KPC EHS Consultants, LLC

Technical Memorandum

To: EPC Environmental, Inc.   Ernest Perea

From: Kevin P. Carr, MS., KPC EHS Consultants

Date: February 14, 2023

Re: Rancho 38 Industrial Development Project – Noise Assessment

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1.0 Purpose

The purpose of this memorandum is to document the impacts of construction, mobile, and operational noise and vibration as it relates to the potential environmental impacts associated with the construction and operation of the proposed warehouse project on 39.24 acres.

2.0 Project Location & Description

2.1   Project Location: The proposed project site is located in the City of Adelanto, San Bernardino, California on the south side of Rancho Road, on the southwest corner of the intersection of Rancho Road and Emerald Road, and is referred to as APN: 3128-291-02.

2.2   Description: The Applicant is proposing to develop a 686,400 square foot (sf) warehouse/distribution facility consisting of 646,400 sf warehouse (549,440 sf non-refrigerated warehouse and 96,960 sf cold storage warehouse), 40,000 sf office space/mezzanine, automobile parking spaces, and trailer stalls on an approximately 39.24 acre vacant parcel.

3.0 Noise Impacts

3.1   Ambient Noise: The primary sources for existing ambient noise in the Project area is from traffic and industrial uses. Traffic generated noise is from adjacent Adelanto and Rancho Roads, and Highway 395 which is approximately 1 mile to the west. The Southern California Logistics Airport is located approximately 1.4 miles north. Industrial uses surrounding the Project area are listed in Table 3.1 below with approximate distance(s) to the site.

Table 3.1 Occupied Structures / Receptors

Business	Location	Distance
Northwest Pipe Company	West across Aguadera Road	Occupied Structures approximately 600 feet from west boundary.
Western States Wholesale Building Materials	North across Rancho Rd.	Occupied Structures approximately 85 feet from north boundary.
Holiday Rock	Northwest across Rancho Rd	Occupied Structures approximately 190 feet from northwest boundary

3.1.1 Existing Ambient Noise Level Measurements: To assess the existing noise level environment short-term noise measurements were obtained from 6 locations in the Project study area. Exhibit 3-A Noise Monitoring Map, provides the locations of the noise level measurements. Table 3.1.1 Ambient Noise Level Measurements provides the noise measurements.

Exhibit 3-A and Table 3.1.1 on next page

Exhibit 3-A Noise Monitoring Map

Exhibit 3-A Noise Monitoring Map
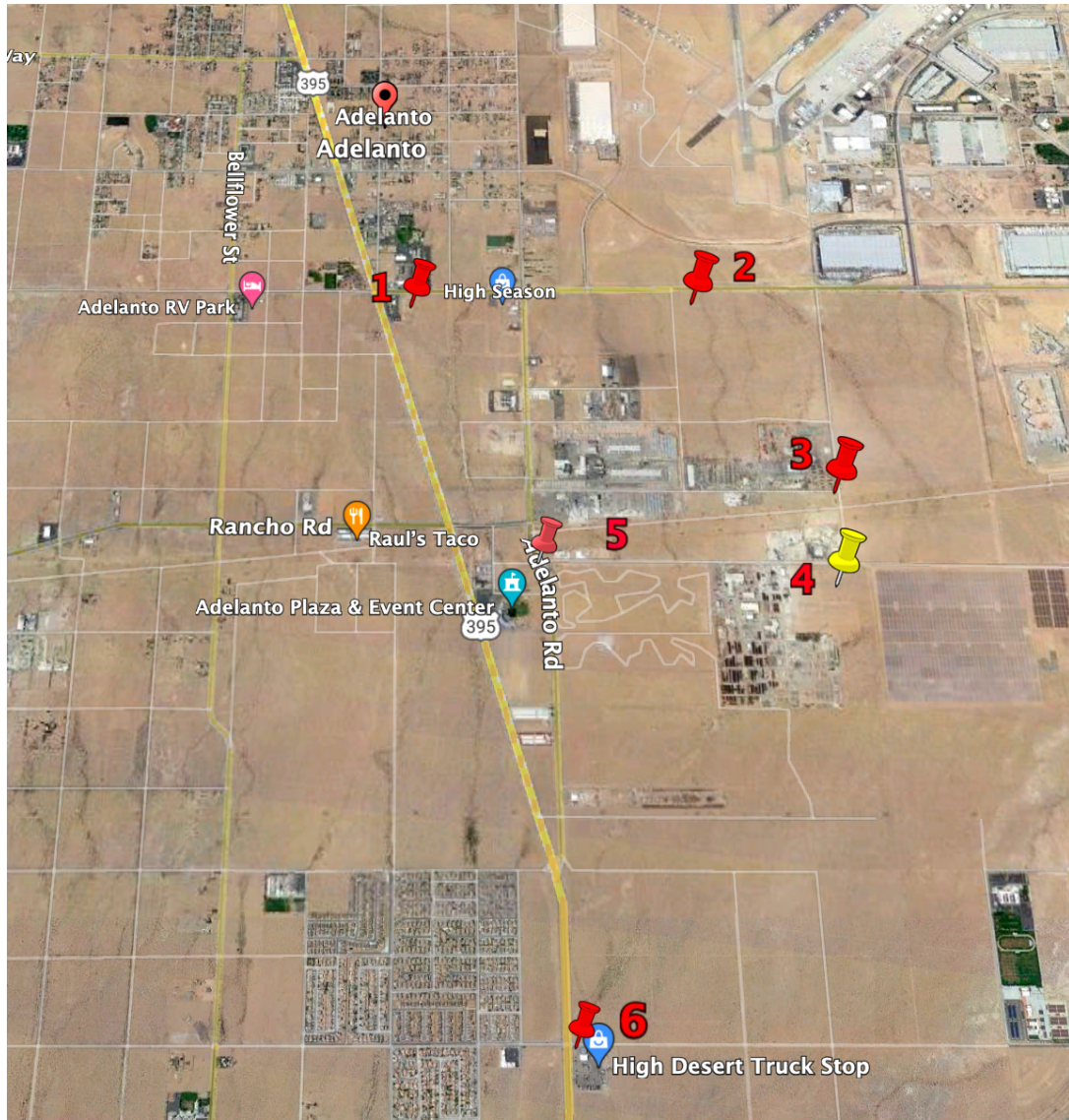
Table 3.1.1 Ambient Noise Level Measurements

Location	Distance to Project Boundary	Description	Average Noise Level dBA (Leq)	CNEL
#1		Air Expressway & 395	56.2	
#2		Air Expressway & Mesa Linda	53.8	
#3		Violet Road & Emerald Road	50.7	
#4		Project Site	48.7	
#5		Old Rancho Road & Adelanto Road	57.3	64.0
#6		395 and Mojave	57.0	

3.1.2 Sensitive Receptors (Noise Sensitive Land Uses): Noise-sensitive land uses are locations where people reside or where the presence of unwanted sound could adversely affect the use of the land. Residences, schools, hospitals, guest lodging, libraries, churches, nursing homes, auditoriums, concert halls, amphitheaters, playgrounds and parks are considered noise sensitive. The nearest sensitive receptor to the Project site is the Adelanto Medical Clinic located at 11678 Rancho Road, approximately located 8,239 feet or 1.56 miles northwest of the property western boundary.

The Bureau of Transportation Statistics provides the National Transportation Noise Map as a basis for understanding what-if scenarios and helping policy makers and planners to prioritize noise-related transportation investments.[1] The data on the noise map allows for viewing the potential exposure to aviation, highway, and rail noise. The current data for the Adelanto Area is from the 2016 – 2018 noise map and is presented in Exhibit 3-B. The Noise Map contours are representative of the measured ambient noise measurements as presented in Table 3.1.1.

Exhibit 3-B National Transportation Noise Map: Adelanto Area
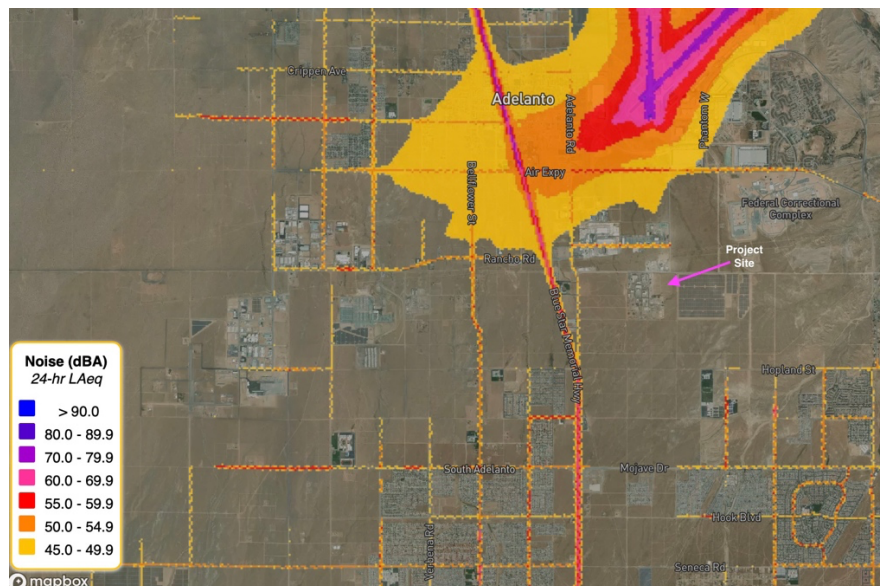
3.2   Construction Noise: Construction activities that would create noise include: site preparation, grading, building construction, paving, and architectural coating. Noise levels associated with the construction will vary with the different types of construction equipment, the duration of the activity, and distance from the source. Construction noise will have a temporary or periodic increase in the ambient noise level above the existing levels within the Project vicinity. The nearest sensitive receptor to the Project site is the Adelanto Medical

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[1] Bureau of Transportation Statistics, National Transportation Noise Map: https://www.bts.gov/geospatial/national-transportation-noise-map accessed February 11, 2023.

Clinic, located 8,239 feet or 1.56 miles northwest of the property western boundary. The closest commercial structure to the project site is the Western States Wholesale Building Materials Store to the north approximately 85 feet from the north boundary across Rancho Road. To estimate the potential impact of construction noise at the nearest sensitive receptor, the Adelanto Medical Clinic, as well as nearby commercial and industrial land uses (current and future), equipment that is expected to be used during construction was input into the Federal Highway Administration Roadway Construction Noise Model (RCNM) to generate anticipated noise levels. The RCNM generates the maximum noise levels (Lmax) and the equivalent continuous sound level (Leq). The Leq is a calculation of the anticipated steady sound pressure level which, over a given time period (day, evening, night) has the same total energy as the actual fluctuating noise. The RCNM also uses an acoustical use factor in the noise calculations. The acoustical use factor is the percentage of time each piece of construction equipment is assumed to be operating at the full power level and is used to estimate the Leq values from the Lmax values. For example, typical operating cycles for these types of construction equipment may involve one or two minutes of full power operation followed by three to four minutes at lower power settings. Noise levels will be loudest during the site preparation and grading phases. Table 3.2, Construction Equipment Noise Levels at the Nearest Receptor, identifies the level of noise generated by construction equipment.

