Appendix O. Noise and Vibration Technical Report: Attachments 1-15

SEPULVEDA TRANSIT CORRIDOR PROJECT

Noise and Vibration Technical Report Attachments

February 2025

Metro®

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SEPULVEDA TRANSIT CORRIDOR PROJECT

Contract No. AE67085000

Noise and Vibration Technical Report Attachments

Task 5.24.07

Prepared for:

Metro

Los Angeles County
Metropolitan Transportation Authority

Prepared by:

HTA PARTNERS
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Backchecker/Updater		
Verifier		
QA Review		

February 2025

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Attachment 1. 24-Hour Noise Measurement Photographs and Summarized Results

Contents

Attachment 1 contains the noise measurement data summaries pertaining to the 24-hour noise measurements conducted at representative Category 2 receptors in the Project Study Area. The attachment includes the measurement data for Tables 5-1, 6-5, 7-5, 8-6, 9-6, and 10-3 of the Noise and Vibration Technical Report

Index of 24-hour Noise Measurement Locations

Site No.	Location	Site No.	Location
1	2435 S. Sepulveda Boulevard	42	15350 Sutton Street
2	2203 S. Bentley Avenue	43	4440 Sepulveda Boulevard
3	1726 S. Bentley Avenue	44	4800 Sepulveda Boulevard
4	1521 Beloit Avenue	45	15233½ Valleyheart Drive
5	Greater LA Fisher House	47	14520 Magnolia Boulevard
7	West LA VA Medical Center	48	15231 Magnolia Boulevard
10	UCLA Luskin Conference Center	49	5329 Sepulveda Boulevard
15	426 S. Sepulveda Boulevard	50	15353 Weddington
16	11330 Denair Street	51	5450 Sepulveda Boulevard
18	353 Dalkeith Avenue	52	6200 Blucher Avenue
19	10615 Bellagio Road	53	6201 Blucher Avenue
20	11420 Thurston Circle	55	6224 Peach Avenue
21	Hotel Bellagio, 170 N. Church Lane	56	6561 Sepulveda Boulevard
23	11720 Bellagio Road	57	6546 Aqueduct Avenue
24	11812 Bellagio Road	58	14419 Vanowen Street
25	Leonard I. Beeman Early Childhood Center, 1300 N. Sepulveda Boulevard	59	6920 Sepulveda Boulevard
26	1399 Casiano Road	60	6841 Firmament Avenue
30	10635 Levico Way	61	13917 Cohasset Street
31	2607 Basil Lane	62	7467 Sylmar Avenue
32	2341 Donella Circle	63	15235 Wyandotte Street
37	3490 Vista Haven Road	64	15550 Wyandotte Street
38	15460 Briarwood Drive	65	15559 Covello Street
39	15515 Woodcrest Drive	66	15018 Marson Street
41	15371 Del Gado Drive	67	7824 Zombar Avenue

Noise Measurement Photographs at Site 1 – 2435 S. Sepulveda Blvd, Los Angeles

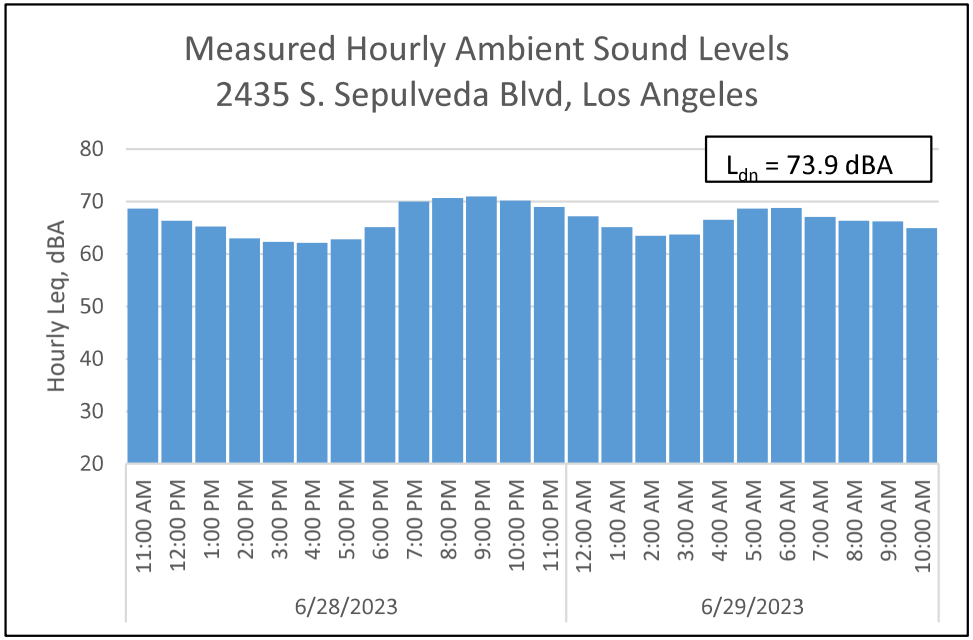
Looking Northeast

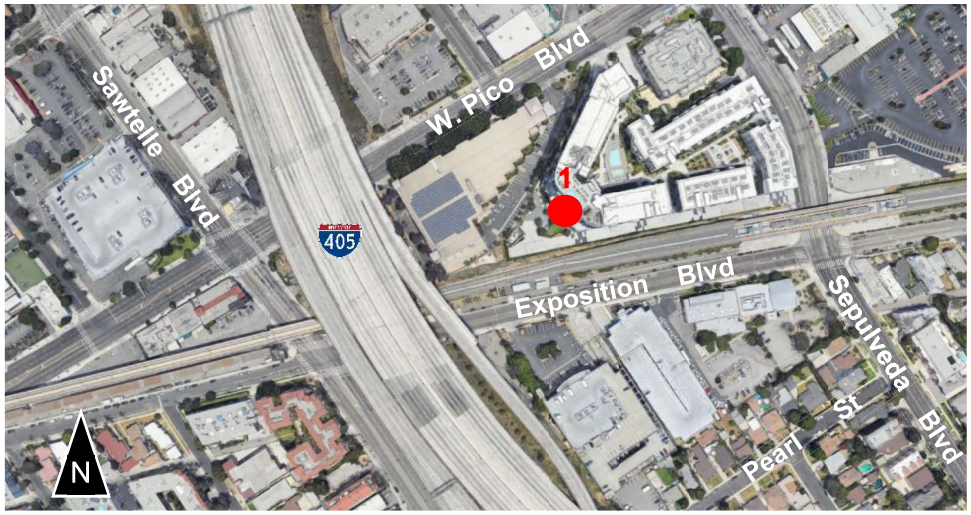
Looking Northwest

Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/28/2023	11:00 AM	68.6
	12:00 PM	66.3
	1:00 PM	65.2
	2:00 PM	63.0
	3:00 PM	62.3
	4:00 PM	62.2
	5:00 PM	62.8
	6:00 PM	65.1
	7:00 PM	70.0
	8:00 PM	70.7
	9:00 PM	71.0
	10:00 PM	70.2
	11:00 PM	69.0
6/29/2023	12:00 AM	67.2
	1:00 AM	65.1
	2:00 AM	63.5
	3:00 AM	63.7
	4:00 AM	66.5
	5:00 AM	68.6
	6:00 AM	68.8
	7:00 AM	67.1
	8:00 AM	66.4
	9:00 AM	66.2
	10:00 AM	64.9

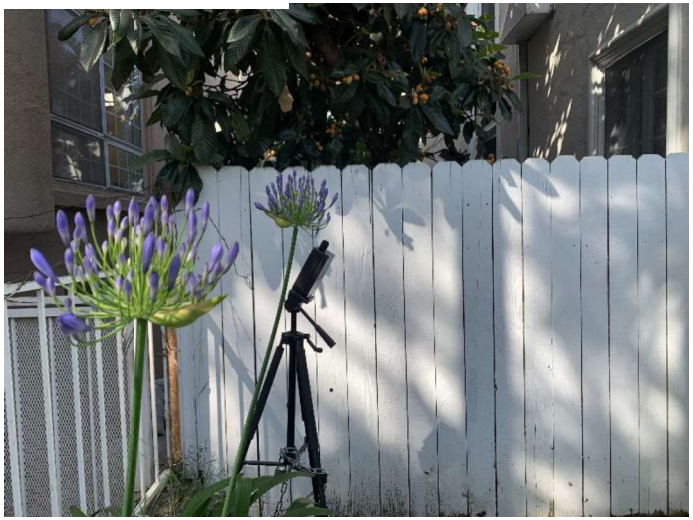




Noise Measurement Photographs at Site 2 – 2203 S. Bentley Ave, Los Angeles

Looking Northeast

Looking Northwest



Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/5/2023	10:00 AM	64.2
	11:00 AM	63.1
	12:00 PM	64.6
	1:00 PM	67.0
	2:00 PM	63.5
	3:00 PM	64.0
	4:00 PM	63.4
	5:00 PM	66.8
	6:00 PM	63.5
	7:00 PM	62.6
	8:00 PM	61.5
	9:00 PM	62.4
	10:00 PM	59.8
	11:00 PM	58.7
7/6/2023	12:00 AM	53.4
	1:00 AM	52.7
	2:00 AM	49.2
	3:00 AM	48.7
	4:00 AM	54.4
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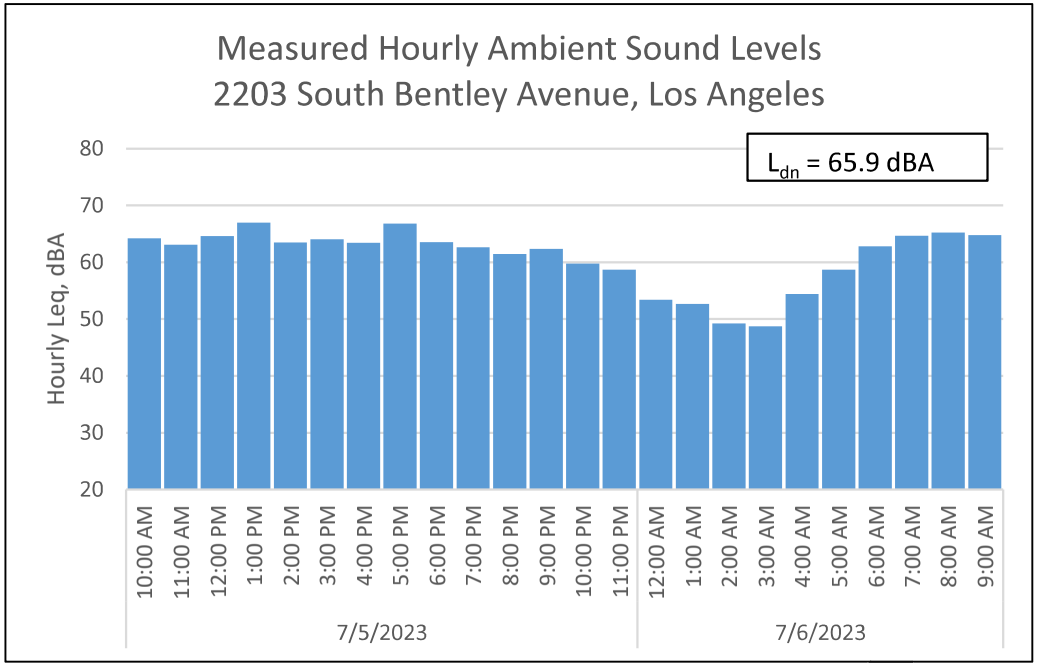
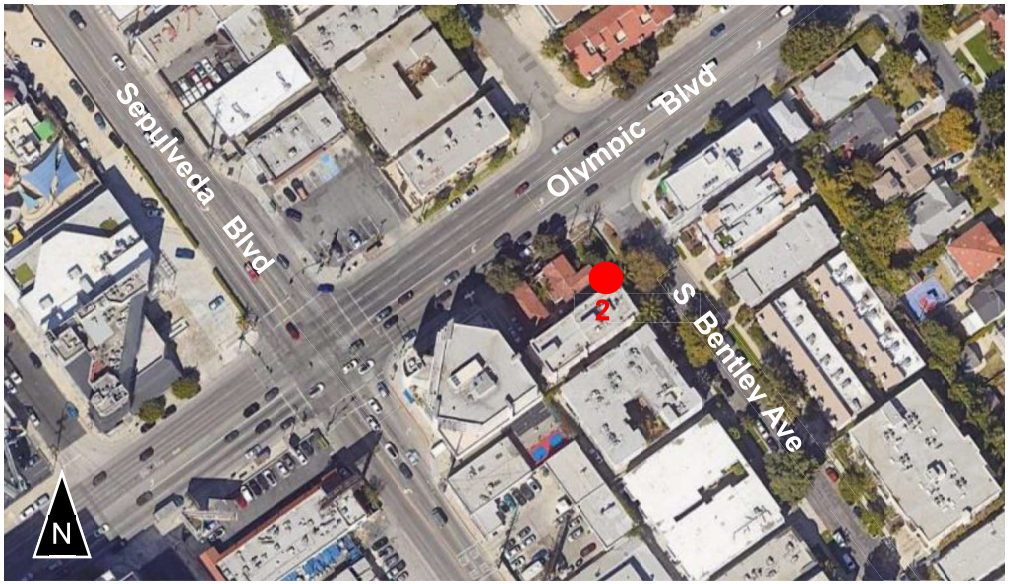
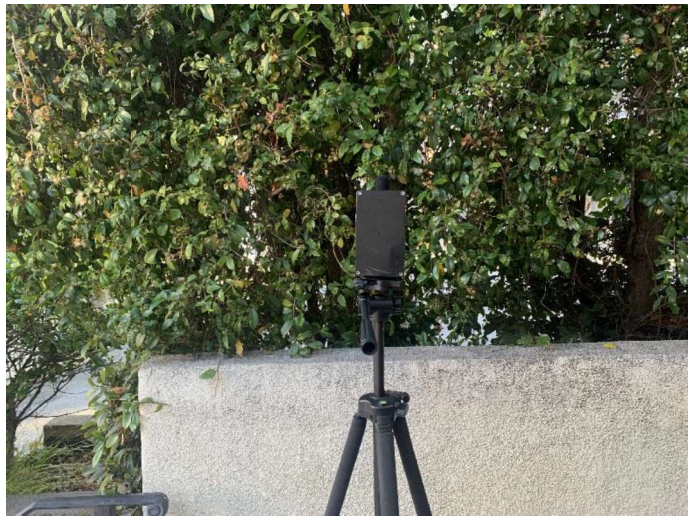
	6:00 AM	62.8
	7:00 AM	64.7
	8:00 AM	65.2
	9:00 AM	64.8



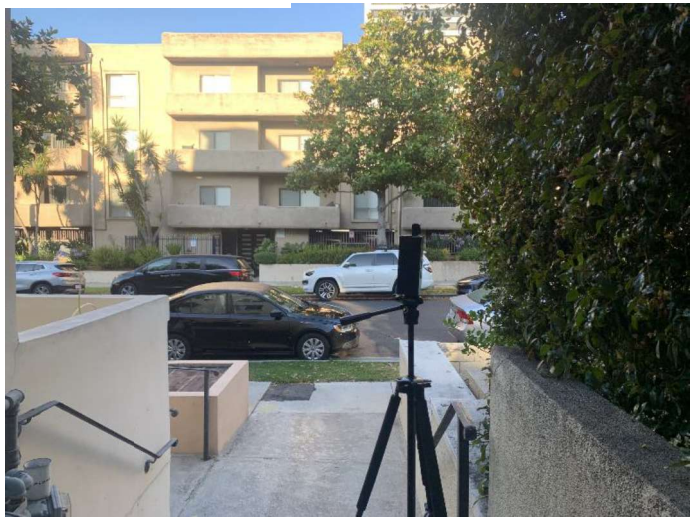


Noise Measurement Photographs at Site 3 – 1726 S. Bentley Ave, Los Angeles

Looking Northeast



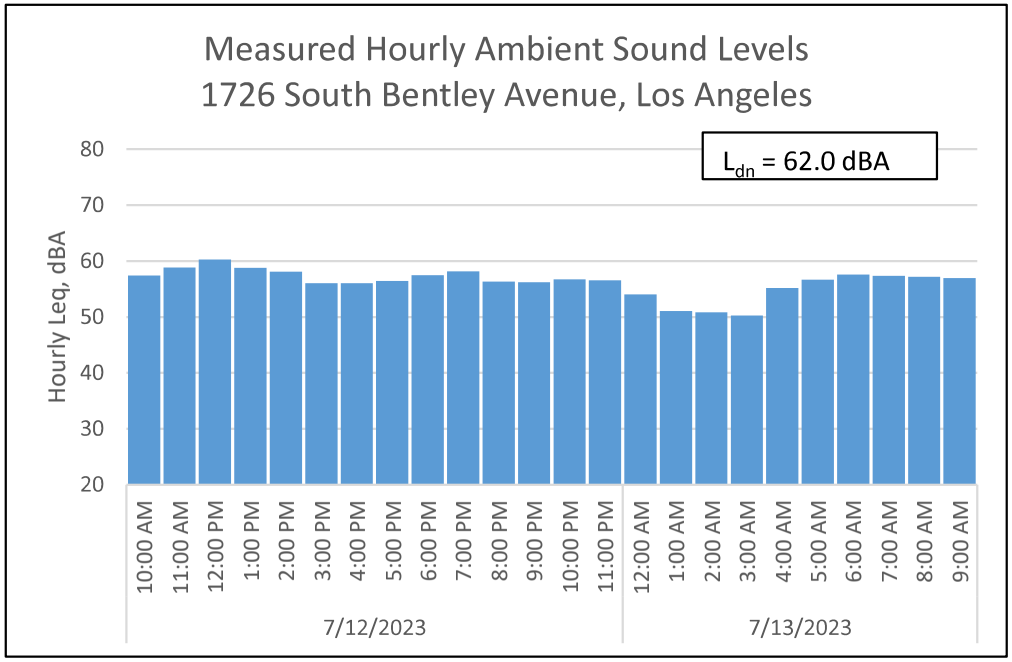
Looking Northwest

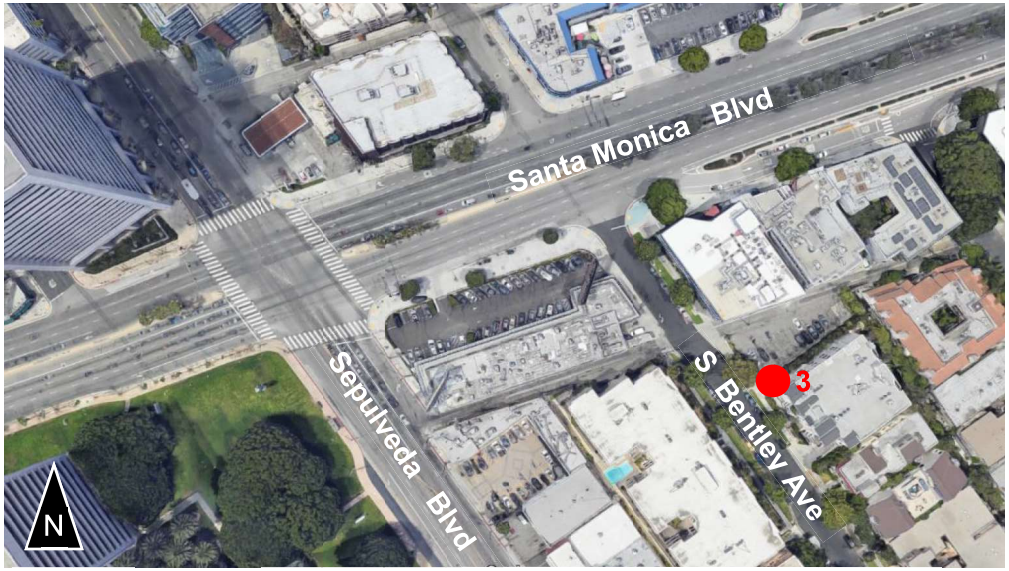


Looking Southwest

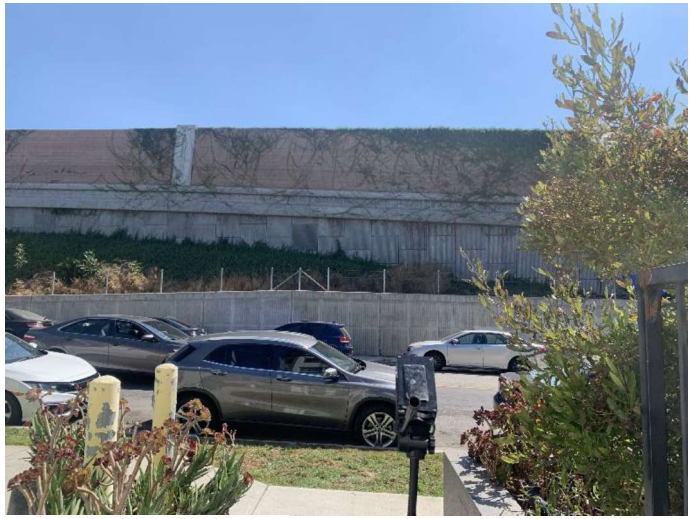
Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/12/2023	10:00 AM	57.4
	11:00 AM	58.9
	12:00 PM	60.3
	1:00 PM	58.8
	2:00 PM	58.1
	3:00 PM	56.0
	4:00 PM	56.0
	5:00 PM	56.5
	6:00 PM	57.5
	7:00 PM	58.2
	8:00 PM	56.3
	9:00 PM	56.2
	10:00 PM	56.7
	11:00 PM	56.5
7/13/2023	12:00 AM	54.0
	1:00 AM	51.1
	2:00 AM	50.9
	3:00 AM	50.3
	4:00 AM	55.2
	5:00 AM	56.7
	6:00 AM	57.6
	7:00 AM	57.4
	8:00 AM	57.2
	9:00 AM	57.0



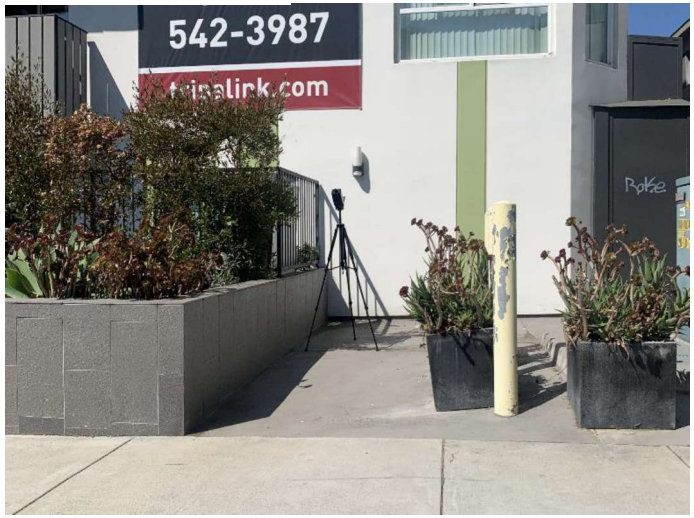


Noise Measurement Photographs at Site 4 – 1539 Beloit Ave, Los Angeles



Looking Northeast

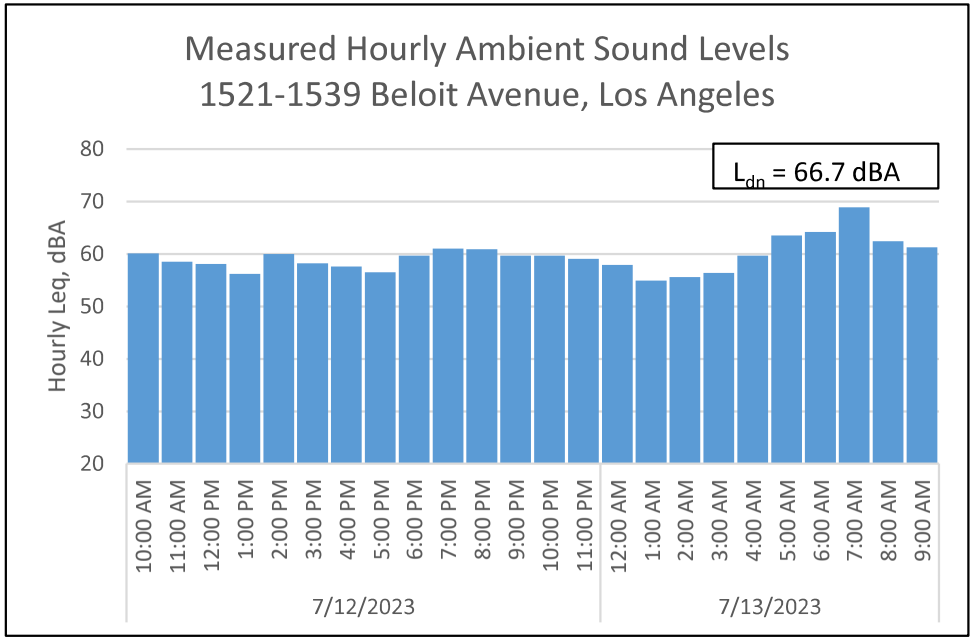
Looking Northwest

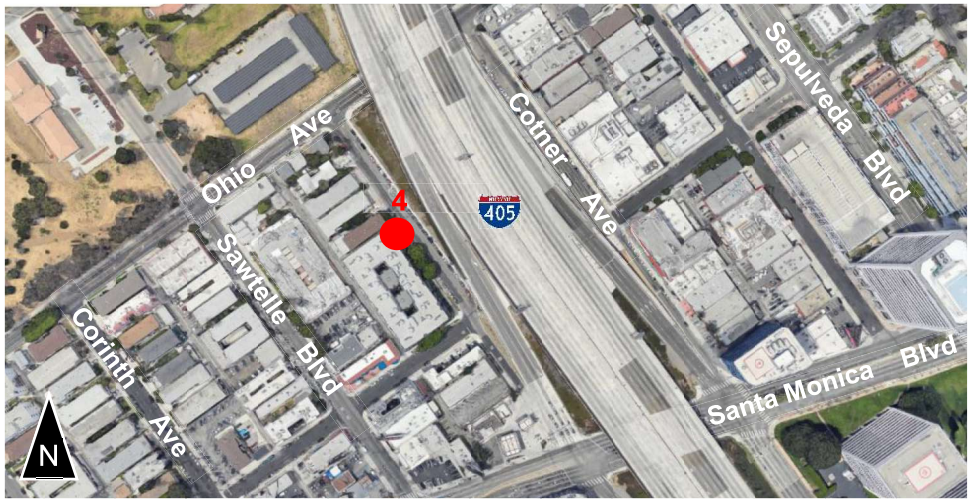


Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/12/2023	10:00 AM	60.1
	11:00 AM	58.5
	12:00 PM	58.1
	1:00 PM	56.2
	2:00 PM	60.0
	3:00 PM	58.2
	4:00 PM	57.6
	5:00 PM	56.5
	6:00 PM	59.7
	7:00 PM	61.0
	8:00 PM	60.9
	9:00 PM	59.7
	10:00 PM	59.7
	11:00 PM	59.1
7/13/2023	12:00 AM	57.9
	1:00 AM	54.9
	2:00 AM	55.6
	3:00 AM	56.4
	4:00 AM	59.7
	5:00 AM	63.5
	6:00 AM	64.2
	7:00 AM	68.9
	8:00 AM	62.4
	9:00 AM	61.3





Noise Measurement Photographs at Site 5 – Greater LA Fisher House, 11301 Wilshire Blvd Suite 523, Los Angeles

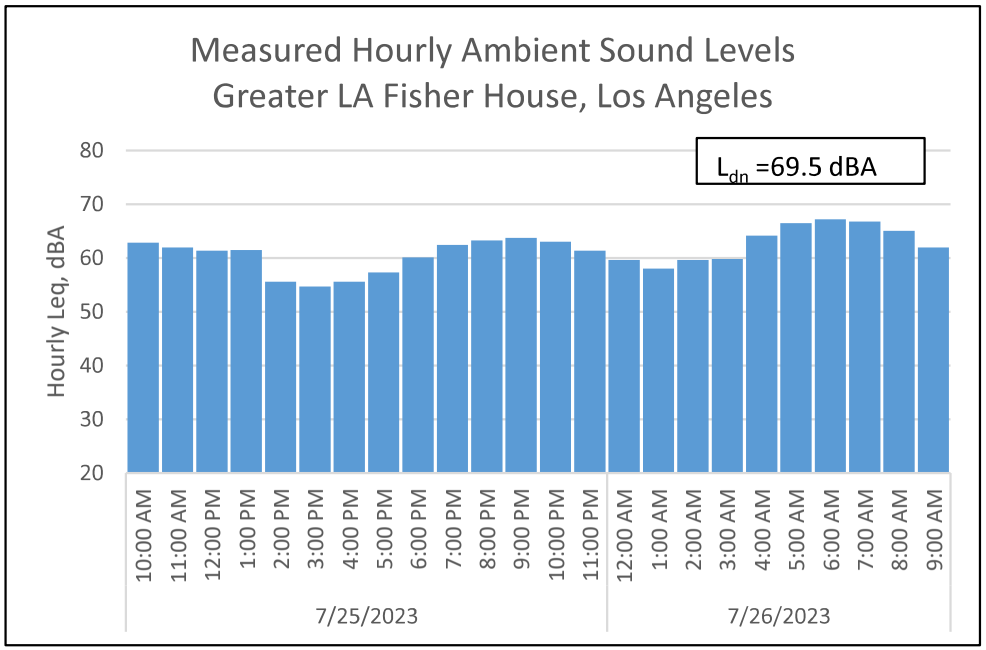
Looking Northeast

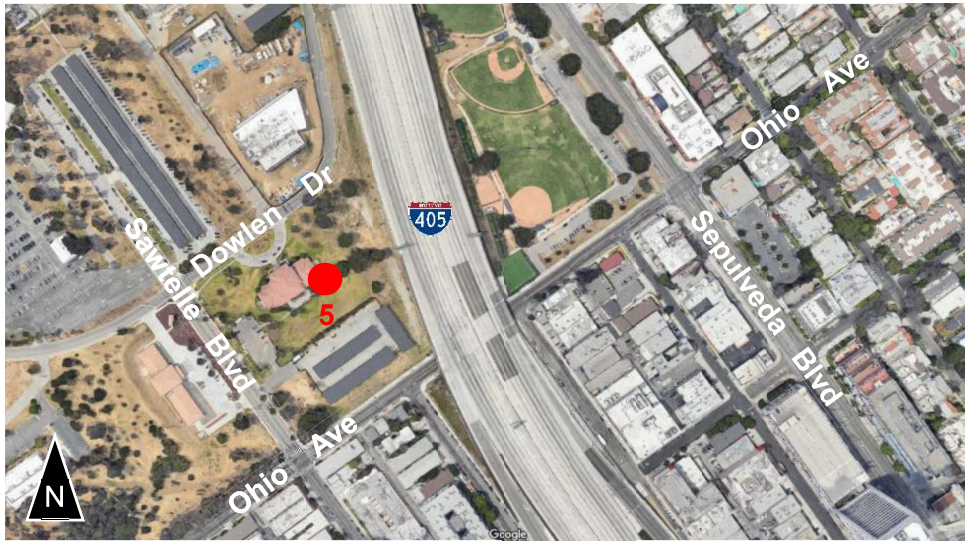
Looking Northwest

Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/25/2023	10:00 AM	62.9
	11:00 AM	61.9
	12:00 PM	61.4
	1:00 PM	61.5
	2:00 PM	55.6
	3:00 PM	54.7
	4:00 PM	55.6
	5:00 PM	57.3
	6:00 PM	60.1
	7:00 PM	62.4
	8:00 PM	63.3
	9:00 PM	63.8
	10:00 PM	63.0
	11:00 PM	61.4
7/26/2023	12:00 AM	59.7
	1:00 AM	58.0
	2:00 AM	59.7
	3:00 AM	59.8
	4:00 AM	64.1
	5:00 AM	66.5
	6:00 AM	67.2
	7:00 AM	66.8
	8:00 AM	65.0
	9:00 AM	62.0





Noise Measurement Photographs at Site 7 – West Los Angeles VA Medical Center, 11301 Wilshire Blvd, Los Angeles

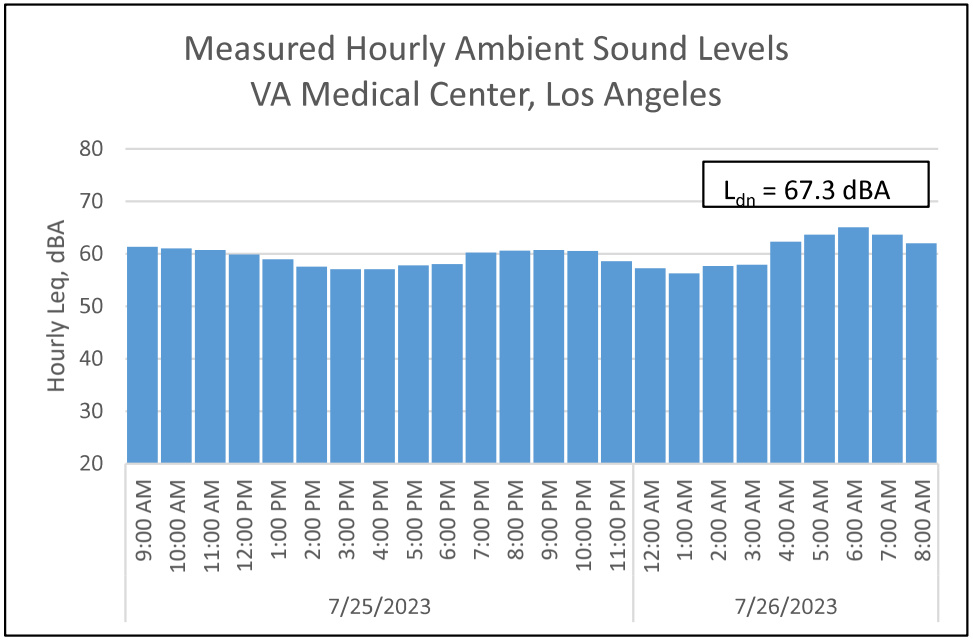
Looking Northeast

Looking Northwest

Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/25/2023	9:00 AM	61.3
	10:00 AM	61.1
	11:00 AM	60.7
	12:00 PM	59.9
	1:00 PM	58.9
	2:00 PM	57.5
	3:00 PM	57.1
	4:00 PM	57.1
	5:00 PM	57.8
	6:00 PM	58.0
	7:00 PM	60.3
	8:00 PM	60.6
	9:00 PM	60.7
	10:00 PM	60.5
	11:00 PM	58.6
7/26/2023	12:00 AM	57.2
	1:00 AM	56.3
	2:00 AM	57.7
	3:00 AM	57.9
	4:00 AM	62.3
	5:00 AM	63.6
	6:00 AM	65.0
	7:00 AM	63.7
	8:00 AM	62.0



Noise Measurement Photographs at Site 10 – UCLA Meyer and Renee Luskin Conference Center, 425 Westwood Plaza, Los Angeles

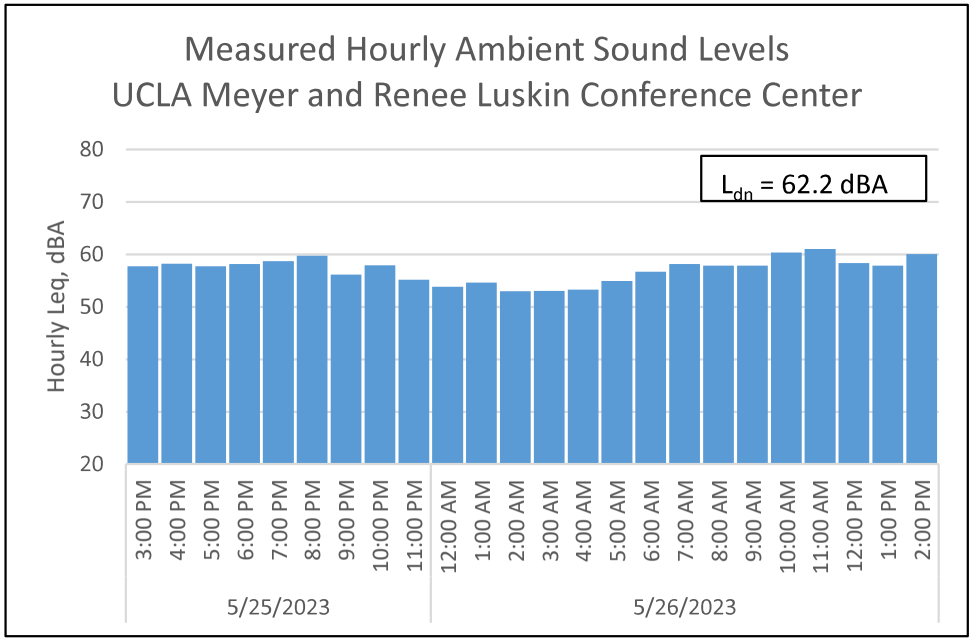
Looking Northeast

Looking Northwest

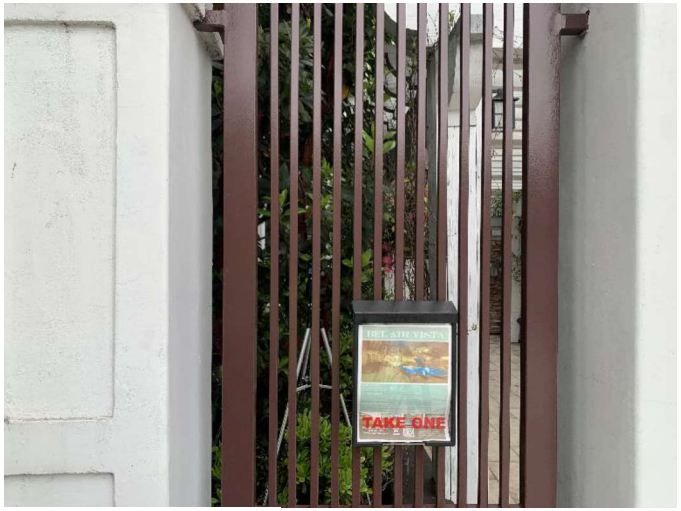
Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/25/2023	3:00 PM	57.7
	4:00 PM	58.2
	5:00 PM	57.7
	6:00 PM	58.2
	7:00 PM	58.7
	8:00 PM	59.8
	9:00 PM	56.1
	10:00 PM	57.9
	11:00 PM	55.2
5/26/2023	12:00 AM	53.8
	1:00 AM	54.6
	2:00 AM	53.0
	3:00 AM	53.0
	4:00 AM	53.3
	5:00 AM	55.0
	6:00 AM	56.7
	7:00 AM	58.2
	8:00 AM	57.9
	9:00 AM	57.9
	10:00 AM	60.4
	11:00 AM	61.0
	12:00 PM	58.3
	1:00 PM	57.8
	2:00 PM	60.0

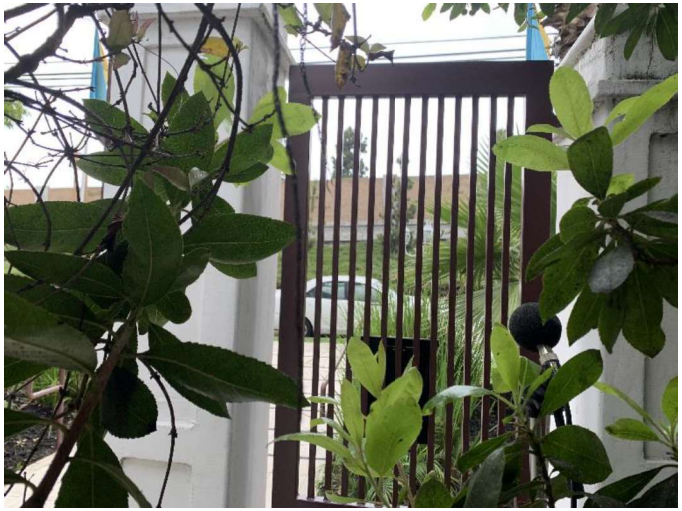


Noise Measurement Photographs at Site 15 – 426 S. Sepulveda Blvd, Los Angeles



Looking Northeast

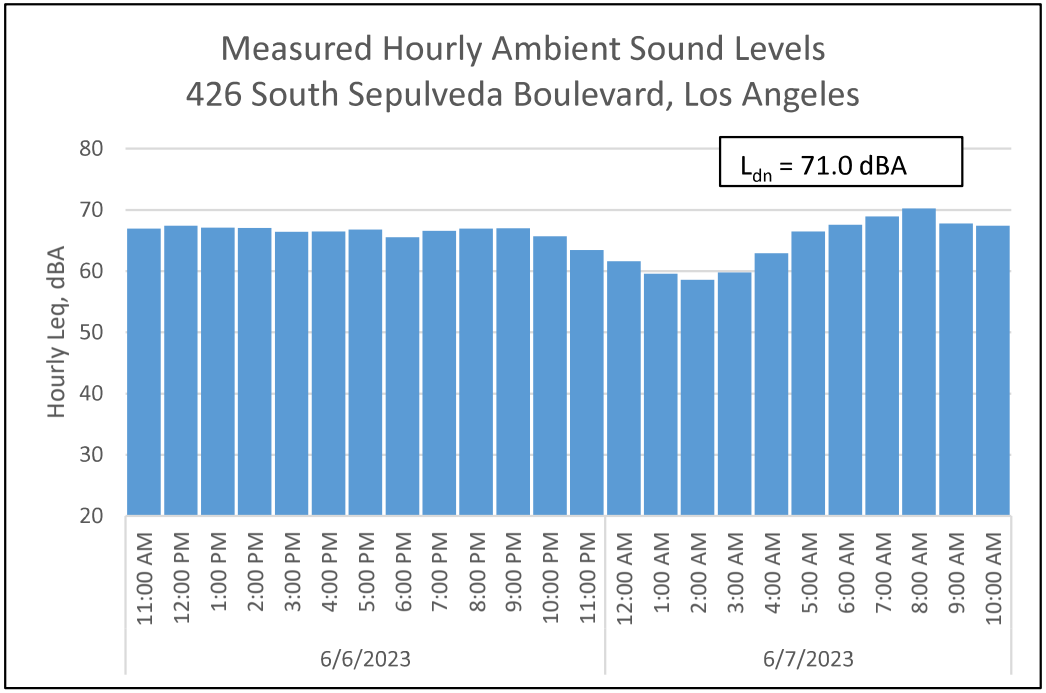
Looking Northwest

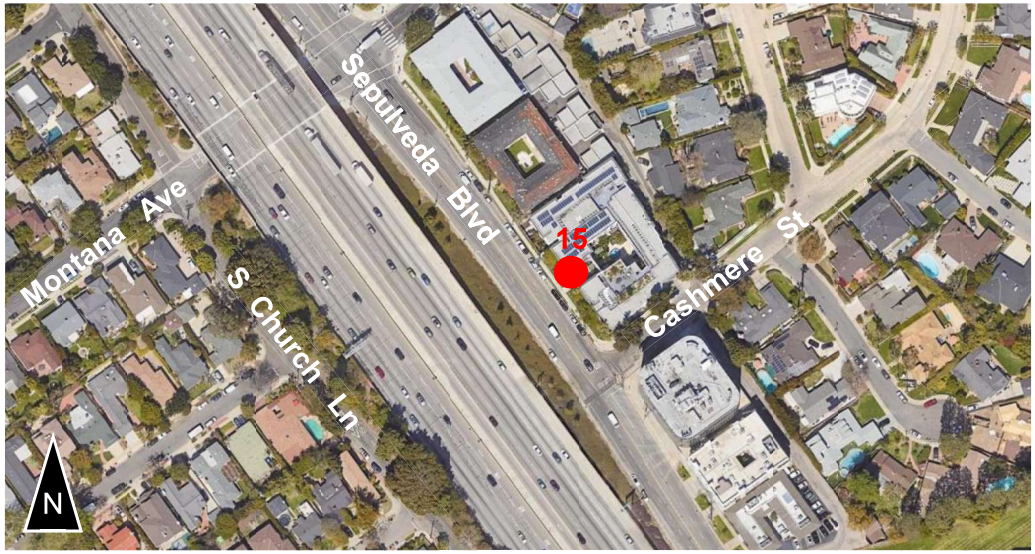


Looking Southwest

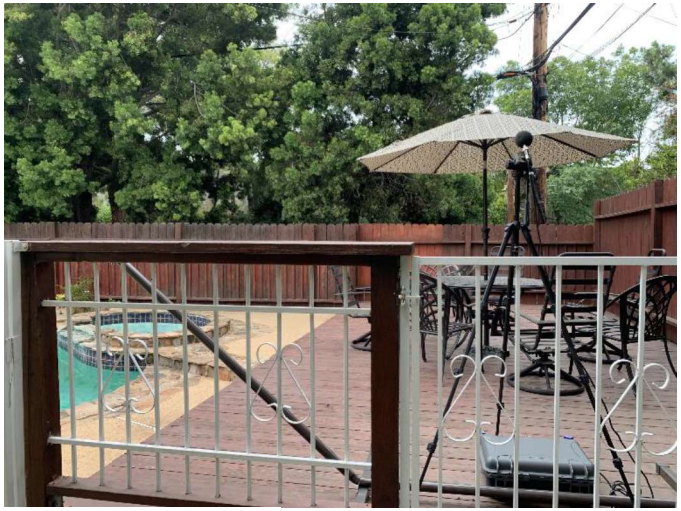
Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/6/2023	11:00 AM	67.0
	12:00 PM	67.4
	1:00 PM	67.1
	2:00 PM	67.1
	3:00 PM	66.4
	4:00 PM	66.5
	5:00 PM	66.8
	6:00 PM	65.5
	7:00 PM	66.6
	8:00 PM	66.9
	9:00 PM	67.0
	10:00 PM	65.7
	11:00 PM	63.5
6/7/2023	12:00 AM	61.6
	1:00 AM	59.6
	2:00 AM	58.6
	3:00 AM	59.8
	4:00 AM	62.9
	5:00 AM	66.5
	6:00 AM	67.6
	7:00 AM	68.9
	8:00 AM	70.3
	9:00 AM	67.8
	10:00 AM	67.4





