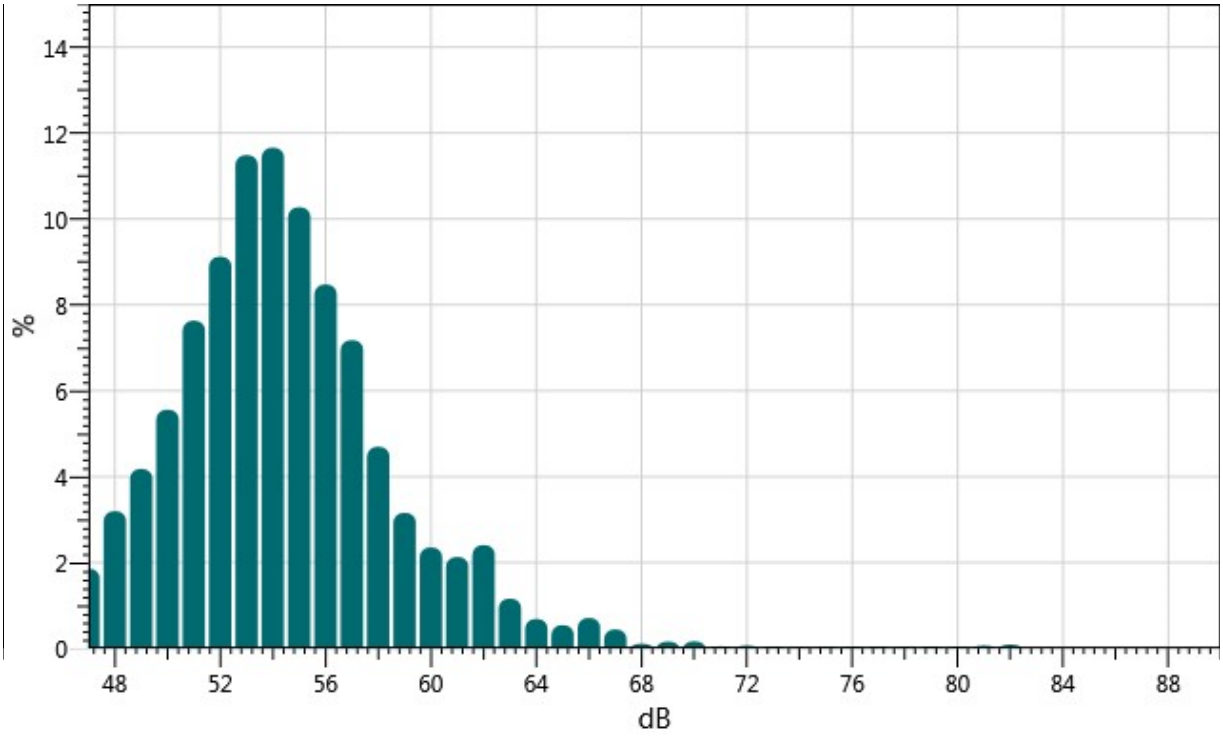
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
47:	0.00	0.08	0.26	0.26	0.26	0.19	0.23	0.18	0.18	0.21	1.86
48:	0.24	0.30	0.11	0.35	0.33	0.41	0.42	0.30	0.40	0.33	3.19
49:	0.37	0.39	0.41	0.38	0.34	0.32	0.39	0.43	0.59	0.57	4.18
50:	0.43	0.48	0.36	0.50	0.58	0.46	0.53	0.55	0.67	0.99	5.56
51:	1.03	0.98	0.49	0.83	0.64	0.68	0.70	0.71	0.73	0.86	7.63
52:	0.71	0.66	0.69	0.92	0.90	0.87	1.02	1.14	1.13	1.07	9.12
53:	1.13	1.00	1.16	1.19	1.25	1.12	1.13	1.09	1.18	1.23	11.48
54:	1.32	1.60	0.89	1.34	1.19	0.99	1.05	1.07	1.01	1.19	11.65
55:	0.97	1.08	1.00	0.99	1.07	1.06	1.00	1.06	0.97	1.08	10.27
56:	0.94	0.93	0.86	0.78	0.80	0.89	0.80	0.80	0.74	0.92	8.47
57:	0.86	0.89	0.54	0.72	0.75	0.95	0.69	0.69	0.60	0.50	7.18
58:	0.49	0.52	0.59	0.56	0.54	0.45	0.35	0.37	0.40	0.44	4.70
59:	0.37	0.35	0.36	0.32	0.27	0.25	0.27	0.31	0.34	0.30	3.16