Table 3.2 on next page

Table 3.2 Construction Equipment Noise Levels at the Nearest Sensitive Receptor (Adelanto Medical Center)

Source	Approximate Distance to Nearest Receptor [1] (Property Line to Construction Site) (feet)	Sound Level at Nearest Receptor		
		Lmax	Acoustical Use Factor (%)	Leq
Backhoe	8,239	33.2	40	29.2
Compactor (ground)	8,239	38.9	20	31.9
Compressor (air)	8,239	33.3	40	29.4
Crane	8,239	36.2	16	28.3
Concrete Mixer Truck	8,239	34.5	40	30.5
Dozer	8,239	37.3	40	33.4
Dump Truck	8,239	32.1	40	28.1
Excavator	8,239	36.4	40	32.4
Front End Loader	8,239	34.8	40	30.8
Generator	8,239	36.3	50	33.3
Grader	8,239	40.7	40	36.7
Offroad Forklift	8,239	39.1	40	35.1
Paver	8,239	32.9	50	29.9
Pickup Truck	8,239	30.7	40	26.7
Roller	8,239	35.7	20	28.7
Scraper	8,239	39.2	40	35.3
Welder / Torch	8,239	29.7	40	25.7

Source: FHWA – RCNM Version 1.1

Table 3.3 on next page

Table 3.3 Construction Equipment Noise Levels at the Nearest Sensitive Receptor
(Western States Wholesale Building Materials)

Source	Approximate Distance to Nearest Receptor [1] (Property Line to Construction Site) (feet)	Sound Level at Nearest Receptor		
		Lmax	Acoustical Use Factor (%)	Leq
Backhoe	85	73.0	40	69.0
Compactor (ground)	85	78.6	20	71.6
Compressor (air)	85	73.1	40	69.1
Crane	85	75.9	16	68.0
Concrete Mixer Truck	85	74.2	40	70.2
Dozer	85	77.1	40	73.1
Dump Truck	85	71.8	40	67.9
Excavator	85	76.1	40	72.1
Front End Loader	85	74.5	40	70.5
Generator	85	76.0	50	73.0
Grader	85	80.4	40	76.4
Offroad Forklift	85	78.8	40	74.8
Paver	85	72.6	50	69.6
Pickup Truck	85	70.3	40	66.3
Roller	85	75.4	20	68.4
Scraper	85	79.0	40	75.0
Welder / Torch	85	69.4	40	65.4

The properties immediately adjacent and surrounding the Project site are industrial uses or vacant undeveloped parcels (zoned Industrial), additionally, the nearest sensitive receptors are located over 1 mile away and the Project would be compatible with surrounding land uses and would not adversely impact sensitive receptors.

The City of Adelanto has set restrictions to control noise impacts from construction activities. Section 17.90.020(d)(1) of the Adelanto Municipal Code restricts construction activities between the hours of 7:00 AM to dusk on weekdays, and construction will not occur on weekends or state holidays.

Noise generation related to construction activities is addressed in §17.90.020(d) of the Zoning Ordinance which requires construction projects to list general noise reduction practices as "General Notes" on the construction drawings as part of the Project's conditions of approval (COA). These mandatory conditions are described as follows:

17.90.020 (d)   Construction Practices

To reduce potential noise and air quality nuisances, the following items shall be listed as "General Notes" on the construction drawings:

(1)   Construction activity and equipment maintenance is limited to the hours between 7:00 a.m. to dusk on weekdays. Construction may not occur on weekends or State holidays, without prior consent of the Building Official. Non-noise generating activities (e.g., interior painting) are not subject to these restrictions. City and State construction projects, such as road re-building or resurfacing, and any construction activity that is in response to an emergency, shall be exempt from this requirement.

(2)   Stationary construction equipment that generates noise in excess of sixty-five (65) dBA at the project boundaries must be acoustically shielded and located at least one hundred feet (100') from occupied residences. The equipment area with appropriate acoustic shielding shall be designated on building and grading plans. Equipment and shielding shall remain in the designated location throughout construction activities.

(3)   Construction routes are limited to City of Adelanto designated truck routes.

(4)   Water trucks or sprinkler systems shall be used during clearing, grading, earth moving, excavation, or transportation of cut or fill materials to prevent dust from leaving the site and to create a crust after each day's activities cease. At a minimum, this would include wetting down such areas in the later morning and after work is completed for the day and whenever wind exceeds fifteen (15) miles per hour.

(5)   A person or persons shall be designated to monitor the dust control program and to order increased watering as necessary to prevent transport of dust off-site. The name and telephone number of such person(s) shall be provided to the City.

(6)   All grading equipment shall be kept in good working order per factory specifications.

With implementation of the above standard conditions of approval, construction noise impacts would be less than significant.

While the City establishes limits to the hours during which construction activity may take place, it does not identify specific noise level limits for construction noise levels. Therefore, to evaluate whether the Project will generate a substantial increase in the short-term noise levels at the offsite sensitive receptors (residences), the construction-related noise level threshold is based on the National Institute for Occupational Safety and Health (NIOSH) recommended exposure limit (REL) for occupation noise exposure at 85 dBA, as an 8-hour time-weighted average (85 dBA – 8-hr TWA). Using the equipment from the Air Quality GHG Technical Memorandum CalEEMod data for the Site Preparation and Grading Phases, each piece of equipment operating at the same time in the same location for a full 8-hour period was calculated with results provided in Table 3.3, Worse Case Construction Noise Levels (Site Preparation & Grading).

Table 3.4 Worse Case Construction Noise Levels (Site Preparation & Grading)

Phase	Equipment Type	Number of Units	Leq dBA/unit	Leq dBA Total
Site Preparation	Tractor/Loader/Backhoe	4	39.2	
Site Preparation	Rubber Tired Dozer	3	39.6	
Site Preparation	**Total Noise Level**			**42.4**
Grading	Grader	1	36.7	
Grading	Tractor/Loader/Backhoe	2	36.2	
Grading	Rubber Tired Dozer	1	30.8	
Grading	Excavator	2	35.4	
Grading	Scrapers	2	38.3	
Grading	**Total Noise Level**			**43.1**

The highest equipment noise level at the nearest sensitive receptor as indicated in Table 3.2 will be at 40.7 dBA (Lmax) and 36.7 dBA (LEQ). During the construction phase the noise levels will be the highest as heavy equipment pass along the Project site boundaries. During the site preparation and grading phases, which produce the highest noise levels, equipment will not be stationary, rather equipment will be moving throughout the site at varying speeds and power levels and as a result not operating at the maximum noise level for the entire workday.

The levels of noise at the nearest sensitive receptor as indicated in Table 3.2, 3.3, and 3.4 are all below the NIOSH REL of 85 dBA 8-hour TWA and would be less than significant. Construction noise is of short-term duration and will not present any long-term impacts on the project site or the surrounding area.

Additionally, the highest noise levels at the Western States Wholesale Building Materials Sales office, the closest occupied structure to the site, will be 80.4 dBA Max and 76.4 dBA Leq and construction noise will be less than significant.

3.3   Operational Noise:

3.3.1 Offsite Traffic Noise Impacts.

Vehicle noise is a combination of the noises produced by the engine, exhaust, and tires. The primary source of noise generated by the Project will be from the vehicle traffic generated by the vehicle ingress and egress to the Project site. Under existing conditions, the site does not generate any traffic noise that impacts the surrounding area.

According to the Federal Highway Administration, *Highway Traffic Noise Analysis and Abatement Policy and Guidance,* the level of roadway traffic noise depends on three things: (1) the volume of the traffic, (2) the speed of the traffic, and (3) the number of trucks in the flow of the traffic. Generally, the loudness of traffic noise is increased by heavier traffic volumes, higher speeds, and greater numbers of trucks. These factors are discussed below.

- *The Volume of the Traffic*
  Upon buildout, the proposed Project is expected to generate approximately 1,126 average daily vehicle trips, from both passenger cars and trucks, of which 231 (20.5 %) will be from

trucks. The morning and afternoon peak hour truck traffic is calculated to be 25 ADT and 27 ADT respectively, which will increase the ambient traffic noise levels in the vicinity of the Project site in comparison to the existing site conditions (industrial and vacant land).

The current average daily vehicle trips along Adelanto Drive north of Air Expressway is approximately 1,180 average daily vehicle trips (ADT), assuming all the Project traffic 761 ADT take Adelanto Drive, the results would not be a doubling of traffic volume. Additionally, noise analysis performed as part of the Southern California Logistics Airport Lot 44 Distribution Center indicate that noise levels along Adelanto Drive around Air Expressway have been calculated at 51 dBA CNEL 100 feet from the roadway centerline.

According to Caltrans, the human ear is able to begin to detect sound level increases of 3 decibels (dB) in typical noisy environments.[2] A doubling of sound energy (e.g., doubling the volume of traffic on a highway) that would result in a 3-dBA increase in sound, would generally be barely detectable. Implementation of the Project will increase traffic volumes in the area occurring along Inland Center Drive and Hillcrest Avenue but not to the extent that traffic volumes will be doubled creating a +3dBA noise increase or result in a perceivable noise increase. Therefore, operational noise impacts would be less than significant.

- *The Speed of Traffic*

Adelanto Road is a 4 lane road classified as a Major Boulevard and has a speed limit of 45 mph. Rancho Road is generally a 2-lane road classified as a Major Arterial Highway and has a speed limit of 45 mph between Emerald and Adelanto Roads. These low levels of speeds do not result in vehicles generating high levels of noise.

- *The Number of Trucks in the Flow of the Traffic*

The Project is a warehouse development in an industrial area and although it will generate noise from large trucks, the site is located in an industrial area with similar truck and traffic uses. The total number of daily trips from both passenger cars and trucks is calculated to be 761 ADT, of which 157 (20.43 %) will be from trucks. The morning and afternoon peak hour truck traffic is calculated to be 13 ADT and 12 ADT respectively.

Truck traffic will also be required to use the City's designated truck routes which include Adelanto Road and Highway 395 for North/South traffic, and Rancho Road, Holly Road, and Air Expressway for East/West traffic. The use of the truck routes will also decrease the impacts on sensitive receptors such as residential uses.

3.3.2   Facility Operations (Stationary Noise).

At the time this noise analysis was prepared, the future tenants of the proposed Project were unknown. The on-site Project-related noise sources are expected to include roof-top heating ventilation and air conditioning units (HVAC), refrigeration units, idling trucks, truck activities, backup alarms, as well as loading and unloading of dry goods, and parking lot vehicle movements.

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[2] Caltrans, Traffic Noise Analysis Protocol, April 2020, p.7-1.

This noise analysis is intended to describe noise level impacts associated with the expected typical operational (stationary source) activities at the Project site.

Table 3.4 Reference Noise Level Measurements

Noise Source	Reference Distance (feet)	Reference Noise Level (dBA)	Distance to Receptor (feet)	Noise Level (dBA)
Rooftop HVAC [1]	1 '	88	100 '	48.0
Truck Loading Dock Activity [2]	50 '	63.6	840 '	39.1
Truck Backup Alarm [2]	50 '	75.0	840 '	50.5
Parking Lot Activity [2]	25 '	54.4	100 '	42.4

[1] Reference Level Lennox 10-ton air handler unit (AHU) manufacturer specifications.