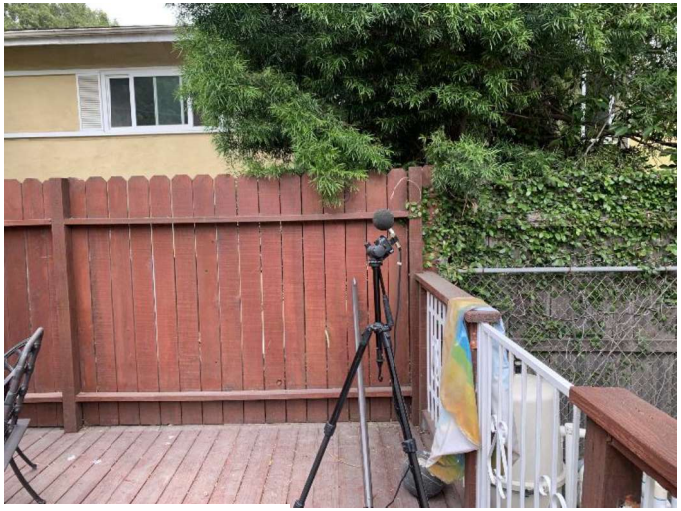
Noise Measurement Photographs at Site 16 – 11330 Denair St, Los Angeles



Looking Northeast

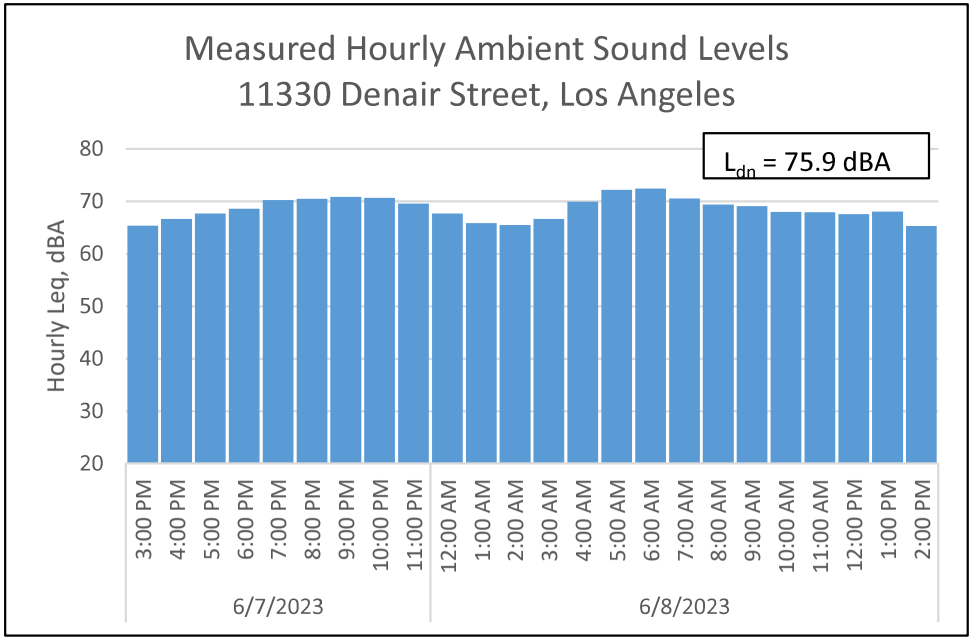
Looking Northwest

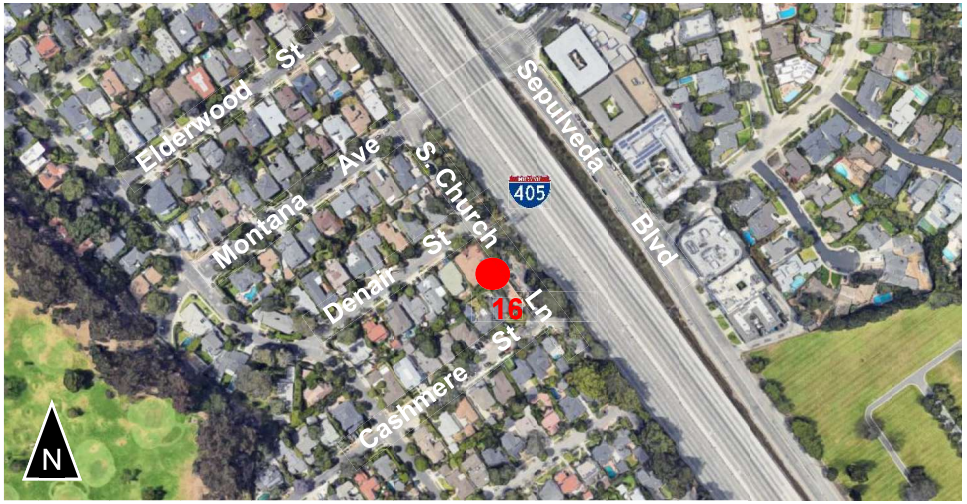
Looking Southwest



Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/7/2023	3:00 PM	65.4
	4:00 PM	66.6
	5:00 PM	67.7
	6:00 PM	68.6
	7:00 PM	70.2
	8:00 PM	70.5
	9:00 PM	70.9
	10:00 PM	70.7
	11:00 PM	69.6
6/8/2023	12:00 AM	67.6
	1:00 AM	65.9
	2:00 AM	65.5
	3:00 AM	66.7
	4:00 AM	70.0
	5:00 AM	72.2
	6:00 AM	72.4
	7:00 AM	70.6
	8:00 AM	69.4
	9:00 AM	69.1
	10:00 AM	68.0
	11:00 AM	67.9
	12:00 PM	67.6
	1:00 PM	68.1
	2:00 PM	65.3





Noise Measurement Photographs at Site 18 – 353 Dalkeith Ave, Los Angeles

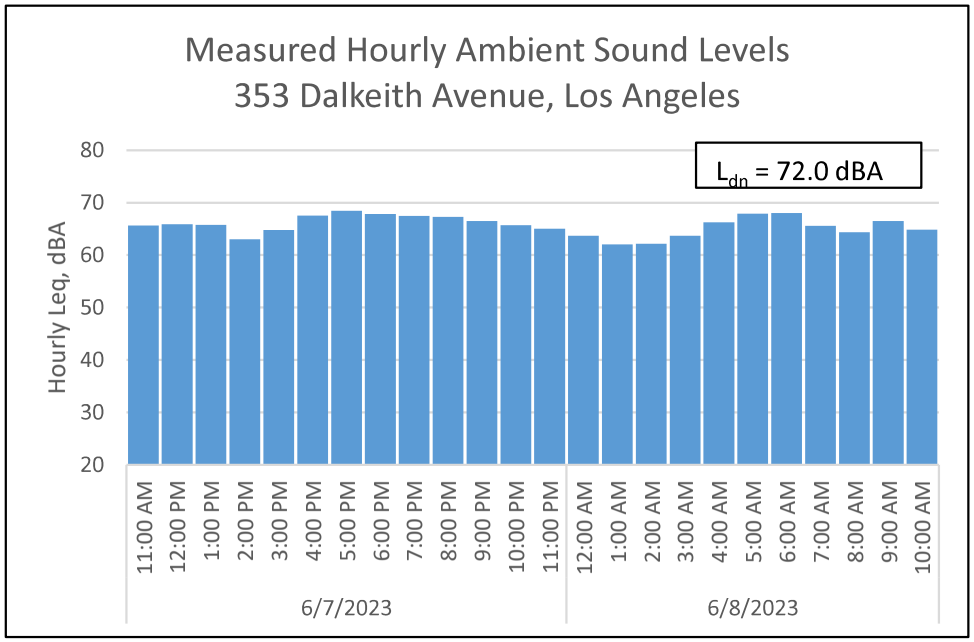
Looking Northeast

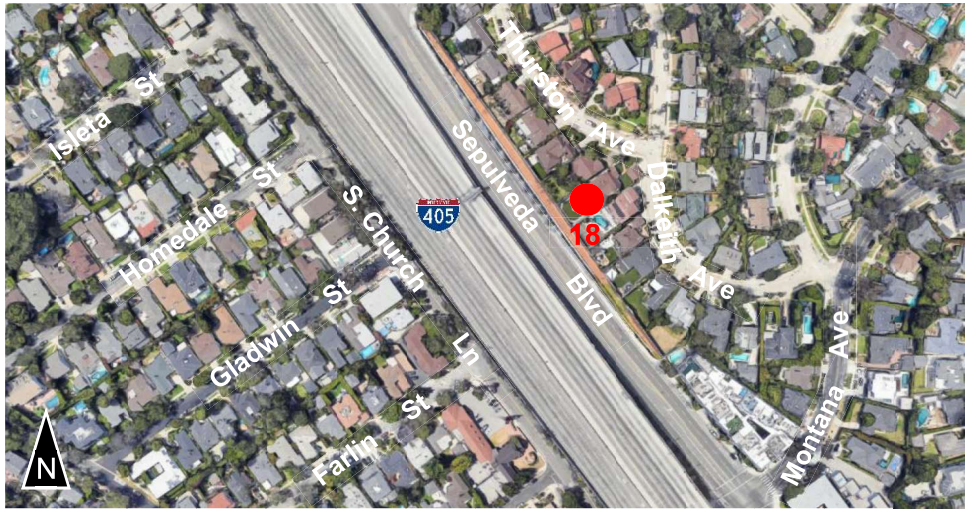
Looking Northwest

Looking Southwest

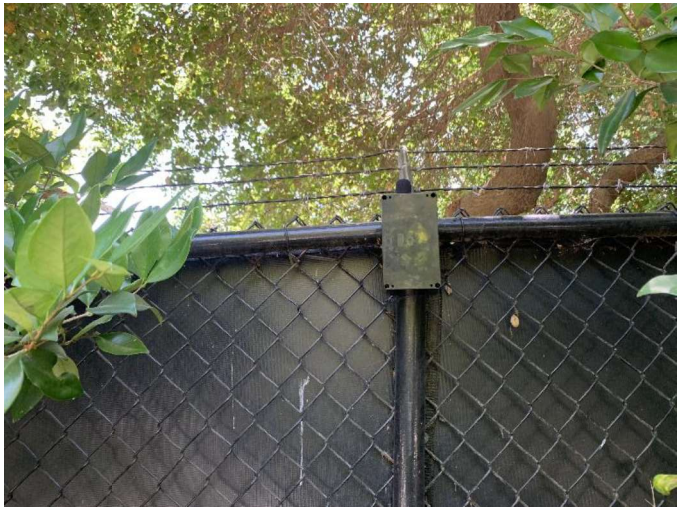
Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/7/2023	11:00 AM	65.6
	12:00 PM	65.9
	1:00 PM	65.8
	2:00 PM	63.0
	3:00 PM	64.8
	4:00 PM	67.5
	5:00 PM	68.5
	6:00 PM	67.9
	7:00 PM	67.5
	8:00 PM	67.3
	9:00 PM	66.5
	10:00 PM	65.7
	11:00 PM	65.1
6/8/2023	12:00 AM	63.7
	1:00 AM	62.1
	2:00 AM	62.2
	3:00 AM	63.7
	4:00 AM	66.3
	5:00 AM	67.9
	6:00 AM	68.0
	7:00 AM	65.6
	8:00 AM	64.3
	9:00 AM	66.5
	10:00 AM	64.8





Noise Measurement Photographs at Site 19 – 10620 Bellagio Rd, Los Angeles



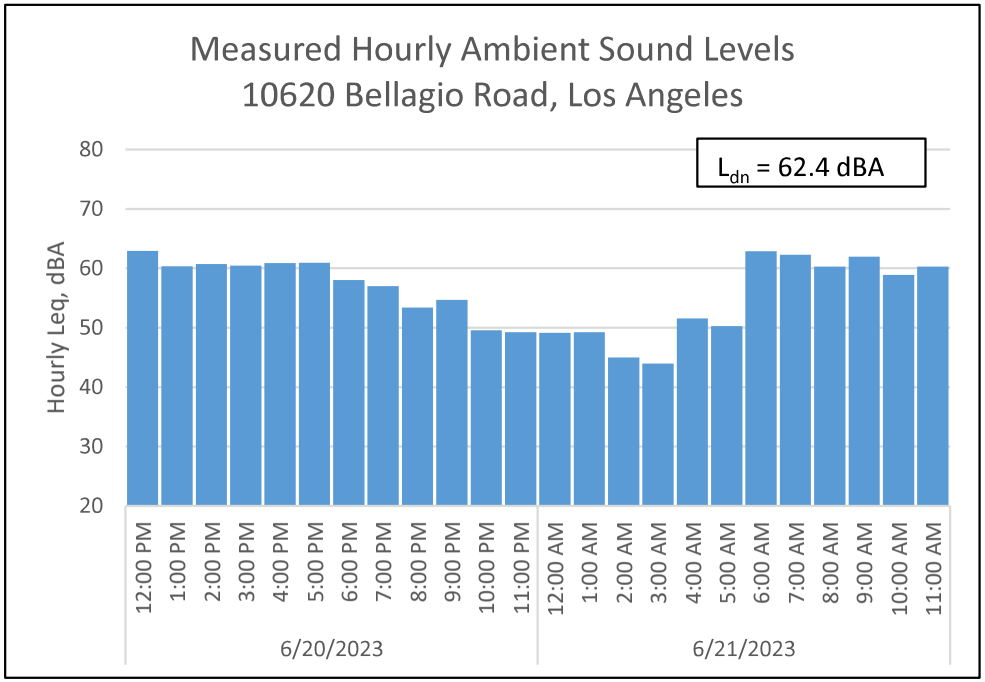
Looking East

Looking Northeast

Looking Southeast

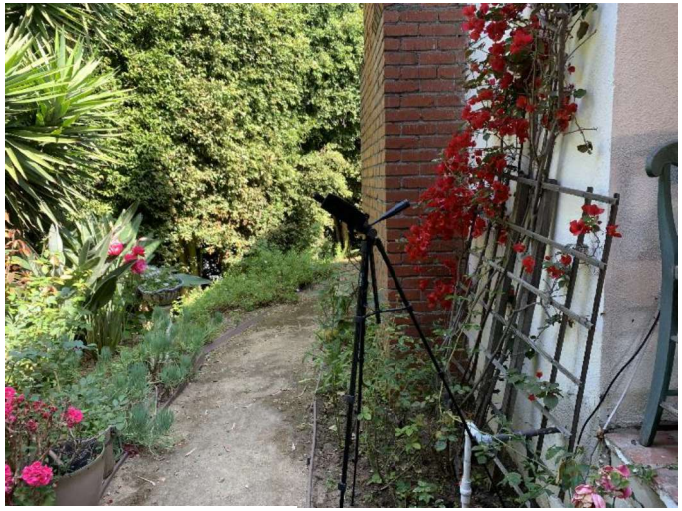
Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/20/2023	12:00 PM	62.9
	1:00 PM	60.3
	2:00 PM	60.7
	3:00 PM	60.5
	4:00 PM	60.9
	5:00 PM	61.0
	6:00 PM	58.0
	7:00 PM	57.0
	8:00 PM	53.4
	9:00 PM	54.7
	10:00 PM	49.6
	11:00 PM	49.2
6/21/2023	12:00 AM	49.1
	1:00 AM	49.2
	2:00 AM	45.0
	3:00 AM	44.0
	4:00 AM	51.6
	5:00 AM	50.3
	6:00 AM	62.9
	7:00 AM	62.3
	8:00 AM	60.3
	9:00 AM	62.0
	10:00 AM	58.9
	11:00 AM	60.3



Noise Measurement Photographs at Site 20 – 11420 Thurston Cir, Los Angeles

Looking Northeast

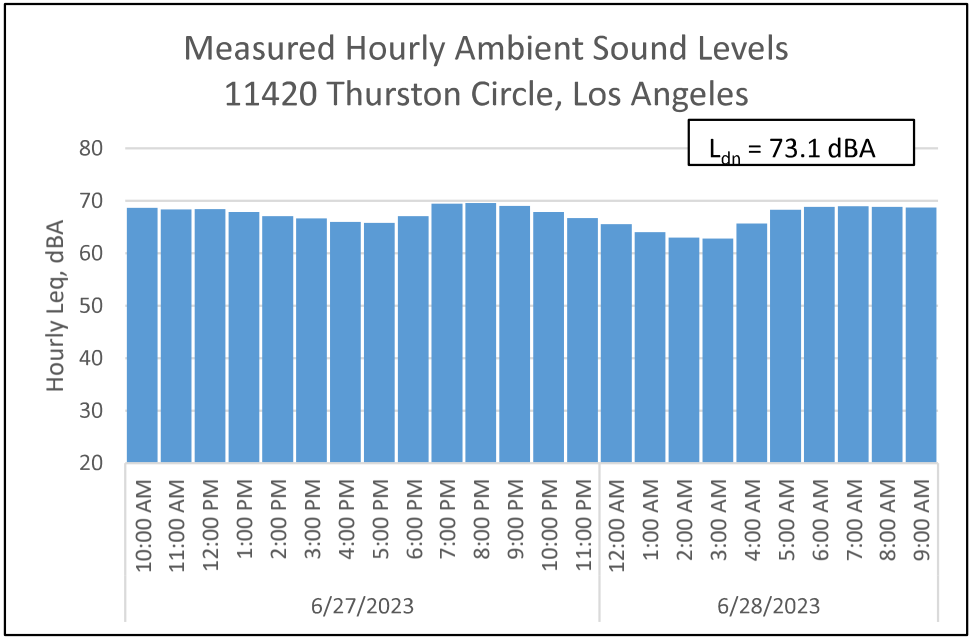


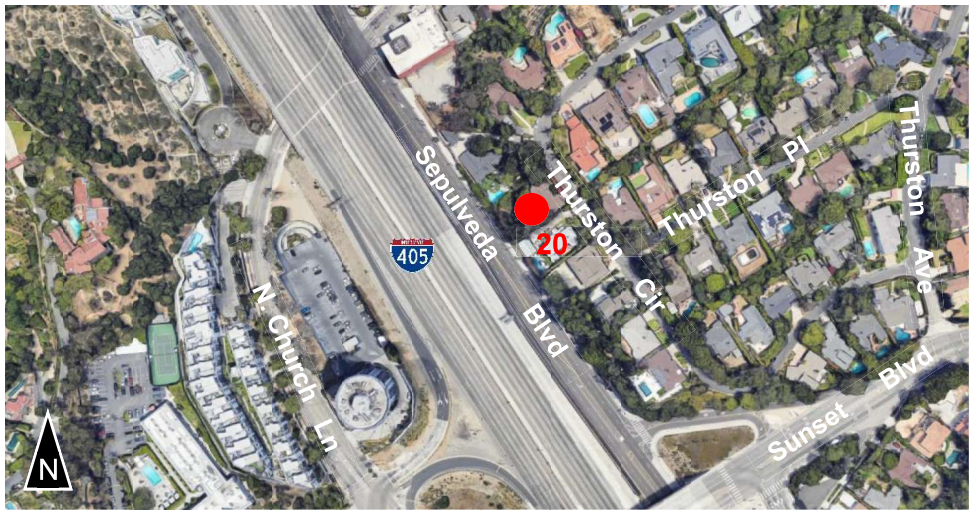
Looking Northwest

Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/27/2023	10:00 AM	68.7
	11:00 AM	68.4
	12:00 PM	68.4
	1:00 PM	67.9
	2:00 PM	67.1
	3:00 PM	66.6
	4:00 PM	66.0
	5:00 PM	65.8
	6:00 PM	67.1
	7:00 PM	69.5
	8:00 PM	69.6
	9:00 PM	69.1
	10:00 PM	67.9
	11:00 PM	66.7
6/28/2023	12:00 AM	65.6
	1:00 AM	64.0
	2:00 AM	63.0
	3:00 AM	62.8
	4:00 AM	65.7
	5:00 AM	68.3
	6:00 AM	68.9
	7:00 AM	69.0
	8:00 AM	68.9
	9:00 AM	68.7





Noise Measurement Photographs at Site 21 – Hotel Angeleno, 170 N. Church Ln, Los Angeles

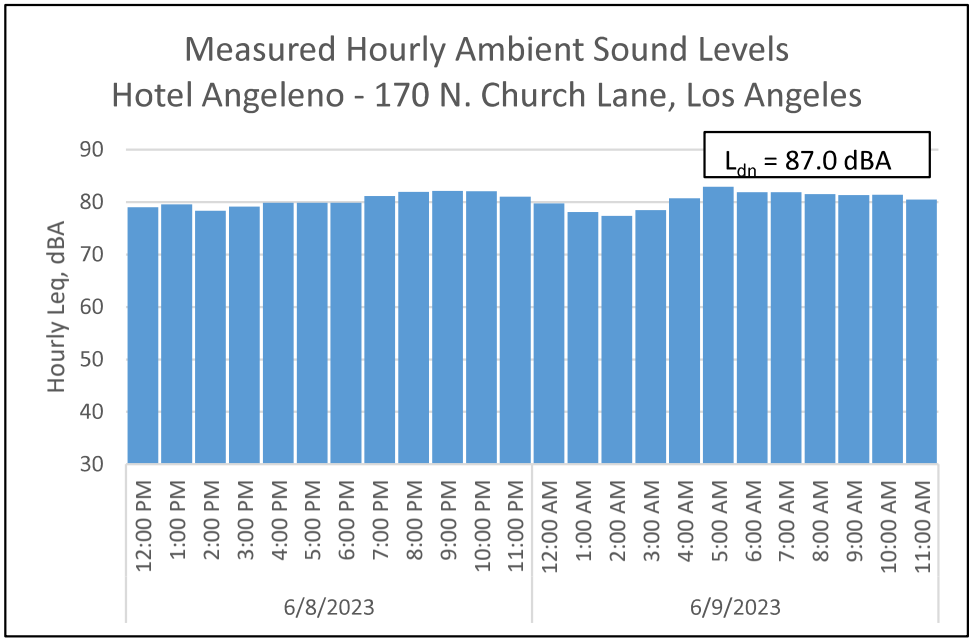
Looking Northeast

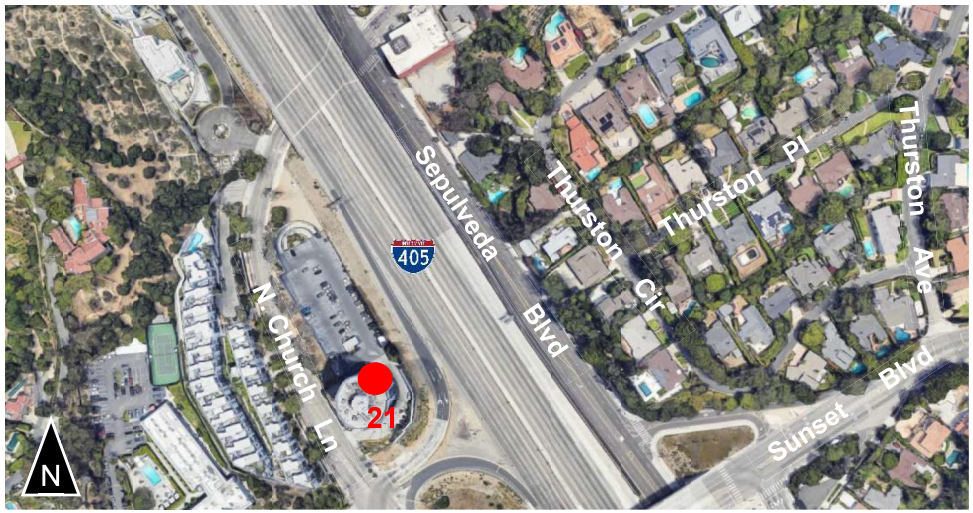
Looking Northwest

Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/8/2023	12:00 PM	79.0
	1:00 PM	79.6
	2:00 PM	78.3
	3:00 PM	79.1
	4:00 PM	79.9
	5:00 PM	79.9
	6:00 PM	79.9
	7:00 PM	81.1
	8:00 PM	81.9
	9:00 PM	82.1
	10:00 PM	82.1
	11:00 PM	81.1
6/9/2023	12:00 AM	79.7
	1:00 AM	78.1
	2:00 AM	77.4
	3:00 AM	78.4
	4:00 AM	80.7
	5:00 AM	82.9
	6:00 AM	81.9
	7:00 AM	81.9
	8:00 AM	81.5
	9:00 AM	81.3
	10:00 AM	81.4
	11:00 AM	80.5

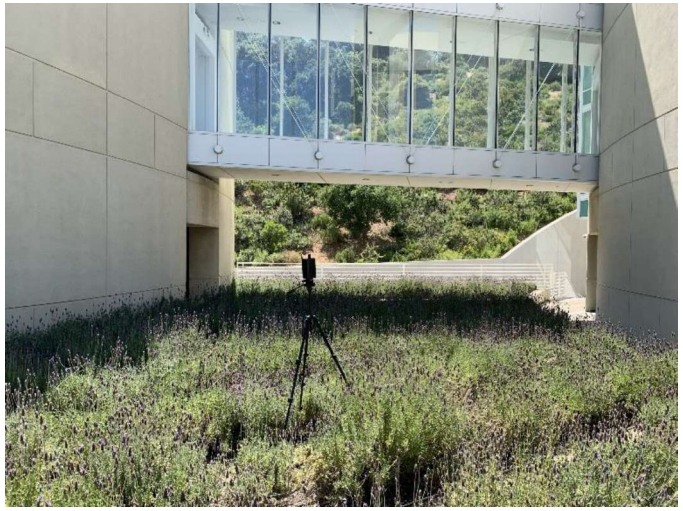




Noise Measurement Photographs at Site 22 – Getty Center South Building, 199 N. Church Ln, Los Angeles

Looking Northeast

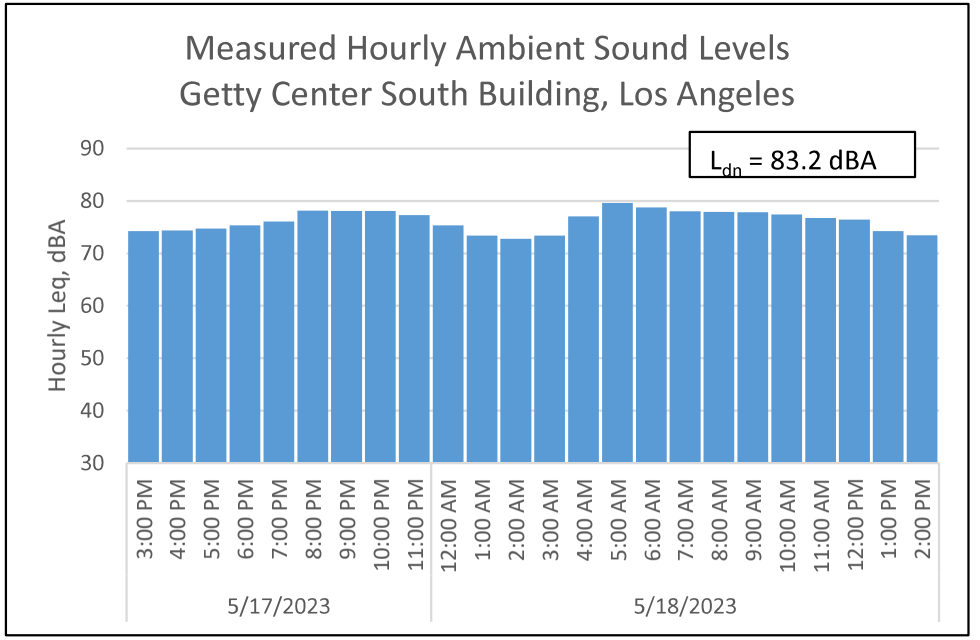
Looking Northwest

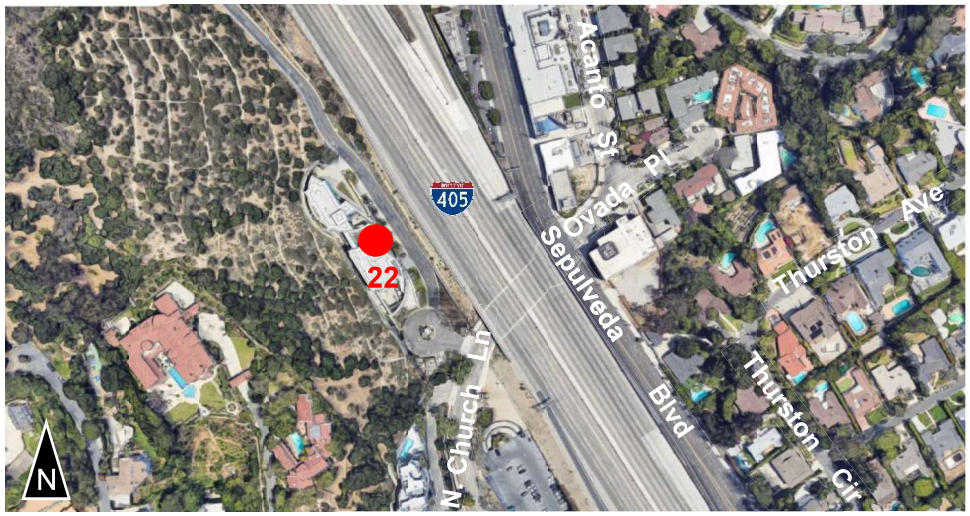


Looking Southwest

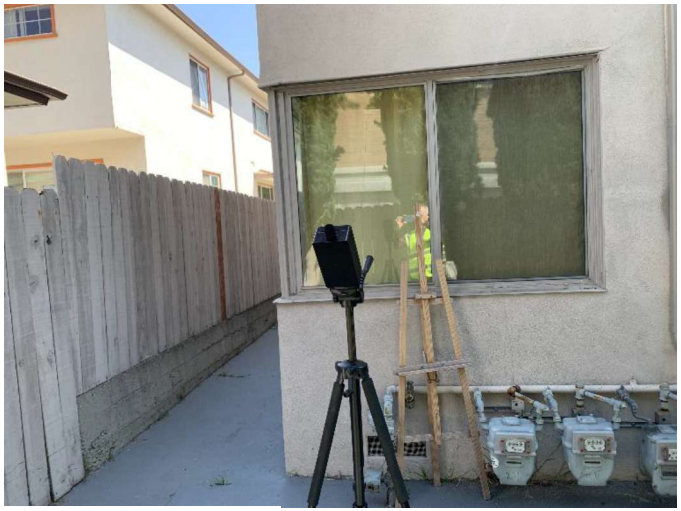
Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/17/2023	3:00 PM	74.3
	4:00 PM	74.4
	5:00 PM	74.7
	6:00 PM	75.3
	7:00 PM	76.1
	8:00 PM	78.1
	9:00 PM	78.1
	10:00 PM	78.1
	11:00 PM	77.3
5/18/2023	12:00 AM	75.3
	1:00 AM	73.4
	2:00 AM	72.8
	3:00 AM	73.4
	4:00 AM	77.0
	5:00 AM	79.6
	6:00 AM	78.7
	7:00 AM	78.0
	8:00 AM	77.9
	9:00 AM	77.8
	10:00 AM	77.4
	11:00 AM	76.7
	12:00 PM	76.4
	1:00 PM	74.2
	2:00 PM	73.4





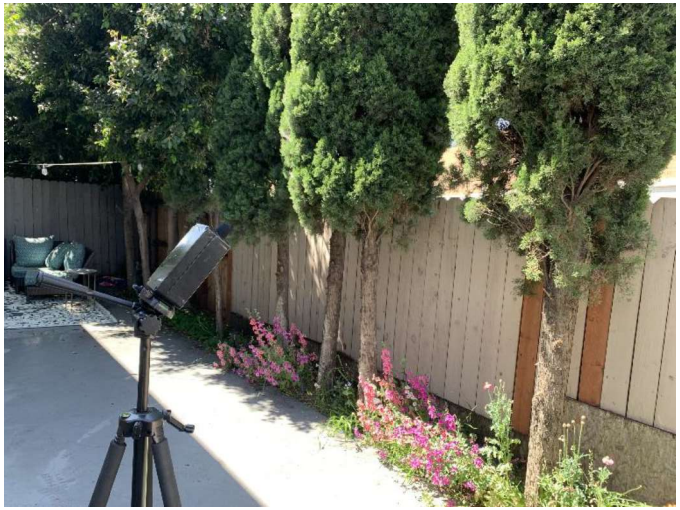
Noise Measurement Photographs at Site 23 – 11720 Bellagio Rd, Los Angeles



Looking Northeast

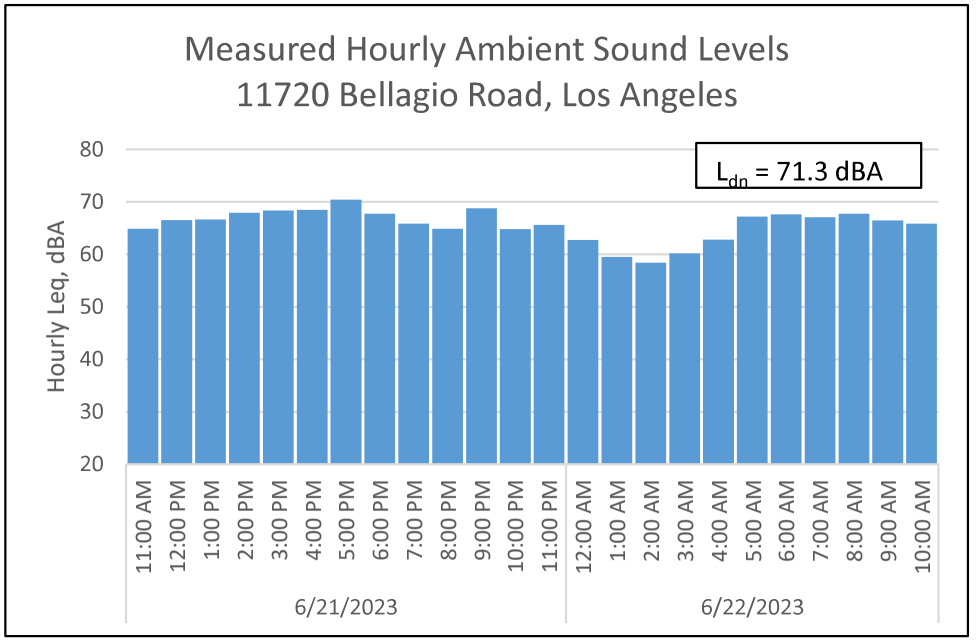
Looking Northwest

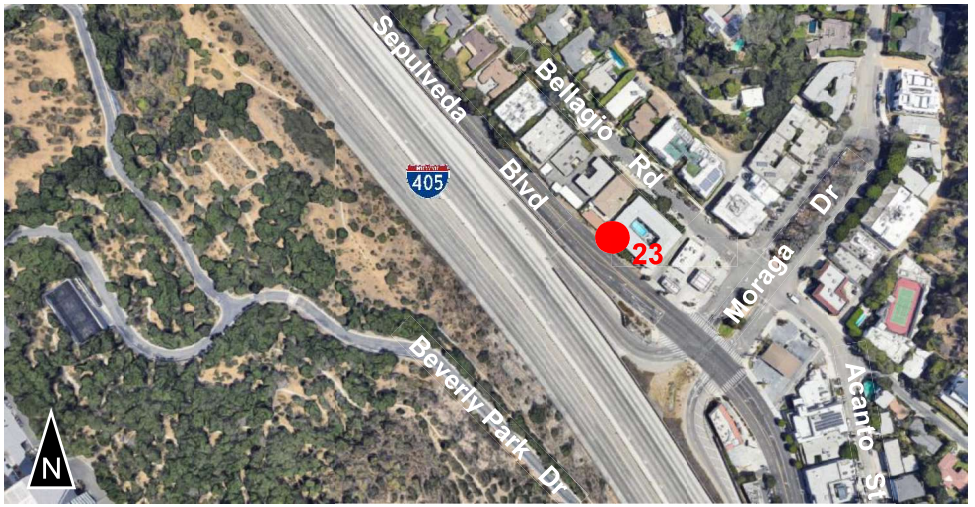
Looking Southwest



Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/21/2023	11:00 AM	64.9
	12:00 PM	66.6
	1:00 PM	66.7
	2:00 PM	67.9
	3:00 PM	68.4
	4:00 PM	68.5
	5:00 PM	70.4
	6:00 PM	67.8
	7:00 PM	65.9
	8:00 PM	64.9
	9:00 PM	68.8
	10:00 PM	64.8
	11:00 PM	65.6
6/22/2023	12:00 AM	62.7
	1:00 AM	59.5
	2:00 AM	58.4
	3:00 AM	60.2
	4:00 AM	62.8
	5:00 AM	67.2
	6:00 AM	67.6
	7:00 AM	67.1
	8:00 AM	67.8
	9:00 AM	66.5
	10:00 AM	65.9





Noise Measurement Photographs at Site 24 – 11812 Bellagio Rd, Los Angeles

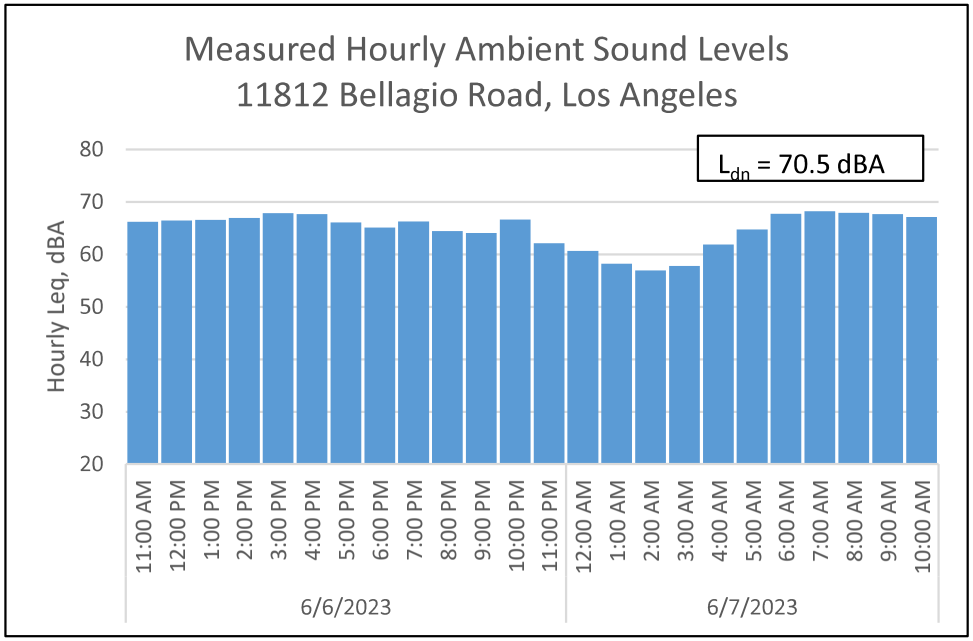
Looking Northeast

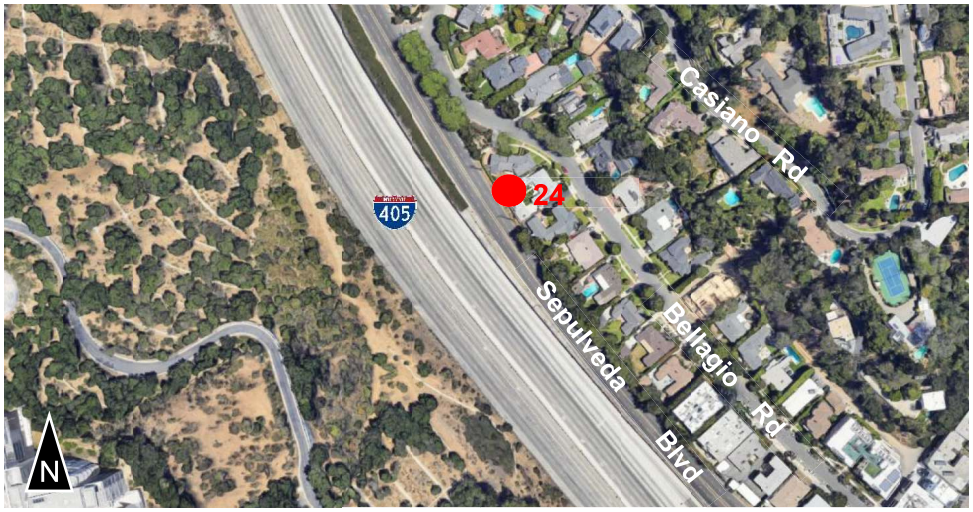
Looking Northwest

Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/6/2023	11:00 AM	66.2
	12:00 PM	66.4
	1:00 PM	66.6
	2:00 PM	66.9
	3:00 PM	67.9
	4:00 PM	67.7
	5:00 PM	66.1
	6:00 PM	65.1
	7:00 PM	66.3
	8:00 PM	64.5
	9:00 PM	64.1
	10:00 PM	66.7
	11:00 PM	62.1
6/7/2023	12:00 AM	60.6
	1:00 AM	58.2
	2:00 AM	56.9
	3:00 AM	57.8
	4:00 AM	61.9
	5:00 AM	64.7
	6:00 AM	67.7
	7:00 AM	68.2
	8:00 AM	67.9
	9:00 AM	67.7
	10:00 AM	67.1





Noise Measurement Photographs at Site 25 – Leonard I. Beeman Early Childhood Center, 1300 N Sepulveda Blvd, Los Angeles

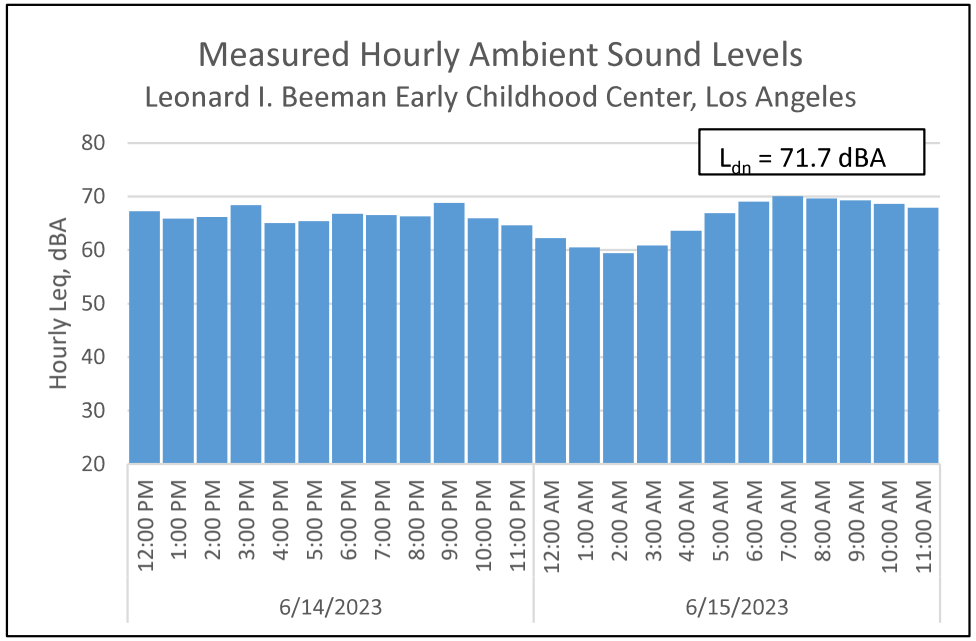
Looking Northeast

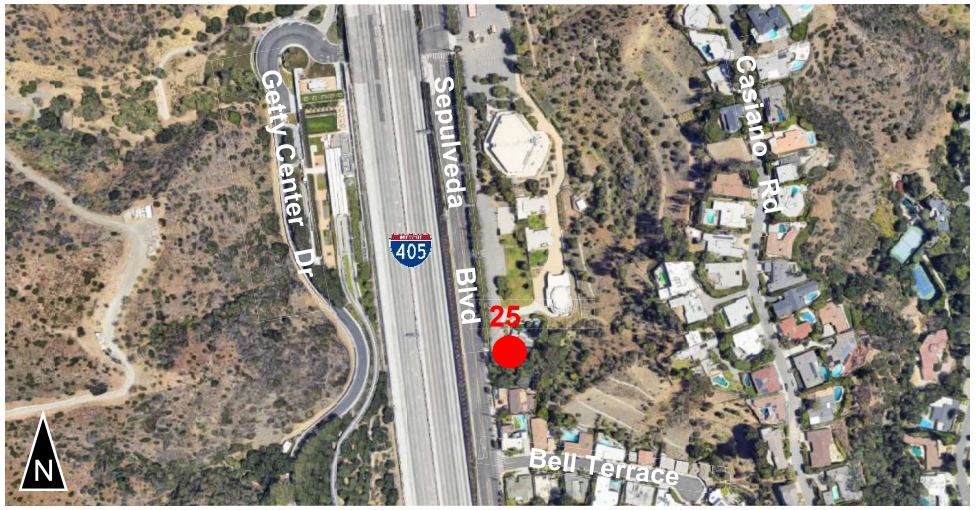
Looking Northwest

Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/14/2023	12:00 PM	67.3
	1:00 PM	65.9
	2:00 PM	66.2
	3:00 PM	68.4
	4:00 PM	65.0
	5:00 PM	65.4
	6:00 PM	66.7
	7:00 PM	66.5
	8:00 PM	66.3
	9:00 PM	68.8
	10:00 PM	65.9
	11:00 PM	64.6
6/15/2023	12:00 AM	62.2
	1:00 AM	60.5
	2:00 AM	59.4
	3:00 AM	60.8
	4:00 AM	63.6
	5:00 AM	66.9
	6:00 AM	69.0
	7:00 AM	70.0
	8:00 AM	69.7
	9:00 AM	69.3
	10:00 AM	68.6
	11:00 AM	67.9





