Appendix G:
Noise Supporting Information

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Project Number: 2148.0016 Sheet 1 of 1
Project Name: Hidden Canyon Residences
Test Personnel: Matthew Dionisio

NOISE MEASUREMENT SURVEY

Site Number: LT-1 Date: 10/24/24-10/25/24 Time: From 3:50 PM To 4:35 PM

Site Location: East of 10971 Dublin Canyon Road, Pleasanton, California 94588. Approximately 1 1/2 Feet from barbed wire fence leaning on branch of first oak tree left of fence, about 10 feet east of church driveway. 40 feet south of Dublin Canyon Road.

Primary Noise Sources: Dublin Canyon Road Traffic

Measurement Results

	dBA
L_{eq}	65.5
L_{max}	93.3
L_{min}	37.1
L_{peak}	
L_5	69.8
L_{10}	66.0
L_{50}	56.7
L_{90}	50.9
Ldn	66.7

Observed Noise Sources/Events

Time	Noise Source/Event	dBA
	Dublin Canyon Road	

Comments:

Equipment: Sound Expert 821 Measured Difference: +0.04 dBA
Settings: A-Weighted ■ Other☐_____ Slow■ Fast☐ Windscreen■

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
7 mph gusts	5 mph	78	22	
10 mph gusts	6 mph	75	30	
Comments:	Slight Breeze			
	1st row is 10/24/24, 2nd row is 10/25/24			

Photos Taken:

Photo Number	Location/Description
1	Facing north next to property line in front of barbed wire fence
2	Facing east from 2nd curb off driveway
3	Facing south between oak trees #2 and #3 left of 1st oak tree
4	Facing west near barbed wire fence, closer into riparian environment

Traffic Description:

Roadway	# Lanes	Posted Speed	Average Speed	NB/EB Counts	SB/WB Counts
Dublin Canyon Road	2 (1 W, 1 E)	35	35		
I-580	9 (5 W, 4 E)	65	55-75		

Diagram/Further Comments:

Site 0.23 miles south of I-580 and BART tracks

LARSON DAVIS
A PCB DIVISION

SoundExpert 821 Summary: 2024-10-29 09:50:38

User:

Location:

Job Description:

Notes:

Meter General Information

	Model	Serial
Meter	SoundExpert 821	40400
Preamplifier	PRM821	
Microphone	377B02	
Unique File Id	00C:00009DD0:671A6CC7:00000512	

Overall Measurement

Start Date & Time	2024-10-24 15:50:31
Stop Date & Time	2024-10-25 16:35:32
Run Time	24:45:01.00
Pre-Calibration	
Date/Time	2024-10-24 15:48:44
Calibrator Level	114.00 dB
Meter Sensitivity	-25.65 dB re 1V/Pa
Post-Calibration	
Date/Time	---
Calibrator Level	---
Meter Sensitivity	---
Sensitivity Delta	---

	A	C	Z
Lweq	65.5	72.0	75.8
Lwpk	121.5 dB	138.7 dB	142.7 dB
	2024-10-24 15:50:49	2024-10-24 15:50:49	2024-10-24 15:50:49
LwSmin	37.1 dB	52.1 dB	57.1 dB
	2024-10-25 13:09:26	2024-10-24 17:16:29	2024-10-25 01:38:50
LwFmin	36.6 dB	50.0 dB	54.6 dB
	2024-10-25 13:09:25	2024-10-24 17:16:28	2024-10-24 17:16:28
LwImin	37.8 dB	54.6 dB	60.0 dB
	2024-10-25 13:09:26	2024-10-24 17:16:29	2024-10-25 01:26:07
LwSmax	93.3 dB	114.9 dB	121.5 dB
	2024-10-24 15:50:49	2024-10-24 15:50:49	2024-10-24 15:50:49
LwFmax	101.6 dB	123.4 dB	128.8 dB
	2024-10-24 15:50:49	2024-10-24 15:50:49	2024-10-24 15:50:49
LwImax	106.1 dB	127.4 dB	132.9 dB
	2024-10-24 15:50:49	2024-10-24 15:50:49	2024-10-24 15:50:49

w = frequency weighting (A, C or Z)

Community Noise	**LDN**	**LDay (07:00-22:00)**	**LNight (22:00-07:00)**	
	66.7 dB	67.3 dB	55.4 dB	
	LDEN	**LDay (07:00-19:00)**	**LEve (19:00-22:00)**	**LNight (22:00-07:00)**
	67.0 dB	68.0 dB	61.3 dB	55.4 dB

LCeq - LAeq	6.4 dB
LAIeq	69.0 dB
Overload Count	0
Overload Duration	00:00:00

	A	C	Z
Under Range Peak	50.0 dB	50.0 dB	62.0 dB
Under Range Limit	24.0 dB	27.0 dB	37.0 dB
Noise Floor	17.0 dB	18.0 dB	25.0 dB