[2] Reference Level collected at Amazon Fulfillment Center ONT-6 (24208 San Michele Rd., Moreno Valley)

The proposed warehouse structure would include dock doors for truck loading and unloading. To determine the noise level impacts of the Project short-term reference noise level measurements were collect at the Amazon Fulfillment Center located at 24208 San Michele Road in the City of Moreno Valley. The noise measurements represent a typical weekday warehouse loading/unloading operation on a large single building distribution center, approximately 1.2 million square feet with 200 trailer parking spaces and 90 docks. Operations during the noise measurements included multiple trucks being loaded/unloaded, forklift and truck/trailer movement.

The loading/unloading operations noise measurements were taken over a 15 – minute period taken from an area approximately at the center of the docking stations at 50' feet from the building. The reference noise measurement obtained was 63.6 dBA L_{eq} and calculated attenuation for 840- foot distance at 39.1 dBA L_{eq}. The 840-foot distance is the closest distance from the west loading dock side of the structure to the closest occupied building on the adjacent Northwest Pipe Company property. No attenuation for shielding from buildings or walls was calculated as no detailed information on boundary walls/fencing.

Trucks at the Project site would utilize backup alarms during the loading/unloading activities, which according to ECCO, the first manufacturer of backup alarms, depending on the model, typically produce a noise level of 87 to 112 dBA at 1 feet[3] and at 840 feet with no sound barriers (walls or buildings) the noise level would be between 28.5 to 53.5 dBA. Reference noise level measurements taken at 50 feet during truck movement and backup alarm operation were measured at 75 dBA max which would result in a 50.5 dBA noise level at 840 feet with no perimeter walls or buildings as shielding.

Parking lot areas for passenger vehicles and trailer parking were estimated to be located on the west and east sides of the proposed structure. Traffic associated with parking lots is typically not

[3] ECCO Backup alarm manufacturer resources:
https://www.eccoesg.com/us/en/SearchResults?searchText=backup+alarm+noise+levels accessed February 11, 2023.

at a sufficient level to exceed the community noise standards. The total parking spaces estimated for the Project are less than 500 stalls, the reference noise levels were taken at a parking lot that can accommodate approximately 1,000 stalls. The Project's parking lots are substantially smaller and no significant noise impacts offsite from the parking lot use would be anticipated.

The USEPA identifies noise levels affecting health and welfare as exposure levels over 70 dBA over a 24-hour period. Noise levels for various levels are identified according to the use of the area. Levels of 45 dBA are associated with indoor residential areas, hospitals, and schools, whereas 55 dBA is identified for outdoor areas where typical residential human activity takes place. According to the USEPA levels of 55 dBA outdoors and 45 dBA indoors are identified as levels of noise considered to permit spoken conversation and other activities such as sleeping, working, and recreation, which are part of the daily human condition.[4] Levels exceeding 55 dBA in a residential setting are normally short in duration and not significant in affecting health and welfare of residents. As the Project site is located in an industrialized area that is zoned and planned for future industrial development, the nearest exiting sensitive receptor is over 1 mile away and the nearest potential future sensitive receptors would be in the Mixed-Use zoned properties approximately 4,770 feet (0.9 miles) to the west and no significant noise impacts are expected at that distance.

3.4 Vibration

During construction the operation and movement of heavy equipment create seismic waves that radiate along the ground-surface in all directions. These waves are felt as ground vibrations. Vibrations from construction can result in effects ranging from annoyance to people to structure damage. Vibration levels are impacted by geology, distance, and frequencies. According to the Federal Transit Administration, *Transit Noise and Vibration Impact Assessment Manual*, September 2018[37], while ground vibrations from construction activities do not often reach the levels that can damage structures, construction vibration may result in building damage or prolonged annoyance from activities such as blasting, piledriving, vibratory compaction, demolition, and drilling or excavation near sensitive structures. The Project does not require these types of construction activities.

Vibration amplitude and impact decreases with distance and perceptible ground-borne vibration is generally limited to areas within one to two hundred feet of the construction activity.

The vibration standard used for the City is that no ground vibration shall be allowed that can be felt without the aid of instruments at or beyond the subject property line, nor will any vibration be permitted that produces a particle velocity greater than or equal to two-tenths of an inch per second measured at or beyond the lot line.

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[4] USEPA "EPA Identifies Noise Levels Affecting Health and Welfare" https://archive.epa.gov/epa/aboutepa/epa-identifies-noise-levels-affecting-health-and-welfare.html accessed February 7, 2023.

[37] https://www.transit.dot.gov/research-innovation/transit-noise-and-vibration-impact-assessment-manual-report-0123.

Table 3.6 Vibration Source Levels for Construction Equipment

Equipment	PPV (in/sec) at 25 feet
Small bulldozer	0.003
Jackhammer	0.035
Loaded Trucks	0.076
Large bulldozer	0.089

Source: Federal Transit Administration, Transit Noise and Vibration Impact Assessment, September 2018.

The closest sensitive receptor to the Project property line is minimally 8,239 feet from the property line. The estimated construction vibration level from a large bulldozer (worst case scenario) measured at 15-feet would create a vibration level of 0.191 in/sec which does not exceed the 0.2 in/sec threshold. Therefore, the vibrations at the nearest sensitive receptor will remain well below the strongly perceptible annoyance criteria and potential residential vibration damage criteria thresholds listed in the City of Adelanto Municipal Code Section 17.90.030 (vibration). This threshold requires that no vibration greater than 0.2 PPV be felt at or beyond the lot line. The proposed Project therefore is not considered to result in exposure of people to excessive ground vibration.

During operations of the Project following construction the primary source of vibration would be from vehicle traffic, primarily truck traffic. Truck vibration levels are dependent on vehicle characteristics, load, speed, and pavement conditions. Typical vibration levels from heavy truck activity at normal traffic speeds are in the order of 0.004 in/sec PPV at 25 feet based on the FTA's Transit Noise Impact and Vibration Assessment (2018). Trucks once on site will be travelling at very low speeds and it is expected that truck vibration impacts off site would not exceed the 0.2 in/sec PPV threshold.

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

4.0 Conclusion

Based on the assessment in Section 3.0 through compliance with mandatory City requirements and ordinances to reduce noise during construction, the Project's construction noise impacts will not result in the generation of a substantial temporary or permanent increase in ambient noise levels in the vicinity of the project. In addition, the Project's construction and operations vibration impacts as well as operational noise for mobile and operational noise impacts to the environment are less than significant.

APPENDIX – A
Noise Measurements

RANCHO 38 #1

Information Panel

Start Time	11/29/2022 2:33:27 PM
Stop Time	11/29/2022 2:48:27 PM
Device Name	BIJ050019
Model Type	SoundPro DL
Device Firmware Rev	R.13H

Statistics Chart
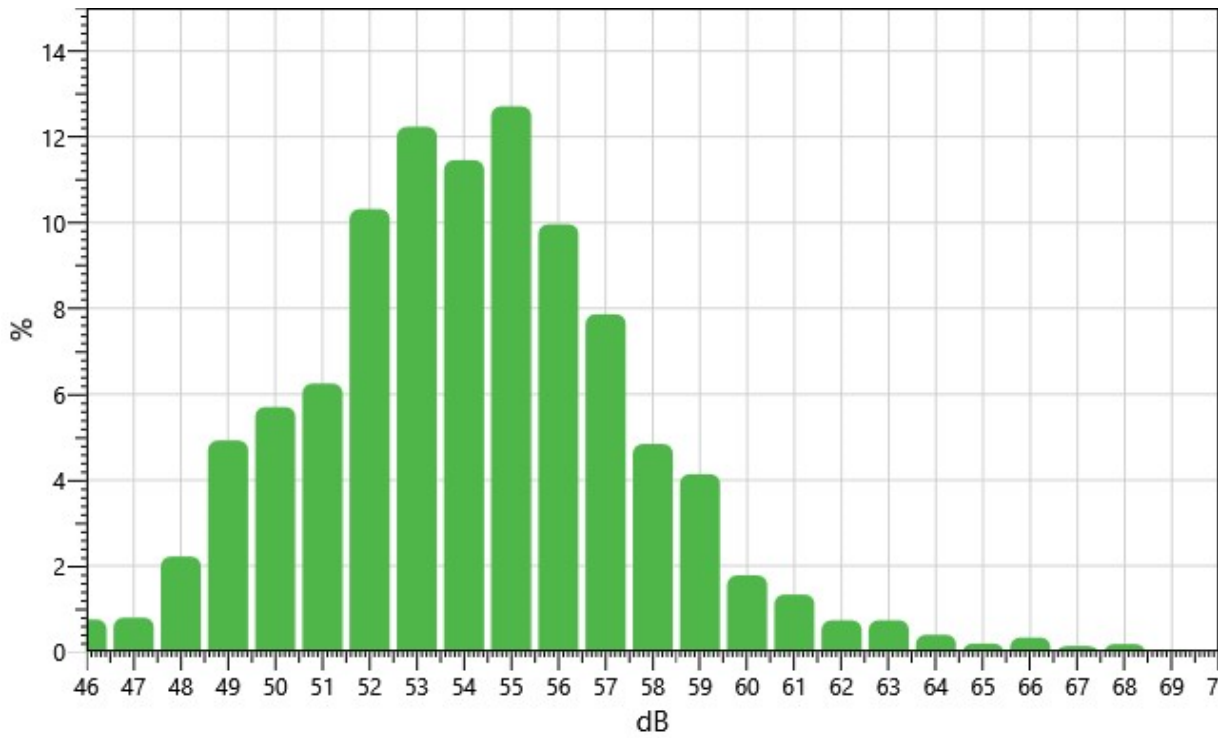
Statistics Table

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	0.04	0.05	0.10	0.13	0.13	0.08	0.11	0.11	0.75
47:	0.03	0.02	0.02	0.03	0.03	0.07	0.22	0.15	0.09	0.14	0.80
48:	0.29	0.37	0.10	0.11	0.10	0.14	0.19	0.46	0.29	0.17	2.22
49:	0.28	0.38	0.59	0.49	0.48	0.38	0.44	0.57	0.61	0.73	4.92
50:	0.81	0.45	0.66	0.52	0.39	0.46	0.46	0.56	0.62	0.75	5.70
51:	0.54	0.50	0.27	0.39	0.40	0.64	0.73	0.66	0.97	1.16	6.25

52:	1.30	0.84	0.84	1.00	1.07	1.15	0.87	0.94	1.19	1.11	10.32
53:	1.18	1.02	1.12	1.34	1.28	1.21	1.31	1.43	1.31	1.04	12.23
54:	1.17	1.36	0.90	1.34	1.22	1.03	0.90	1.01	1.27	1.26	11.46
55:	1.29	1.08	1.21	1.09	1.15	1.35	1.47	1.17	1.40	1.50	12.71
56:	1.16	1.07	0.99	1.10	1.02	1.03	0.88	0.92	0.85	0.93	9.96
57:	1.08	0.85	0.53	1.03	0.80	0.75	0.90	0.72	0.64	0.56	7.86
58:	0.50	0.52	0.52	0.50	0.49	0.41	0.39	0.44	0.45	0.62	4.84
59:	0.58	0.47	0.43	0.48	0.37	0.43	0.55	0.36	0.24	0.24	4.14
60:	0.20	0.22	0.16	0.19	0.18	0.15	0.22	0.14	0.13	0.18	1.78
61:	0.11	0.09	0.14	0.21	0.16	0.09	0.11	0.20	0.10	0.11	1.33
62:	0.09	0.06	0.06	0.07	0.07	0.07	0.10	0.07	0.09	0.05	0.73
63:	0.05	0.07	0.04	0.06	0.06	0.10	0.11	0.10	0.06	0.07	0.73
64:	0.09	0.06	0.08	0.05	0.05	0.01	0.01	0.01	0.01	0.02	0.39
65:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.03	0.03	0.19
66:	0.05	0.03	0.02	0.03	0.03	0.05	0.06	0.02	0.02	0.02	0.33
67:	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.13
68:	0.01	0.01	0.01	0.02	0.02	0.02	0.03	0.02	0.02	0.03	0.18
69:	0.03	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05