Noise Measurement Photographs at Site 26 – 1399 Casiano Rd, Los Angeles

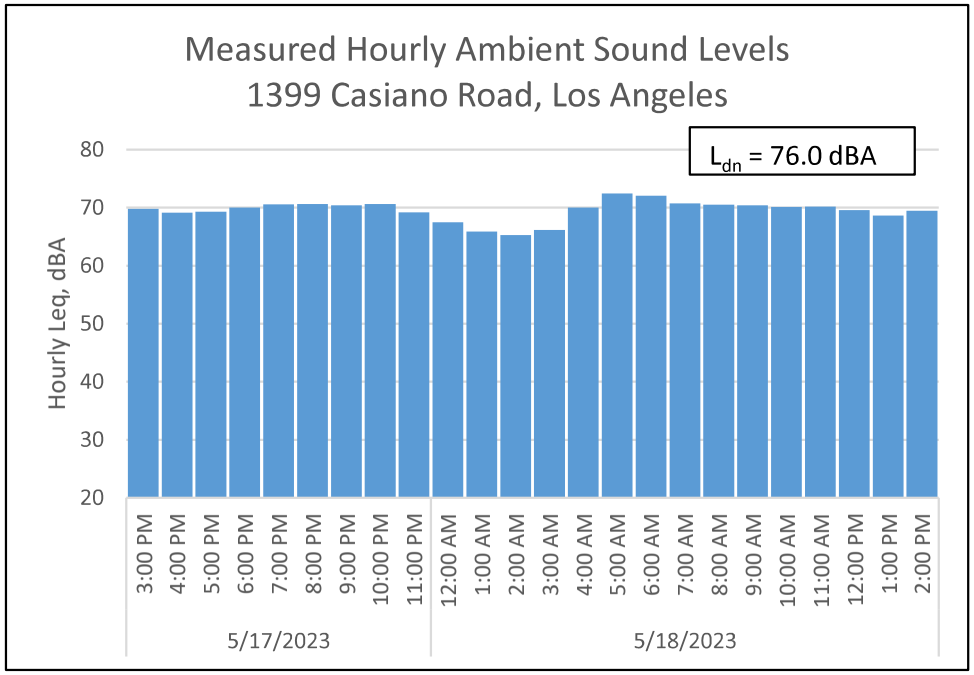
Looking Northeast

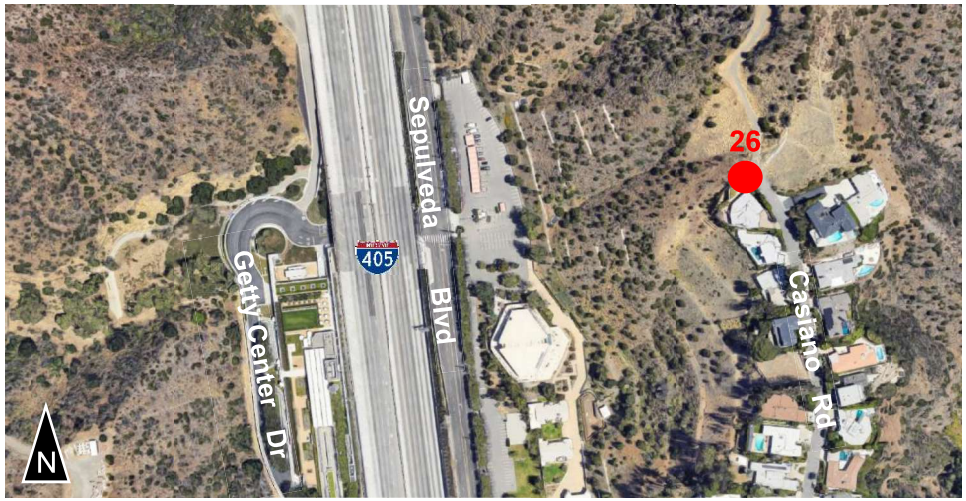
Looking Northwest

Looking Southwest

Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/17/2023	3:00 PM	69.8
	4:00 PM	69.1
	5:00 PM	69.3
	6:00 PM	70.0
	7:00 PM	70.6
	8:00 PM	70.6
	9:00 PM	70.4
	10:00 PM	70.6
	11:00 PM	69.2
5/18/2023	12:00 AM	67.5
	1:00 AM	65.9
	2:00 AM	65.3
	3:00 AM	66.2
	4:00 AM	70.0
	5:00 AM	72.4
	6:00 AM	72.1
	7:00 AM	70.7
	8:00 AM	70.5
	9:00 AM	70.4
	10:00 AM	70.1
	11:00 AM	70.2
	12:00 PM	69.6
	1:00 PM	68.7
	2:00 PM	69.5





Noise Measurement Photographs at Site 30 – 10635 Levico Way, Los Angeles

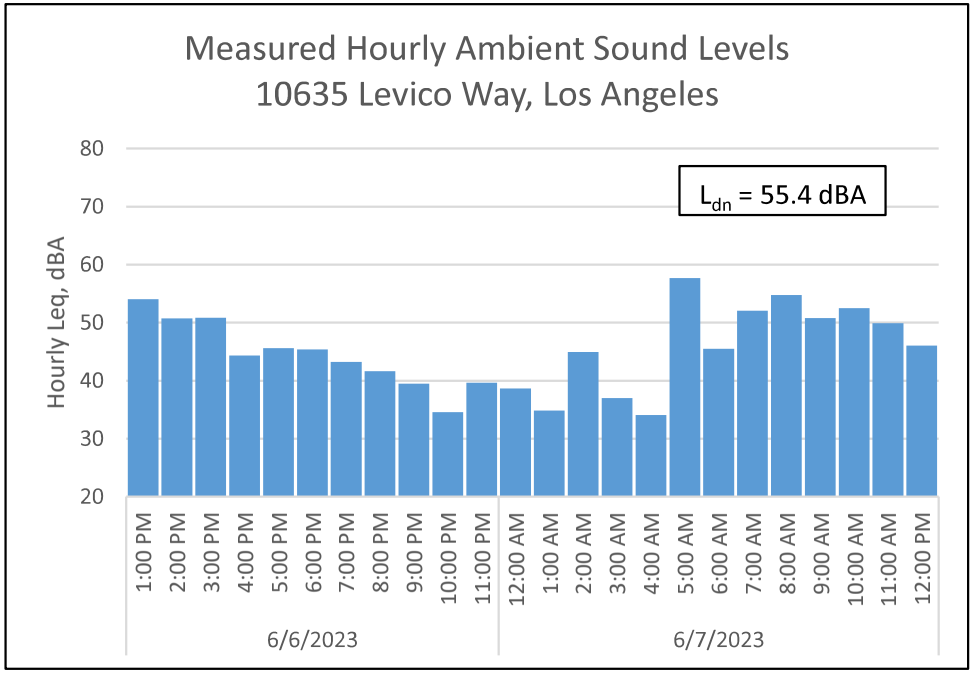
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/6/2023	1:00 PM	54.1
	2:00 PM	50.7
	3:00 PM	50.9
	4:00 PM	44.3
	5:00 PM	45.6
	6:00 PM	45.4
	7:00 PM	43.3
	8:00 PM	41.6
	9:00 PM	39.5
	10:00 PM	34.6
	11:00 PM	39.7
6/7/2023	12:00 AM	38.7
	1:00 AM	34.8
	2:00 AM	44.9
	3:00 AM	37.0
	4:00 AM	34.1
	5:00 AM	57.7
	6:00 AM	45.5
	7:00 AM	52.1
	8:00 AM	54.7
	9:00 AM	50.8
	10:00 AM	52.5
	11:00 AM	49.9
	12:00 PM	46.1



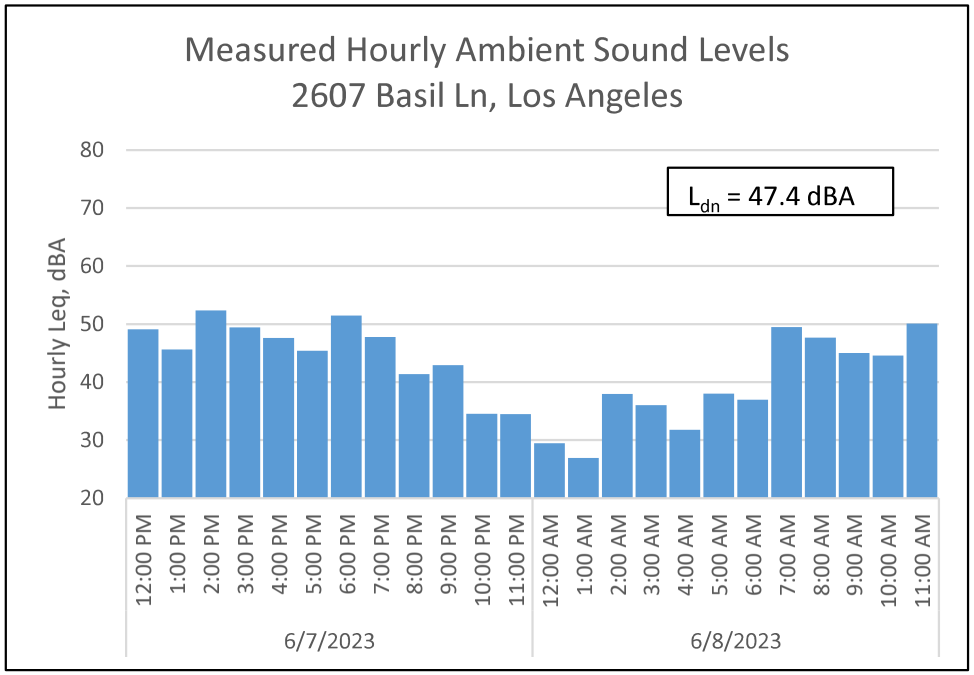
Noise Measurement Photographs at Site 31 – 2607 Basil Ln, Los Angeles

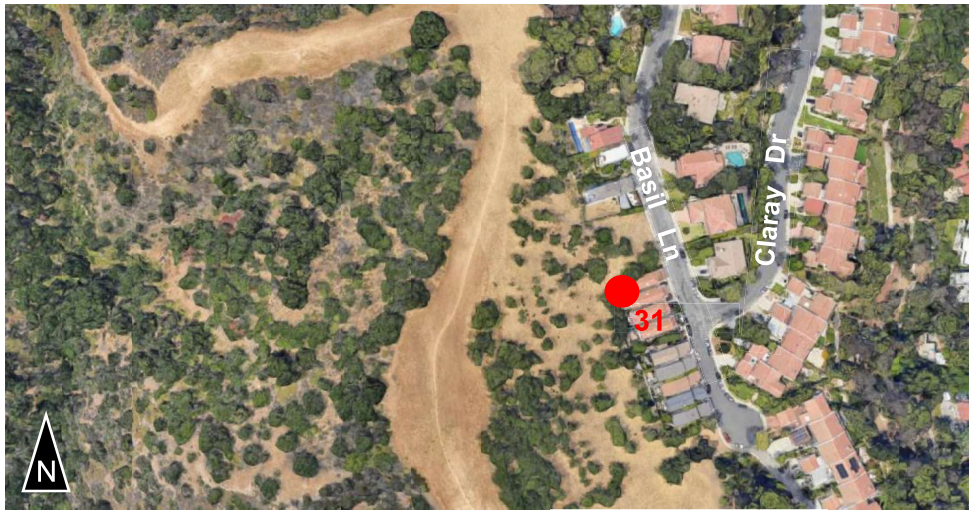
Looking East

Looking South

Looking West

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/7/2023	12:00 PM	49.1
	1:00 PM	45.6
	2:00 PM	52.3
	3:00 PM	49.4
	4:00 PM	47.6
	5:00 PM	45.4
	6:00 PM	51.5
	7:00 PM	47.8
	8:00 PM	41.4
	9:00 PM	42.9
	10:00 PM	34.6
	11:00 PM	34.5
6/8/2023	12:00 AM	29.5
	1:00 AM	26.9
	2:00 AM	38.0
	3:00 AM	36.0
	4:00 AM	31.8
	5:00 AM	38.0
	6:00 AM	37.0
	7:00 AM	49.5
	8:00 AM	47.6
	9:00 AM	45.0
	10:00 AM	44.6
	11:00 AM	50.1





Noise Measurement Photographs at Site 32 – 2341 Donella Cir, Los Angeles

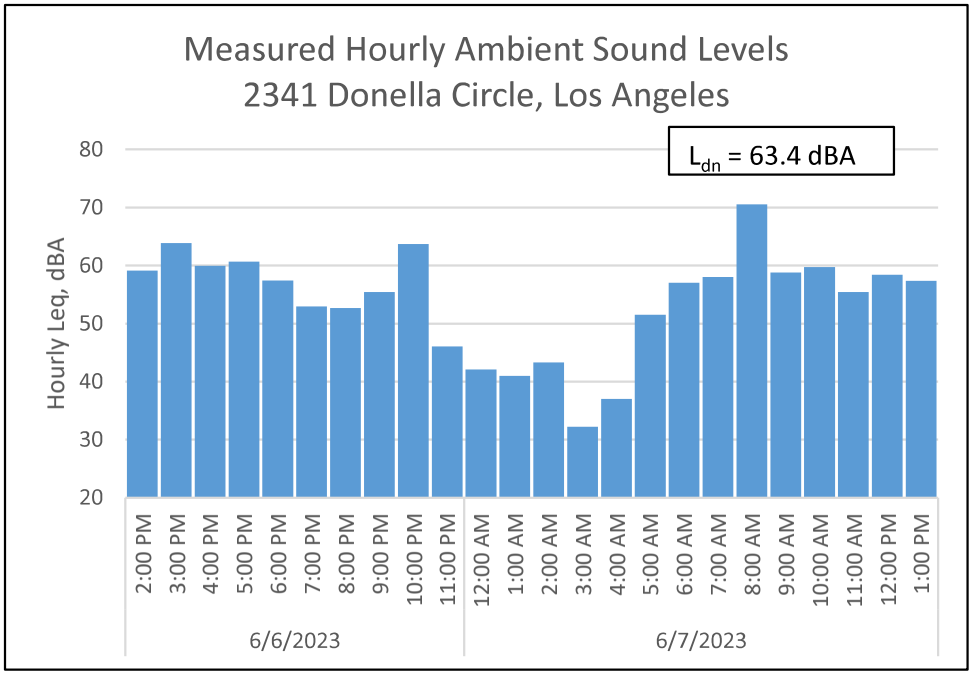
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/6/2023	2:00 PM	59.1
	3:00 PM	63.9
	4:00 PM	59.9
	5:00 PM	60.7
	6:00 PM	57.4
	7:00 PM	52.9
	8:00 PM	52.7
	9:00 PM	55.5
	10:00 PM	63.7
6/7/2023	11:00 PM	46.1
	12:00 AM	42.1
	1:00 AM	41.0
	2:00 AM	43.3
	3:00 AM	32.2
	4:00 AM	37.0
	5:00 AM	51.5
	6:00 AM	57.0
	7:00 AM	58.0
	8:00 AM	70.5
	9:00 AM	58.8
	10:00 AM	59.7
	11:00 AM	55.4
	12:00 PM	58.4
	1:00 PM	57.3



Noise Measurement Photographs at Site 37 – 3490 Vista Haven Rd, Sherman Oaks

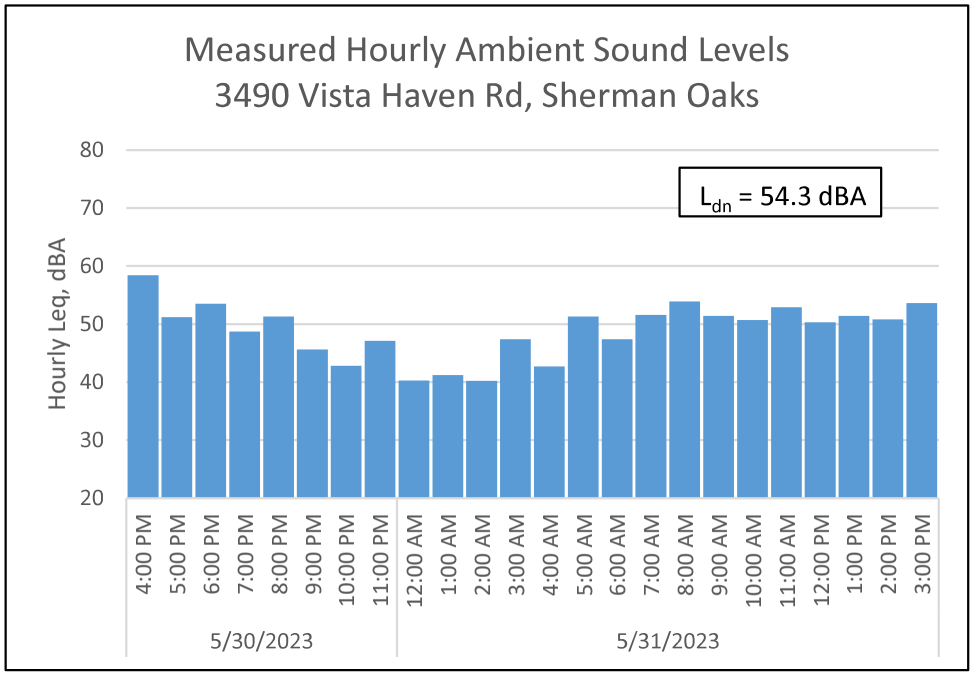
Looking East

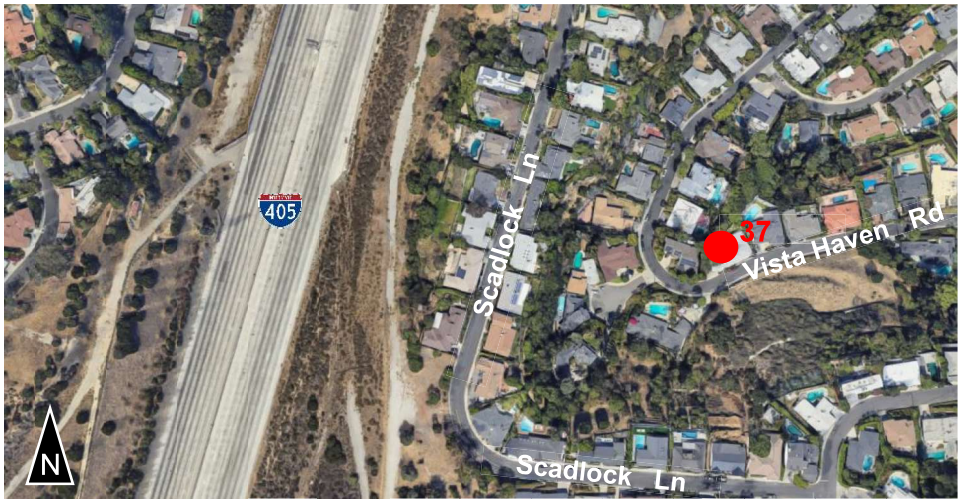
Looking North

Looking West

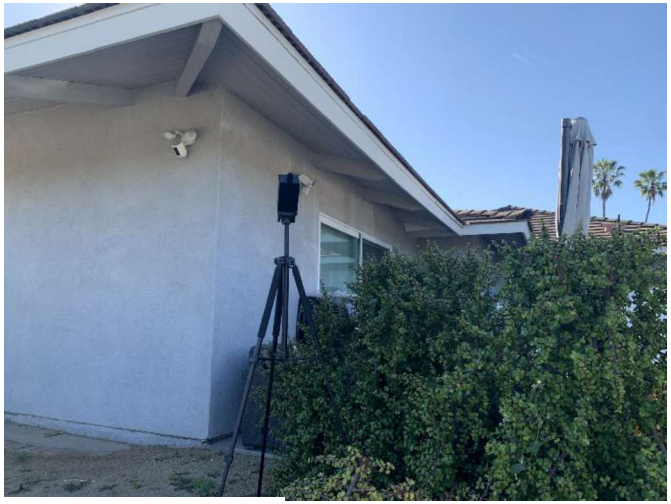
Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/30/2023	4:00 PM	58.4
	5:00 PM	51.2
	6:00 PM	53.5
	7:00 PM	48.7
	8:00 PM	51.3
	9:00 PM	45.6
	10:00 PM	42.8
	11:00 PM	47.1
5/31/2023	12:00 AM	40.3
	1:00 AM	41.2
	2:00 AM	40.2
	3:00 AM	47.4
	4:00 AM	42.7
	5:00 AM	51.3
	6:00 AM	47.4
	7:00 AM	51.6
	8:00 AM	53.9
	9:00 AM	51.4
	10:00 AM	50.7
	11:00 AM	52.9
	12:00 PM	50.3
	1:00 PM	51.4
	2:00 PM	50.8
	3:00 PM	53.6





Noise Measurement Photographs at Site 38 – 15460 Briarwood Dr, Sherman Oaks



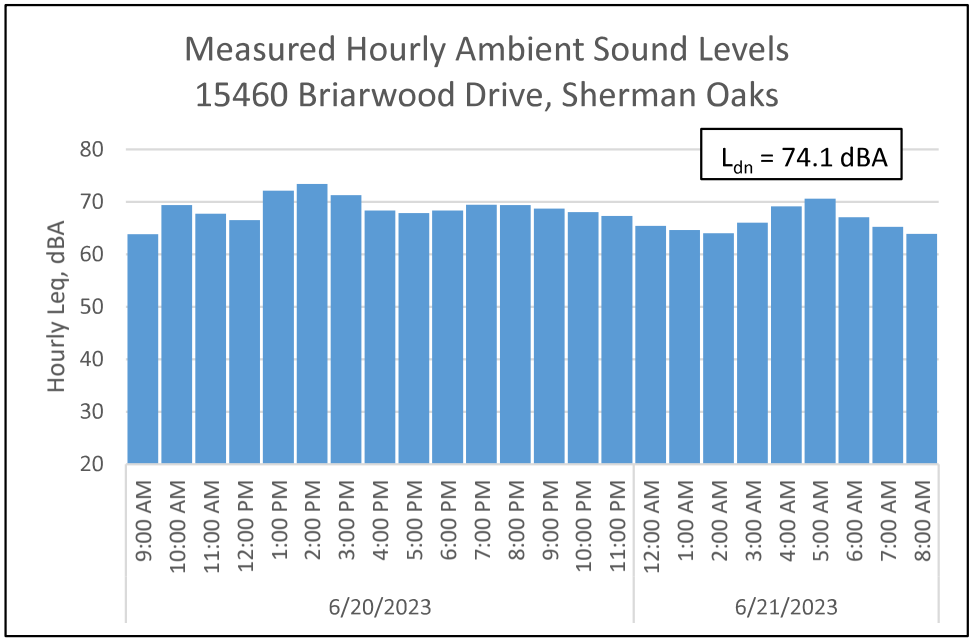
Looking East

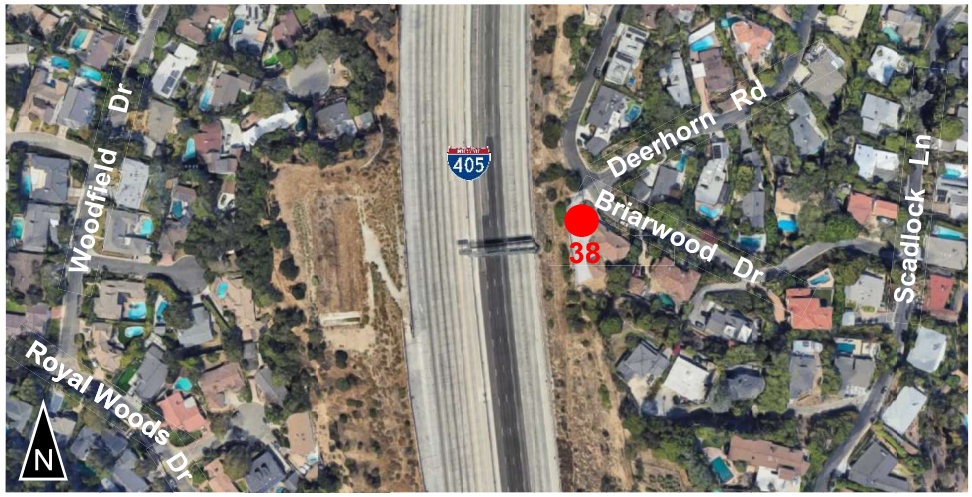
Looking North

Looking West

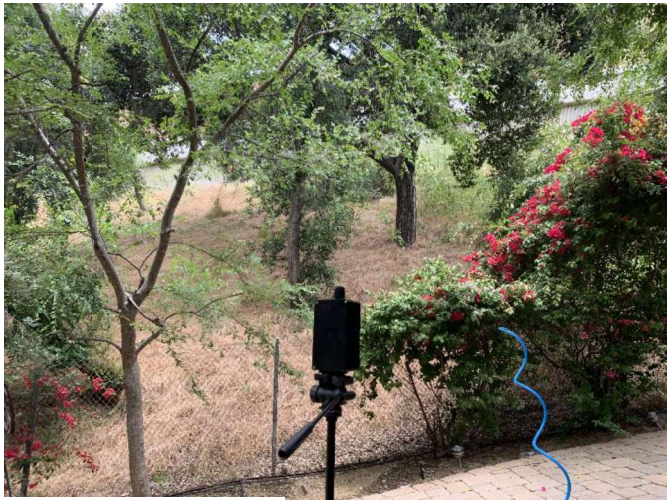
Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/20/2023	9:00 AM	63.9
	10:00 AM	69.4
	11:00 AM	67.8
	12:00 PM	66.5
	1:00 PM	72.2
	2:00 PM	73.4
	3:00 PM	71.3
	4:00 PM	68.4
	5:00 PM	67.9
	6:00 PM	68.4
	7:00 PM	69.5
	8:00 PM	69.4
	9:00 PM	68.7
	10:00 PM	68.0
	11:00 PM	67.3
6/21/2023	12:00 AM	65.4
	1:00 AM	64.6
	2:00 AM	64.0
	3:00 AM	66.1
	4:00 AM	69.1
	5:00 AM	70.6
	6:00 AM	67.1
	7:00 AM	65.3
	8:00 AM	63.9

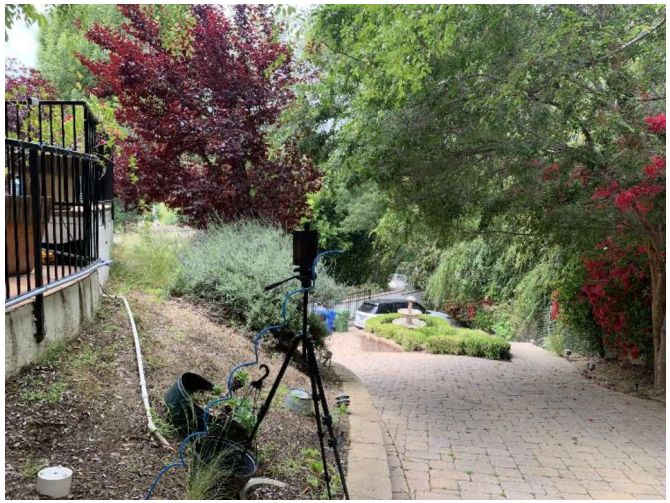




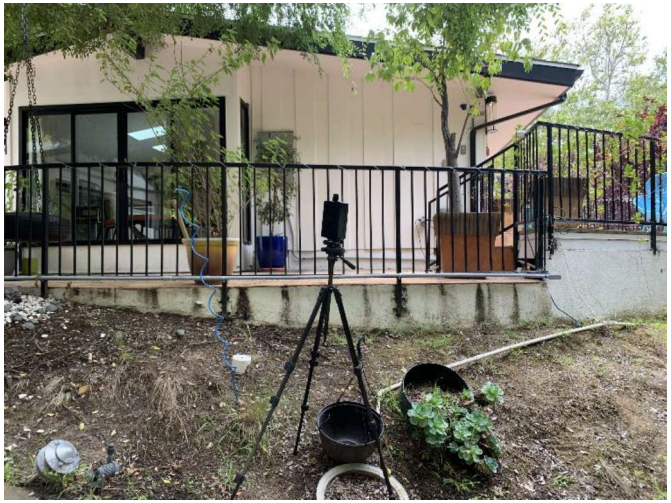
Noise Measurement Photographs at Site 39 – 15515 Woodcrest Dr, Sherman Oaks



Looking East



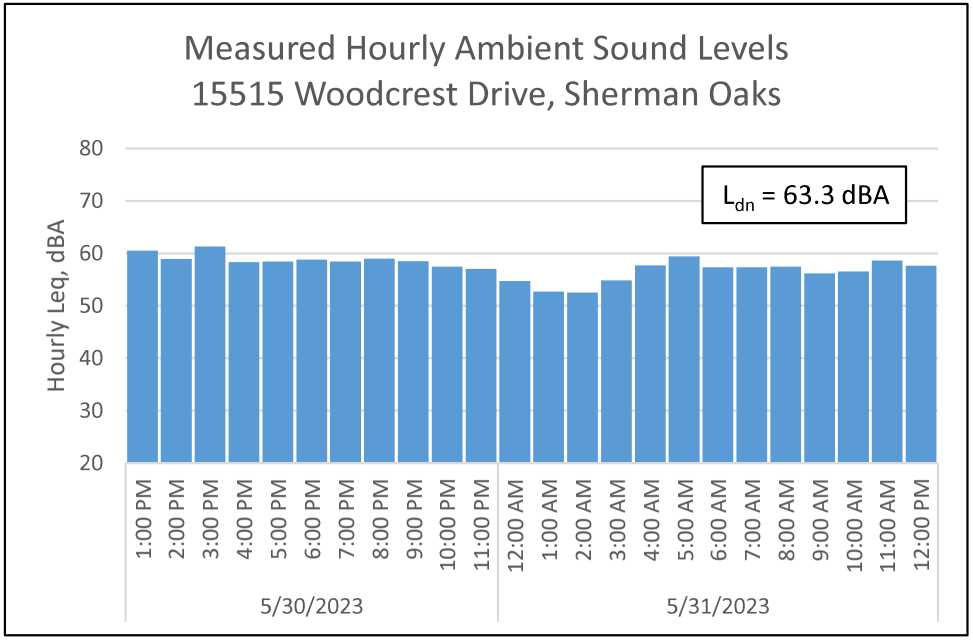
Looking North

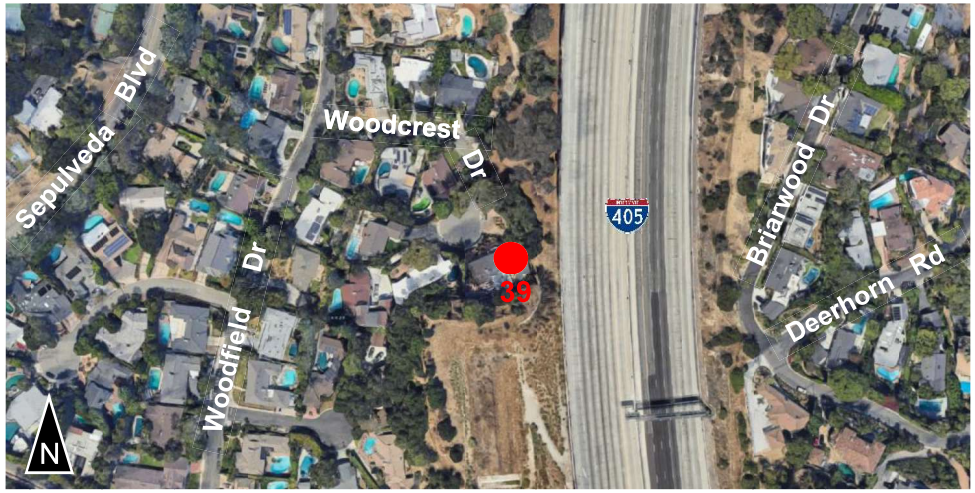


Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/30/2023	1:00 PM	60.5
	2:00 PM	59.0
	3:00 PM	61.3
	4:00 PM	58.3
	5:00 PM	58.5
	6:00 PM	58.8
	7:00 PM	58.4
	8:00 PM	59.0
	9:00 PM	58.5
	10:00 PM	57.5
	11:00 PM	57.0
5/31/2023	12:00 AM	54.7
	1:00 AM	52.7
	2:00 AM	52.5
	3:00 AM	54.8
	4:00 AM	57.7
	5:00 AM	59.4
	6:00 AM	57.3
	7:00 AM	57.4
	8:00 AM	57.5
	9:00 AM	56.2
	10:00 AM	56.5
	11:00 AM	58.6
	12:00 PM	57.7





Noise Measurement Photographs at Site 41 – 15371 Del Gado Dr, Sherman Oaks

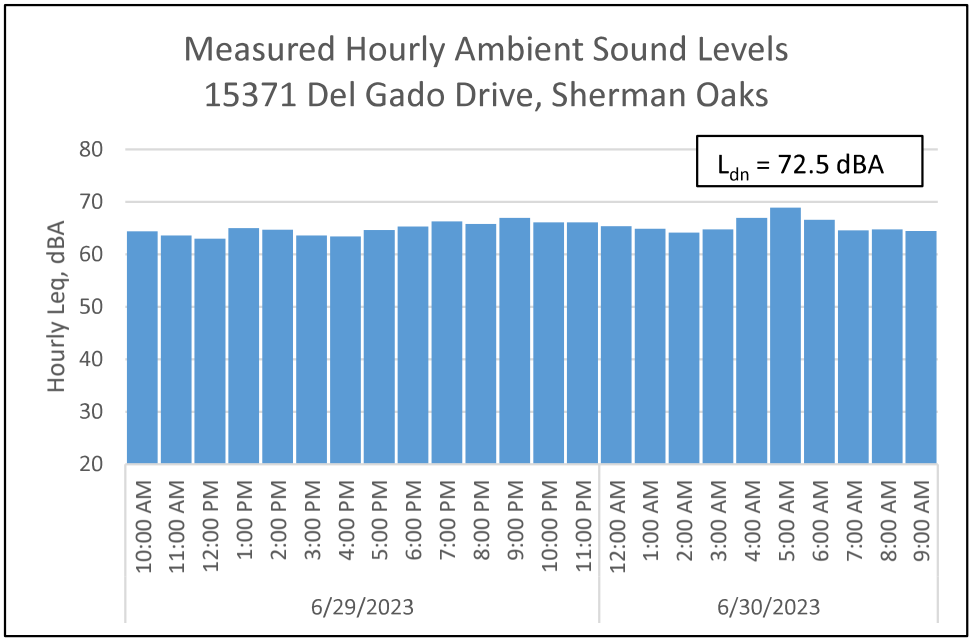
Looking East

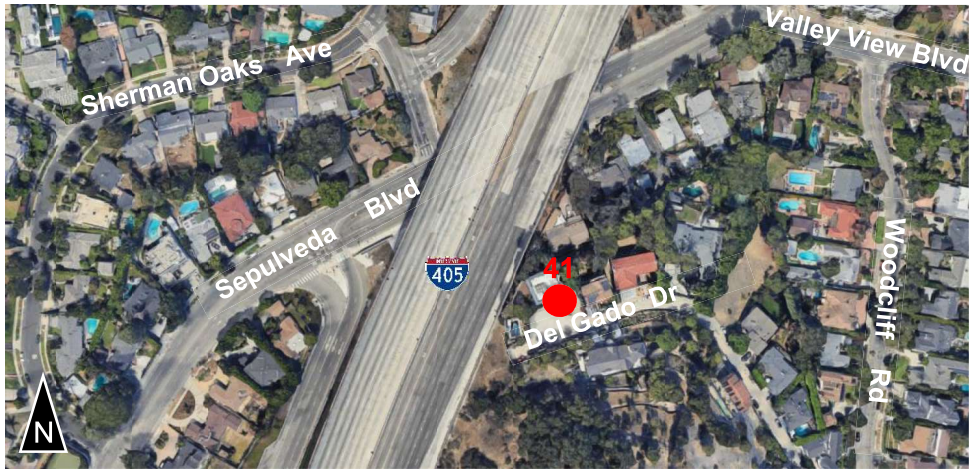
Looking North

Looking West

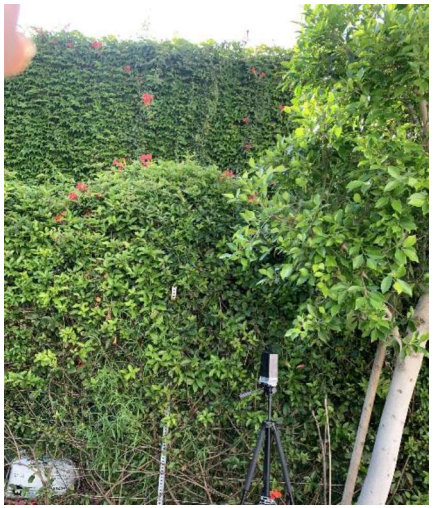
Looking Southeast

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/29/2023	10:00 AM	64.4
	11:00 AM	63.6
	12:00 PM	63.0
	1:00 PM	65.0
	2:00 PM	64.7
	3:00 PM	63.6
	4:00 PM	63.4
	5:00 PM	64.6
	6:00 PM	65.3
	7:00 PM	66.3
	8:00 PM	65.8
	9:00 PM	67.0
	10:00 PM	66.1
	11:00 PM	66.1
6/30/2023	12:00 AM	65.4
	1:00 AM	64.9
	2:00 AM	64.2
	3:00 AM	64.8
	4:00 AM	66.9
	5:00 AM	68.9
	6:00 AM	66.6
	7:00 AM	64.6
	8:00 AM	64.7
	9:00 AM	64.5

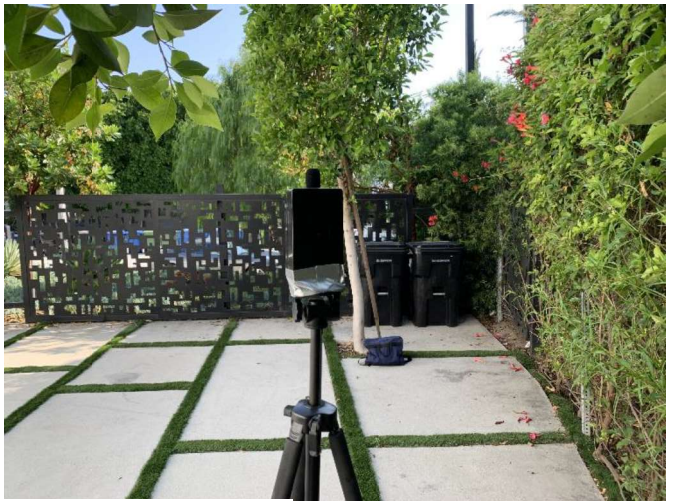




Noise Measurement Photographs at Site 42 – 15350 Sutton St, Sherman Oaks

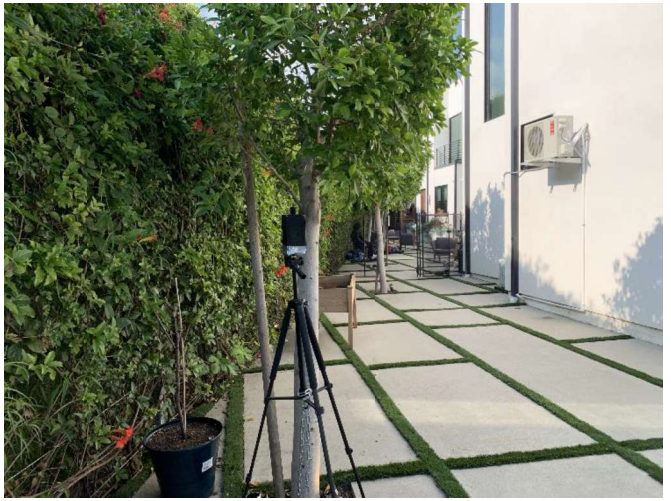


Looking East



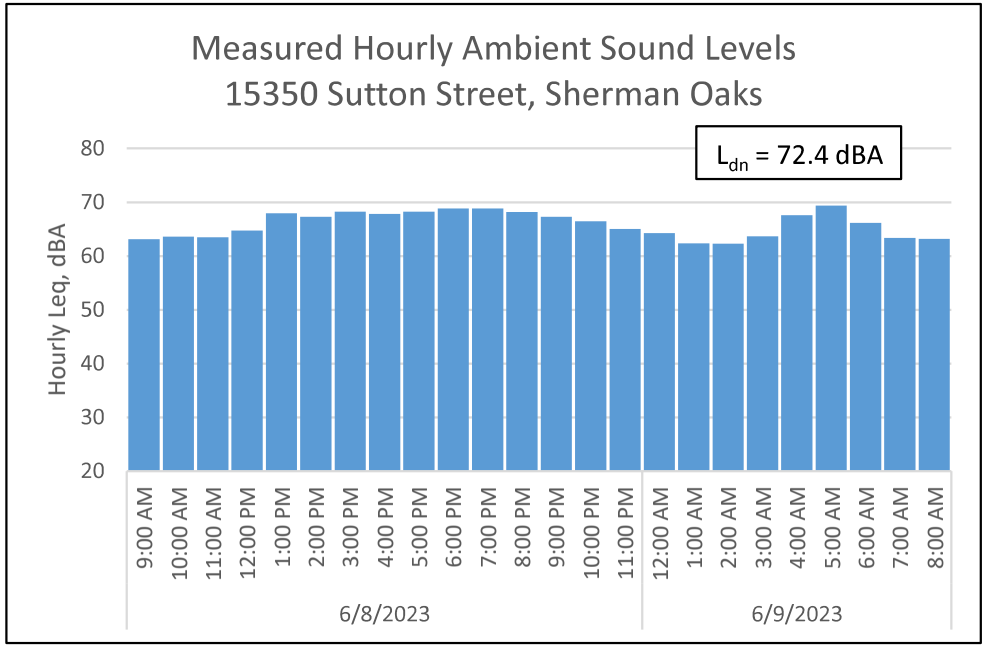
Looking North

Looking West



Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/8/2023	9:00 AM	63.1
	8:00 AM	63.6
	10:00 AM	63.5
	11:00 AM	64.7
	12:00 PM	67.9
	1:00 PM	67.3
	2:00 PM	68.3
	3:00 PM	67.9
	4:00 PM	68.3
	5:00 PM	68.8
	6:00 PM	68.9
	7:00 PM	68.2
	8:00 PM	67.3
	9:00 PM	66.4
	10:00 PM	65.0
	11:00 PM	64.3
6/9/2023	12:00 AM	62.4
	1:00 AM	62.3
	2:00 AM	63.7
	3:00 AM	67.6
	4:00 AM	69.3
	5:00 AM	66.1
	6:00 AM	63.4
	7:00 AM	63.2



Noise Measurement Photographs at Site 43 – 4440 Sepulveda Blvd, Sherman Oaks

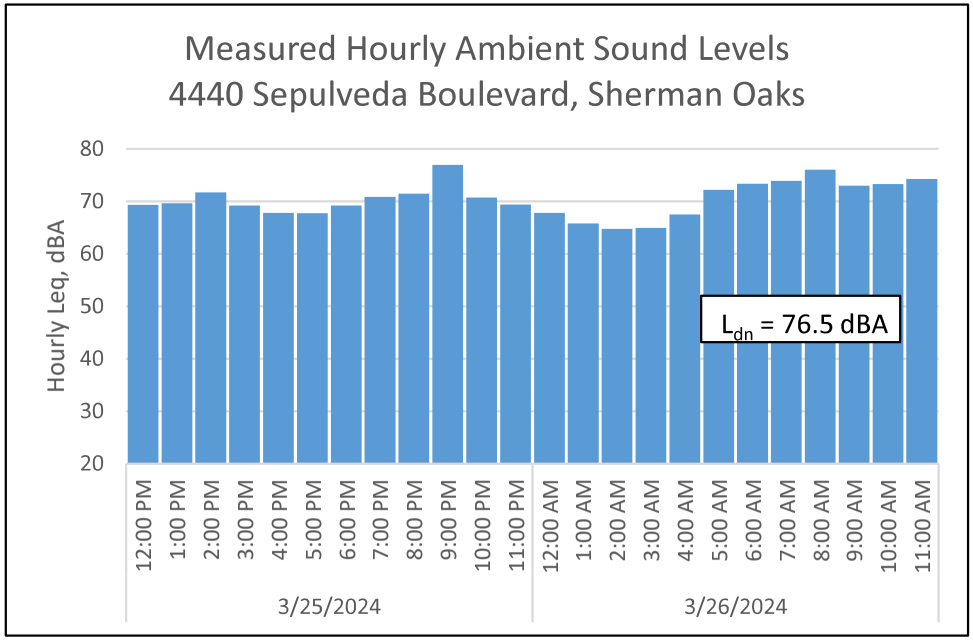
Looking East (from street level)