60:	0.29	0.31	0.19	0.22	0.24	0.24	0.23	0.24	0.20	0.19	2.35
61:	0.20	0.21	0.24	0.23	0.25	0.21	0.19	0.17	0.21	0.23	2.13
62:	0.30	0.25	0.26	0.20	0.20	0.20	0.23	0.29	0.23	0.25	2.41
63:	0.17	0.14	0.12	0.18	0.13	0.11	0.10	0.08	0.06	0.07	1.16
64:	0.10	0.10	0.06	0.06	0.06	0.06	0.06	0.09	0.05	0.04	0.69
65:	0.06	0.04	0.05	0.05	0.05	0.07	0.05	0.05	0.06	0.07	0.54
66:	0.07	0.08	0.05	0.07	0.07	0.09	0.07	0.09	0.06	0.07	0.71
67:	0.06	0.07	0.03	0.04	0.05	0.02	0.02	0.03	0.04	0.07	0.44
68:	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.11
69:	0.02	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.16
70:	0.02	0.03	0.05	0.03	0.01	0.00	0.01	0.01	0.00	0.01	0.17
71:	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.05
72:	0.01	0.01	0.00	0.00	0.00	0.01	0.01	0.01	0.02	0.01	0.07
73:	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.05
74:	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.00	0.01	0.00	0.04
75:	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.05
76:	0.01	0.01	0.00	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.05
77:	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.05
78:	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.05
79:	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.01	0.00	0.01	0.05
80:	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05
81:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.07
82:	0.01	0.01	0.01	0.03	0.04	0.00	0.00	0.00	0.00	0.00	0.09

Statistics Chart

S219_BLH080004_18122020_085955: Statistics Chart

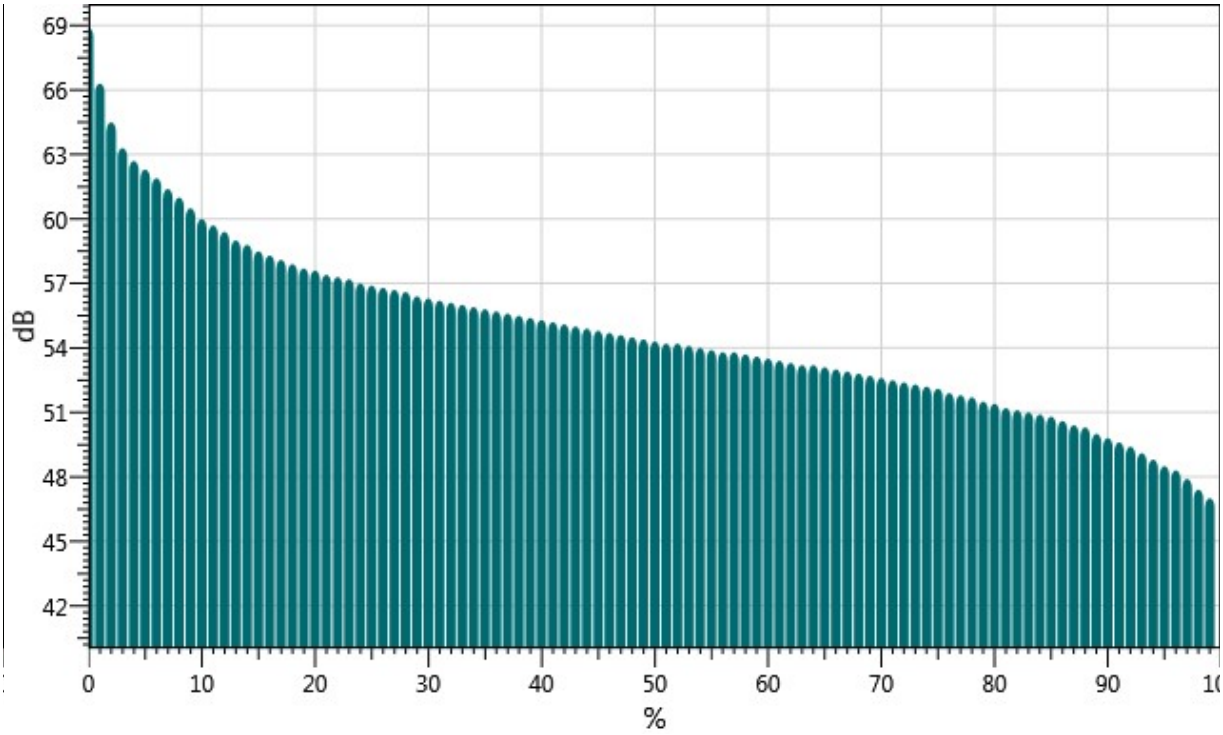


Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		68.9	66.3	64.5	63.3	62.7	62.3	61.9	61.4	61.0
10%:	60.5	60.0	59.7	59.4	59.0	58.8	58.5	58.3	58.1	57.9
20%:	57.7	57.6	57.4	57.3	57.2	57.0	56.9	56.8	56.7	56.6
30%:	56.4	56.3	56.2	56.1	56.0	55.9	55.8	55.7	55.6	55.5
40%:	55.4	55.3	55.2	55.1	55.0	54.9	54.8	54.7	54.6	54.5
50%:	54.4	54.3	54.2	54.2	54.1	54.0	53.9	53.8	53.8	53.7
60%:	53.6	53.5	53.4	53.3	53.2	53.2	53.1	53.0	52.9	52.8
70%:	52.7	52.6	52.5	52.4	52.3	52.2	52.1	51.9	51.8	51.7
80%:	51.5	51.4	51.2	51.1	51.0	50.9	50.8	50.6	50.4	50.3
90%:	50.0	49.8	49.6	49.4	49.1	48.8	48.5	48.3	47.9	47.4
100%:	47.0									

Exceedance Chart

S219_BLH080004_18122020_085955: Exceedance Chart



Logged Data Chart

S219_BLH080004_18122020_085955: Logged Data Chart