Exceedance Chart
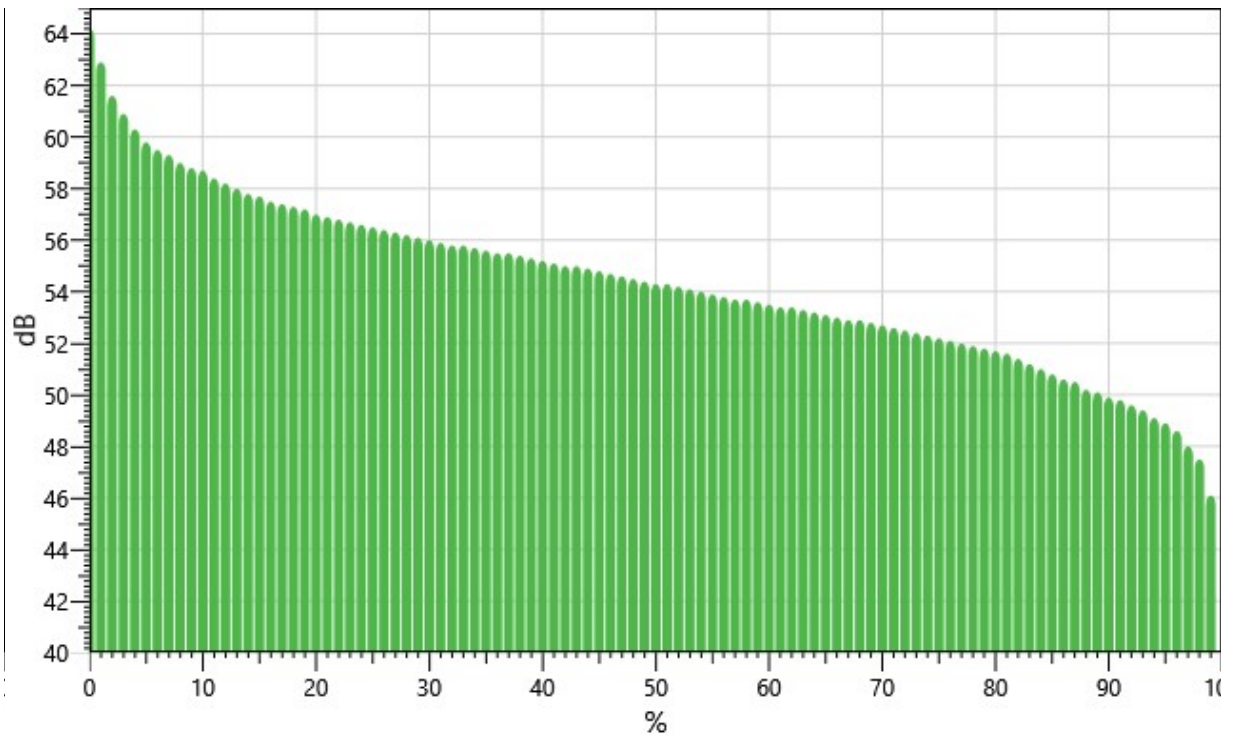
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		64.2	62.9	61.6	60.9	60.3	59.8	59.5	59.3	59.0
10%:	58.8	58.7	58.4	58.2	58.0	57.8	57.7	57.5	57.4	57.3
20%:	57.2	57.0	56.9	56.8	56.7	56.6	56.5	56.4	56.3	56.2
30%:	56.1	56.0	55.9	55.8	55.8	55.7	55.6	55.5	55.5	55.4
40%:	55.3	55.2	55.1	55.0	55.0	54.9	54.8	54.7	54.6	54.5
50%:	54.4	54.3	54.3	54.2	54.1	54.0	53.9	53.8	53.7	53.7
60%:	53.6	53.5	53.4	53.4	53.3	53.2	53.1	53.0	52.9	52.9
70%:	52.8	52.7	52.6	52.5	52.4	52.3	52.2	52.1	52.0	51.9
80%:	51.8	51.7	51.6	51.4	51.2	51.0	50.8	50.6	50.5	50.2
90%:	50.1	49.9	49.8	49.6	49.4	49.1	48.9	48.6	48.0	47.5
100%:	46.1									

Logged Data Chart
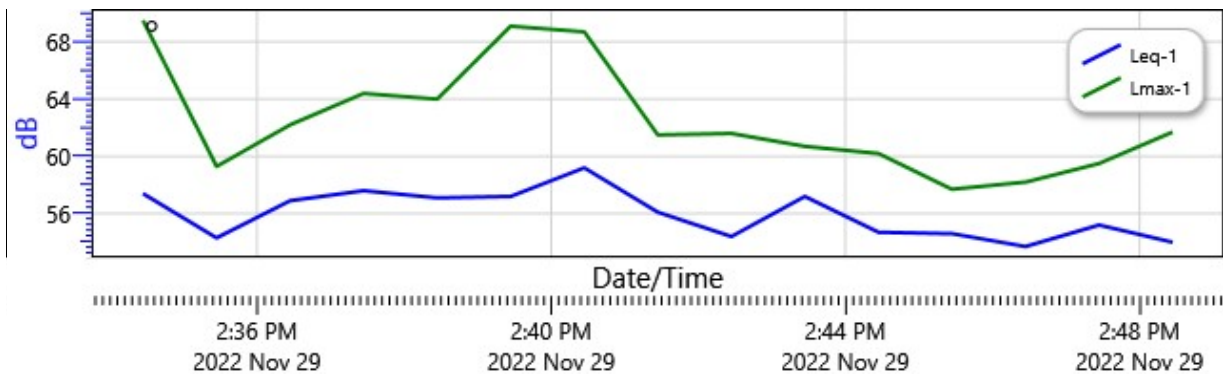
Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	56.2 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	FAST			

RANCHO 38 #2

Information Panel

Start Time	11/29/2022 2:55:53 PM
Stop Time	11/29/2022 3:10:53 PM
Device Name	BIJ050019
Model Type	SoundPro DL
Device Firmware Rev	R.13H

Statistics Chart
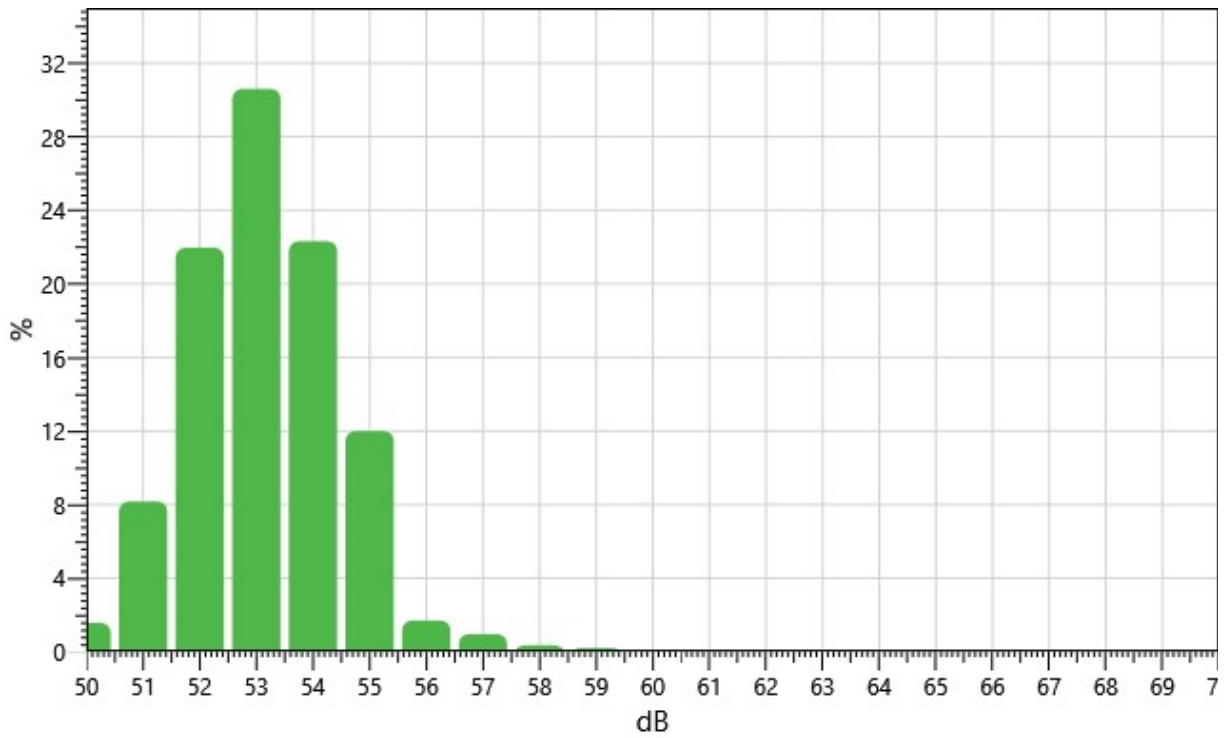
Statistics Table

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	0.18	0.31	0.26	0.19	0.18	0.19	0.25	1.56
51:	0.46	0.39	0.34	0.82	0.60	0.78	0.91	0.99	1.08	1.80	8.17
52:	1.86	2.14	1.87	1.63	1.44	1.58	1.99	2.62	3.17	3.65	21.97
53:	3.14	3.05	3.69	3.14	2.50	3.11	2.79	2.84	3.13	3.23	30.61
54:	3.02	3.02	2.10	2.31	1.77	1.79	1.99	2.14	2.14	2.05	22.32
55:	2.00	2.18	1.68	1.04	1.03	0.95	0.86	0.82	0.73	0.70	11.99