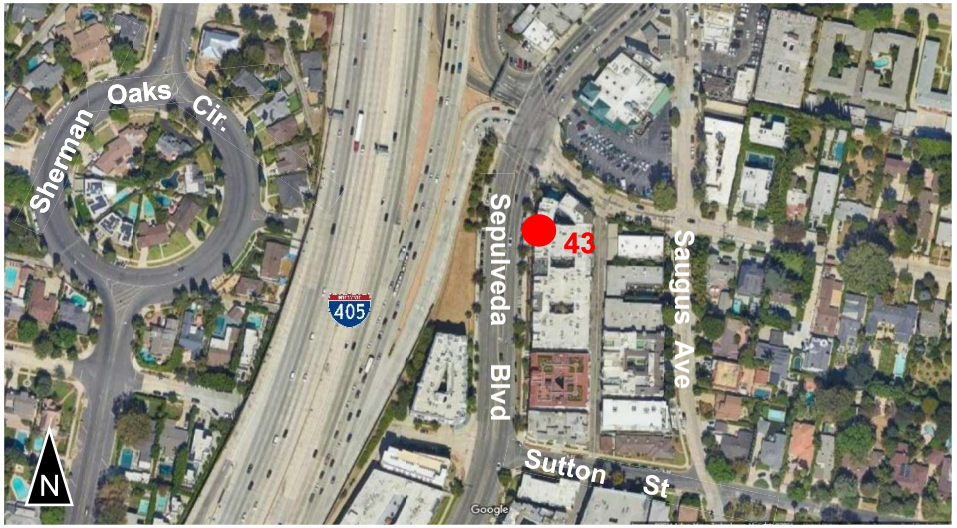
Looking North

Looking West

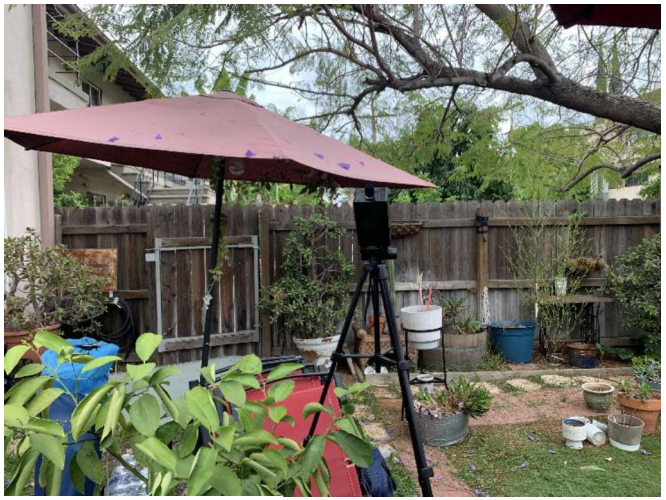
Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
3/25/2024	12:00 PM	69.3
	1:00 PM	69.6
	2:00 PM	71.7
	3:00 PM	69.2
	4:00 PM	67.8
	5:00 PM	67.8
	6:00 PM	69.2
	7:00 PM	70.9
	8:00 PM	71.5
	9:00 PM	77.0
	10:00 PM	70.7
	11:00 PM	69.4
3/26/2024	12:00 AM	67.8
	1:00 AM	65.8
	2:00 AM	64.8
	3:00 AM	65.0
	4:00 AM	67.5
	5:00 AM	72.2
	6:00 AM	73.3
	7:00 AM	73.9
	8:00 AM	76.0
	9:00 AM	73.0
	10:00 AM	73.3
	11:00 AM	74.2





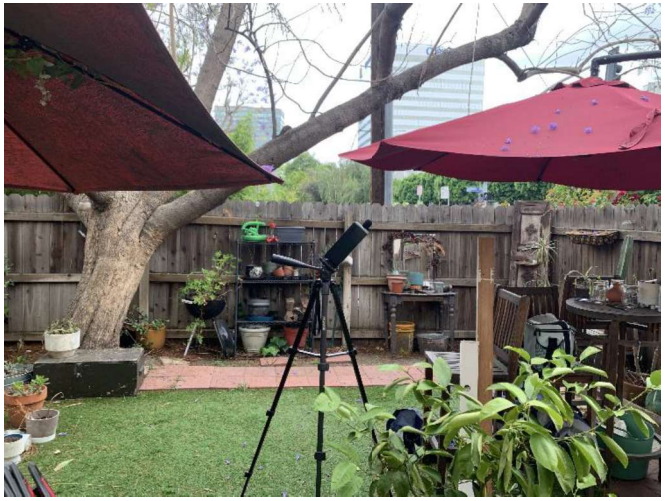
Noise Measurement Photographs at Site 44 – 4800 Sepulveda Blvd, Sherman Oaks



Looking East

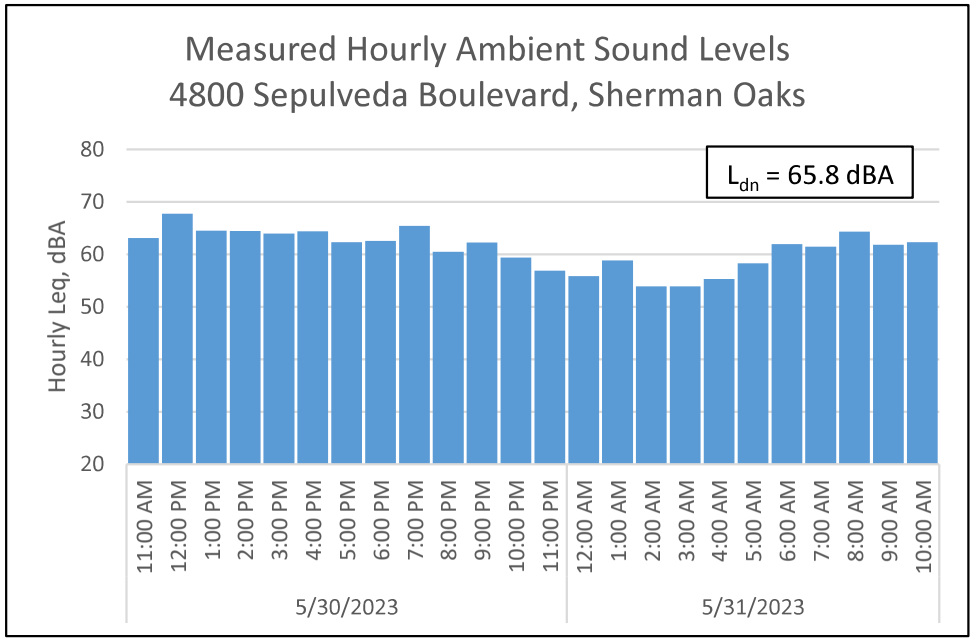
Looking North

Looking West



Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/30/2023	11:00 AM	63.1
	12:00 PM	67.8
	1:00 PM	64.5
	2:00 PM	64.5
	3:00 PM	63.9
	4:00 PM	64.4
	5:00 PM	62.3
	6:00 PM	62.6
	7:00 PM	65.4
	8:00 PM	60.5
	9:00 PM	62.2
	10:00 PM	59.4
	11:00 PM	56.9
5/31/2023	12:00 AM	55.9
	1:00 AM	58.9
	2:00 AM	53.9
	3:00 AM	53.9
	4:00 AM	55.3
	5:00 AM	58.3
	6:00 AM	62.0
	7:00 AM	61.4
	8:00 AM	64.3
	9:00 AM	61.8
	10:00 AM	62.4



Noise Measurement Photographs at Site 45 – 15233½ Valleyheart Dr, Sherman Oaks

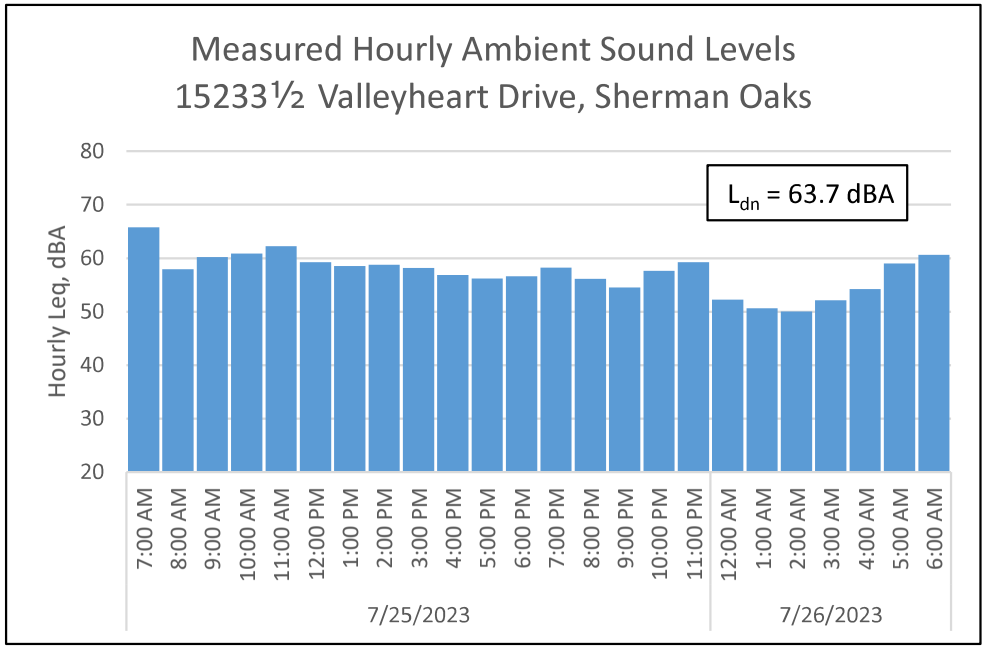
Looking East

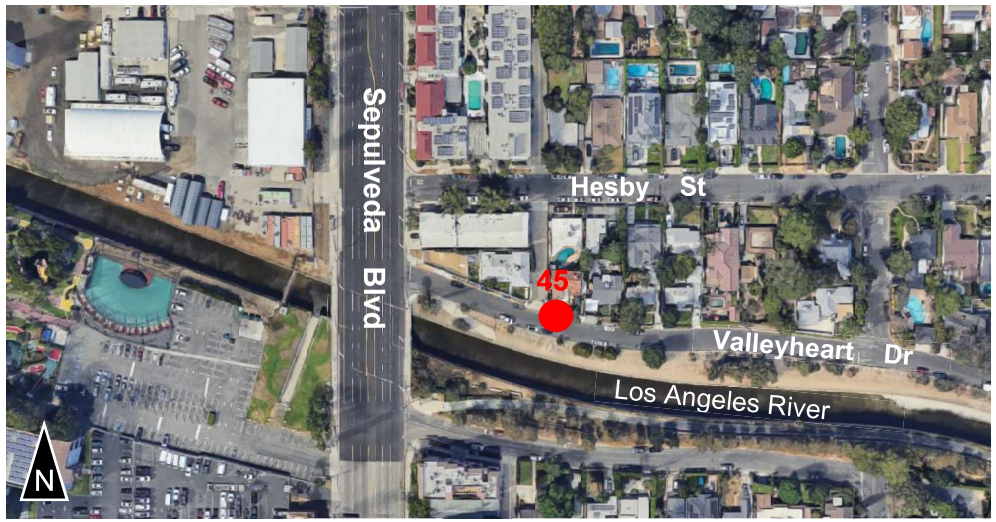
Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/25/2023	7:00 AM	65.8
	8:00 AM	57.9
	9:00 AM	60.2
	10:00 AM	60.9
	11:00 AM	62.3
	12:00 PM	59.2
	1:00 PM	58.5
	2:00 PM	58.8
	3:00 PM	58.2
	4:00 PM	56.9
	5:00 PM	56.2
	6:00 PM	56.6
	7:00 PM	58.2
	8:00 PM	56.1
	9:00 PM	54.5
	10:00 PM	57.6
	11:00 PM	59.2
7/26/2023	12:00 AM	52.2
	1:00 AM	50.7
	2:00 AM	50.0
	3:00 AM	52.2
	4:00 AM	54.2
	5:00 AM	59.0
	6:00 AM	60.6

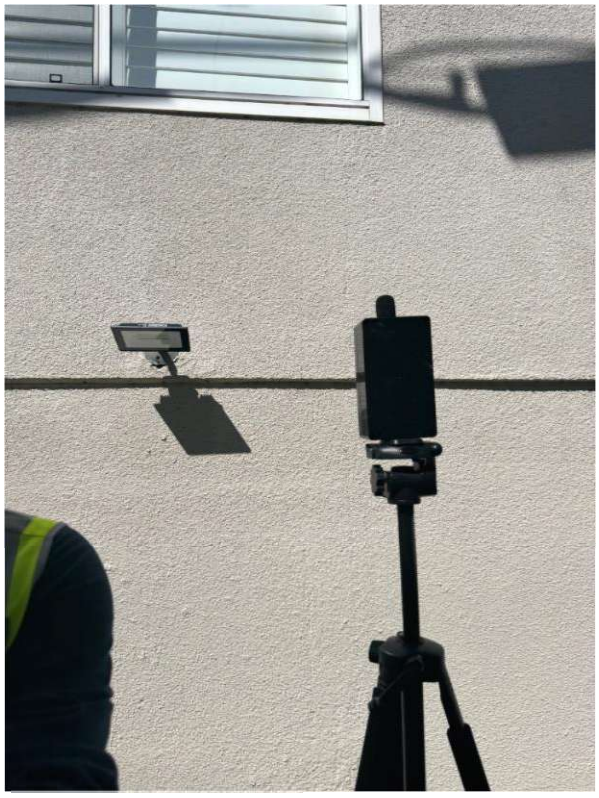




Noise Measurement Photographs at Site 47 – 14520 Magnolia Blvd, Sherman Oaks

Looking East (behind car wash)

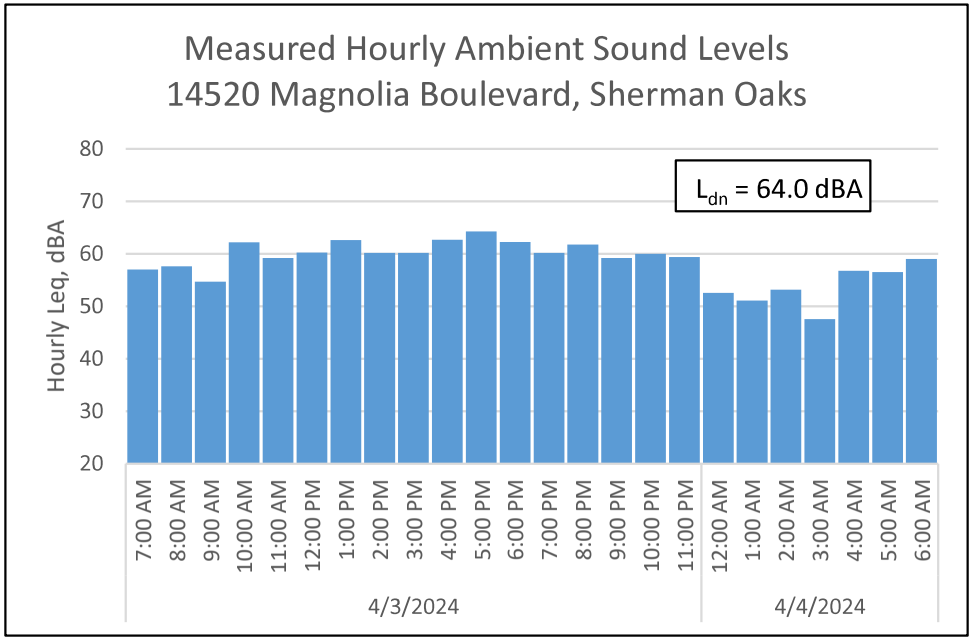
Looking North



Looking West

Looking South

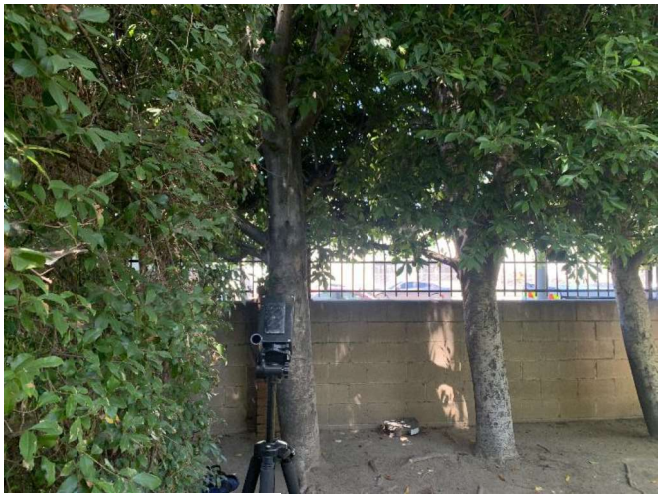
Date	Hour Beginning	Hourly L_{eq} (dBA)
4/3/2024	7:00 AM	57.0
	8:00 AM	57.6
	9:00 AM	54.7
	10:00 AM	62.2
	11:00 AM	59.2
	12:00 PM	60.2
	1:00 PM	62.6
	2:00 PM	60.2
	3:00 PM	60.2
	4:00 PM	62.7
	5:00 PM	64.3
	6:00 PM	62.2
	7:00 PM	60.2
	8:00 PM	61.8
	9:00 PM	59.2
	10:00 PM	60.0
	11:00 PM	59.4
4/4/2024	12:00 AM	52.6
	1:00 AM	51.1
	2:00 AM	53.2
	3:00 AM	47.6
	4:00 AM	56.8
	5:00 AM	56.5
	6:00 AM	59.0



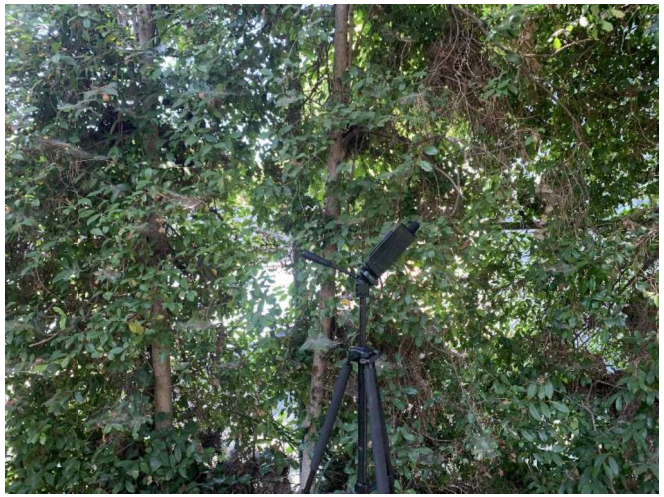
Noise Measurement Photographs at Site 48 – 15231 Magnolia Blvd, Sherman Oaks

Looking East

Looking North

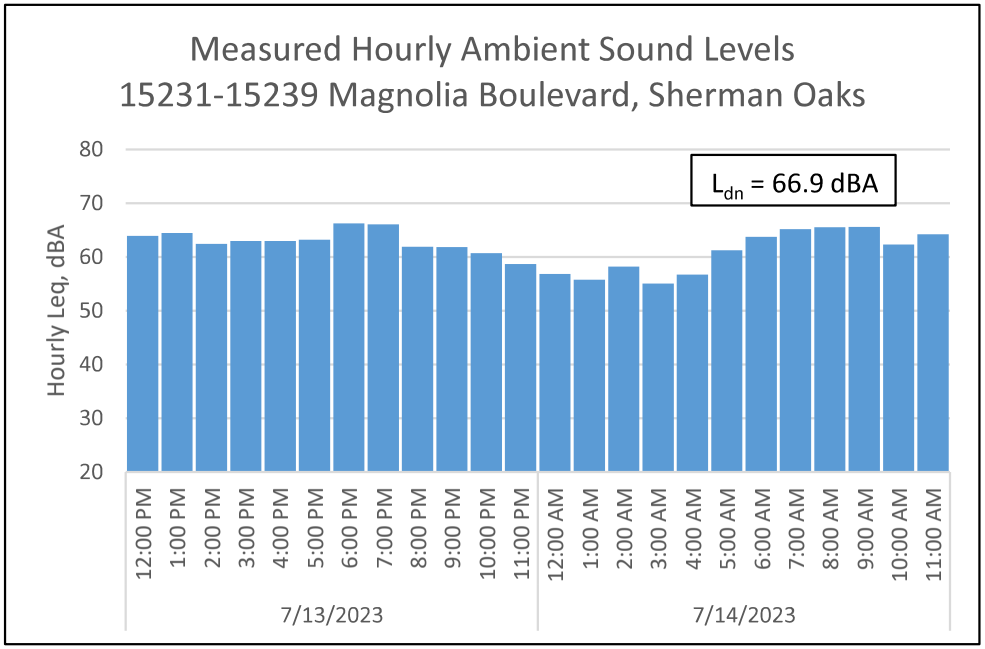


Looking West



Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/13/2023	12:00 PM	63.9
	1:00 PM	64.5
	2:00 PM	62.4
	3:00 PM	63.0
	4:00 PM	63.0
	5:00 PM	63.2
	6:00 PM	66.2
	7:00 PM	66.1
	8:00 PM	61.9
	9:00 PM	61.9
	10:00 PM	60.7
	11:00 PM	58.7
7/14/2023	12:00 AM	56.9
	1:00 AM	55.8
	2:00 AM	58.2
	3:00 AM	55.1
	4:00 AM	56.7
	5:00 AM	61.3
	6:00 AM	63.8
	7:00 AM	65.2
	8:00 AM	65.5
	9:00 AM	65.6
	10:00 AM	62.3
	11:00 AM	64.2



Noise Measurement Photographs at Site 49 – 5329 Sepulveda Blvd, Sherman Oaks

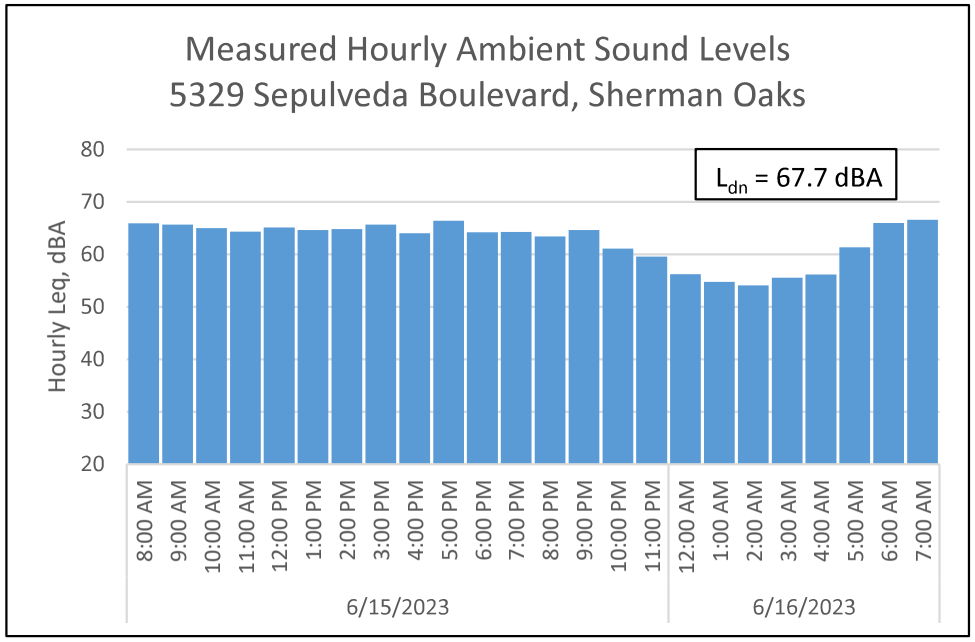
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/15/2023	8:00 AM	65.9
	9:00 AM	65.7
	10:00 AM	65.0
	11:00 AM	64.3
	12:00 PM	65.1
	1:00 PM	64.7
	2:00 PM	64.8
	3:00 PM	65.7
	4:00 PM	64.0
	5:00 PM	66.4
	6:00 PM	64.2
	7:00 PM	64.3
	8:00 PM	63.4
	9:00 PM	64.7
	10:00 PM	61.1
	11:00 PM	59.6
6/16/2023	12:00 AM	56.2
	1:00 AM	54.8
	2:00 AM	54.1
	3:00 AM	55.5
	4:00 AM	56.2
	5:00 AM	61.3
	6:00 AM	66.0
	7:00 AM	66.6



Noise Measurement Photographs at Site 50 – 15353 Weddington St, Sherman Oaks

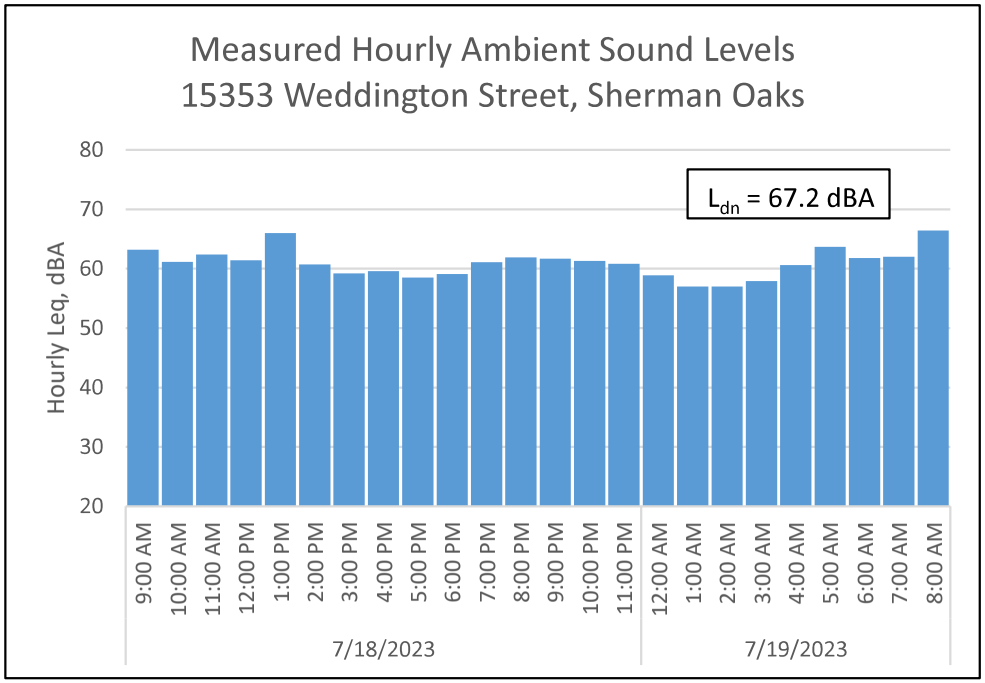
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/18/2023	9:00 AM	63.2
	10:00 AM	61.1
	11:00 AM	62.4
	12:00 PM	61.4
	1:00 PM	66.0
	2:00 PM	60.7
	3:00 PM	59.2
	4:00 PM	59.6
	5:00 PM	58.5
	6:00 PM	59.1
	7:00 PM	61.1
	8:00 PM	61.9
	9:00 PM	61.7
	10:00 PM	61.3
	11:00 PM	60.8
7/19/2023	12:00 AM	58.9
	1:00 AM	57.0
	2:00 AM	57.0
	3:00 AM	57.9
	4:00 AM	60.6
	5:00 AM	63.7
	6:00 AM	61.8
	7:00 AM	62.0
	8:00 AM	66.4



Noise Measurement Photographs at Site 51 – 5450 Sepulveda Blvd, Sherman Oaks

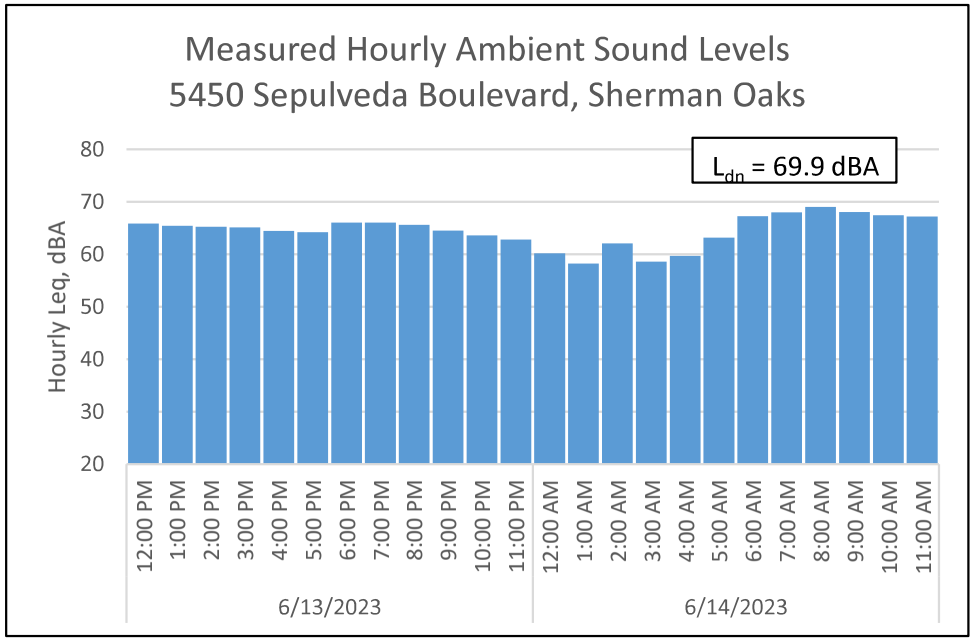
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/13/2023	12:00 PM	65.8
	1:00 PM	65.5
	2:00 PM	65.2
	3:00 PM	65.1
	4:00 PM	64.5
	5:00 PM	64.2
	6:00 PM	66.1
	7:00 PM	66.1
	8:00 PM	65.6
	9:00 PM	64.5
	10:00 PM	63.6
	11:00 PM	62.9
6/14/2023	12:00 AM	60.2
	1:00 AM	58.2
	2:00 AM	62.1
	3:00 AM	58.6
	4:00 AM	59.7
	5:00 AM	63.2
	6:00 AM	67.3
	7:00 AM	68.0
	8:00 AM	69.1
	9:00 AM	68.1
	10:00 AM	67.4
	11:00 AM	67.2



Noise Measurement Photographs at Site 52 – 6200 Blucher Ave, Van Nuys

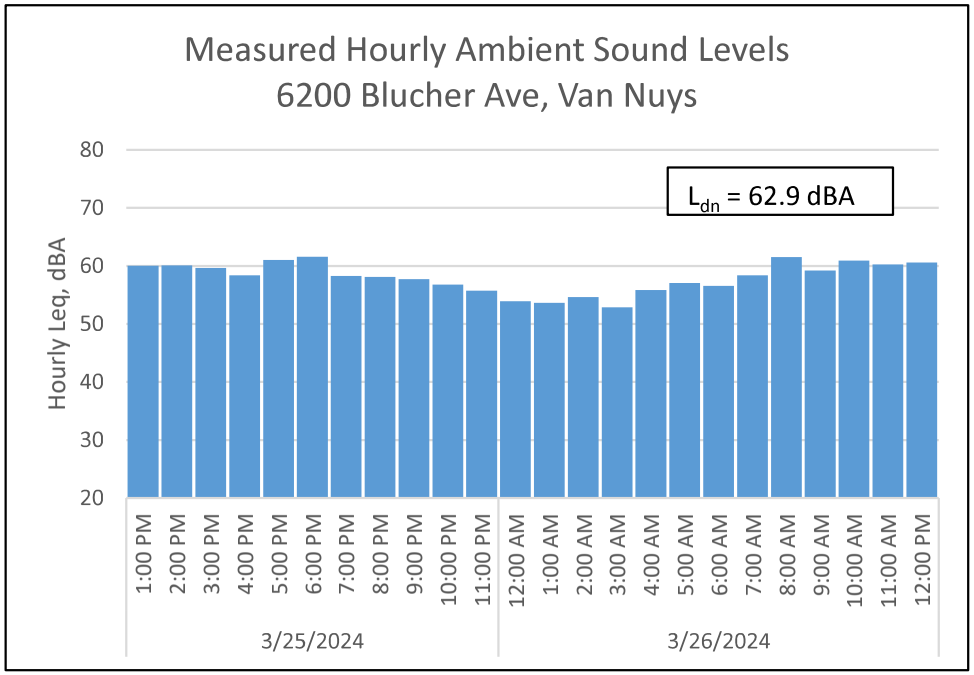
Looking East

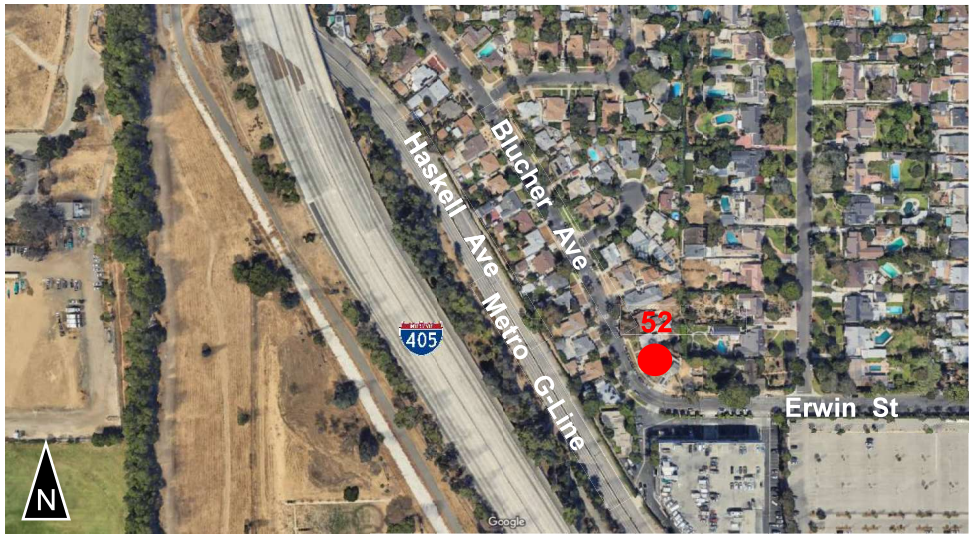
Looking North

Looking West

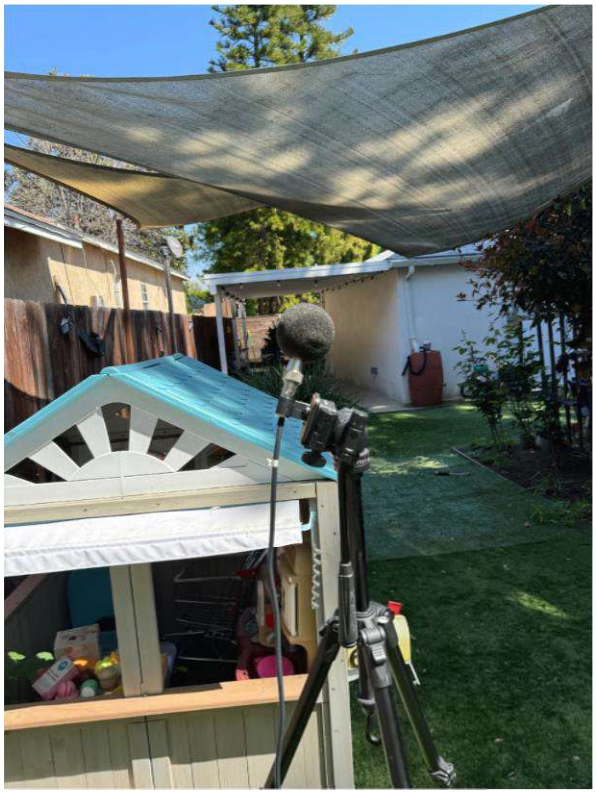
Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
3/25/2024	1:00 PM	60.0
	2:00 PM	60.1
	3:00 PM	59.7
	4:00 PM	58.4
	5:00 PM	61.1
	6:00 PM	61.6
	7:00 PM	58.3
	8:00 PM	58.1
	9:00 PM	57.7
	10:00 PM	56.8
	11:00 PM	55.8
3/26/2024	12:00 AM	53.9
	1:00 AM	53.6
	2:00 AM	54.6
	3:00 AM	52.9
	4:00 AM	55.8
	5:00 AM	57.1
	6:00 AM	56.5
	7:00 AM	58.4
	8:00 AM	61.5
	9:00 AM	59.2
	10:00 AM	60.9
	11:00 AM	60.3
	12:00 PM	60.6

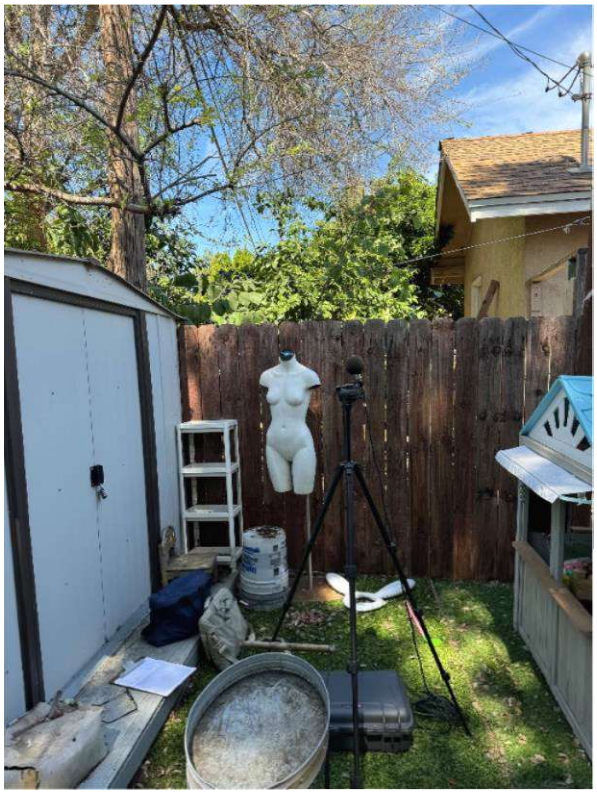




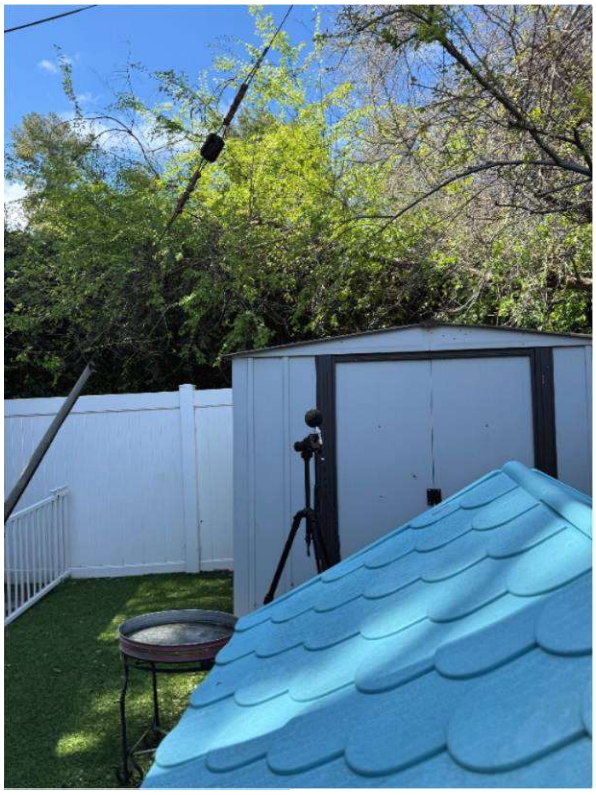
Noise Measurement Photographs at Site 53 – 6201 Blucher Ave, Van Nuys



Looking East



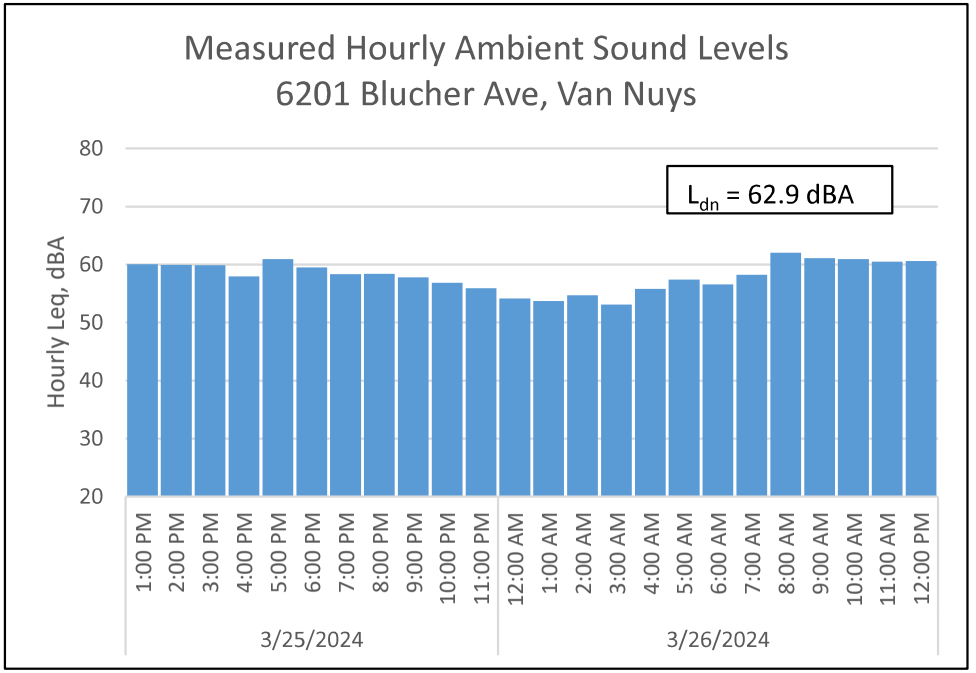
Looking North

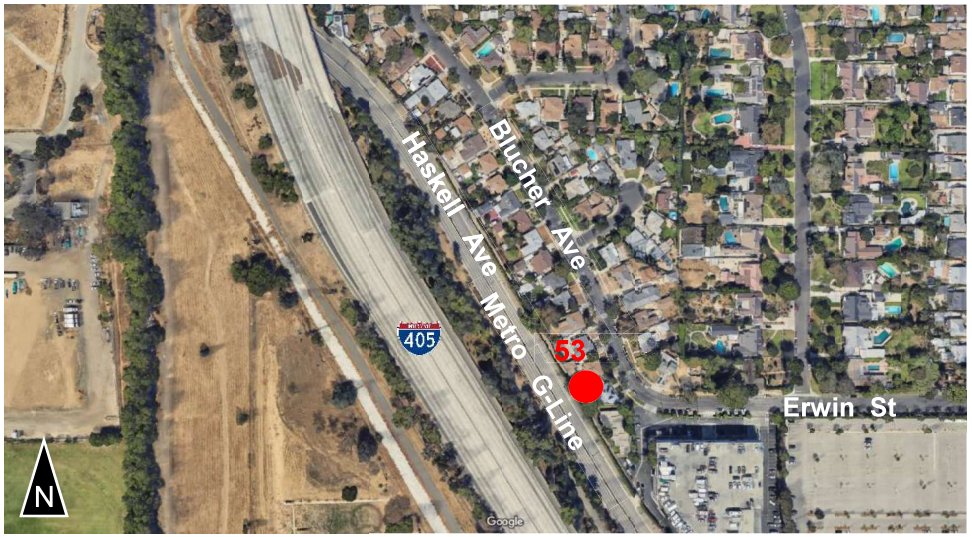


Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
3/25/2024	1:00 PM	60.1
	2:00 PM	59.9
	3:00 PM	59.9
	4:00 PM	58.0
	5:00 PM	60.9
	6:00 PM	59.5
	7:00 PM	58.4
	8:00 PM	58.4
	9:00 PM	57.8
	10:00 PM	56.9
	11:00 PM	55.9
3/26/2024	12:00 AM	54.2
	1:00 AM	53.7
	2:00 AM	54.7
	3:00 AM	53.1
	4:00 AM	55.8
	5:00 AM	57.4
	6:00 AM	56.6
	7:00 AM	58.3
	8:00 AM	62.0
	9:00 AM	61.1
	10:00 AM	60.9
	11:00 AM	60.5
	12:00 PM	60.6