Ln Percentiles

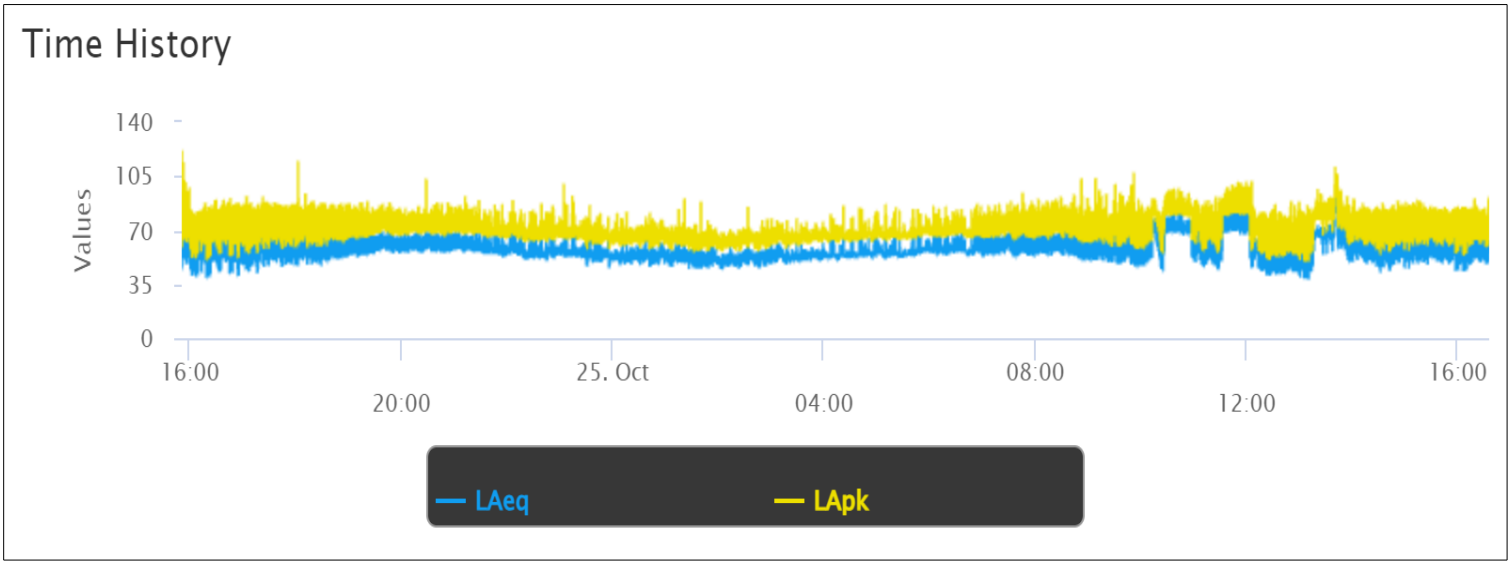
LAS 5.0	69.8 dB
LAS 10.0	66.0 dB
LAS 33.3	59.4 dB
LAS 50.0	56.7 dB
LAS 66.6	54.7 dB
LAS 90.0	50.9 dB

Exceedances

	Count	Duration
LAS > 85 dB	9	212
LAS > 95 dB	0	0
LCpk > 135 dB	1	1
LCpk > 137 dB	1	1
LCpk > 140 dB	0	0

Sound Exposure

SELA	115.0 dB
EA (Pa²s)	127.2 Pa²s
EA,8 h (Pa²s)	41.1 Pa²s
EA,40 h (Pa²s)	205.5 Pa²s
EA (Pa²h)	0.0 Pa²h
EA,8 h (Pa²h)	0.0 Pa²h
EA,40 h (Pa²h)	0.1 Pa²h



Mobile Construction Activity Noise Calculation

Receptor:	Receiving residential property line	Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
		Reference (dBA) 50 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
No.	Equipment Description	Lmax	Quantity	factor[1]	Receptor	Effect[2]	(dBA)[3]	Lmax	Leq	Energy
1	Grader	85	1	40	100	1	0	79.0	72.0	15811388.3
2	Excavator	85	1	40	150	1	0	75.5	66.7	4684855.793
3	Dozer	85	1	40	150	1	0	75.5	66.7	4684855.793
4	Front End Loader	80	1	40	200	1	0	68.0	58.0	625000
5	Backhoe	80	1	40	200	1	0	68.0	58.0	625000
6										
7										
8										
9										
10										
Notes:							Lmax[4]	79	Leq	74

[1] Percentage of time activity occurs each hour
[2] Soft ground terrain between project site and receptor.
[3] Shielding due to terrain or structures
[4] Calculated Lmax is the Loudest value.

Residential-Grade Mechanical Equipment

Receptor:	Nearest Residential Receptor	Noise Level Calculation Prior to Implementation of Noise Attenuation Requirements								
		Reference (dBA) 3 ft		Usage	Distance to	Ground	Shielding	Calculated (dBA)		
No.	Equipment Description	Lmax	Quantity	factor[1]	Receptor	Effect[2]	(dBA)[3]	Lmax	Leq	Energy
1	Residential grade mechanical ventilation equipment	70	1	80	160	1	0	35.5	17.2	52.734375
2	Residential grade mechanical ventilation equipment	70	1	80	275	1	0	30.8	10.2	10.38617581
3										
4										
5										
6										
7										
8										
9										
10										
									Leq	18

Notes:

[1] Percentage of time activity occurs each hour

[2] Soft ground terrain between project site and receptor.

[3] Shielding due to structural/soundwall shielding