56:	0.46	0.26	0.27	0.22	0.06	0.06	0.08	0.06	0.09	0.14	1.69
57:	0.03	0.08	0.08	0.07	0.11	0.21	0.15	0.07	0.05	0.10	0.95
58:	0.06	0.04	0.03	0.02	0.03	0.01	0.01	0.03	0.07	0.05	0.35
59:	0.03	0.05	0.05	0.04	0.02	0.00	0.00	0.00	0.00	0.00	0.20
60:	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04
61:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
62:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03
63:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
64:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
65:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
66:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Exceedance Chart
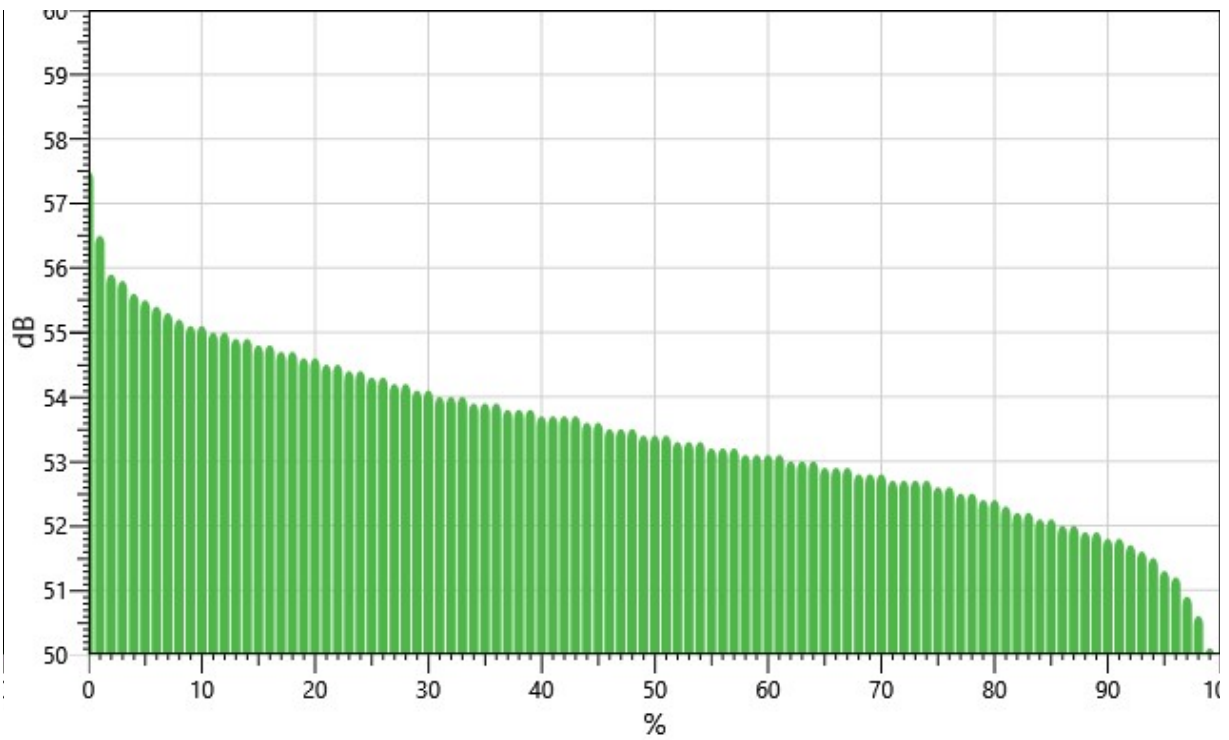
Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		57.5	56.5	55.9	55.8	55.6	55.5	55.4	55.3	55.2
10%:	55.1	55.1	55.0	55.0	54.9	54.9	54.8	54.8	54.7	54.7
20%:	54.6	54.6	54.5	54.5	54.4	54.4	54.3	54.3	54.2	54.2
30%:	54.1	54.1	54.0	54.0	54.0	53.9	53.9	53.9	53.8	53.8

40%:	53.8	53.7	53.7	53.7	53.7	53.6	53.6	53.5	53.5	53.5
50%:	53.4	53.4	53.4	53.3	53.3	53.3	53.2	53.2	53.2	53.1
60%:	53.1	53.1	53.1	53.0	53.0	53.0	52.9	52.9	52.9	52.8
70%:	52.8	52.8	52.7	52.7	52.7	52.7	52.6	52.6	52.5	52.5
80%:	52.4	52.4	52.3	52.2	52.2	52.1	52.1	52.0	52.0	51.9
90%:	51.9	51.8	51.8	51.7	51.6	51.5	51.3	51.2	50.9	50.6
100%:	50.1									

Logged Data Chart
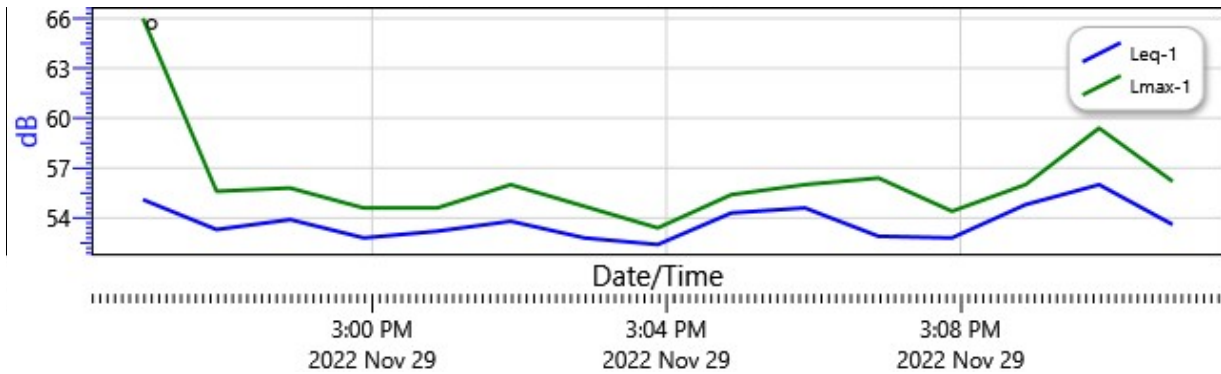
Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	53.8 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	FAST			

RANCHO 38 #3

Information Panel

Start Time	11/29/2022 3:21:16 PM
Stop Time	11/29/2022 3:36:16 PM
Device Name	BIJ050019
Model Type	SoundPro DL
Device Firmware Rev	R.13H

Statistics Chart
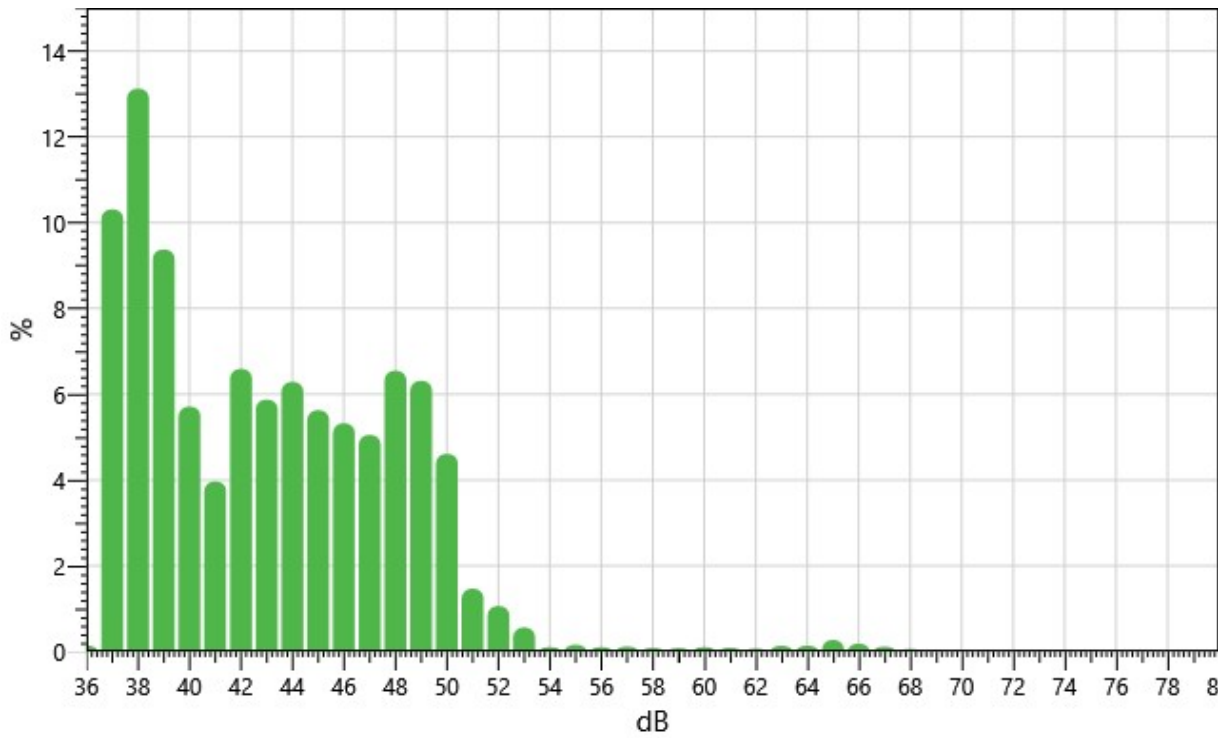
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
36:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.10	0.14
37:	0.21	0.33	0.47	0.77	0.65	0.78	1.44	1.87	2.07	1.73	10.31
38:	1.98	1.84	1.42	1.12	1.25	0.98	0.92	1.19	1.05	1.38	13.12
39:	1.14	0.89	1.26	1.07	0.87	1.03	0.75	0.80	0.77	0.81	9.38
40:	0.82	0.86	0.86	0.64	0.62	0.44	0.46	0.33	0.33	0.35	5.71
41:	0.35	0.34	0.35	0.29	0.23	0.42	0.40	0.40	0.61	0.58	3.97

42:	1.07	0.61	0.72	0.75	0.57	0.61	0.59	0.46	0.54	0.67	6.59
43:	0.59	0.67	0.70	0.68	0.53	0.49	0.52	0.51	0.53	0.66	5.87
44:	0.54	0.61	0.67	0.69	0.56	0.61	0.70	0.52	0.59	0.79	6.29
45:	0.83	0.53	0.39	0.37	0.47	0.52	0.59	0.64	0.70	0.58	5.63
46:	0.46	0.65	0.63	0.51	0.57	0.49	0.41	0.48	0.50	0.62	5.32
47:	0.55	0.45	0.34	0.39	0.51	0.44	0.46	0.55	0.62	0.74	5.05
48:	0.75	0.78	0.41	0.73	0.92	0.78	0.51	0.59	0.53	0.56	6.55
49:	0.50	0.49	0.55	0.50	0.60	0.76	0.79	0.70	0.70	0.71	6.31
50:	0.53	0.59	0.49	0.48	0.51	0.73	0.54	0.28	0.24	0.21	4.61
51:	0.20	0.26	0.08	0.09	0.22	0.23	0.12	0.08	0.10	0.10	1.47
52:	0.12	0.07	0.07	0.09	0.09	0.11	0.11	0.15	0.18	0.08	1.06
53:	0.04	0.09	0.13	0.16	0.08	0.02	0.01	0.01	0.01	0.01	0.56
54:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.11
55:	0.01	0.01	0.01	0.01	0.01	0.03	0.02	0.03	0.02	0.02	0.16
56:	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.11
57:	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.01	0.12
58:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
59:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
60:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.01	0.11
61:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.09
62:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.07
63:	0.01	0.01	0.00	0.01	0.01	0.02	0.03	0.02	0.01	0.02	0.14
64:	0.01	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.01	0.01	0.14
65:	0.03	0.03	0.02	0.03	0.03	0.03	0.03	0.04	0.03	0.02	0.27
66:	0.03	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.19
67:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.12
68:	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06
69:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
70:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
71:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
72:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
73:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
74:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
75:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
76:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Exceedance Chart