Noise Measurement Photographs at Site 55 – 6224 Peach Ave, Van Nuys

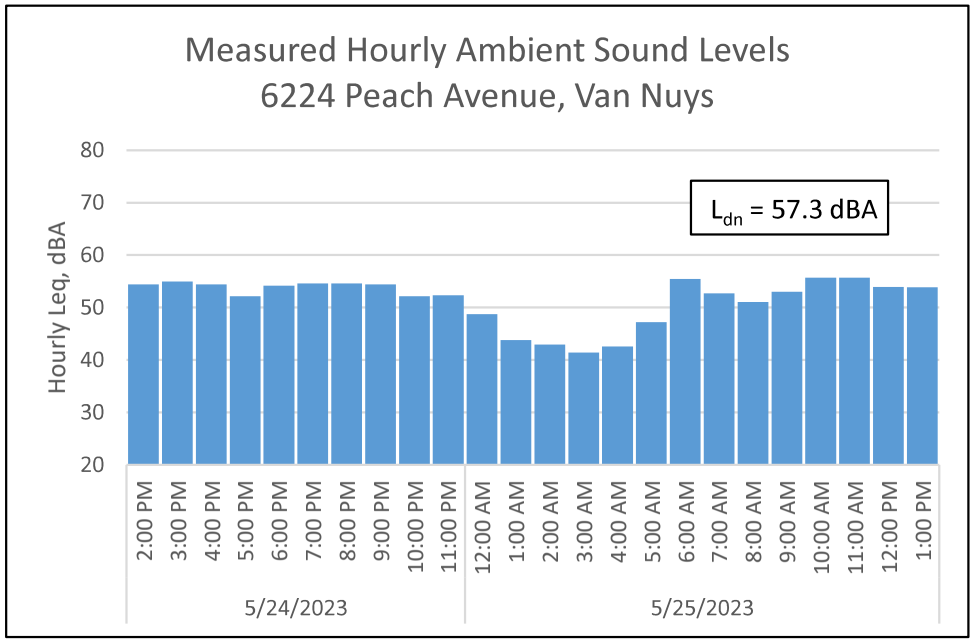
Looking East

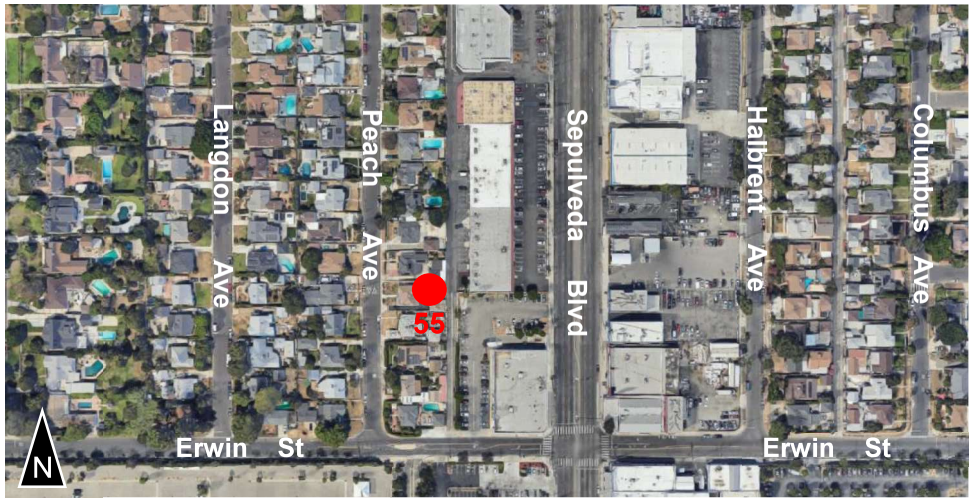
Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/24/2023	2:00 PM	54.4
	3:00 PM	55.0
	4:00 PM	54.4
	5:00 PM	52.1
	6:00 PM	54.2
	7:00 PM	54.6
	8:00 PM	54.6
	9:00 PM	54.4
	10:00 PM	52.2
	11:00 PM	52.3
5/25/2023	12:00 AM	48.8
	1:00 AM	43.8
	2:00 AM	43.0
	3:00 AM	41.4
	4:00 AM	42.6
	5:00 AM	47.2
	6:00 AM	55.4
	7:00 AM	52.7
	8:00 AM	51.1
	9:00 AM	53.0
	10:00 AM	55.7
	11:00 AM	55.7
	12:00 PM	53.9
	1:00 PM	53.9





Noise Measurement Photographs at Site 56 – 6561 Sepulveda Blvd, Van Nuys

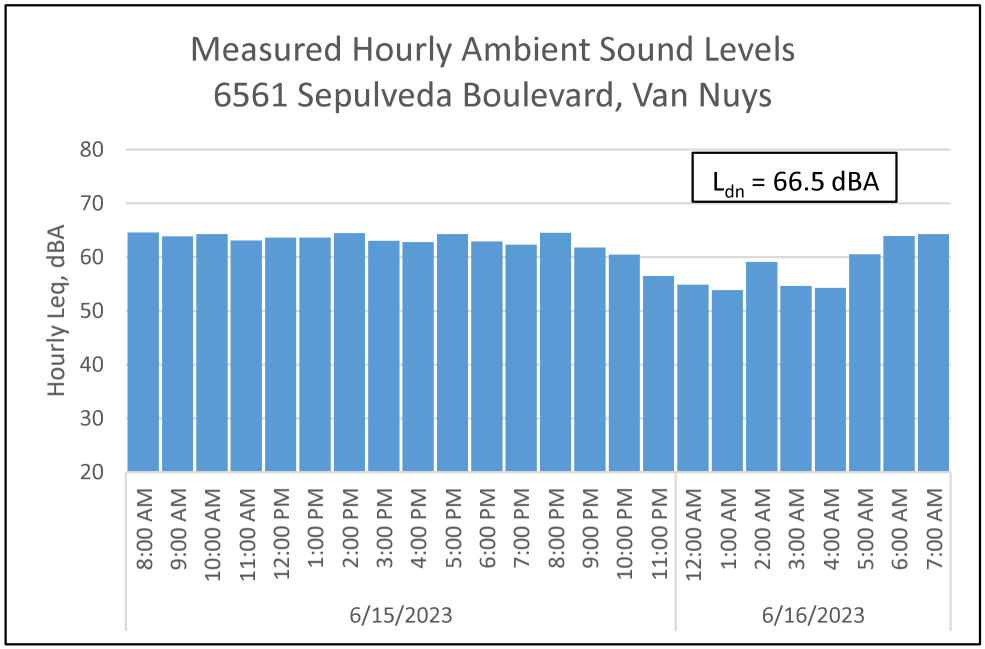
Looking East

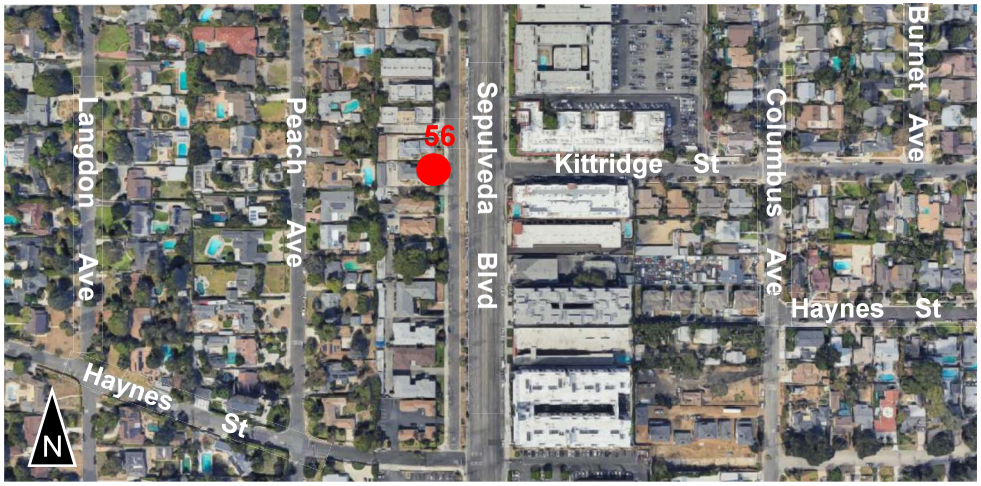
Looking North

Looking West

Looking South

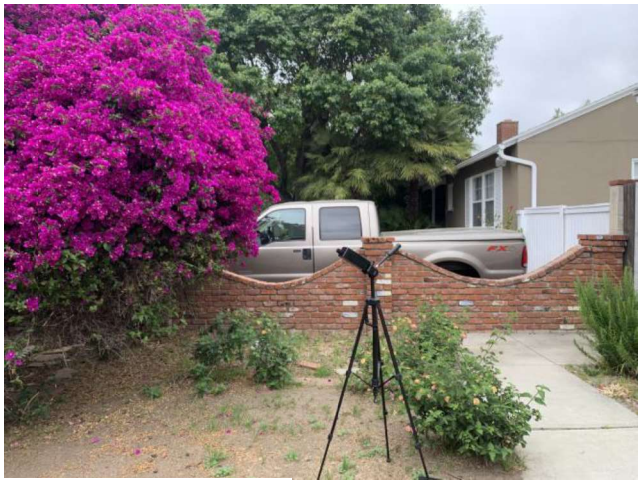
Date	Hour Beginning	Hourly L_{eq} (dBA)
6/15/2023	8:00 AM	64.6
	9:00 AM	63.9
	10:00 AM	64.3
	11:00 AM	63.1
	12:00 PM	63.6
	1:00 PM	63.6
	2:00 PM	64.5
	3:00 PM	63.0
	4:00 PM	62.8
	5:00 PM	64.3
	6:00 PM	62.9
	7:00 PM	62.3
	8:00 PM	64.5
	9:00 PM	61.8
	10:00 PM	60.5
	11:00 PM	56.5
6/16/2023	12:00 AM	54.9
	1:00 AM	53.9
	2:00 AM	59.2
	3:00 AM	54.6
	4:00 AM	54.3
	5:00 AM	60.5
	6:00 AM	64.0
	7:00 AM	64.3





Noise Measurement Photographs at Site 57 – 6546 Aqueduct Ave, Van Nuys

Looking East

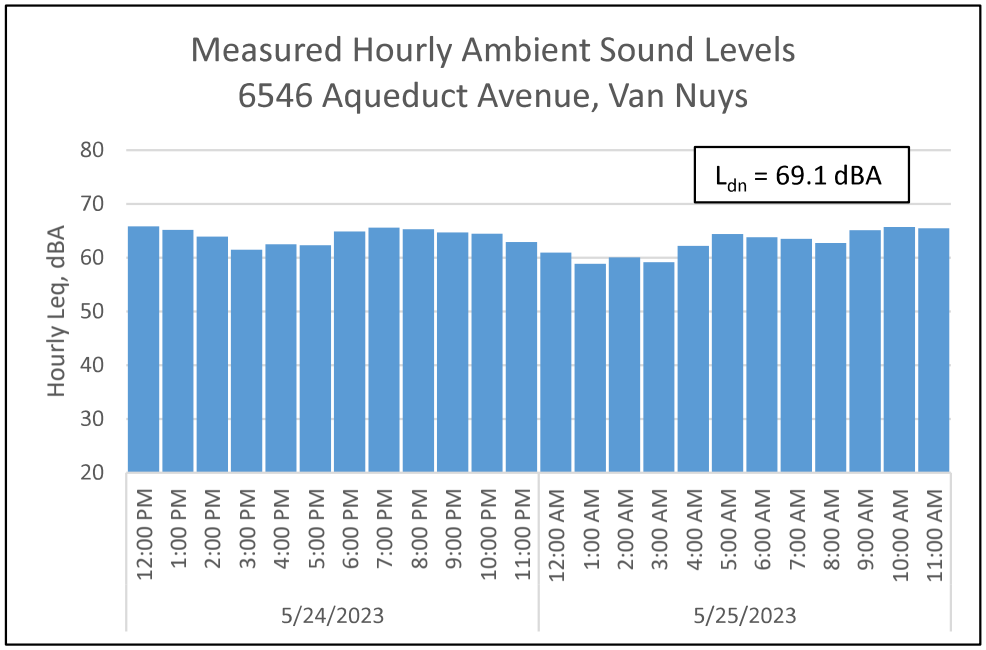


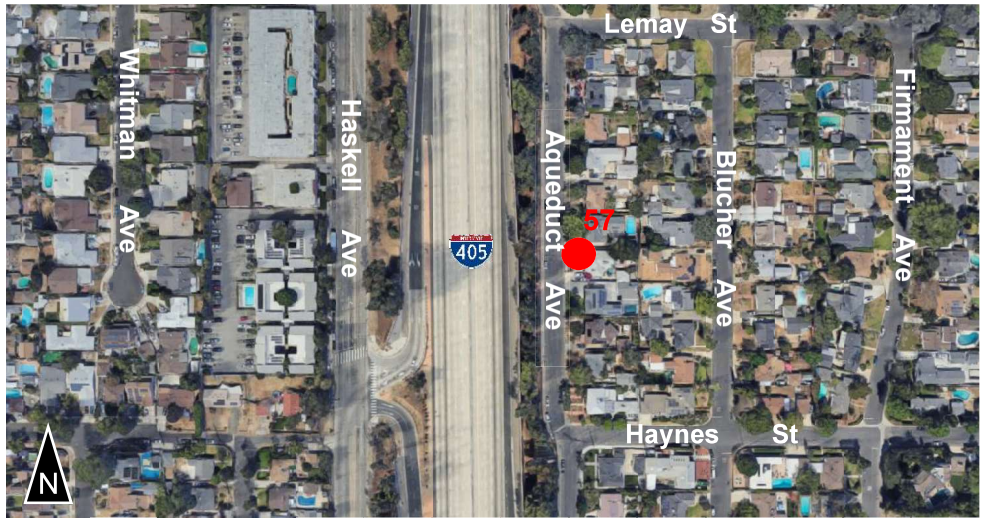
Looking North

Looking West

Looking South

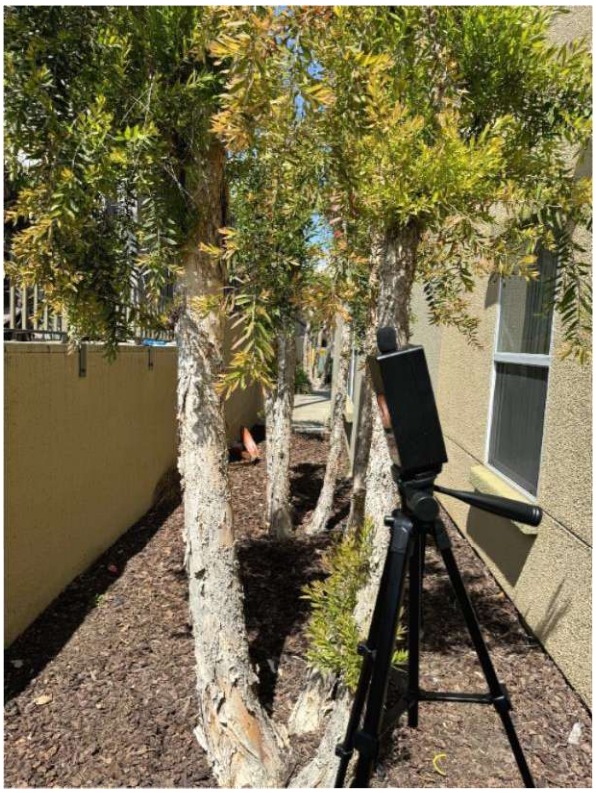
Date	Hour Beginning	Hourly L_{eq} (dBA)
5/24/2023	12:00 PM	65.9
	1:00 PM	65.2
	2:00 PM	63.9
	3:00 PM	61.5
	4:00 PM	62.5
	5:00 PM	62.3
	6:00 PM	64.9
	7:00 PM	65.6
	8:00 PM	65.3
	9:00 PM	64.7
	10:00 PM	64.4
	11:00 PM	62.9
5/25/2023	12:00 AM	61.0
	1:00 AM	58.8
	2:00 AM	60.0
	3:00 AM	59.2
	4:00 AM	62.2
	5:00 AM	64.4
	6:00 AM	63.8
	7:00 AM	63.5
	8:00 AM	62.7
	9:00 AM	65.1
	10:00 AM	65.7
	11:00 AM	65.4



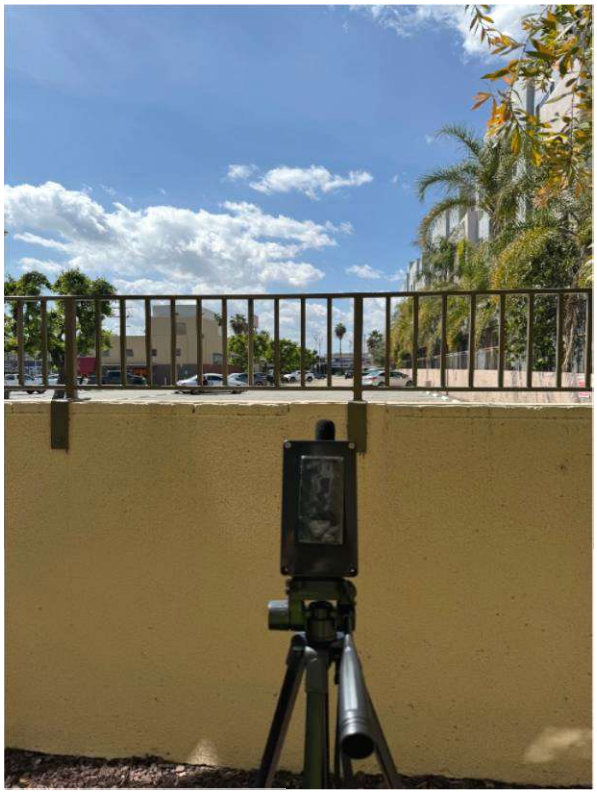


Noise Measurement Photographs at Site 58 – 14419 Vanowen St, Van Nuys

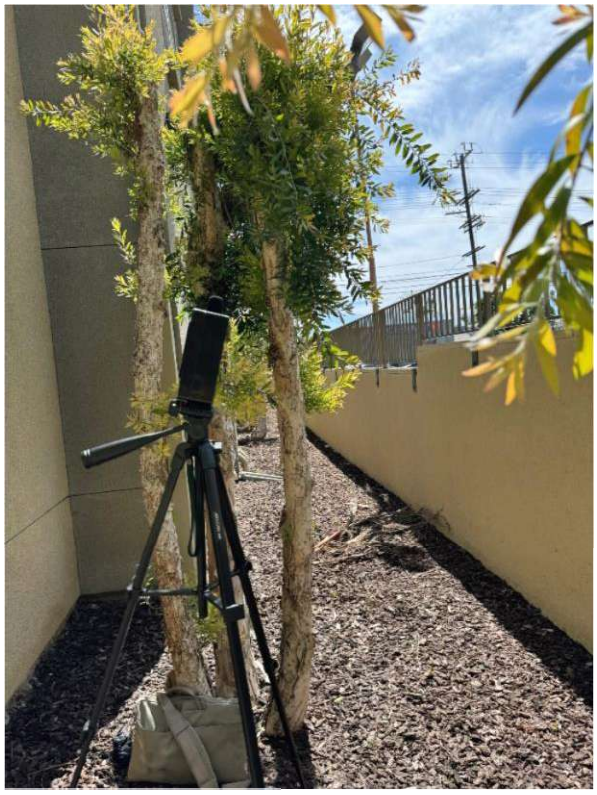
Looking East



Looking North

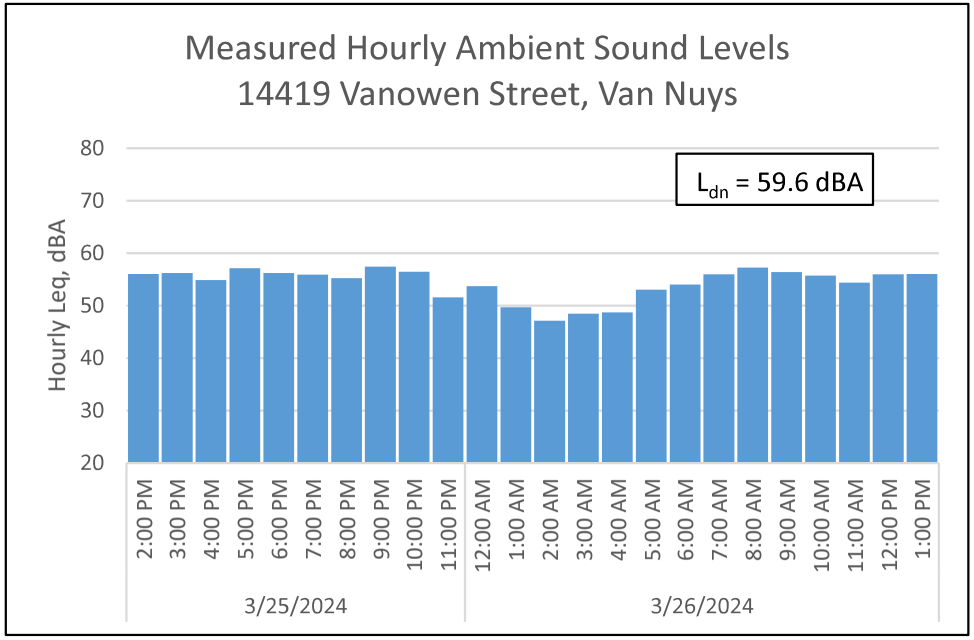


Looking West



Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
3/25/2024	2:00 PM	56.0
	3:00 PM	56.2
	4:00 PM	54.9
	5:00 PM	57.2
	6:00 PM	56.2
	7:00 PM	55.9
	8:00 PM	55.3
	9:00 PM	57.4
	10:00 PM	56.5
	11:00 PM	51.6
3/26/2024	12:00 AM	53.7
	1:00 AM	49.7
	2:00 AM	47.1
	3:00 AM	48.5
	4:00 AM	48.7
	5:00 AM	53.1
	6:00 AM	54.0
	7:00 AM	56.0
	8:00 AM	57.3
	9:00 AM	56.4
	10:00 AM	55.7
	11:00 AM	54.4
	12:00 PM	56.0
	1:00 PM	56.1



Noise Measurement Photographs at Site 59 – 6920 Sepulveda Blvd, Van Nuys

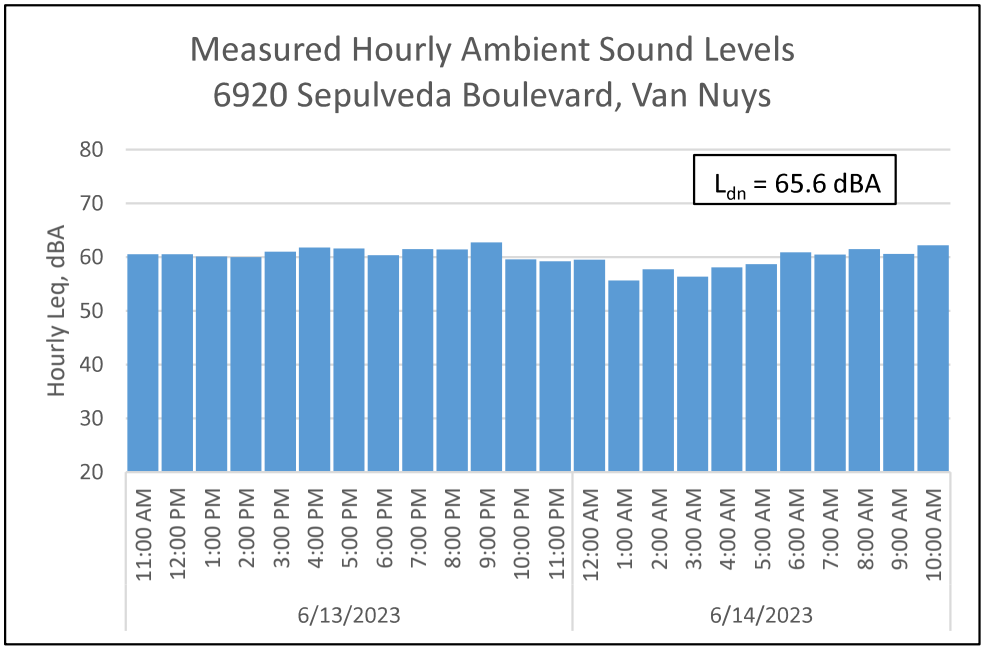
Looking East

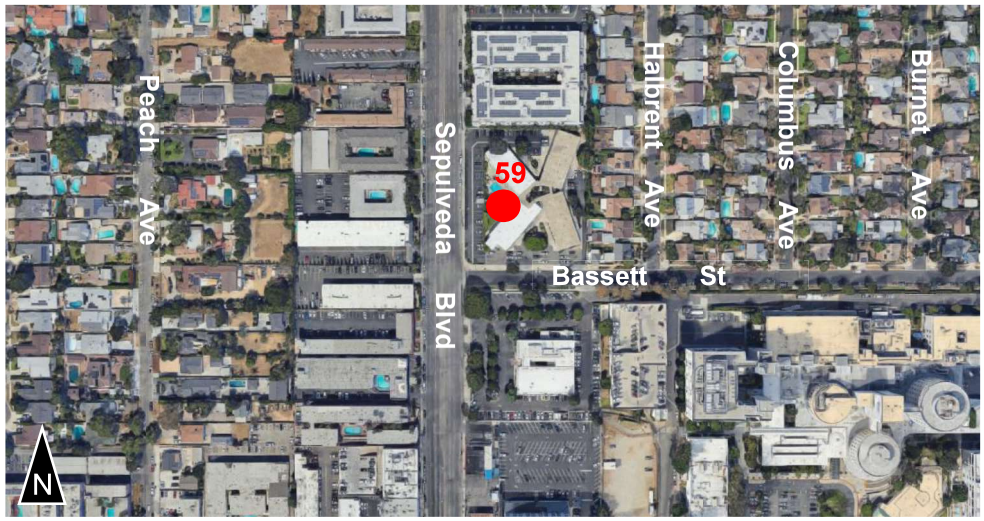
Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/13/2023	11:00 AM	60.6
	12:00 PM	60.5
	1:00 PM	60.1
	2:00 PM	60.0
	3:00 PM	61.0
	4:00 PM	61.8
	5:00 PM	61.6
	6:00 PM	60.4
	7:00 PM	61.5
	8:00 PM	61.4
	9:00 PM	62.8
	10:00 PM	59.6
	11:00 PM	59.2
6/14/2023	12:00 AM	59.5
	1:00 AM	55.7
	2:00 AM	57.8
	3:00 AM	56.4
	4:00 AM	58.1
	5:00 AM	58.7
	6:00 AM	60.9
	7:00 AM	60.5
	8:00 AM	61.5
	9:00 AM	60.6
	10:00 AM	62.2





Noise Measurement Photographs at Site 60 – 6841 Firmament Ave, Van Nuys

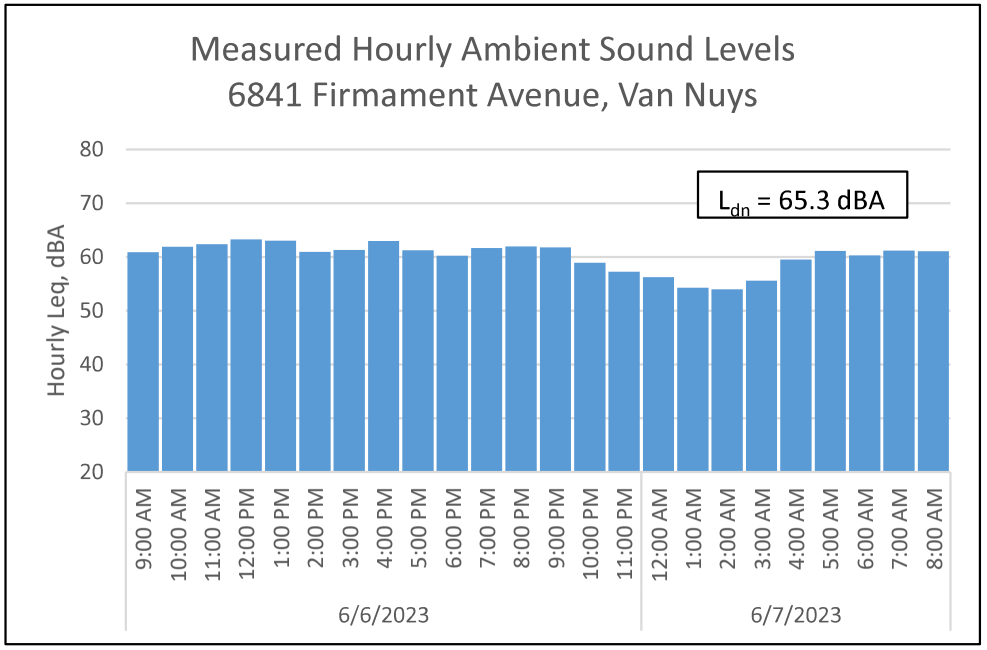
Looking East

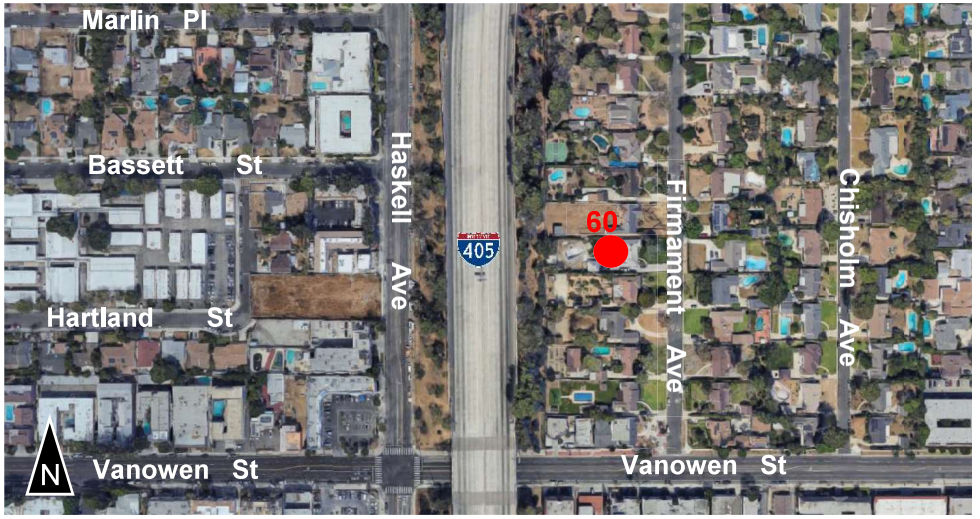
Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/6/2023	9:00 AM	60.9
	10:00 AM	61.9
	11:00 AM	62.4
	12:00 PM	63.2
	1:00 PM	63.0
	2:00 PM	60.9
	3:00 PM	61.3
	4:00 PM	63.0
	5:00 PM	61.2
	6:00 PM	60.2
	7:00 PM	61.6
	8:00 PM	62.0
	9:00 PM	61.8
	10:00 PM	58.9
	11:00 PM	57.3
6/7/2023	12:00 AM	56.3
	1:00 AM	54.3
	2:00 AM	54.0
	3:00 AM	55.6
	4:00 AM	59.5
	5:00 AM	61.1
	6:00 AM	60.3
	7:00 AM	61.2
	8:00 AM	61.1





Noise Measurement Photographs at Site 61 – 13917 Cohasset St, Van Nuys

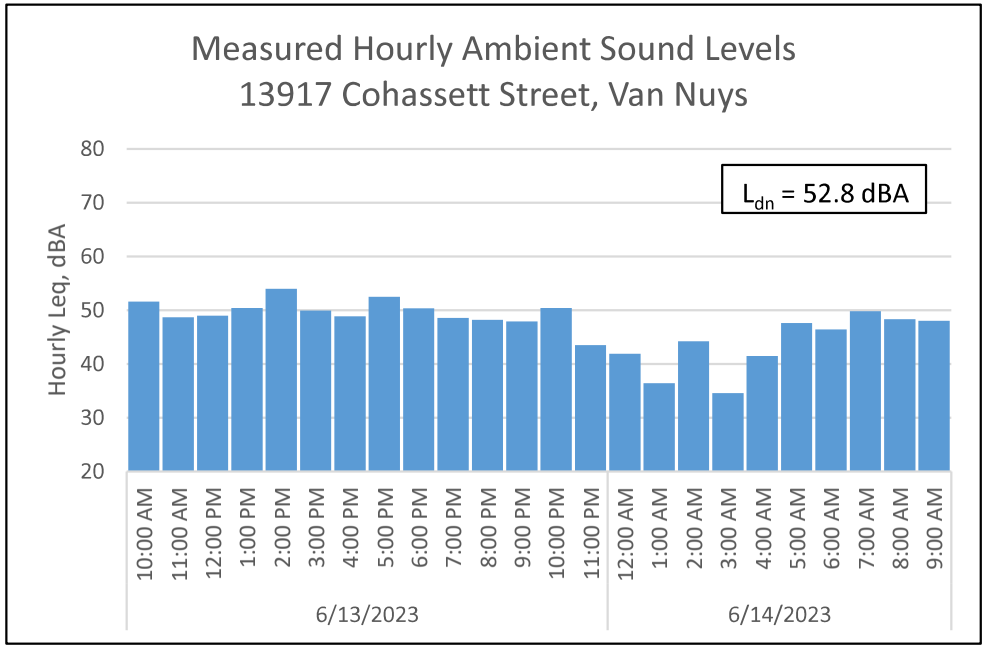
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/13/2023	10:00 AM	51.6
	11:00 AM	48.7
	12:00 PM	49.0
	1:00 PM	50.5
	2:00 PM	54.0
	3:00 PM	49.9
	4:00 PM	48.9
	5:00 PM	52.5
	6:00 PM	50.3
	7:00 PM	48.6
	8:00 PM	48.3
	9:00 PM	47.9
	10:00 PM	50.4
6/14/2023	11:00 PM	43.5
	12:00 AM	41.9
	1:00 AM	36.4
	2:00 AM	44.2
	3:00 AM	34.6
	4:00 AM	41.5
	5:00 AM	47.6
	6:00 AM	46.4
	7:00 AM	49.8
	8:00 AM	48.3
	9:00 AM	48.0



Noise Measurement Photographs at Site 62 – 7467 Sylmar Ave, Van Nuys

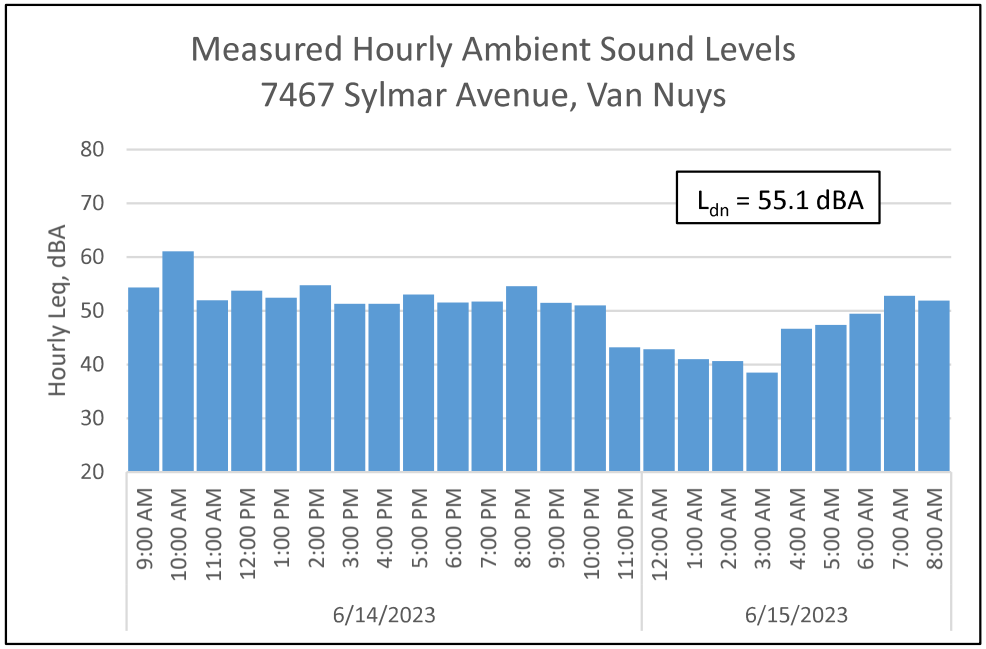
Looking Southeast

Looking North

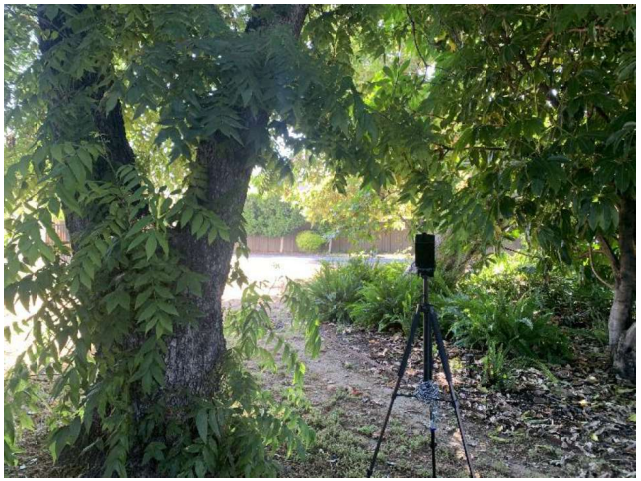
Looking Northwest

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/14/2023	9:00 AM	54.3
	10:00 AM	61.0
	11:00 AM	52.0
	12:00 PM	53.8
	1:00 PM	52.4
	2:00 PM	54.8
	3:00 PM	51.3
	4:00 PM	51.3
	5:00 PM	53.0
	6:00 PM	51.6
	7:00 PM	51.7
	8:00 PM	54.6
	9:00 PM	51.5
	10:00 PM	51.0
	11:00 PM	43.2
6/15/2023	12:00 AM	42.8
	1:00 AM	41.0
	2:00 AM	40.6
	3:00 AM	38.5
	4:00 AM	46.7
	5:00 AM	47.3
	6:00 AM	49.4
	7:00 AM	52.8
	8:00 AM	51.9



Noise Measurement Photographs at Site 63 – 15235 Wyandotte St, Van Nuys



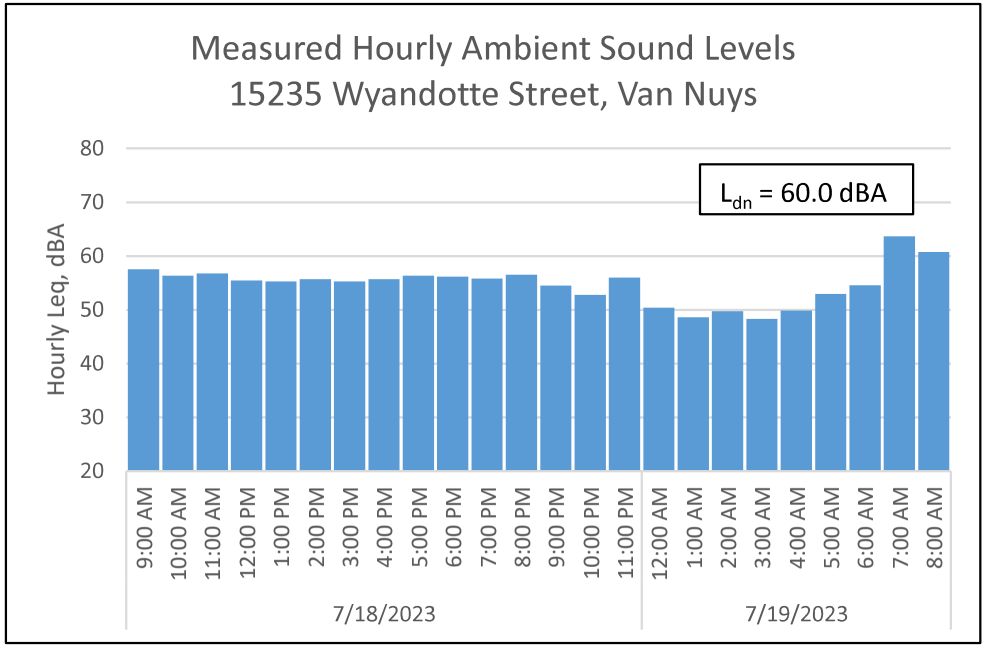
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
7/18/2023	9:00 AM	57.5
	10:00 AM	56.3
	11:00 AM	56.8
	12:00 PM	55.4
	1:00 PM	55.3
	2:00 PM	55.7
	3:00 PM	55.3
	4:00 PM	55.7
	5:00 PM	56.3
	6:00 PM	56.2
	7:00 PM	55.8
	8:00 PM	56.5
	9:00 PM	54.5
	10:00 PM	52.8
	11:00 PM	56.0
7/19/2023	12:00 AM	50.4
	1:00 AM	48.6
	2:00 AM	49.7
	3:00 AM	48.3
	4:00 AM	49.8
	5:00 AM	53.0
	6:00 AM	54.6
	7:00 AM	63.6
	8:00 AM	60.8



Noise Measurement Photographs at Site 64 – 15550 Wyandotte St, Van Nuys

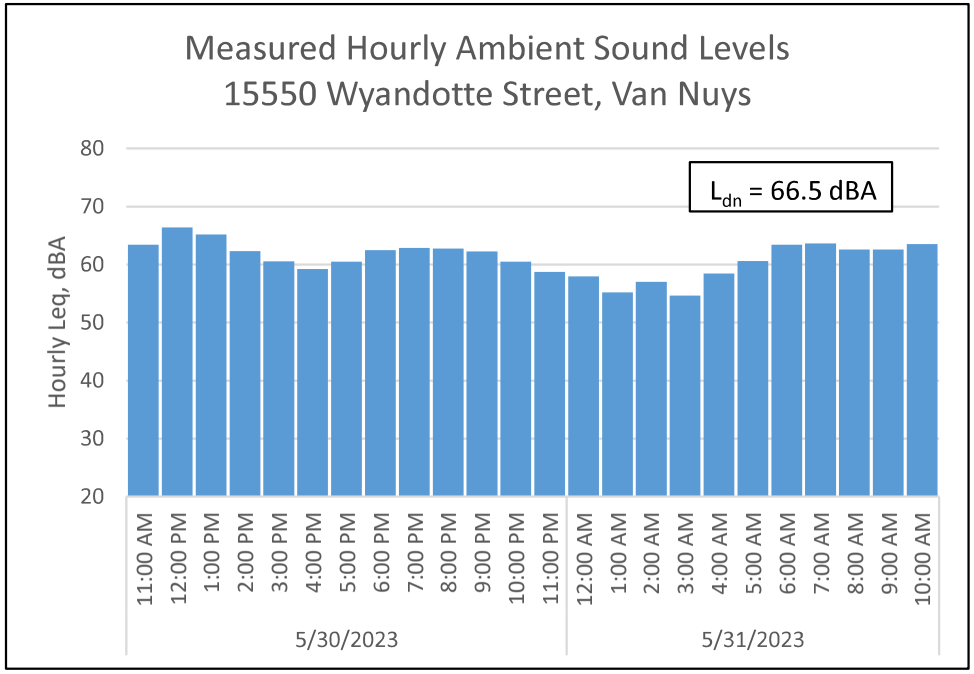
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/30/2023	11:00 AM	63.4
	12:00 PM	66.4
	1:00 PM	65.2
	2:00 PM	62.3
	3:00 PM	60.6
	4:00 PM	59.2
	5:00 PM	60.5
	6:00 PM	62.5
	7:00 PM	62.8
	8:00 PM	62.7
	9:00 PM	62.3
	10:00 PM	60.5
	11:00 PM	58.7
5/31/2023	12:00 AM	57.9
	1:00 AM	55.2
	2:00 AM	57.0
	3:00 AM	54.6
	4:00 AM	58.5
	5:00 AM	60.6
	6:00 AM	63.4
	7:00 AM	63.6
	8:00 AM	62.6
	9:00 AM	62.6
	10:00 AM	63.5



Noise Measurement Photographs at Site 65 – 15559 Covello St, Van Nuys

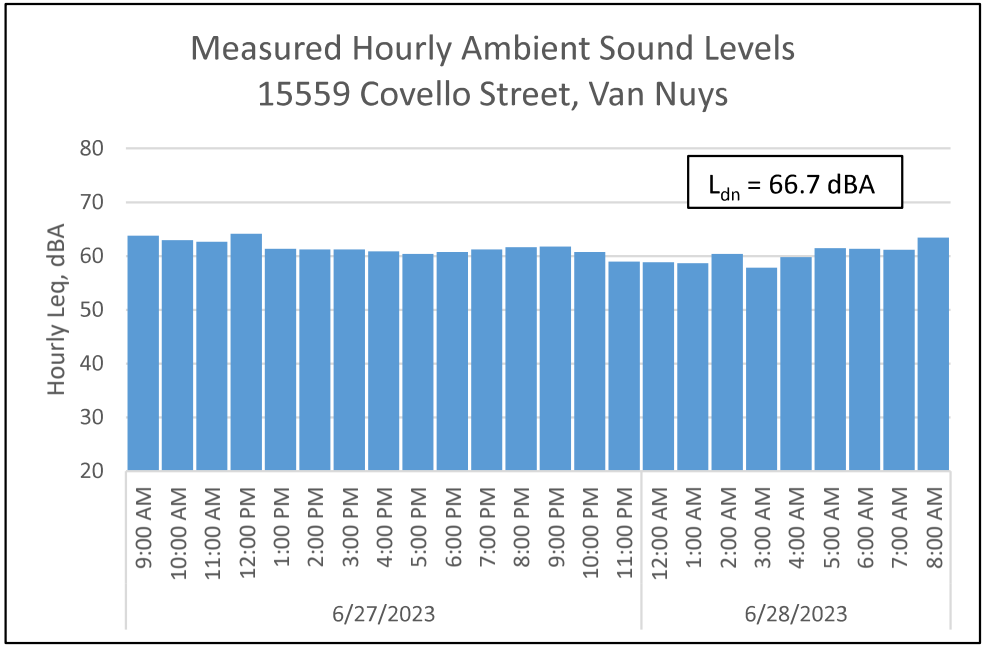
Looking East

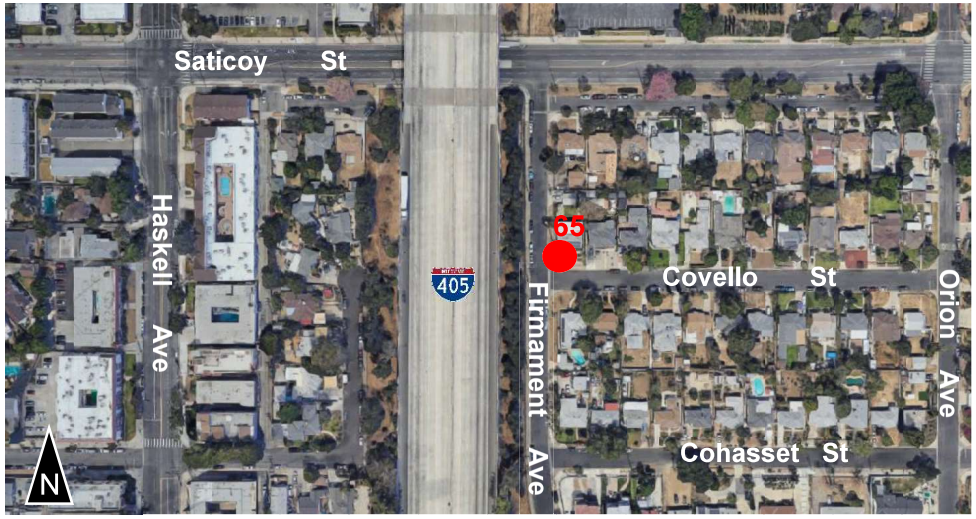
Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/27/2023	9:00 AM	63.8
	10:00 AM	62.9
	11:00 AM	62.7
	12:00 PM	64.1
	1:00 PM	61.4
	2:00 PM	61.2
	3:00 PM	61.2
	4:00 PM	60.8
	5:00 PM	60.4
	6:00 PM	60.7
	7:00 PM	61.2
	8:00 PM	61.6
	9:00 PM	61.7
	10:00 PM	60.7
	11:00 PM	59.0
6/28/2023	12:00 AM	58.8
	1:00 AM	58.7
	2:00 AM	60.4
	3:00 AM	57.8
	4:00 AM	59.8
	5:00 AM	61.5
	6:00 AM	61.4
	7:00 AM	61.2
	8:00 AM	63.4