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		63.7	54.4	52.6	51.5	50.9	50.5	50.4	50.2	50.0
10%:	49.8	49.7	49.5	49.4	49.3	49.1	48.9	48.7	48.5	48.4
20%:	48.2	48.1	47.9	47.8	47.6	47.4	47.2	47.0	46.8	46.6
30%:	46.4	46.2	46.0	45.9	45.7	45.5	45.4	45.1	44.9	44.8
40%:	44.7	44.5	44.3	44.2	44.0	43.8	43.7	43.5	43.3	43.1
50%:	43.0	42.8	42.6	42.5	42.3	42.1	42.0	41.9	41.7	41.5
60%:	41.3	40.9	40.7	40.4	40.2	40.1	40.0	39.9	39.7	39.6
70%:	39.5	39.4	39.3	39.2	39.1	39.0	38.9	38.8	38.7	38.6
80%:	38.6	38.4	38.3	38.3	38.2	38.1	38.0	38.0	37.9	37.9
90%:	37.8	37.8	37.7	37.7	37.6	37.6	37.5	37.4	37.3	37.1
100%:	36.7									

Logged Data Chart

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	50.7 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	FAST			

RANCHO 38 #4

Information Panel

Start Time	11/29/2022 3:43:20 PM
Stop Time	11/29/2022 3:58:20 PM
Device Name	BIJ050019
Model Type	SoundPro DL
Device Firmware Rev	R.13H

Statistics Chart
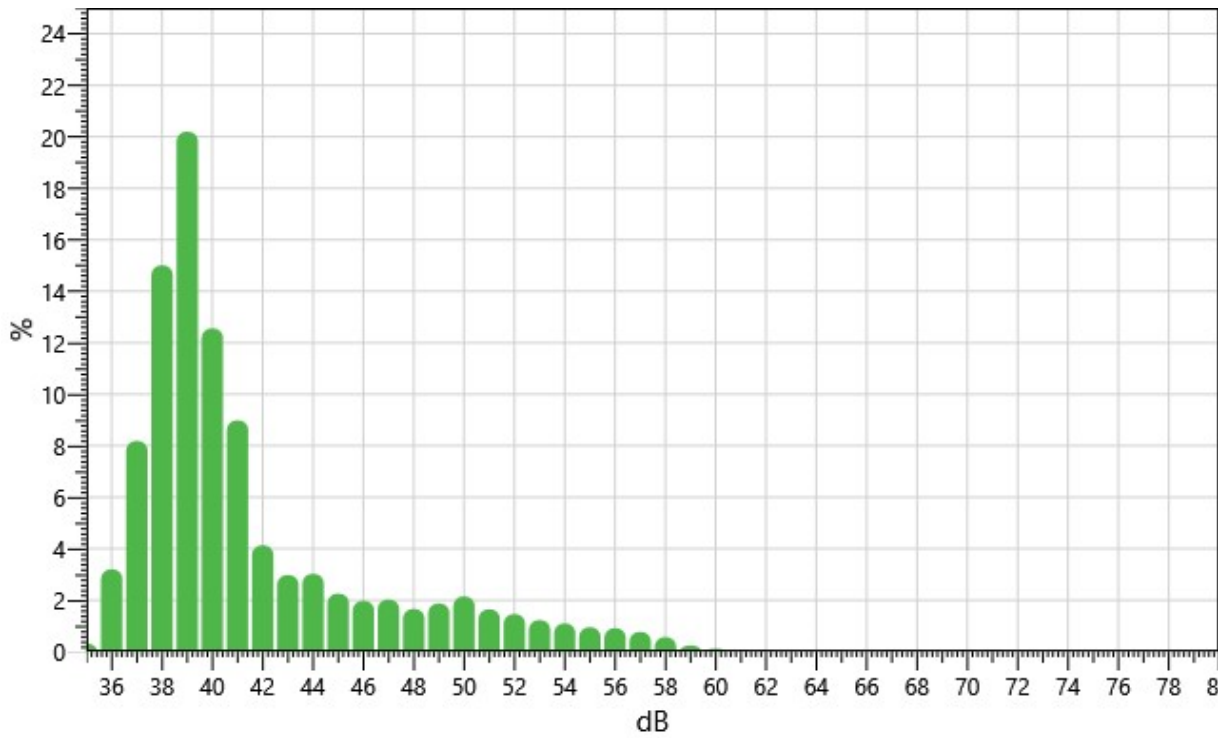
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
35:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.20	0.31
36:	0.14	0.08	0.11	0.14	0.54	0.38	0.35	0.48	0.52	0.47	3.20
37:	0.65	1.01	0.88	0.86	0.75	0.66	0.77	0.70	0.80	1.11	8.19
38:	1.25	1.01	0.99	1.26	1.15	1.29	1.44	2.03	2.15	2.45	15.01
39:	2.89	2.03	2.80	2.16	2.10	2.12	1.72	1.48	1.46	1.44	20.20
40:	1.30	1.44	1.63	1.49	1.29	1.24	1.22	1.16	0.96	0.84	12.56

41:	0.86	0.94	0.93	1.07	1.12	1.06	0.76	0.79	0.74	0.74	8.99
42:	0.79	0.48	0.46	0.39	0.39	0.36	0.30	0.30	0.34	0.32	4.13
43:	0.29	0.33	0.40	0.34	0.27	0.27	0.27	0.23	0.25	0.31	2.98
44:	0.28	0.30	0.27	0.27	0.42	0.30	0.30	0.29	0.31	0.30	3.03
45:	0.28	0.26	0.20	0.23	0.23	0.22	0.24	0.18	0.19	0.24	2.26
46:	0.22	0.21	0.20	0.24	0.22	0.20	0.17	0.17	0.17	0.17	1.97
47:	0.14	0.14	0.14	0.15	0.16	0.20	0.27	0.30	0.33	0.19	2.03
48:	0.20	0.20	0.14	0.22	0.20	0.14	0.15	0.14	0.13	0.15	1.66
49:	0.14	0.16	0.15	0.15	0.17	0.17	0.22	0.24	0.24	0.24	1.88
50:	0.23	0.22	0.21	0.23	0.19	0.22	0.19	0.20	0.25	0.20	2.15
51:	0.20	0.23	0.12	0.18	0.18	0.16	0.13	0.15	0.14	0.15	1.65
52:	0.14	0.13	0.14	0.13	0.13	0.17	0.15	0.17	0.14	0.15	1.46
53:	0.12	0.11	0.10	0.13	0.11	0.12	0.14	0.12	0.14	0.14	1.23
54:	0.14	0.11	0.08	0.10	0.14	0.14	0.11	0.10	0.09	0.09	1.10
55:	0.09	0.09	0.10	0.11	0.13	0.09	0.09	0.08	0.10	0.08	0.95
56:	0.11	0.09	0.10	0.08	0.10	0.09	0.07	0.08	0.08	0.12	0.91
57:	0.08	0.12	0.08	0.11	0.09	0.06	0.07	0.07	0.06	0.04	0.77
58:	0.08	0.07	0.07	0.05	0.07	0.05	0.05	0.05	0.05	0.02	0.56
59:	0.03	0.03	0.04	0.03	0.02	0.01	0.02	0.02	0.02	0.02	0.24
60:	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.01	0.12
61:	0.01	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.05
62:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.05
63:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
64:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.03
65:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
66:	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.01	0.04
67:	0.01	0.01	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.01	0.06
68:	0.00	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.04
69:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
70:	0.01	0.00	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.00	0.06
71:	0.01	0.01	0.00	0.01	0.01	0.01	0.01	0.00	0.01	0.00	0.06

Exceedance Chart

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		58.5	57.0	55.9	54.9	53.9	53.2	52.4	51.7	51.1
10%:	50.6	50.1	49.7	49.2	48.5	47.9	47.5	47.0	46.4	45.9
20%:	45.5	45.0	44.7	44.3	44.0	43.7	43.3	43.0	42.7	42.4
30%:	42.1	41.9	41.8	41.7	41.5	41.4	41.3	41.2	41.1	41.0
40%:	40.9	40.8	40.7	40.6	40.5	40.4	40.3	40.3	40.2	40.1
50%:	40.1	40.0	39.9	39.9	39.8	39.7	39.6	39.6	39.5	39.5
60%:	39.4	39.4	39.3	39.3	39.2	39.2	39.1	39.1	39.1	39.0
70%:	39.0	38.9	38.9	38.9	38.8	38.8	38.7	38.7	38.6	38.6
80%:	38.5	38.5	38.4	38.3	38.2	38.2	38.1	38.0	37.9	37.8
90%:	37.7	37.5	37.4	37.3	37.1	37.0	36.9	36.7	36.5	36.3
100%:	35.7									

Logged Data Chart
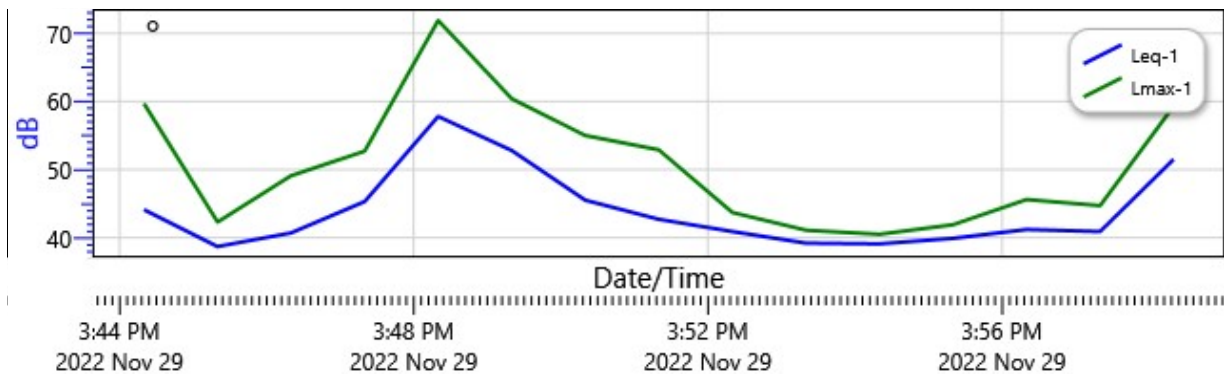
Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	48.7 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	FAST			

Rancho 38 #5

Information Panel

Name	S010_BIJ050019_22062022_215743
Start Time	6/21/2022 11:58:10 AM
Stop Time	6/21/2022 12:13:10 PM
Device Name	BIJ050019
Model Type	SoundPro DL
Device Firmware Rev	R.13H
Comments	

Statistics Chart

S010_BIJ050019_22062022_215743: Statistics Chart
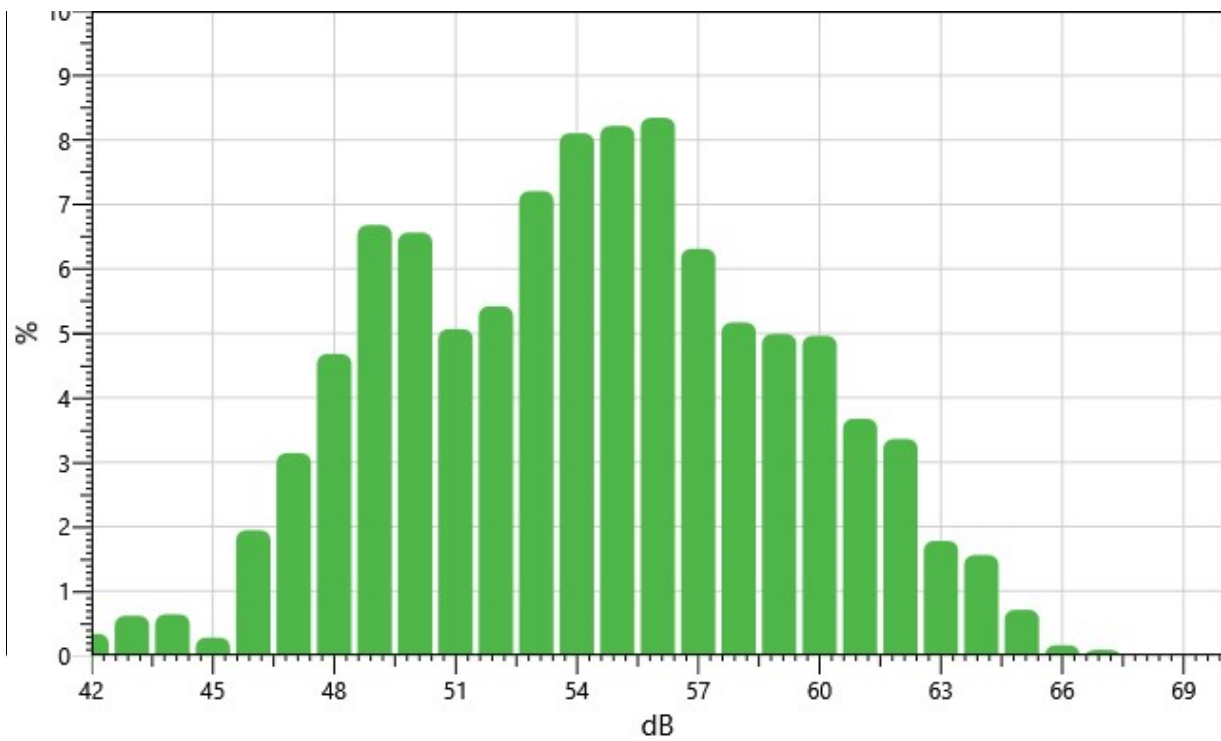
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
42:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.15	0.13	0.34
43:	0.06	0.05	0.06	0.06	0.10	0.06	0.05	0.06	0.05	0.07	0.62
44:	0.09	0.11	0.13	0.07	0.10	0.08	0.02	0.02	0.01	0.01	0.64
45:	0.01	0.02	0.02	0.03	0.03	0.03	0.04	0.02	0.02	0.06	0.28

46:	0.07	0.08	0.24	0.25	0.32	0.24	0.18	0.16	0.18	0.22	1.94
47:	0.22	0.22	0.27	0.29	0.30	0.29	0.34	0.35	0.33	0.55	3.14
48:	0.69	0.45	0.28	0.44	0.51	0.42	0.58	0.45	0.43	0.44	4.68
49:	0.50	0.60	0.76	0.81	0.69	0.78	0.53	0.59	0.70	0.72	6.68
50:	0.75	0.69	0.55	0.57	0.74	0.90	0.64	0.64	0.62	0.46	6.56
51:	0.46	0.58	0.35	0.53	0.53	0.53	0.59	0.52	0.49	0.50	5.07
52:	0.34	0.50	0.57	0.43	0.50	0.58	0.55	0.52	0.57	0.86	5.42
53:	0.74	0.76	0.79	0.73	0.66	0.66	0.62	0.60	0.67	0.97	7.21
54:	1.01	0.78	0.52	0.91	0.79	0.75	0.81	0.84	0.82	0.89	8.11
55:	0.87	0.77	0.75	0.79	0.85	0.78	0.80	0.88	0.86	0.86	8.22
56:	0.87	0.93	0.84	0.69	0.85	0.89	0.98	0.86	0.77	0.68	8.34
57:	0.72	0.69	0.48	0.60	0.65	0.61	0.58	0.74	0.70	0.54	6.31
58:	0.56	0.56	0.51	0.52	0.51	0.52	0.57	0.57	0.44	0.41	5.17
59:	0.43	0.45	0.47	0.49	0.56	0.59	0.47	0.41	0.56	0.55	4.99
60:	0.58	0.58	0.49	0.58	0.53	0.52	0.45	0.36	0.41	0.45	4.96
61:	0.51	0.35	0.32	0.30	0.33	0.32	0.39	0.32	0.38	0.47	3.67
62:	0.38	0.37	0.37	0.49	0.42	0.36	0.30	0.31	0.19	0.16	3.36
63:	0.15	0.19	0.17	0.18	0.15	0.21	0.19	0.15	0.19	0.20	1.78
64:	0.21	0.14	0.15	0.20	0.21	0.17	0.14	0.09	0.15	0.10	1.56
65:	0.10	0.09	0.13	0.12	0.10	0.02	0.04	0.02	0.06	0.03	0.71
66:	0.04	0.07	0.03	0.01	0.01	0.00	0.00	0.00	0.00	0.01	0.16
67:	0.00	0.00	0.01	0.01	0.01	0.01	0.03	0.03	0.00	0.00	0.09

Exceedance Chart

S010_BIJ050019_22062022_215743: Exceedance Chart

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		64.8	64.2	63.6	63.0	62.5	62.3	62.0	61.8	61.5
10%:	61.2	60.9	60.7	60.4	60.3	60.1	59.9	59.7	59.5	59.3
20%:	59.1	58.9	58.7	58.5	58.3	58.1	57.9	57.7	57.6	57.5
30%:	57.3	57.1	57.0	56.8	56.7	56.6	56.5	56.3	56.2	56.1
40%:	56.0	55.9	55.7	55.6	55.5	55.4	55.3	55.1	55.0	54.9
50%:	54.8	54.7	54.5	54.4	54.3	54.2	54.0	53.9	53.8	53.7
60%:	53.5	53.3	53.2	53.1	52.9	52.8	52.7	52.5	52.3	52.1
70%:	51.9	51.7	51.5	51.3	51.1	50.9	50.7	50.5	50.4	50.3
80%:	50.1	49.9	49.8	49.7	49.5	49.3	49.2	49.1	48.9	48.7
90%:	48.5	48.3	48.0	47.9	47.6	47.3	46.9	46.4	46.0	43.9
100%:	42.6									

Logged Data Chart

S010_BIJ050019_22062022_215743: Logged Data Chart
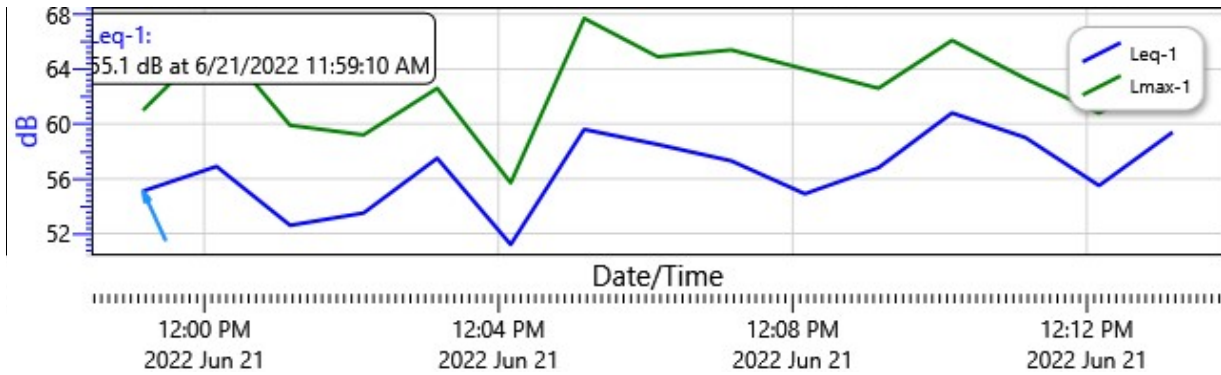
Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	57.3 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	FAST			

Rancho 38 #6

Information Panel

Start Time	11/22/2022 2:59:44 PM
Stop Time	11/22/2022 3:14:44 PM
Device Name	BIJ050019
Model Type	SoundPro DL
Device Firmware Rev	R.13H

Statistics Chart
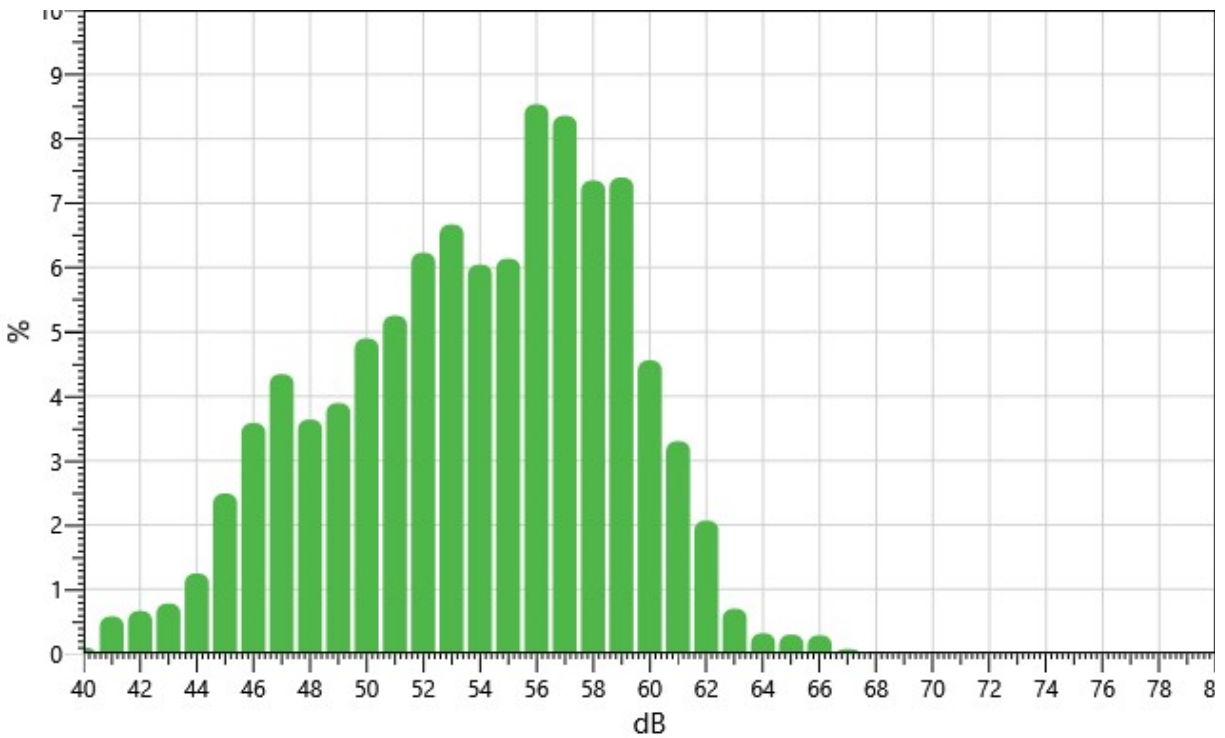
Statistics Table

dB:	0.0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
40:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.10
41:	0.01	0.01	0.02	0.02	0.03	0.03	0.02	0.11	0.15	0.17	0.58
42:	0.05	0.04	0.04	0.06	0.05	0.06	0.08	0.08	0.10	0.11	0.66
43:	0.11	0.09	0.15	0.07	0.04	0.07	0.05	0.06	0.06	0.07	0.78
44:	0.12	0.15	0.15	0.15	0.16	0.11	0.08	0.09	0.10	0.14	1.25
45:	0.13	0.15	0.14	0.19	0.17	0.31	0.33	0.42	0.39	0.26	2.49