Noise Measurement Photographs at Site 66 – 15018 Marson Street, Panorama City

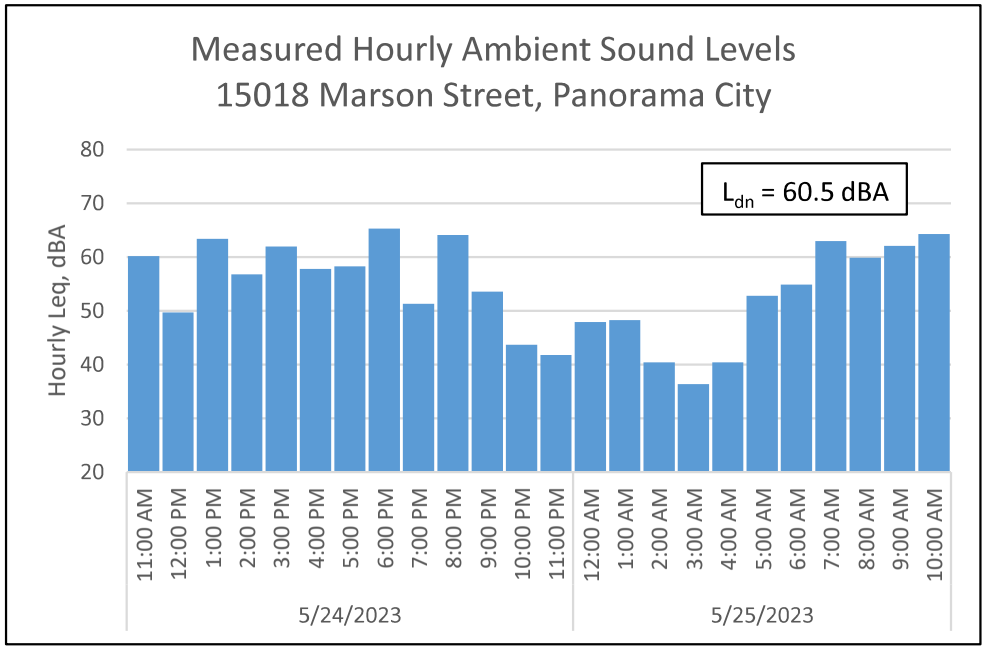
Looking East

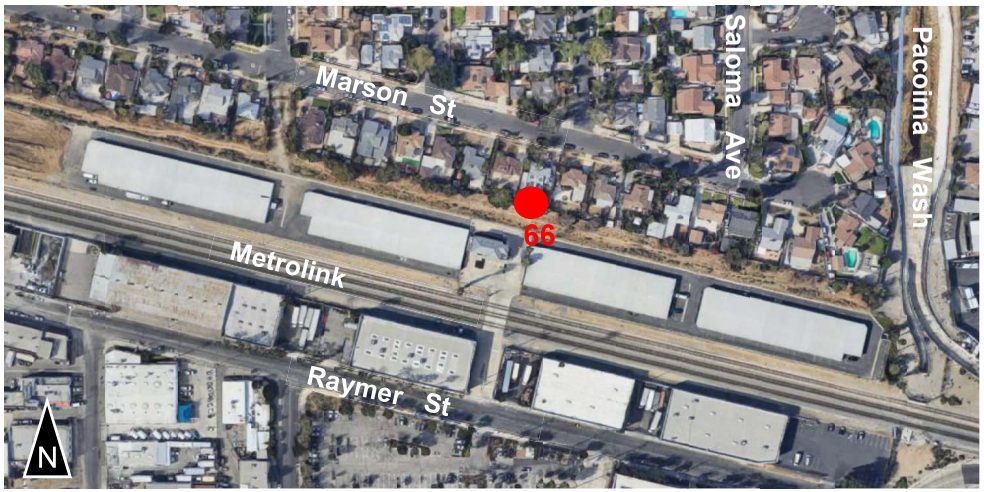
Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
5/24/2023	11:00 AM	60.2
	12:00 PM	49.7
	1:00 PM	63.4
	2:00 PM	56.8
	3:00 PM	62.0
	4:00 PM	57.8
	5:00 PM	58.3
	6:00 PM	65.3
	7:00 PM	51.3
	8:00 PM	64.1
	9:00 PM	53.6
	10:00 PM	43.7
	11:00 PM	41.8
5/25/2023	12:00 AM	47.9
	1:00 AM	48.3
	2:00 AM	40.4
	3:00 AM	36.4
	4:00 AM	40.4
	5:00 AM	52.8
	6:00 AM	54.9
	7:00 AM	63.0
	8:00 AM	59.9
	9:00 AM	62.1
	10:00 AM	64.3





Noise Measurement Photographs at Site 67 – 7824 Zombar Ave, Van Nuys

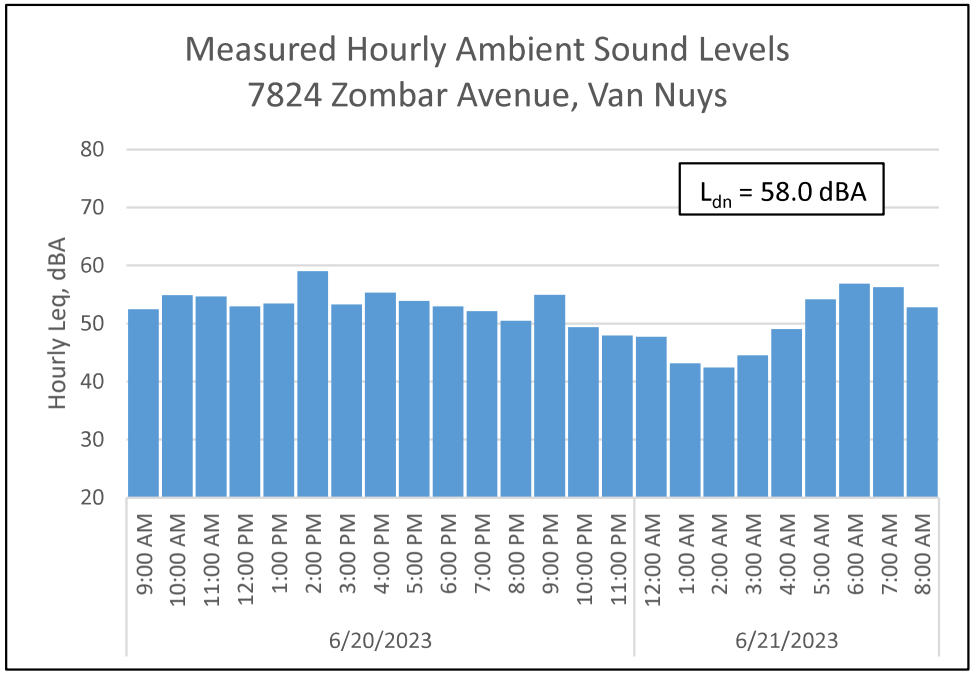
Looking East

Looking North

Looking West

Looking South

Date	Hour Beginning	Hourly L_{eq} (dBA)
6/20/2023	9:00 AM	52.5
	10:00 AM	54.9
	11:00 AM	54.7
	12:00 PM	53.0
	1:00 PM	53.5
	2:00 PM	59.0
	3:00 PM	53.3
	4:00 PM	55.3
	5:00 PM	53.9
	6:00 PM	52.9
	7:00 PM	52.1
	8:00 PM	50.5
	9:00 PM	54.9
	10:00 PM	49.4
	11:00 PM	47.9
6/21/2023	12:00 AM	47.7
	1:00 AM	43.1
	2:00 AM	42.4
	3:00 AM	44.5
	4:00 AM	49.1
	5:00 AM	54.2
	6:00 AM	56.9
	7:00 AM	56.3
	8:00 AM	52.8



Attachment 2. Short-Term Noise Measurement Photographs and Summarized Results

Contents

Attachment 1 contains the noise measurement data summaries pertaining to the short-term noise measurements conducted at representative Category 1 and 3 receptors in the Project Study Area. The attachment includes the measurement data for Tables 5-1, 6-5, 7-5, 8-6, 9-6, and 10-3 of the Noise and Vibration Technical Report

Index of Short-Term Noise Measurement Locations

Site No.	Location
6	Westwood Park, north of soccer field on lawn near parking lot
8	UCLA Williams Institute, southwest corner of building
9	UCLA Computer Science/ Engineering IV building
11	LA National Cemetery Columbarium, near east wall
12a	LA National Cemetery north of Wilshire Boulevard
12	LA National Cemetery east of I-405, no freeway soundwall
13	LA National Cemetery east of I-405, with freeway soundwall
14	LA National Cemetery north fence, with freeway soundwall
17	Village Church, 343 S. Church Lane, sidewalk next to front lawn
22	Getty South Building, near buildings setback west of I-405
27	Leo Baeck Temple, west of building, facing I-405
28	The Getty Tram Station, in lawn area north of the Station
29	Future Oak parking lot at The Getty, in currently unpaved lot
33	Skirball Cultural Center, Ziegler Amphitheater, east façade
34	Skirball Cultural Center, Ziegler Amphitheater, at bleachers
35	Milken Community School, first floor facing I-405
36	Milken Community School, second floor facing I-405
40	15347 Del Gado Drive, at south end of vacant lot*
46	Ivy Bound Academy, basketball courts near I-101 to I-405 ramp
54	Contractors State License School, 6222 Sepulveda Boulevard
68	La Iglesia de Jesucristo de los Santos de los Últimos Días

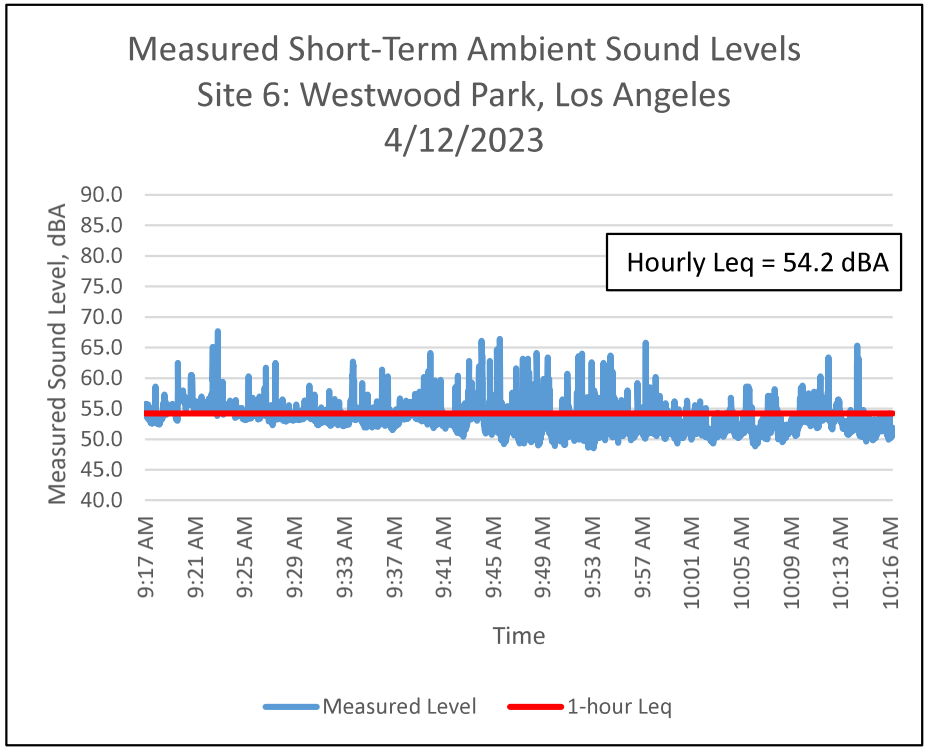
Noise Measurement Photographs at Site 6 – Westwood Park, Los Angeles

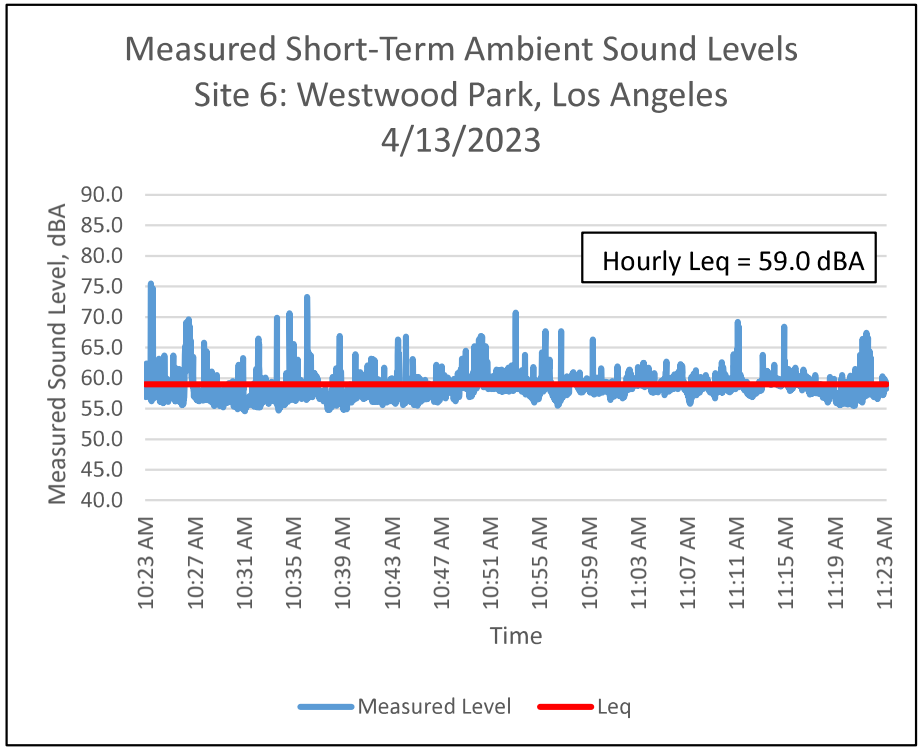
Looking Northeast

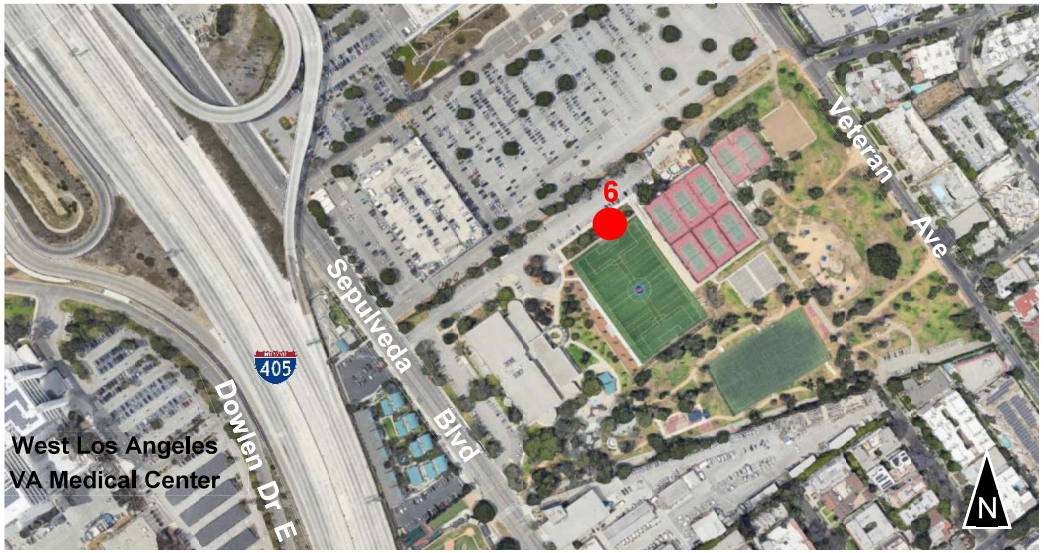
Looking Northwest

Looking Southwest

Looking Southeast







Leq: Measured average equivalent sound level during the 1-hour measurement period.

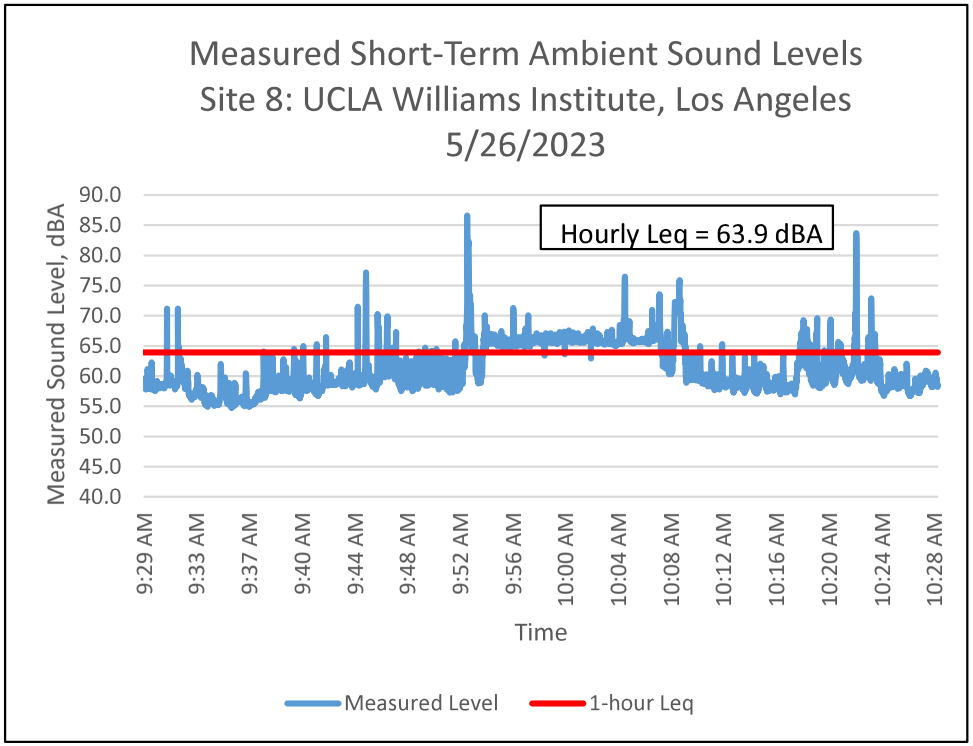
Noise Measurement Photographs at Site 8 – UCLA Williams Institute, 1060 Veteran Ave, Los Angeles

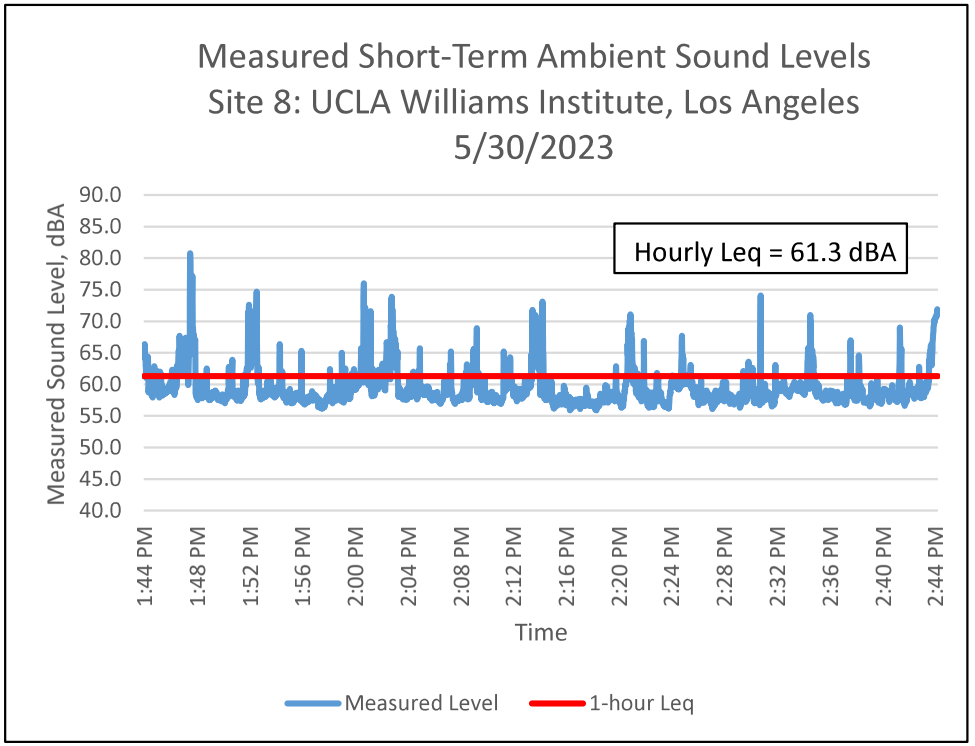
Looking Northeast

Looking Northwest

Looking Southwest

Looking Southeast





Leq: Measured average equivalent sound level during the 1-hour measurement period.

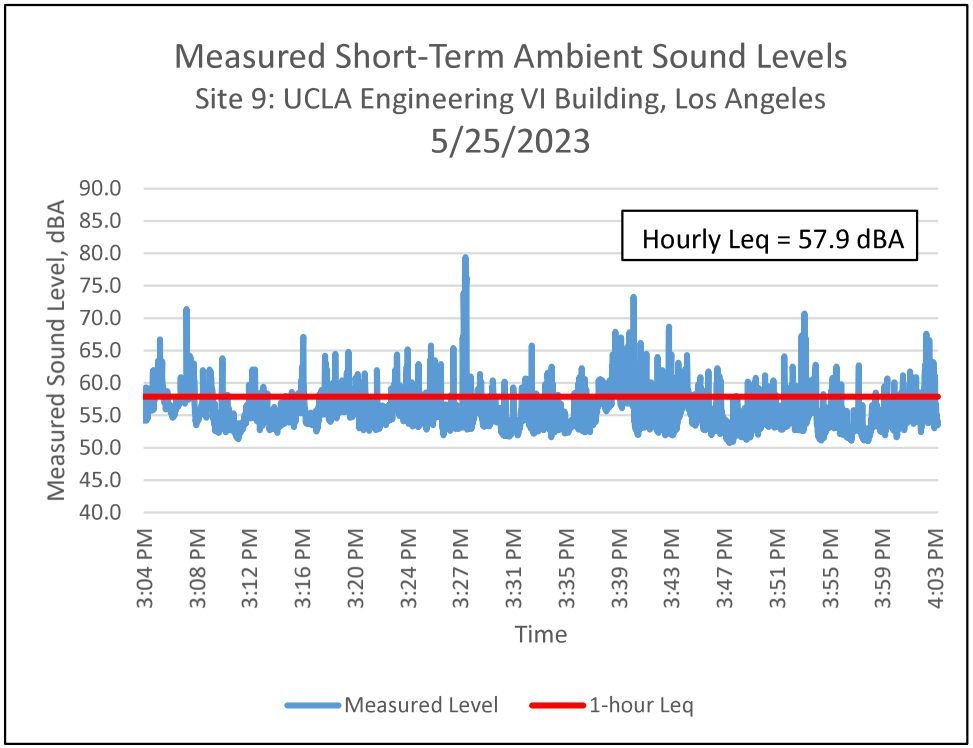
Noise Measurement Photographs at Site 9 – UCLA Engineering VI, 404 Westwood Plaza, Los Angeles

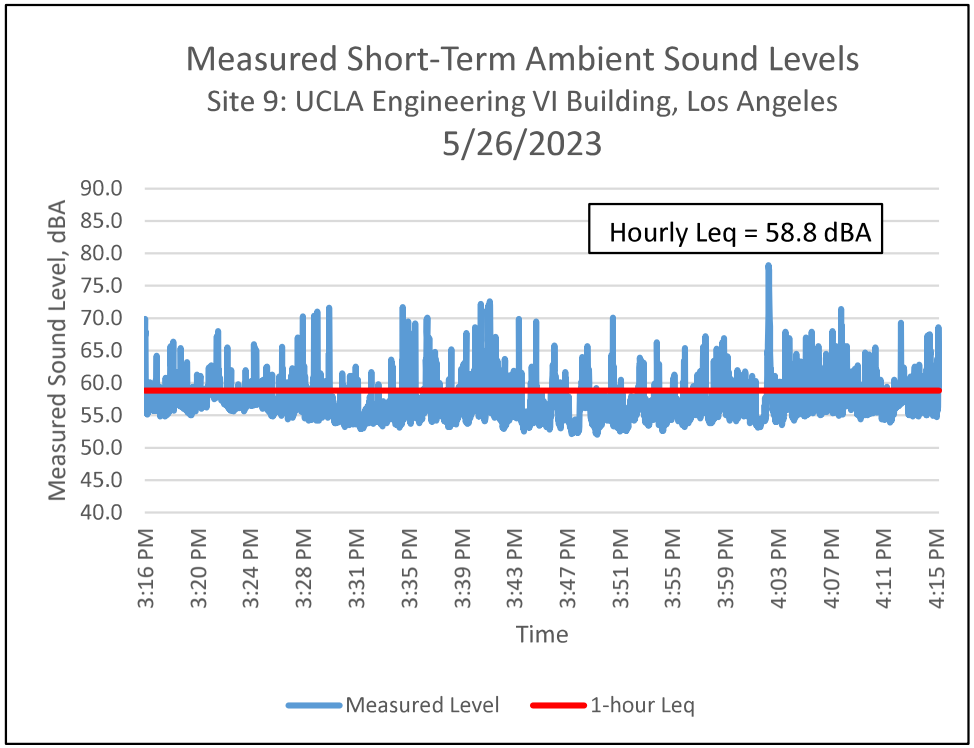
Looking Northeast

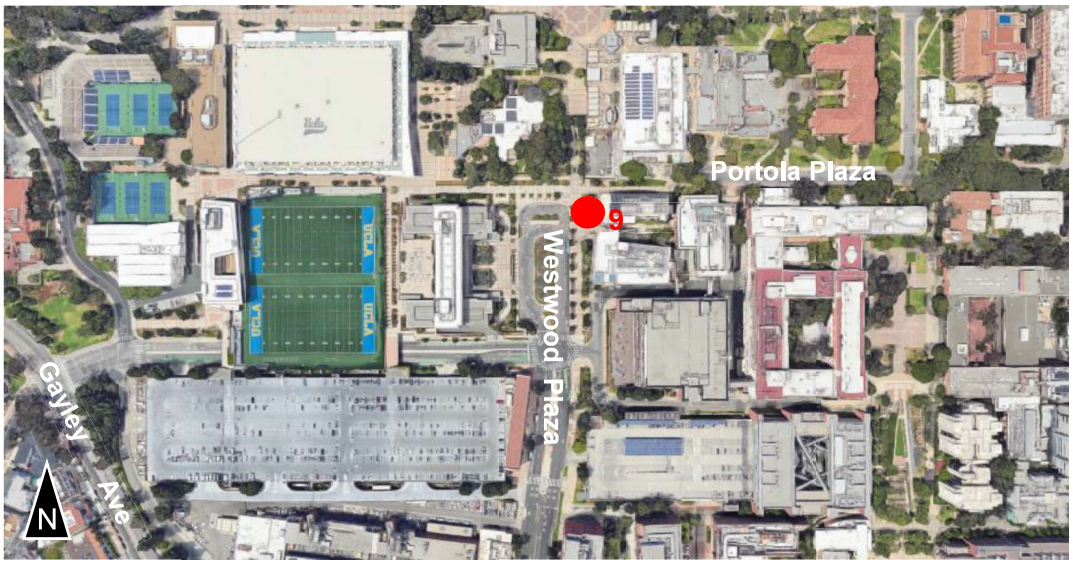
Looking Northwest

Looking Southwest

Looking Southeast

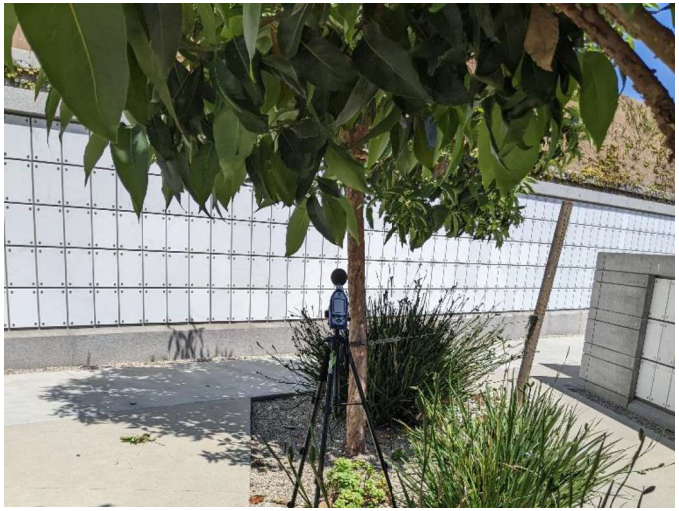






Leq: Measured average equivalent sound level during the 1-hour measurement period.

Noise Measurement Photographs at Site 11 – Los Angeles National Cemetery, Columbarium, Los Angeles

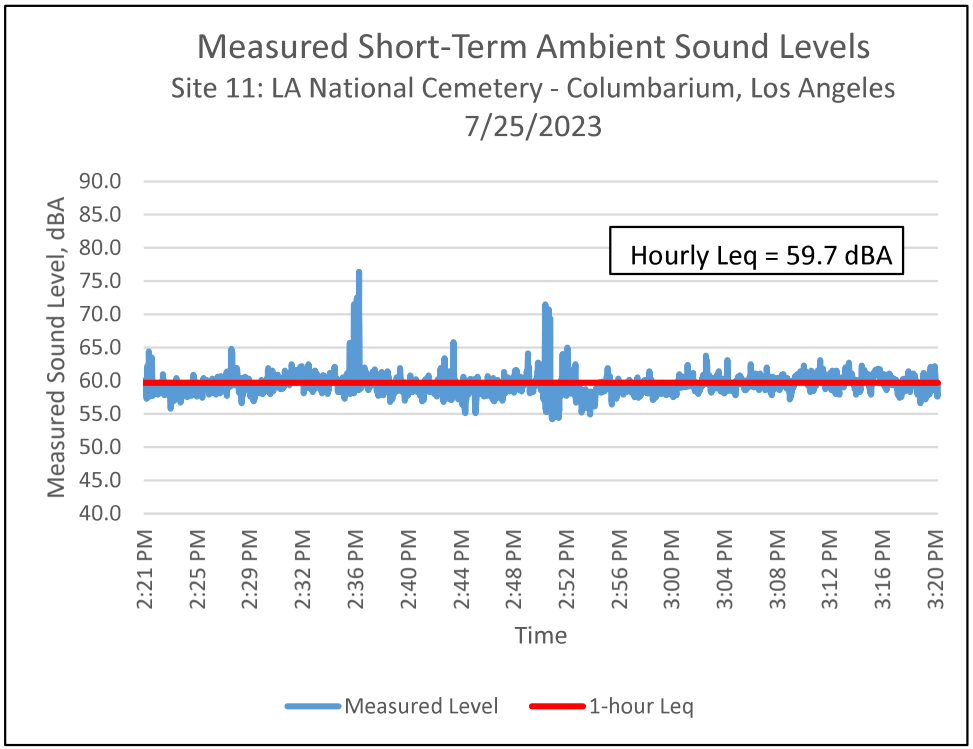


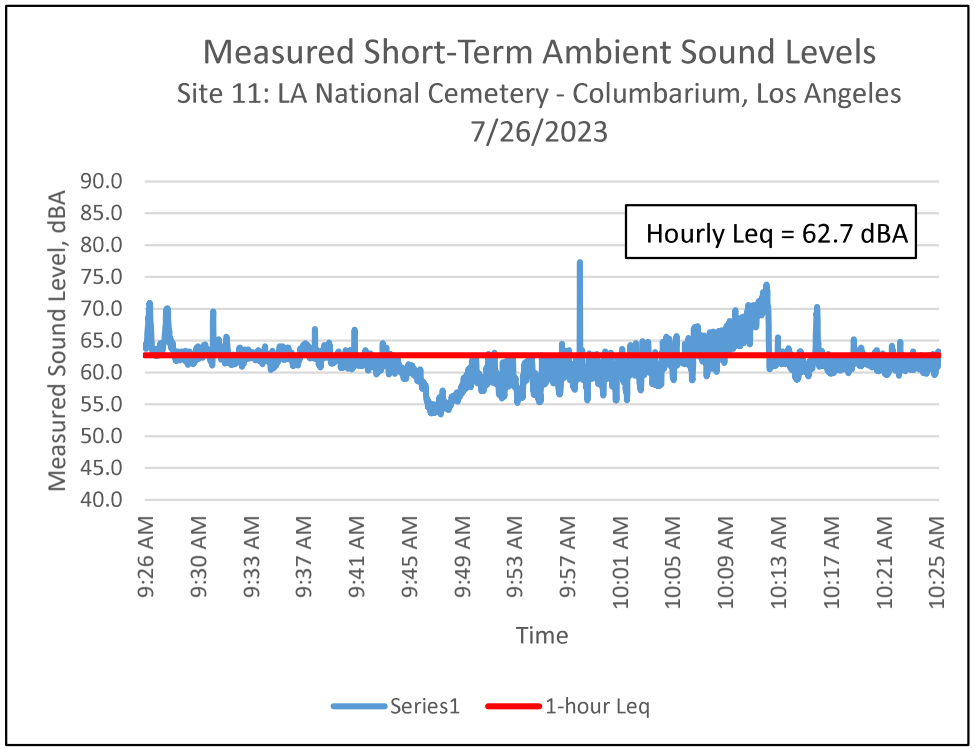
Looking Northeast

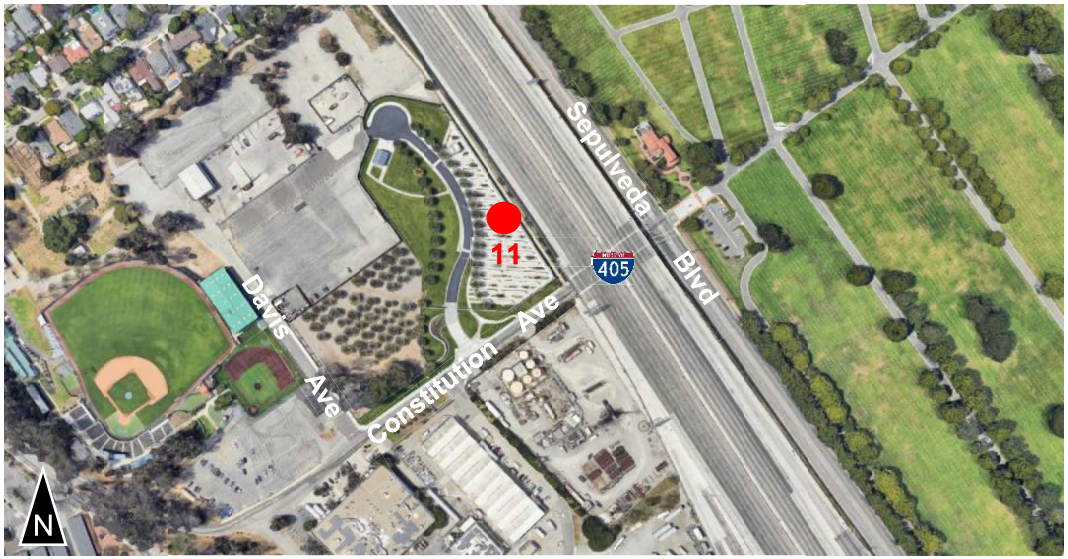
Looking Northwest

Looking Southwest

Looking Southeast

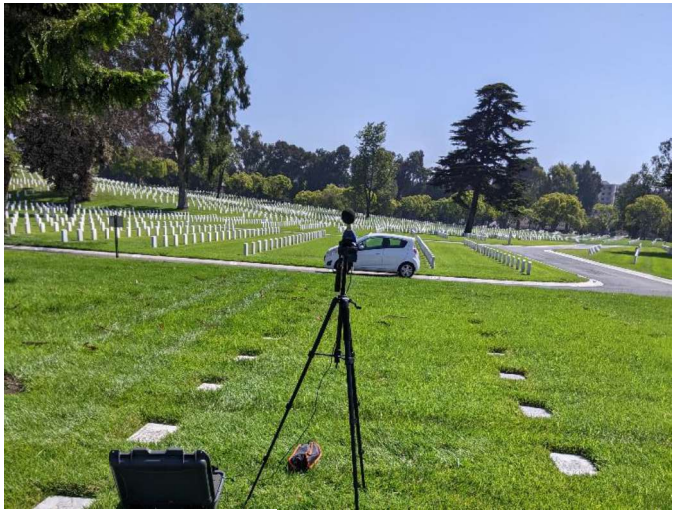






Leq: Measured average equivalent sound level during the 1-hour measurement period.

Noise Measurement Photographs at Site 12 – Los Angeles National Cemetery #3, 950 S Sepulveda Blvd, Los Angeles

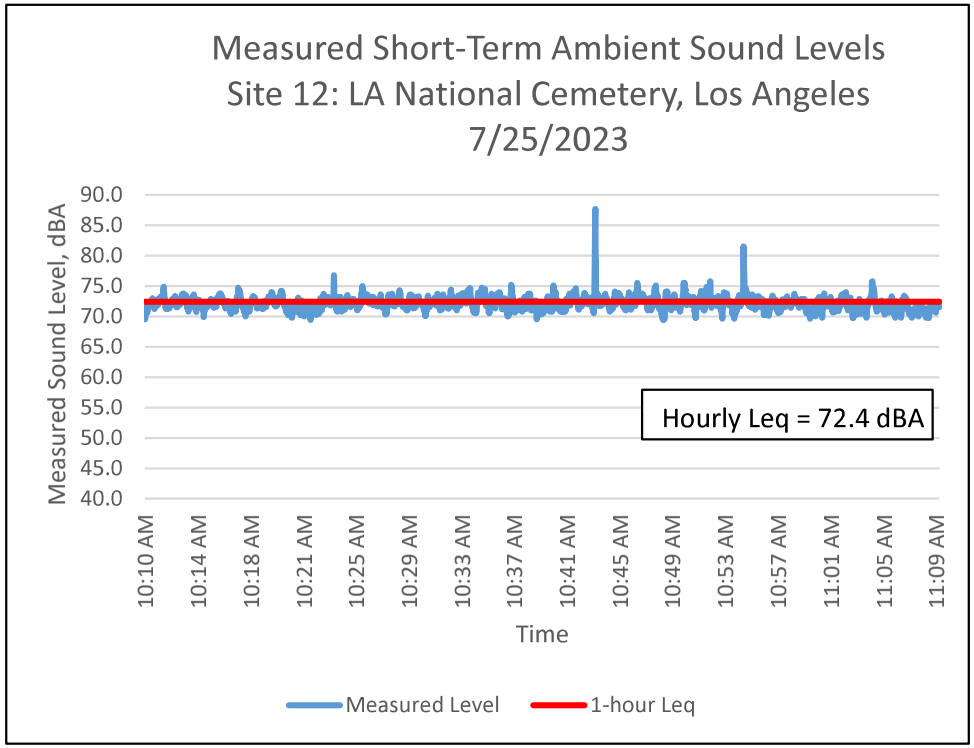


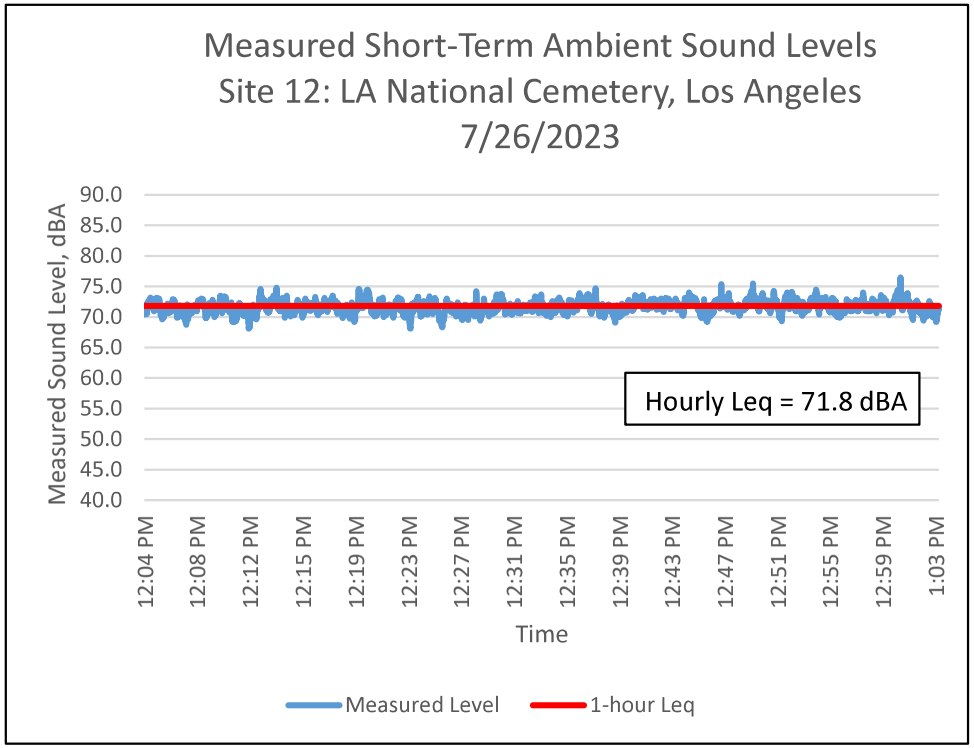
Looking Northeast

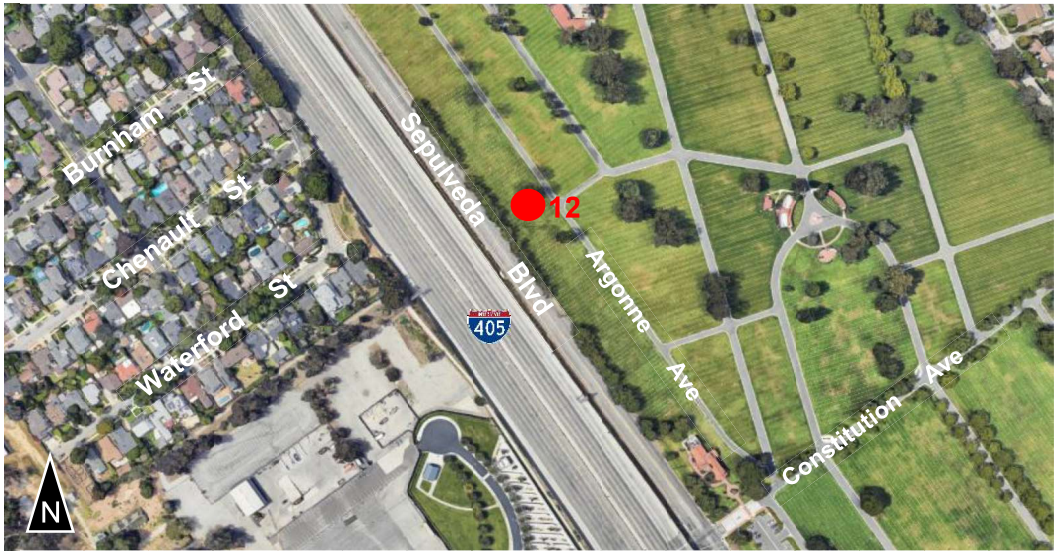
Looking Northwest

Looking Southwest

Looking Southeast







Leq: Measured average equivalent sound level during the 1-hour measurement period.

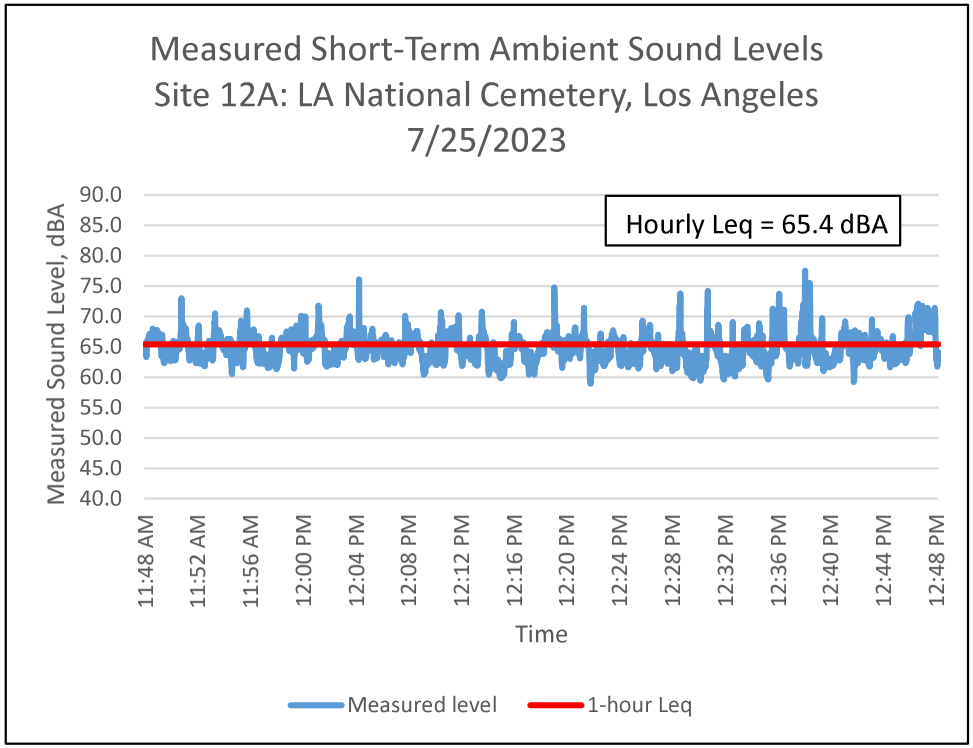
Noise Measurement Photographs at Site 12A – Los Angeles National Cemetery #1, 950 S Sepulveda Blvd, Los Angeles

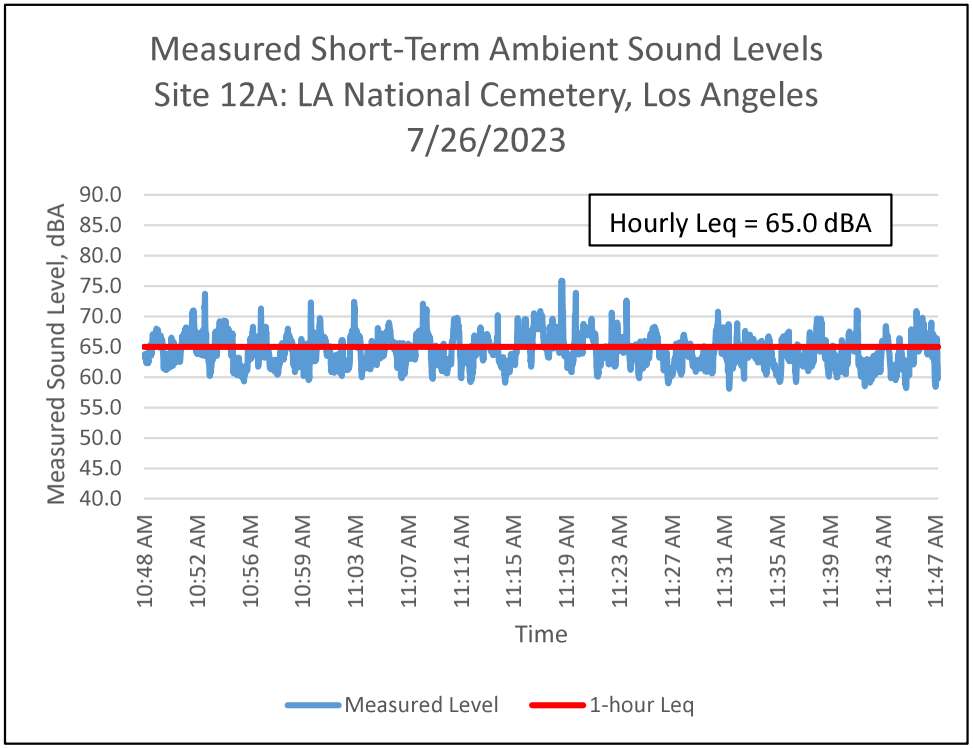
Looking Northeast

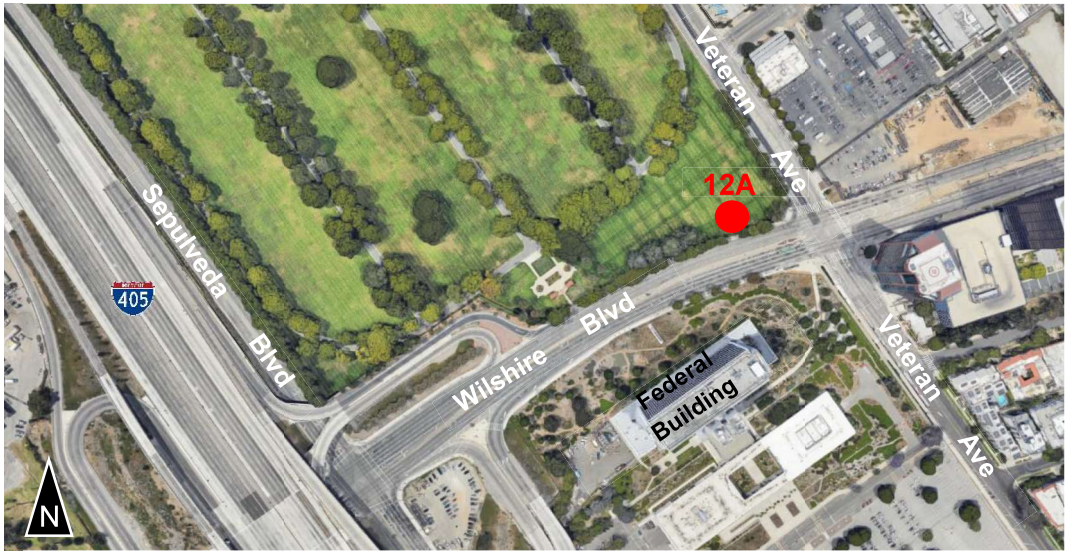
Looking Northwest

Looking Southwest

Looking Southeast



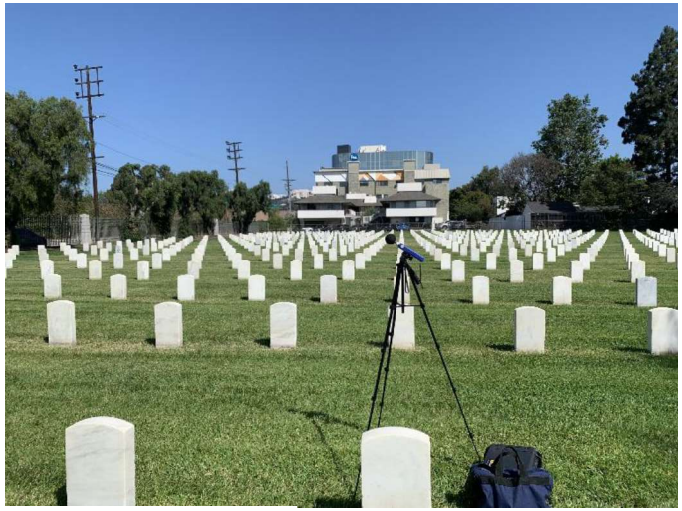




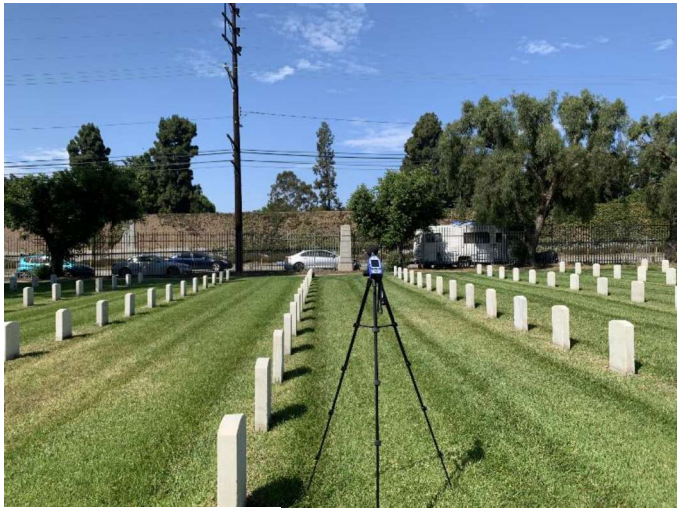
Leq: Measured average equivalent sound level during the 1-hour measurement period.

Noise Measurement Photographs at Site 13 – Los Angeles National Cemetery #4, 950 S Sepulveda Blvd, Los Angeles

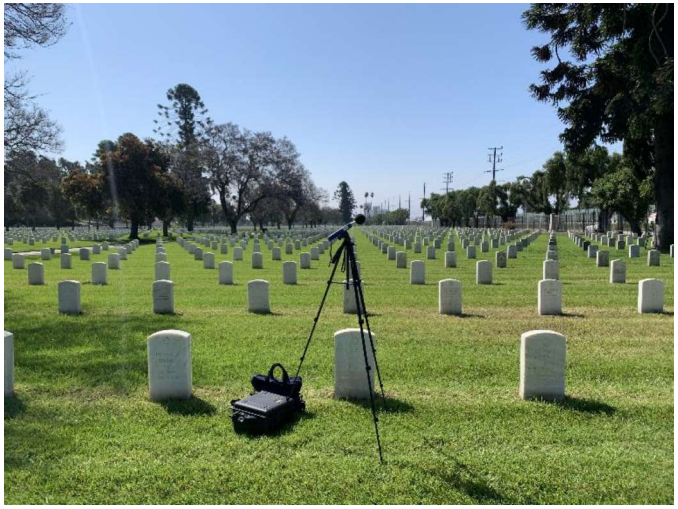
Looking Northeast



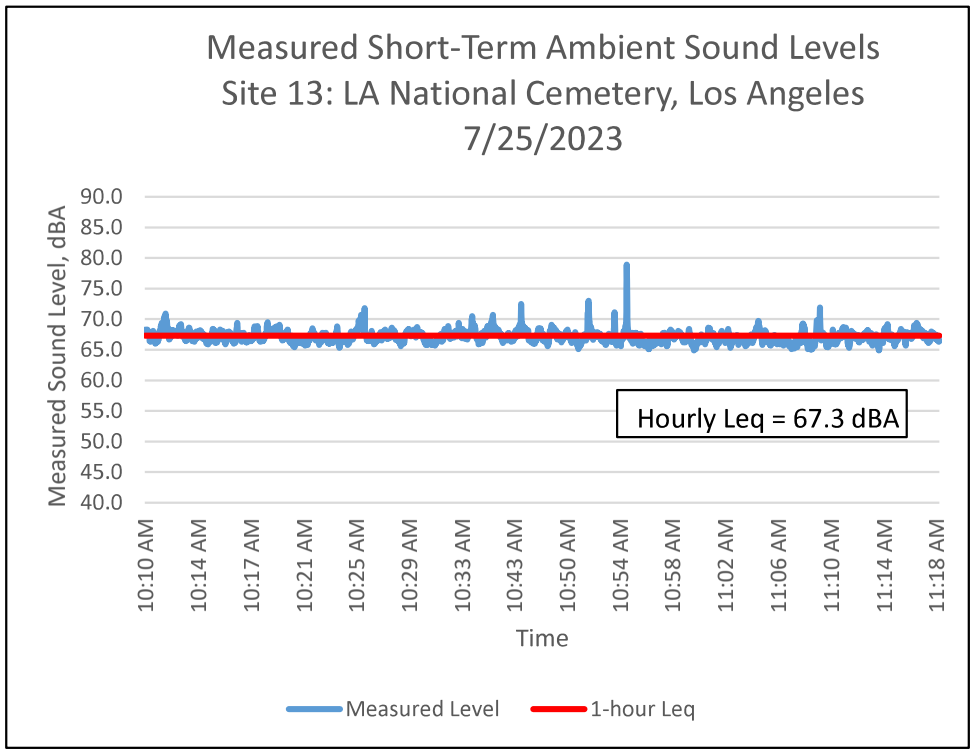
Looking Northwest

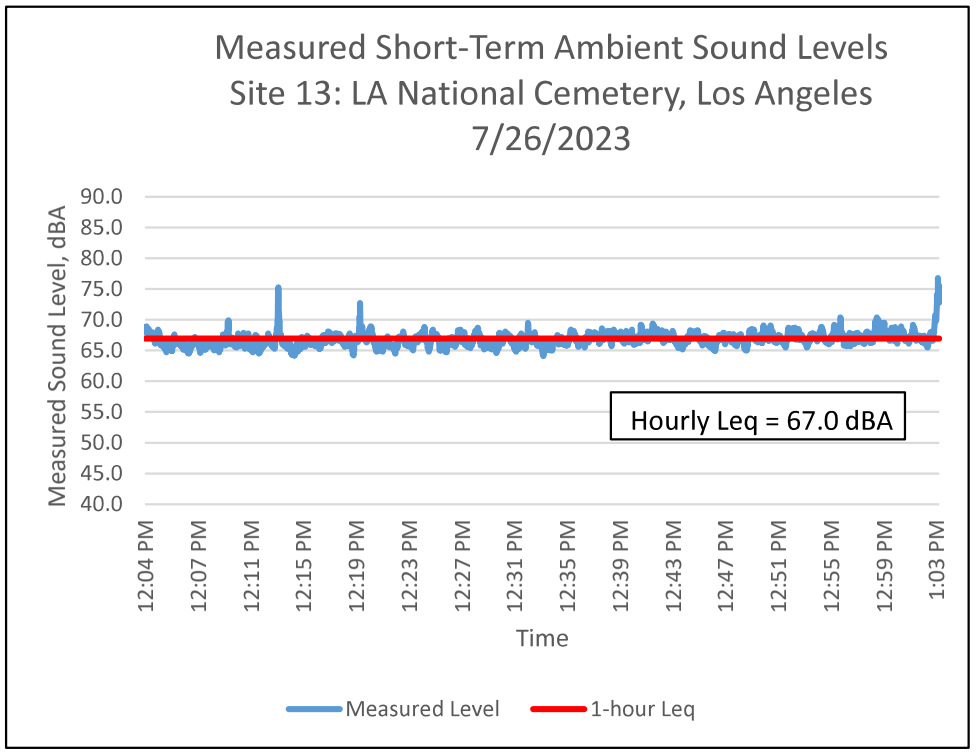


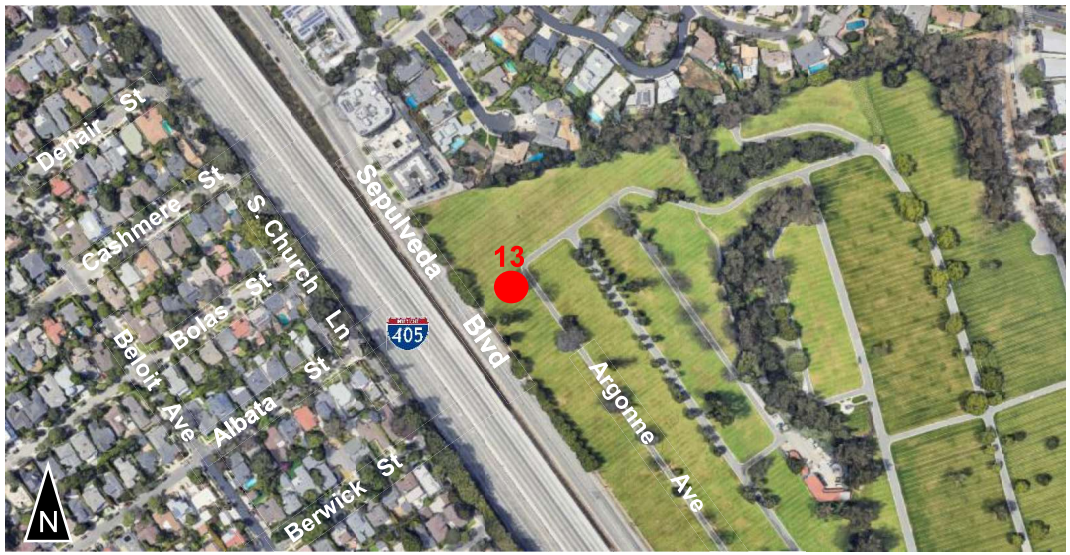
Looking Southwest



Looking Southeast







Leq: Measured average equivalent sound level during the 1-hour measurement period.

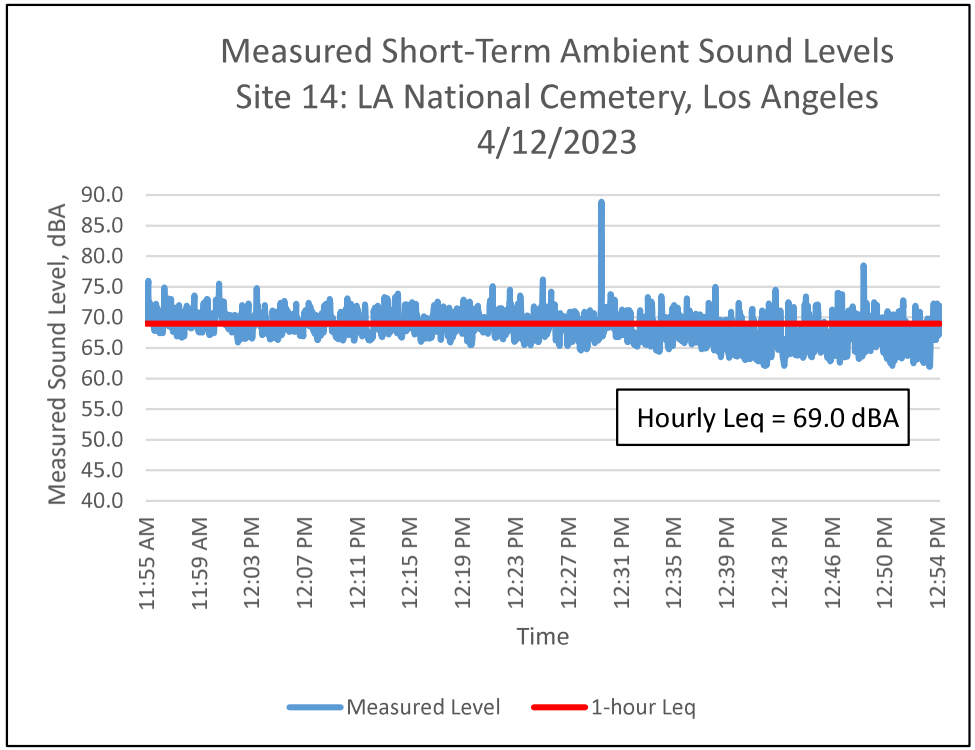
Noise Measurement Photographs at Site 14 – Los Angeles National Cemetery #5, 950 S Sepulveda Blvd, Los Angeles

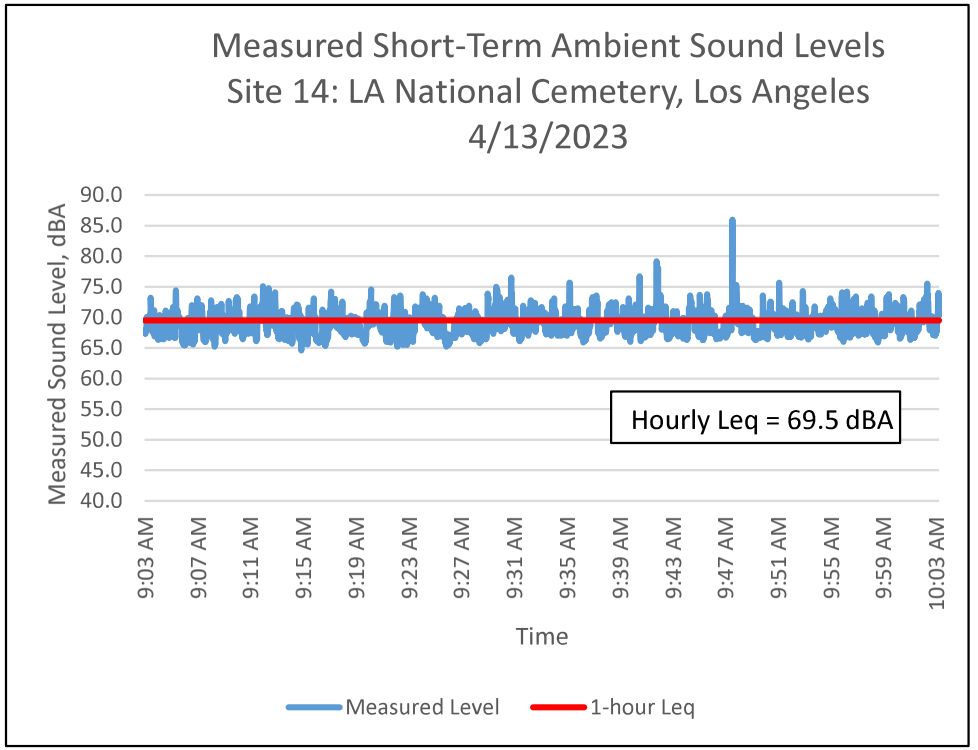
Looking Northeast

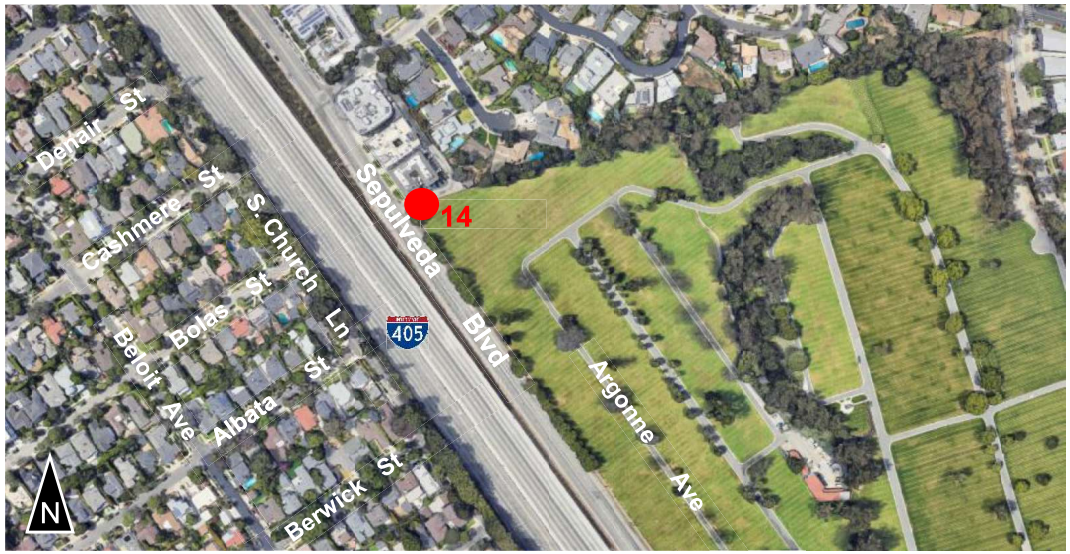
Looking Northwest

Looking Southwest

Looking Southeast







Leq: Measured average equivalent sound level during the 1-hour measurement period.

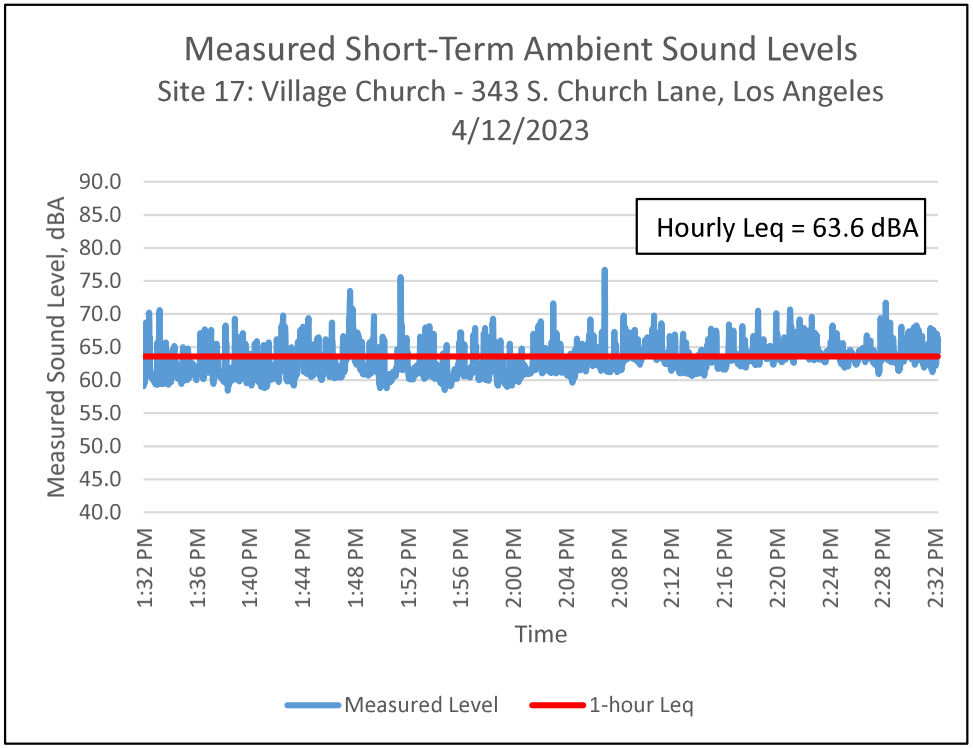
Noise Measurement Photographs at Site 17 – Village Church-Westwood Lutheran, 343 S. Church Ln, Los Angeles

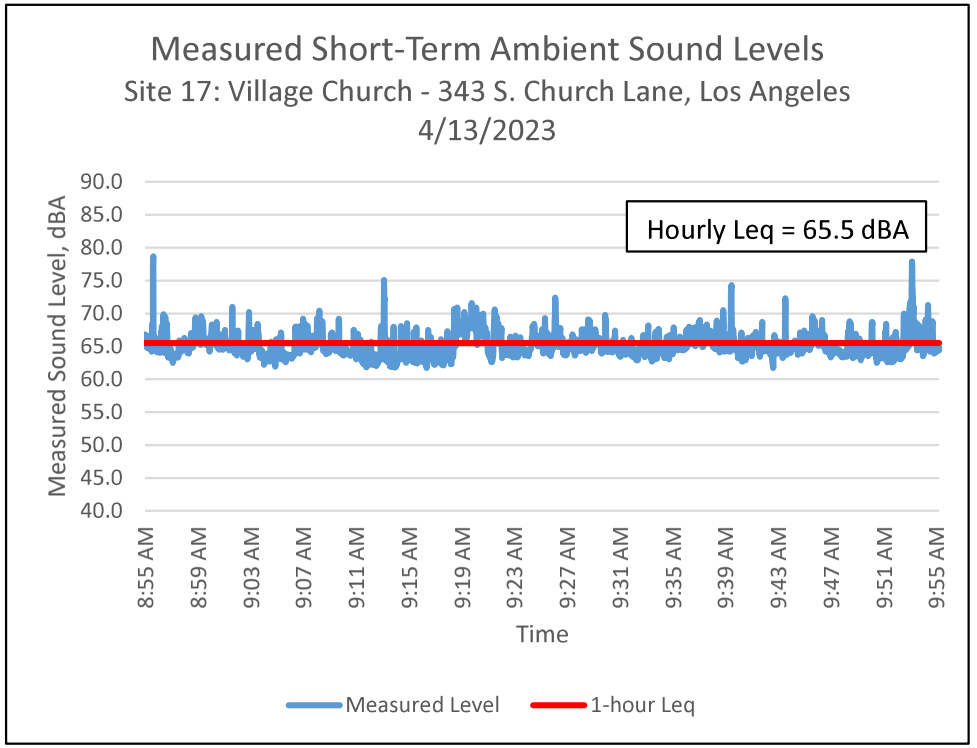
Looking Northeast

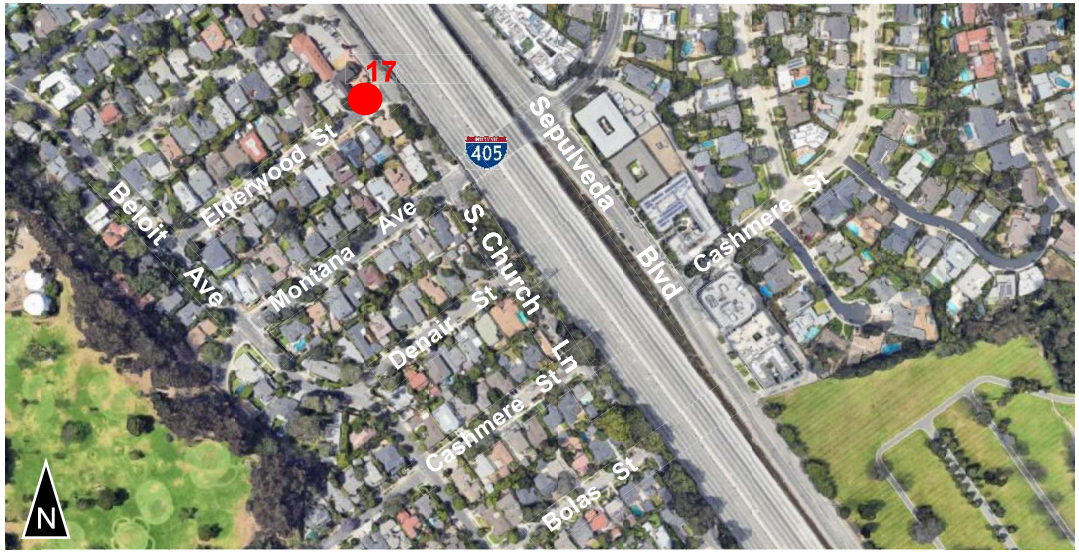
Looking Northwest

Looking Southwest

Looking Southeast







Leq: Measured average equivalent sound level during the 1-hour measurement period.

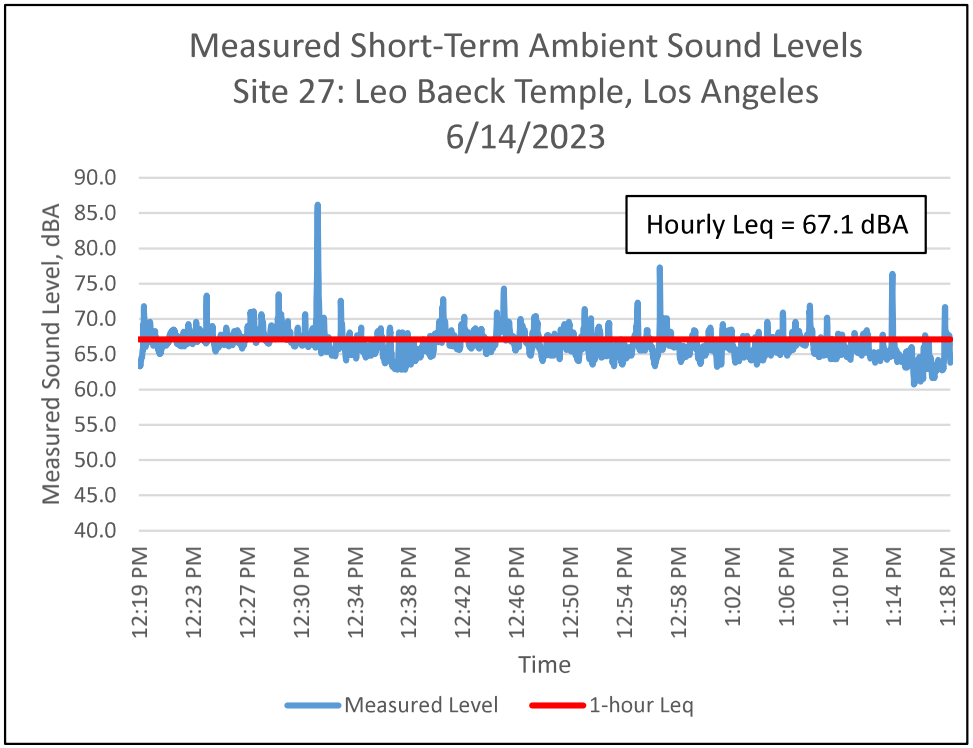
Noise Measurement Photographs at Site 27 – Leo Baeck Temple, 1300 N. Sepulveda Blvd, Los Angeles

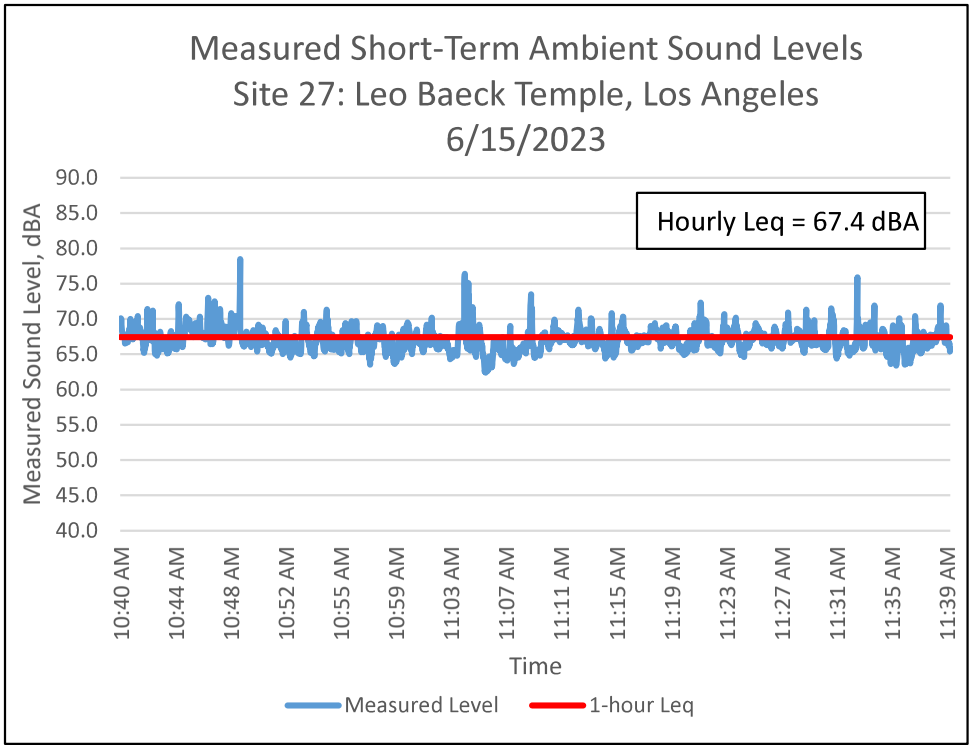
Looking Northeast

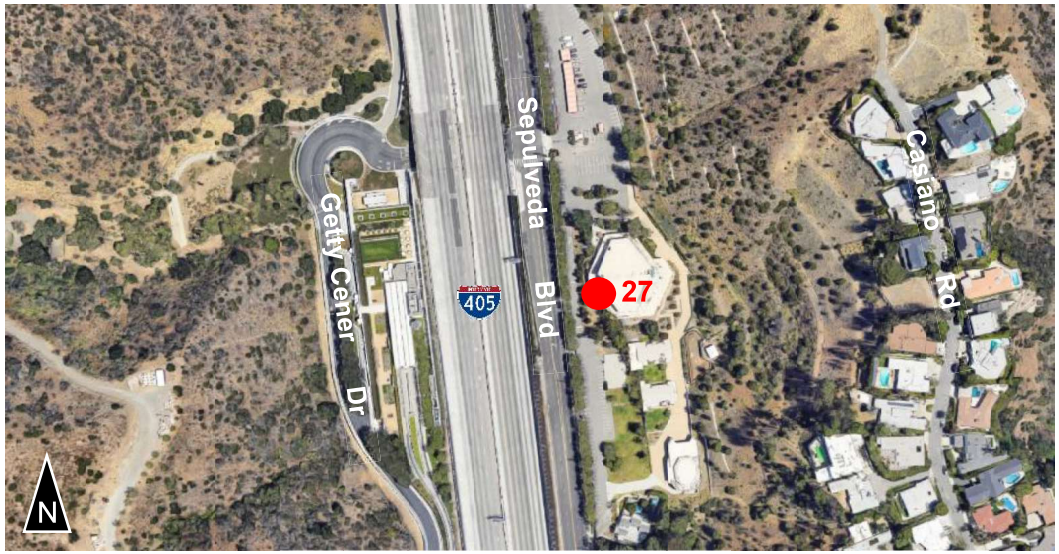
Looking Northwest

Looking Southwest

Looking Southeast







Leq: Measured average equivalent sound level during the 1-hour measurement period.

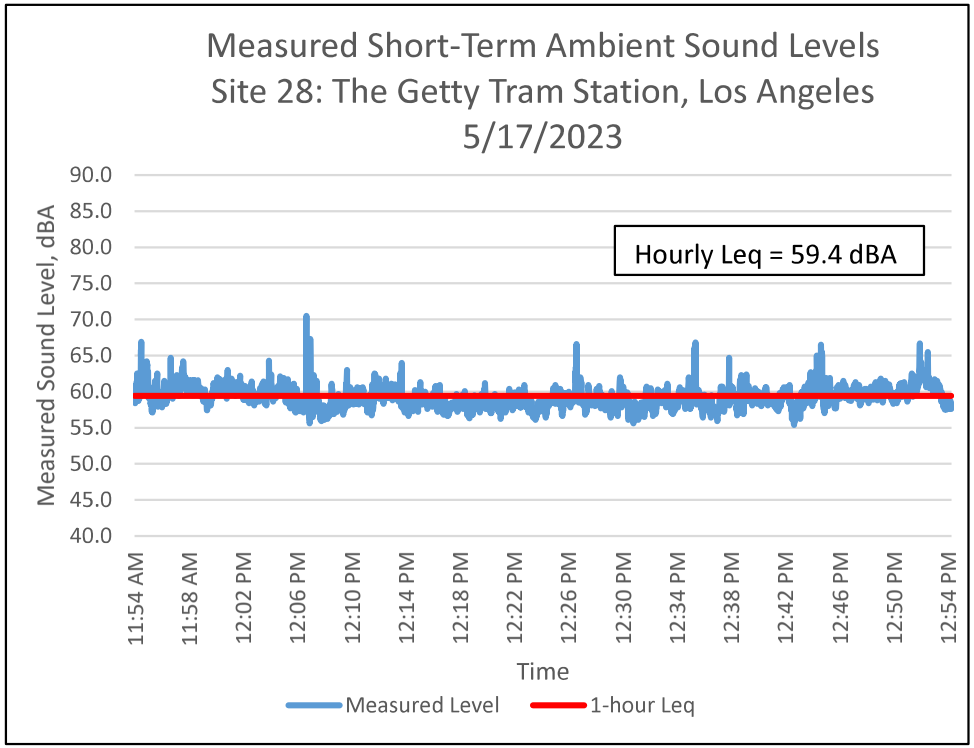
Noise Measurement Photographs at Site 28 – The Getty Tram Station, 1200 Getty Center Drive, Los Angeles

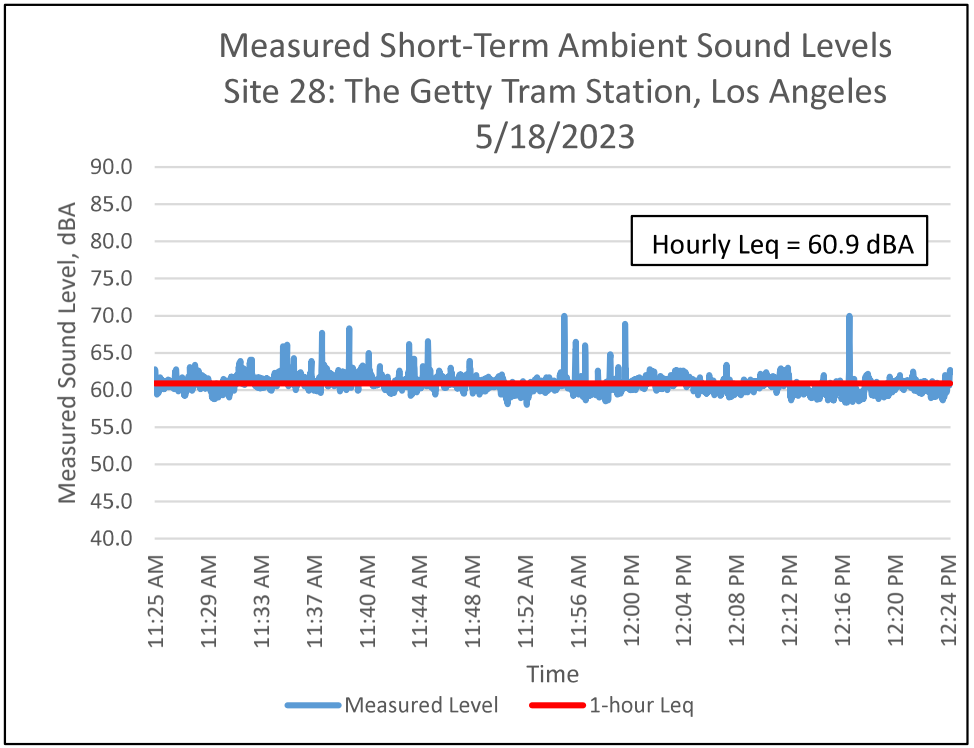
Looking East

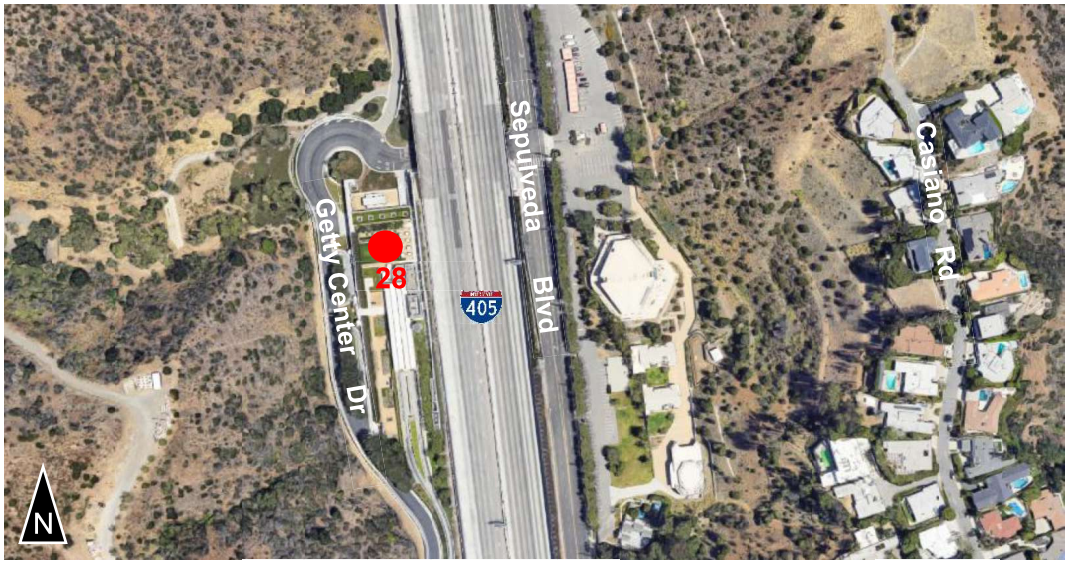
Looking North

Looking West

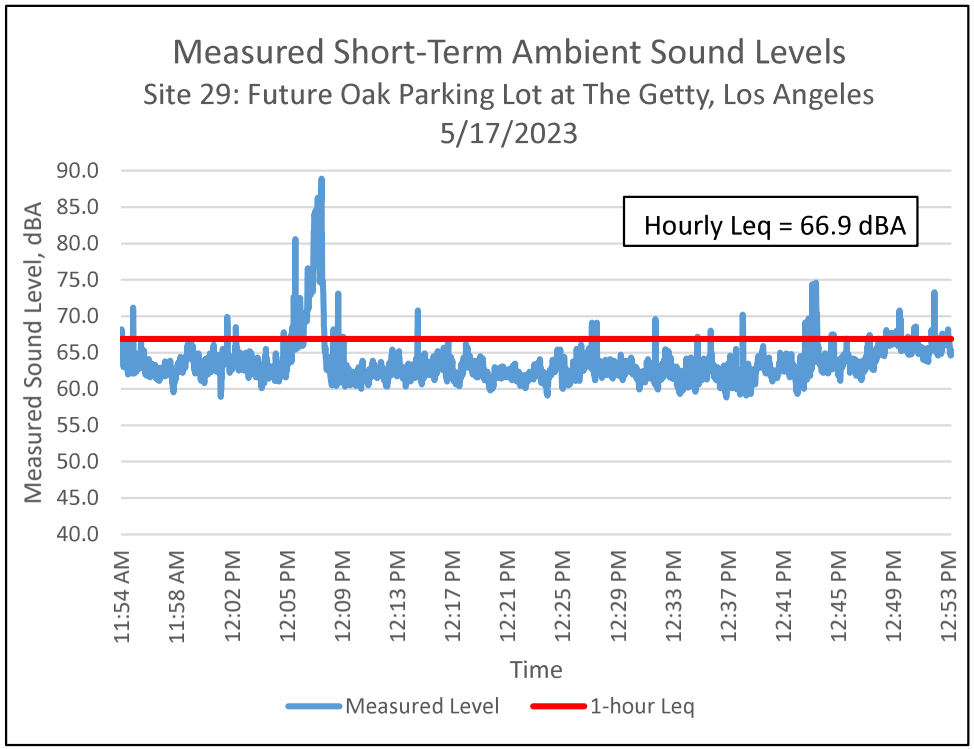
Looking South

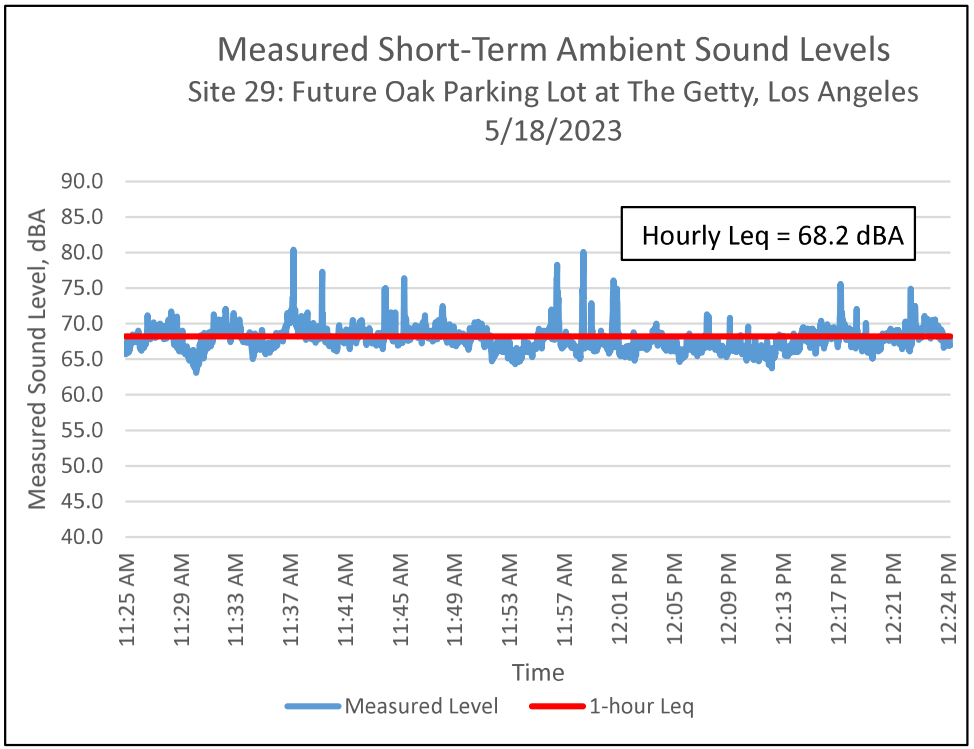


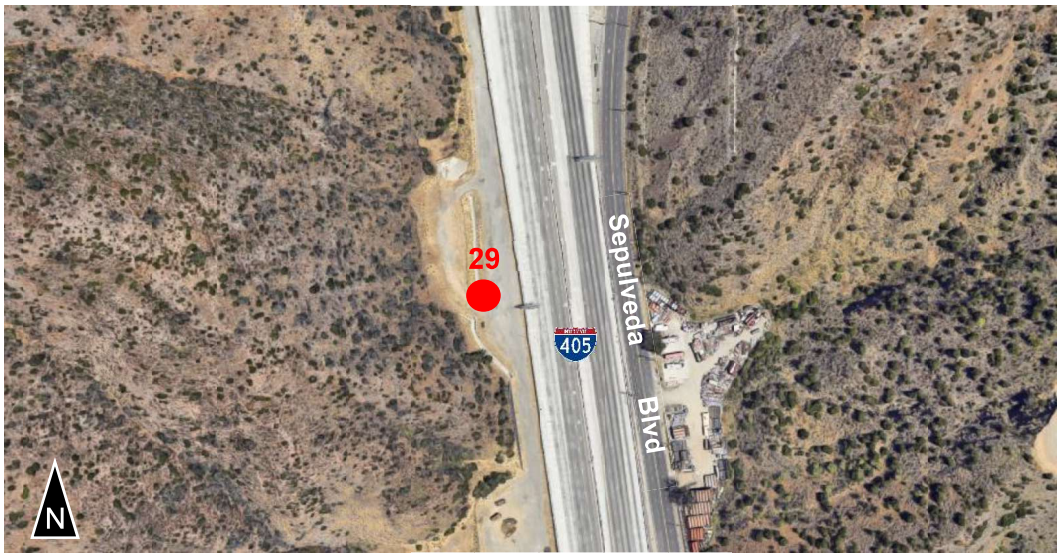




Leq: Measured average equivalent sound level during the 1-hour measurement period.