46:	0.32	0.37	0.32	0.40	0.49	0.23	0.28	0.32	0.34	0.51	3.58
47:	0.47	0.39	0.34	0.27	0.37	0.45	0.43	0.53	0.59	0.51	4.34
48:	0.43	0.43	0.30	0.44	0.41	0.27	0.32	0.34	0.33	0.37	3.64
49:	0.38	0.34	0.31	0.34	0.36	0.35	0.49	0.51	0.37	0.44	3.89
50:	0.42	0.44	0.41	0.34	0.37	0.43	0.65	0.57	0.72	0.56	4.90
51:	0.56	0.56	0.36	0.57	0.58	0.52	0.50	0.58	0.54	0.49	5.25
52:	0.55	0.57	0.70	0.73	0.56	0.75	0.65	0.65	0.54	0.54	6.23
53:	0.55	0.60	0.69	0.77	0.76	0.62	0.61	0.65	0.65	0.77	6.67
54:	0.76	0.71	0.40	0.54	0.58	0.53	0.60	0.61	0.66	0.66	6.05
55:	0.65	0.60	0.55	0.61	0.49	0.50	0.60	0.61	0.73	0.80	6.14
56:	0.94	0.60	0.65	0.83	0.70	0.71	0.80	1.19	1.06	1.06	8.54
57:	1.11	0.92	0.57	0.83	0.74	0.80	0.80	0.94	0.86	0.79	8.36
58:	0.82	0.75	0.62	0.65	0.69	0.73	1.02	0.73	0.67	0.67	7.35
59:	0.68	0.70	0.61	0.72	0.85	0.81	0.93	0.73	0.73	0.64	7.40
60:	0.64	0.52	0.29	0.49	0.58	0.51	0.39	0.39	0.44	0.31	4.56
61:	0.28	0.40	0.34	0.38	0.42	0.30	0.29	0.30	0.26	0.32	3.30
62:	0.25	0.19	0.17	0.17	0.19	0.23	0.24	0.26	0.21	0.14	2.07
63:	0.14	0.06	0.06	0.07	0.07	0.07	0.05	0.06	0.06	0.06	0.70
64:	0.05	0.03	0.02	0.03	0.03	0.02	0.05	0.03	0.03	0.03	0.32
65:	0.07	0.03	0.03	0.02	0.02	0.02	0.01	0.02	0.03	0.05	0.30
66:	0.04	0.02	0.06	0.07	0.02	0.02	0.02	0.01	0.02	0.01	0.28
67:	0.02	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07
68:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
69:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
70:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
71:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
72:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
73:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
74:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
75:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01

Exceedance Chart

Exceedance Table

.	0%	1%	2%	3%	4%	5%	6%	%7	%8	%9
0%:		64.4	62.8	62.3	61.8	61.5	61.2	60.9	60.6	60.4
10%:	60.2	60.0	59.8	59.7	59.5	59.4	59.3	59.2	59.0	58.9
20%:	58.7	58.6	58.5	58.4	58.2	58.0	57.9	57.8	57.7	57.6
30%:	57.4	57.3	57.2	57.0	56.9	56.8	56.7	56.7	56.6	56.5
40%:	56.3	56.2	56.0	55.9	55.8	55.6	55.5	55.3	55.1	54.9
50%:	54.8	54.6	54.5	54.3	54.1	53.9	53.8	53.7	53.5	53.3
60%:	53.2	53.1	52.9	52.7	52.6	52.4	52.2	52.1	51.9	51.8
70%:	51.6	51.4	51.2	51.0	50.8	50.7	50.5	50.3	50.0	49.8
80%:	49.5	49.3	49.0	48.7	48.4	48.2	47.9	47.7	47.5	47.3
90%:	47.0	46.8	46.5	46.2	45.9	45.6	45.3	44.5	43.7	42.5
100%:	40.7									

Logged Data Chart

Summary Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	57 dB			
Exchange Rate	1	3 dB	Weighting	1	A
Response	1	SLOW	Bandwidth	1	OFF
Exchange Rate	2	5 dB	Weighting	2	A
Response	2	FAST			

APPENDIX B:

**TRAFFIC STUDY AND VEHICLE MILES TRAVELED (VMT)
SCREENING MEMORANDUM.**

```
                    Roadway Construction Noise Model (RCNM),Version 1.1

Report date:           02/11/2023
Case Description:      Rancho 38 Warehouse Project

                           **** Receptor #1 ****

                                 Baselines (dBA)
Description        Land Use      Daytime   Evening   Night
-----------        --------      -------   -------   -----
Northwest Pipe     Commercial      48.7      55.0    50.0

                           Equipment
                           ---------
                              Spec    Actual   Receptor   Estimated
                   Impact  Usage  Lmax    Lmax     Distance   Shielding
Description        Device  (%)    (dBA)   (dBA)    (feet)     (dBA)
-----------        ------  -----  -----   -----    --------   ---------
Backhoe            No      40             77.6     190.0      0.0
Dozer              No      40             81.7     190.0      0.0
Scraper            No      40             83.6     190.0      0.0
Excavator          No      40             80.7     190.0      0.0
Grader             No      40     85.0             190.0      0.0
Scraper            No      40             83.6     190.0      0.0
Crane              No      16             80.6     190.0      0.0
Gradall            No      40             83.4     190.0      0.0
Generator          No      50             80.6     190.0      0.0
Welder / Torch     No      40             74.0     190.0      0.0
Compressor (air)   No      40             77.7     190.0      0.0
Paver              No      50             77.2     190.0      0.0
Roller             No      20             80.0     190.0      0.0
Pickup Truck       No      40             75.0     190.0      0.0
Compactor (ground) No      20             83.2     190.0      0.0
Concrete Mixer Truck No    40             78.8     190.0      0.0
Dump Truck         No      40             76.5     190.0      0.0
Front End Loader   No      40             79.1     190.0      0.0

                           Results
                           -------
                                          Noise Limits (dBA)                        Noise
Limit Exceedance (dBA)
                          ----------------------------------------------
----------------------------------------------
                    Calculated (dBA)   Day        Evening      Night        Day
Evening            Night
                    ----------------  ----------  ----------   ----------   ----------
---------------    --------------
Equipment           Lmax    Leq    Lmax    Leq   Lmax   Leq   Lmax   Leq   Lmax   Leq
Lmax    Leq    Lmax    Leq
-------------------  ------  ------ ------ ------ ------ ------ ------ ------ ------ ------
------  ------  ------  ------
Backhoe             66.0    62.0    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Dozer               70.1    66.1    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Scraper             72.0    68.0    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Excavator           69.1    65.1    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Grader              73.4    69.4    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Scraper             72.0    68.0    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Crane               69.0    61.0    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Gradall             71.8    67.8    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Generator           69.0    66.0    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Welder / Torch      62.4    58.4    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Compressor (air)    66.1    62.1    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Paver               65.6    62.6    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Roller              68.4    61.4    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Pickup Truck        63.4    59.4    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
Compactor (ground)  71.6    64.6    N/A    N/A   N/A    N/A   N/A    N/A   N/A    N/A   N/
A    N/A     N/A    N/A
```

Equipment												
Concrete Mixer Truck	67.2	63.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Dump Truck	64.9	60.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Front End Loader	67.5	63.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Total	73.4	77.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									

**** Receptor #2 ****

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
-----------	--------	-------	-------	-----
Western States	Commercial	48.7	55.0	50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
-----------	------	-----	-----	-----	--------	---------
Backhoe	No	40		77.6	85.0	0.0
Dozer	No	40		81.7	85.0	0.0
Scraper	No	40		83.6	85.0	0.0
Excavator	No	40		80.7	85.0	0.0
Grader	No	40	85.0		85.0	0.0
Scraper	No	40		83.6	85.0	0.0
Crane	No	16		80.6	85.0	0.0
Gradall	No	40		83.4	85.0	0.0
Generator	No	50		80.6	85.0	0.0
Welder / Torch	No	40		74.0	85.0	0.0
Compressor (air)	No	40		77.7	85.0	0.0
Paver	No	50		77.2	85.0	0.0
Roller	No	20		80.0	85.0	0.0
Pickup Truck	No	40		75.0	85.8	0.0
Compactor (ground)	No	20		83.2	85.0	0.0
Concrete Mixer Truck	No	40		78.8	85.0	0.0
Dump Truck	No	40		76.5	85.0	0.0
Front End Loader	No	40		79.1	85.0	0.0

Results

Limit Exceedance (dBA)

Noise Limits (dBA)

Noise

Evening	Night	Calculated (dBA)		Day		Evening		Night		Day	
		----------------		---------------		--------------		--------------		--------------	
Equipment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq	Lmax	Leq								
------------------	------	------	------	------	------	------	------	------	------	------	------
------	------	------	------								
Backhoe		73.0	69.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Dozer		77.1	73.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Scraper		79.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Excavator		76.1	72.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Grader		80.4	76.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Scraper		79.0	75.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Crane		75.9	68.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Gradall		78.8	74.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Generator		76.0	73.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Welder / Torch		69.4	65.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Compressor (air)		73.1	69.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Paver		72.6	69.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									
Roller		75.4	68.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/
A	N/A	N/A	N/A									

Equipment	Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Pickup Truck	70.3	66.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	78.6	71.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Mixer Truck	74.2	70.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	71.8	67.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	74.5	70.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	80.4	84.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Description	Land Use	Baselines (dBA) Daytime	Evening	Night
Adelanto Medical Clinic	Residential	61.0	59.0	54.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	8239.0	0.0
Dozer	No	40		81.7	8239.0	0.0
Scraper	No	40		83.6	8239.0	0.0
Excavator	No	40		80.7	8239.0	0.0
Grader	No	40	85.0		8239.0	0.0
Scraper	No	40		83.6	8239.0	0.0
Crane	No	16		80.6	8239.0	0.0
Gradall	No	40		83.4	8239.0	0.0
Generator	No	50		80.6	8239.0	0.0
Welder / Torch	No	40		74.0	8239.0	0.0
Compressor (air)	No	40		77.7	8239.0	0.0
Paver	No	50		77.2	8239.0	0.0
Roller	No	20		80.0	8239.0	0.0
Pickup Truck	No	40		75.0	8239.0	0.0
Compactor (ground)	No	20		83.2	8239.0	0.0
Concrete Mixer Truck	No	40		78.8	8239.0	0.0
Dump Truck	No	40		76.5	8239.0	0.0
Front End Loader	No	40		79.1	8239.0	0.0

Results

Equipment	Calculated (dBA) Lmax	Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq	Day Lmax	Day Leq	Evening Lmax	Evening Leq	Night Lmax	Night Leq
Backhoe	33.2	29.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	37.3	33.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	39.2	35.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	36.4	32.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	40.7	36.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	39.2	35.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane	36.2	28.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Gradall	39.1	35.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	36.3	33.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	29.7	25.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compressor (air)	33.3	29.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Noise Limits (dBA) — Day / Evening / Night | Limit Exceedance (dBA) — Day / Evening / Night

Paver	32.9	29.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	35.7	28.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pickup Truck	30.7	26.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	38.9	31.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Mixer Truck	34.5	30.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	32.1	28.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	34.8	30.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	40.7	44.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A