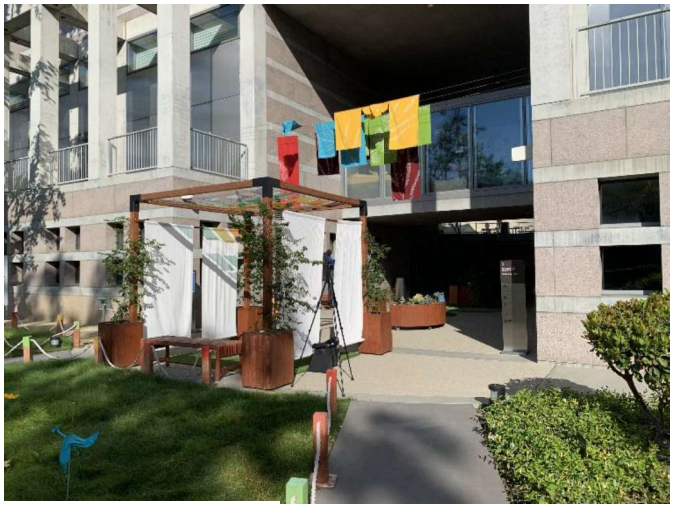




Leq: Measured average equivalent sound level during the 1-hour measurement period.

Noise Measurement Photographs at Site 33 – Skirball Cultural Center, Ziegler Amphitheater, East Façade
2701 N Sepulveda Blvd, Los Angeles

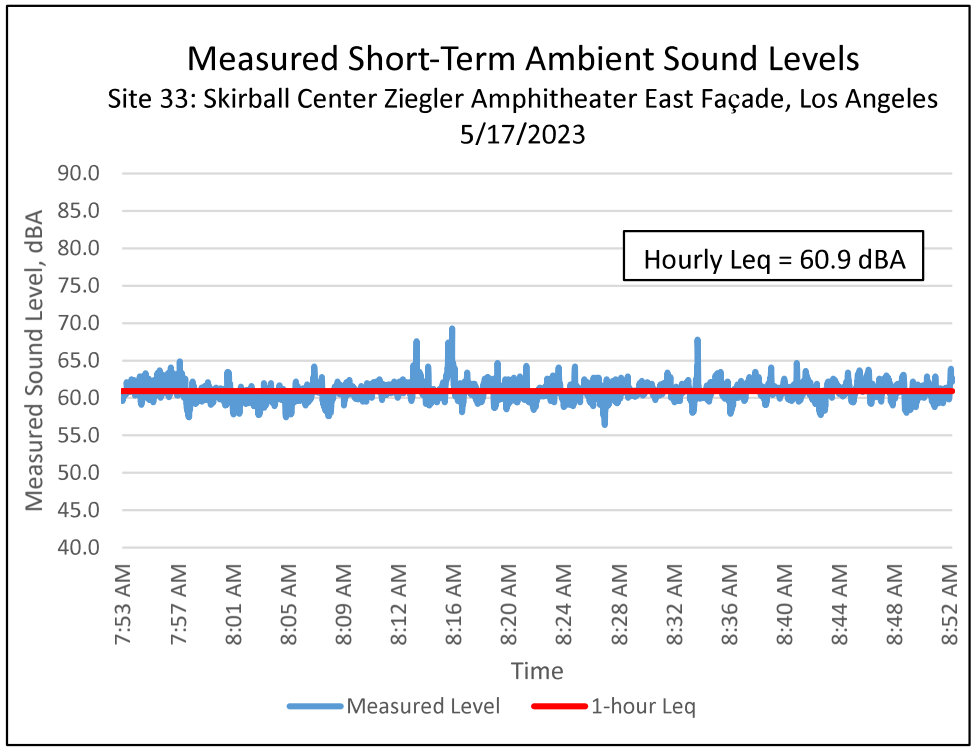
Looking North

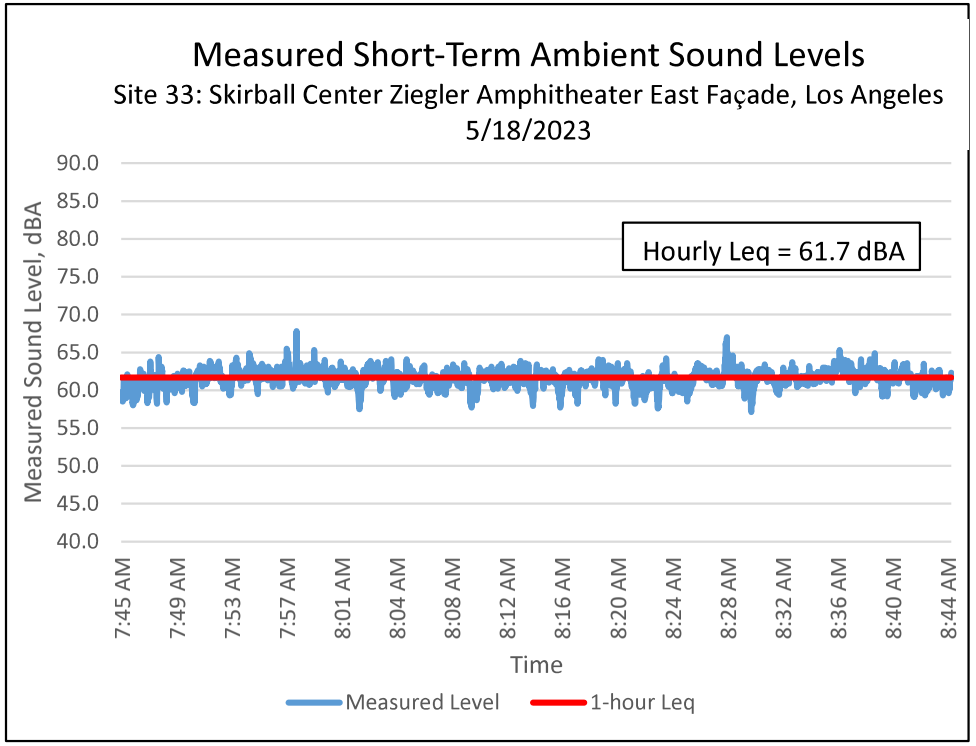


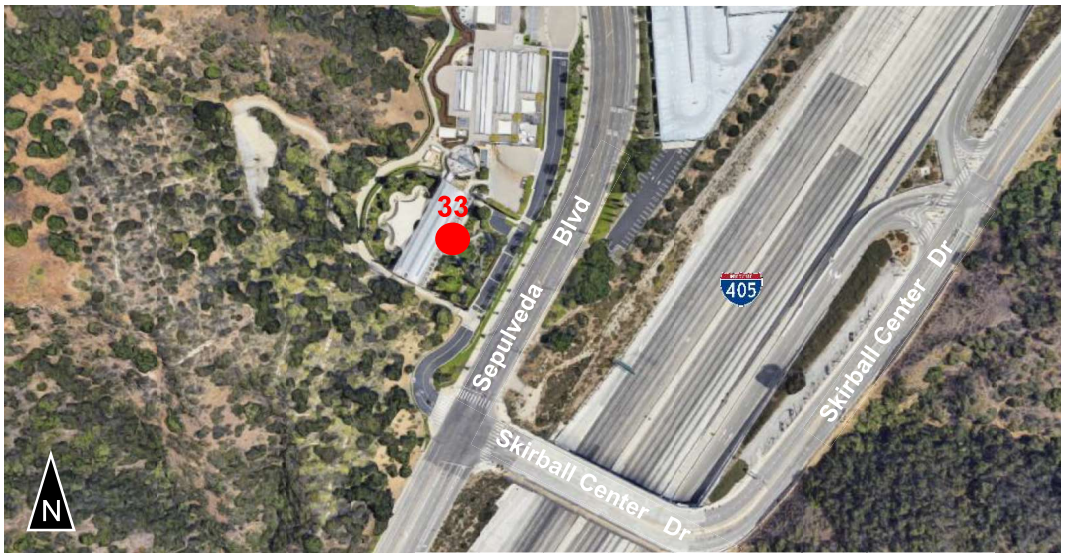
Looking West

Looking Southwest

Looking South

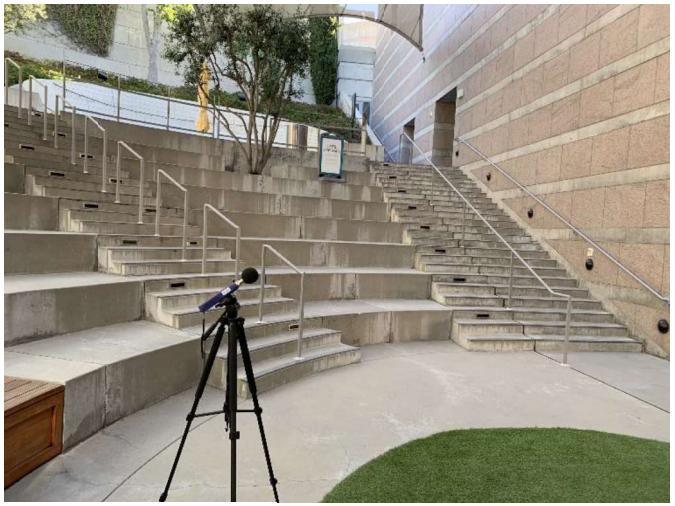






Leq: Measured average equivalent sound level during the 1-hour measurement period.

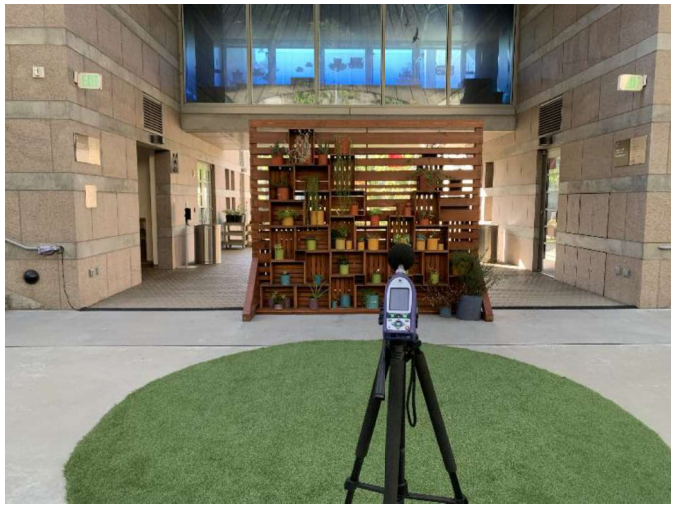
Noise Measurement Photographs at Site 34 – Skirball Cultural Center, Ziegler Amphitheater Interior
2701 N Sepulveda Blvd, Los Angeles



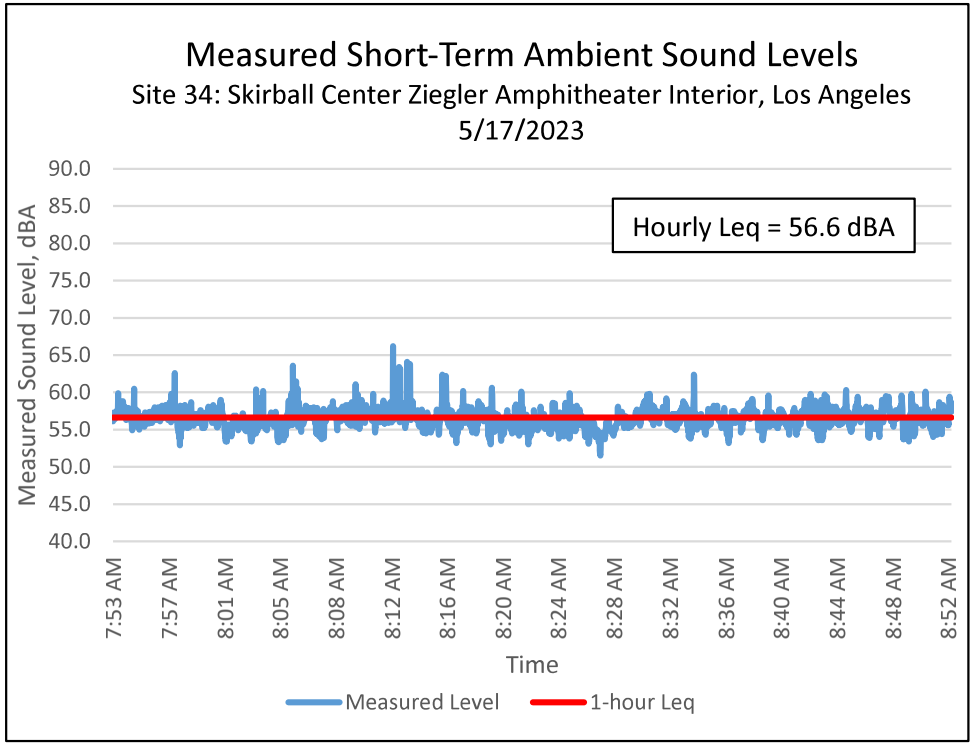
Looking Northeast

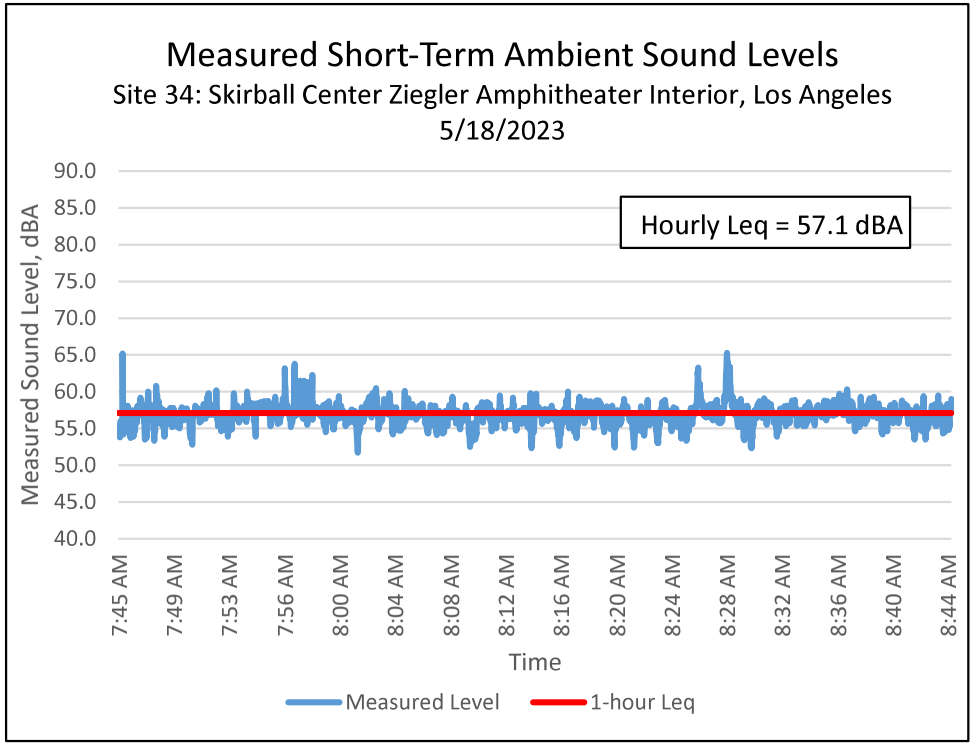
Looking Northwest

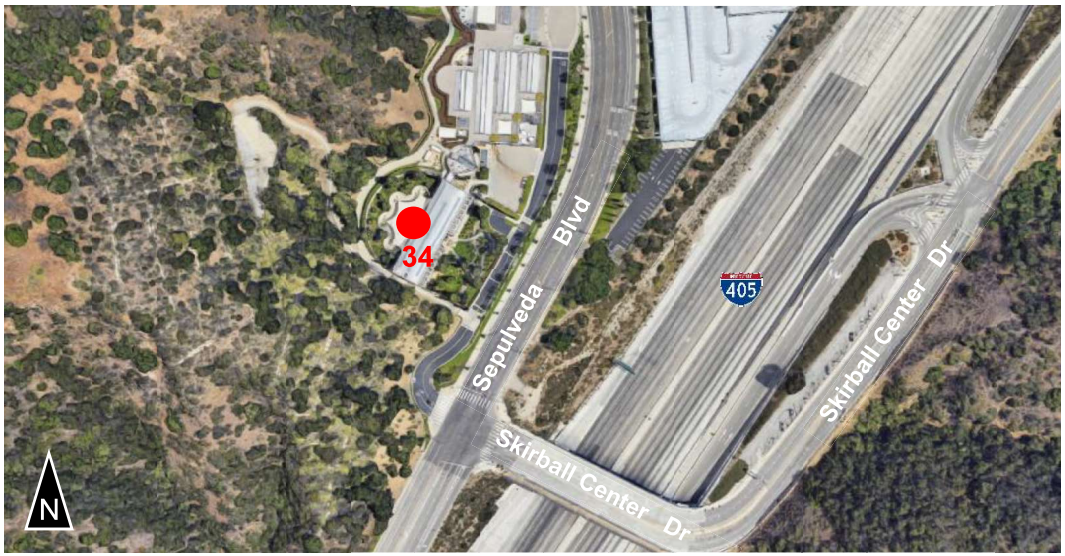
Looking Southwest



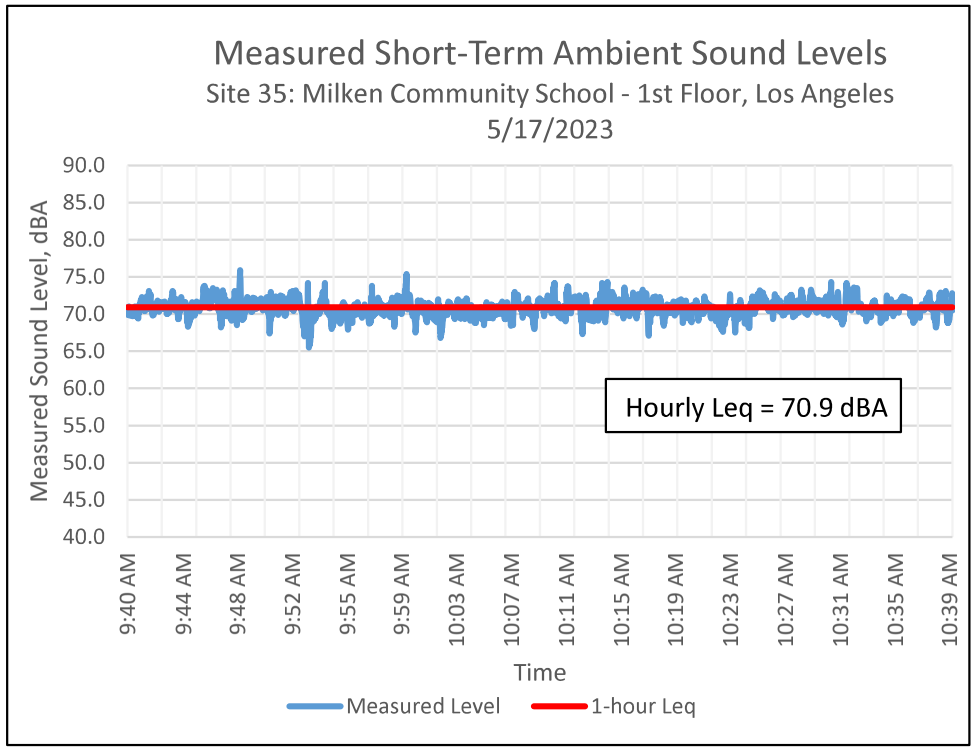
Looking Southeast

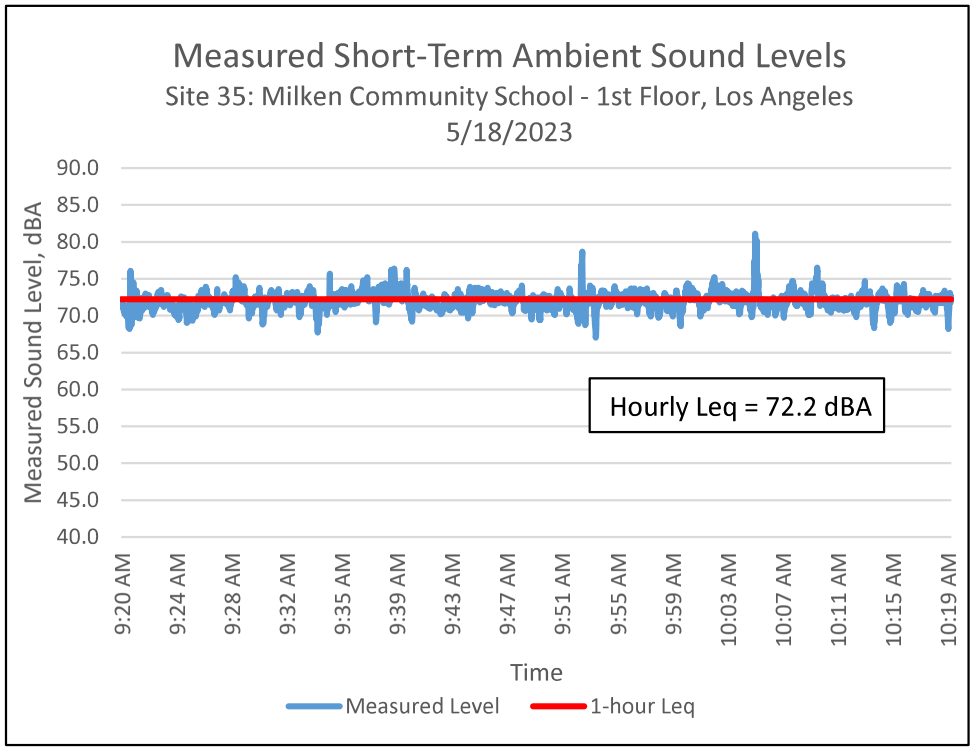


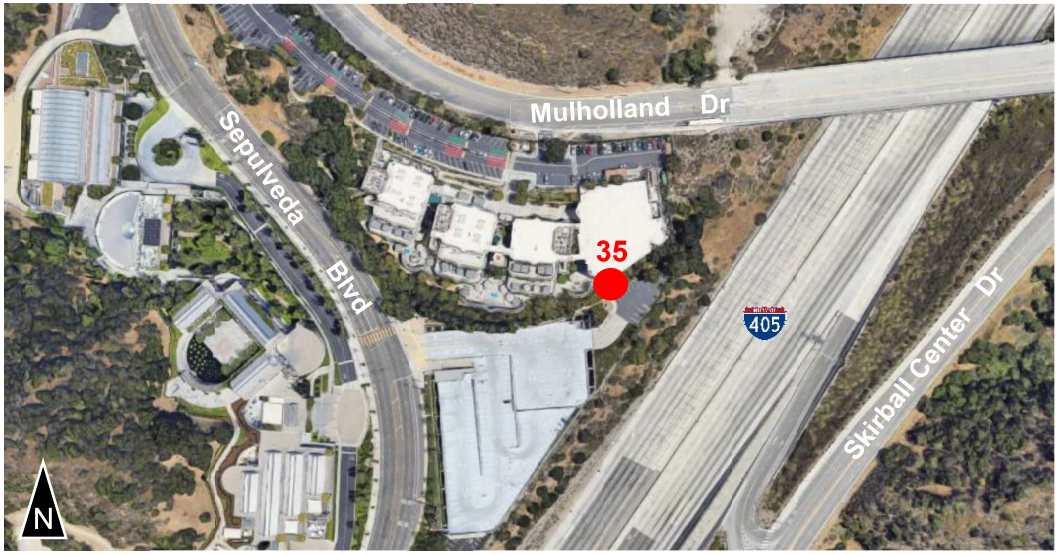




Leq: Measured average equivalent sound level during the 1-hour measurement period.







Leq: Measured average equivalent sound level during the 1-hour measurement period.

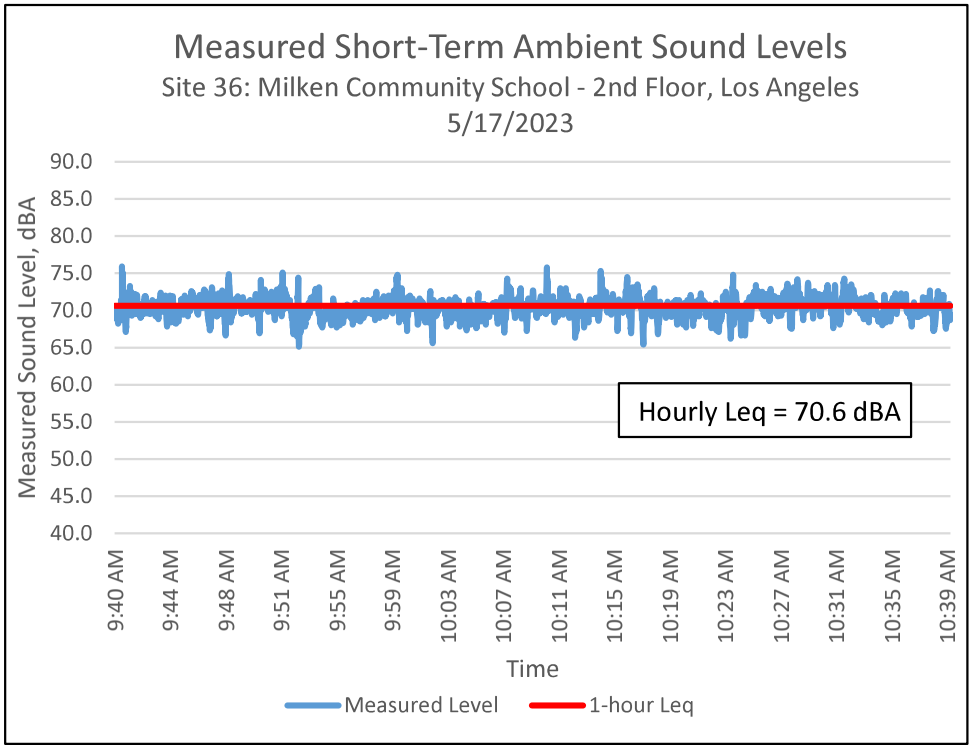
Noise Measurement Photographs at Site 36 – Milken Community School, Second Floor, 15800 Zeldins Way, Los Angeles

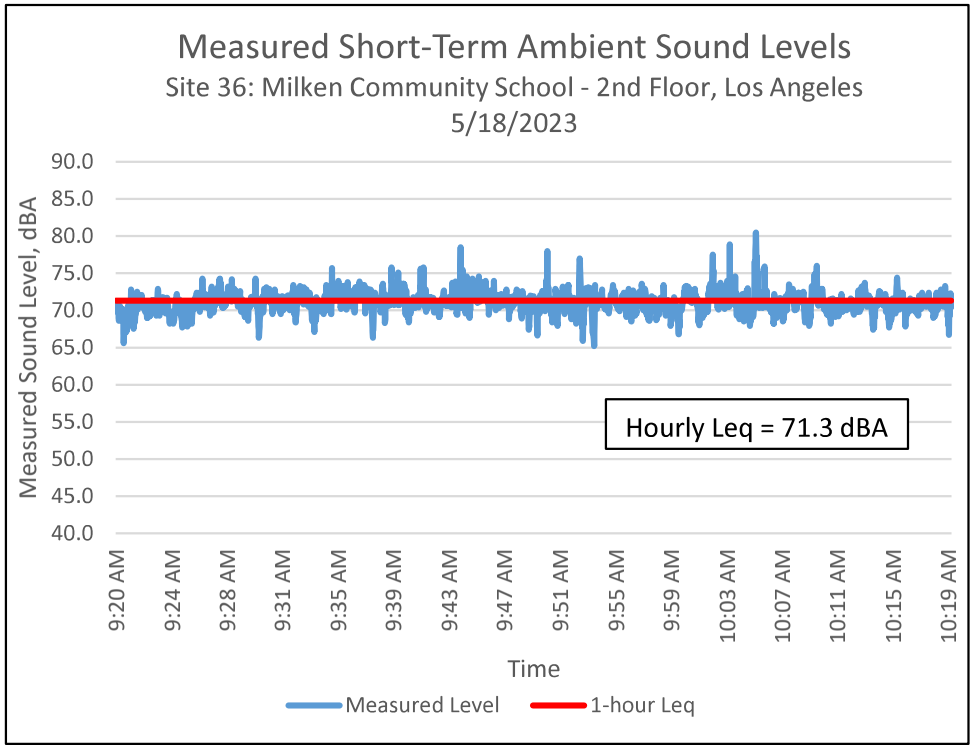
Looking East

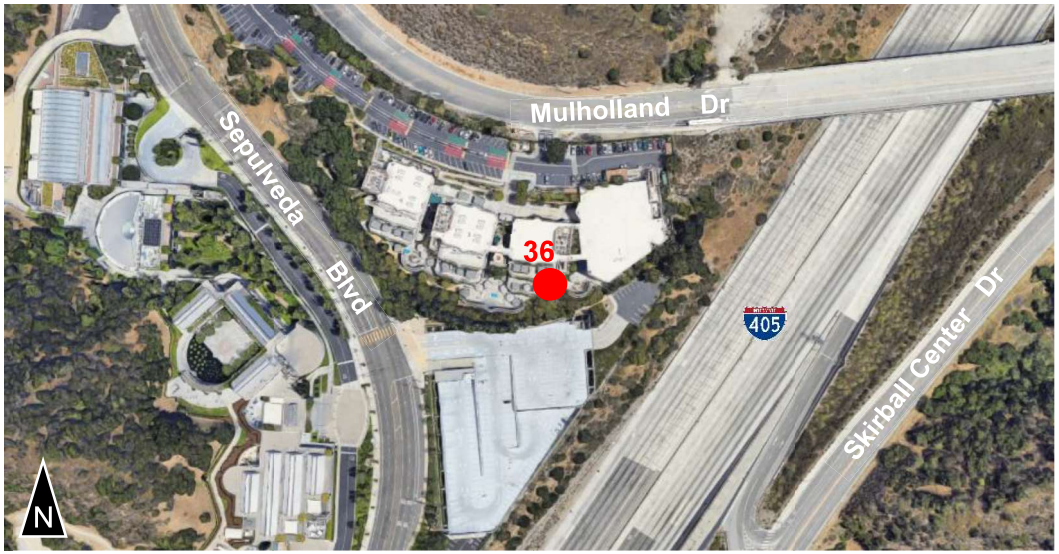
Looking North

Looking West

Looking South





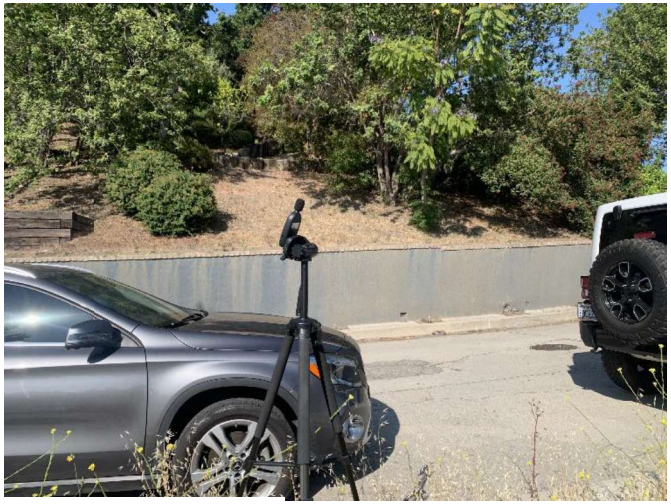


Leq: Measured average equivalent sound level during the 1-hour measurement period.

Noise Measurement Photographs at Site 40 – 15347 Del Gado Dr, Sherman Oaks

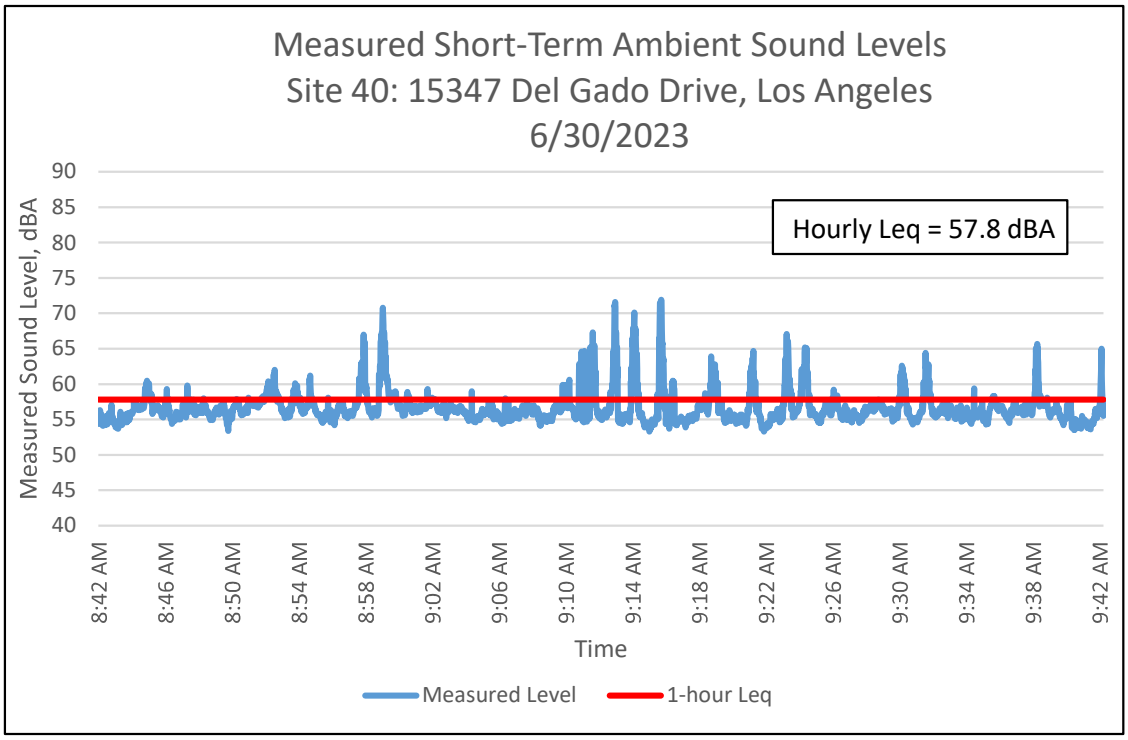
Looking Northeast

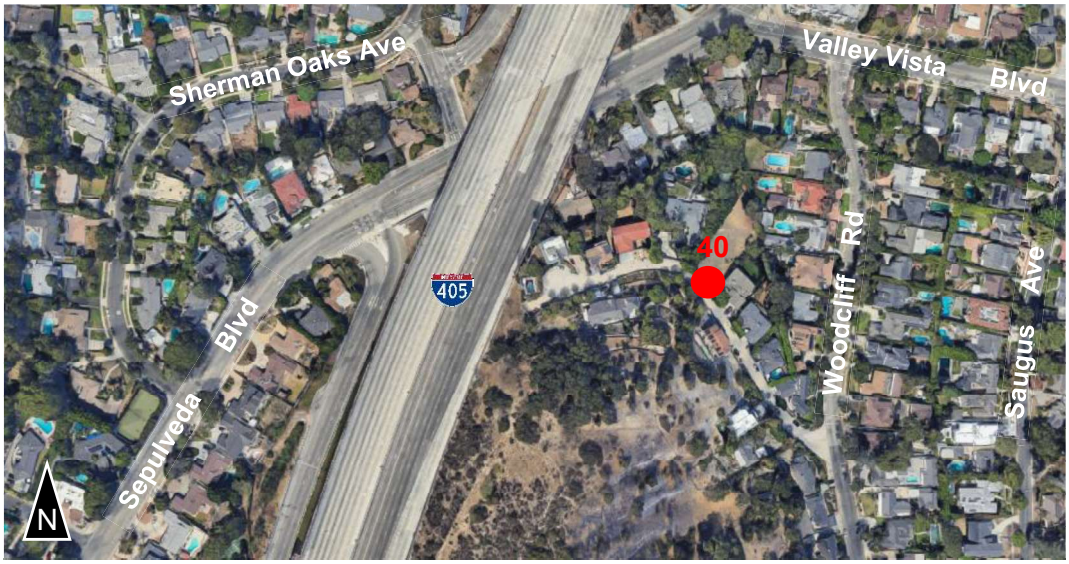
Looking Northwest



Looking Southwest

Looking Southeast





Leq: Measured average equivalent sound level during the 1-hour measurement period.

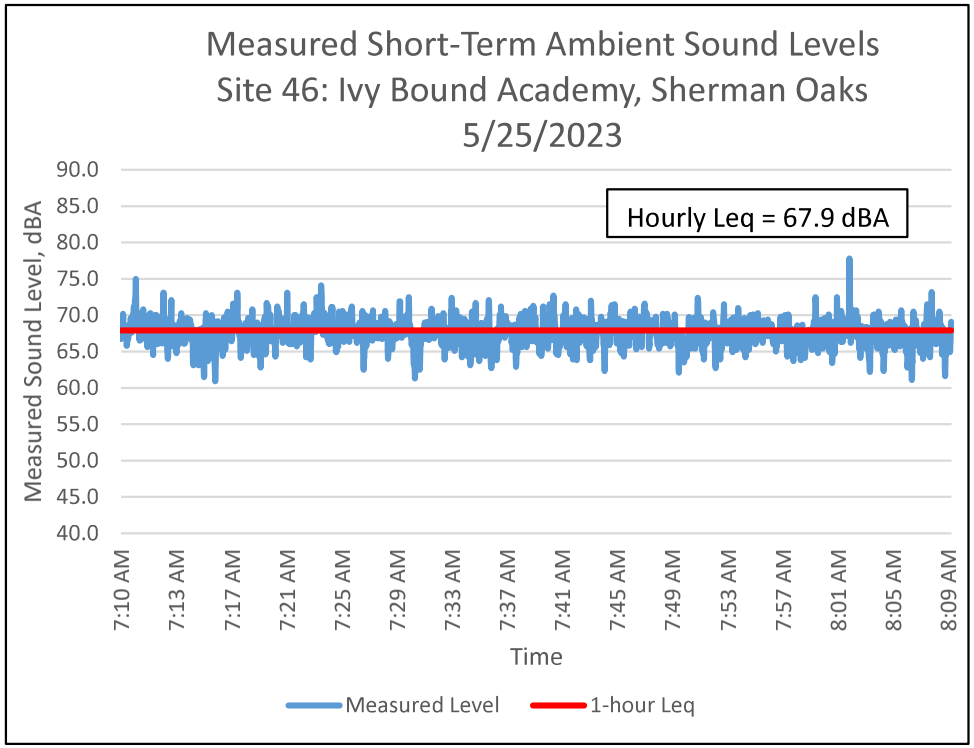
Noise Measurement Photographs at Site 46 – Ivy Bound Academy, 15355 Morrison St, Sherman Oaks

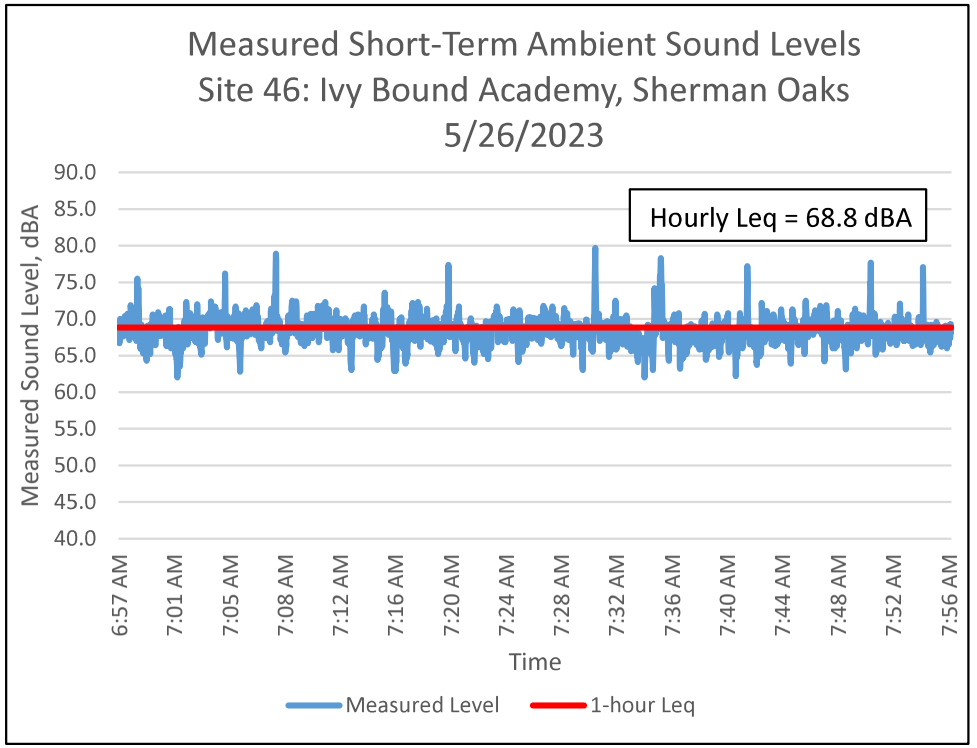
Looking East

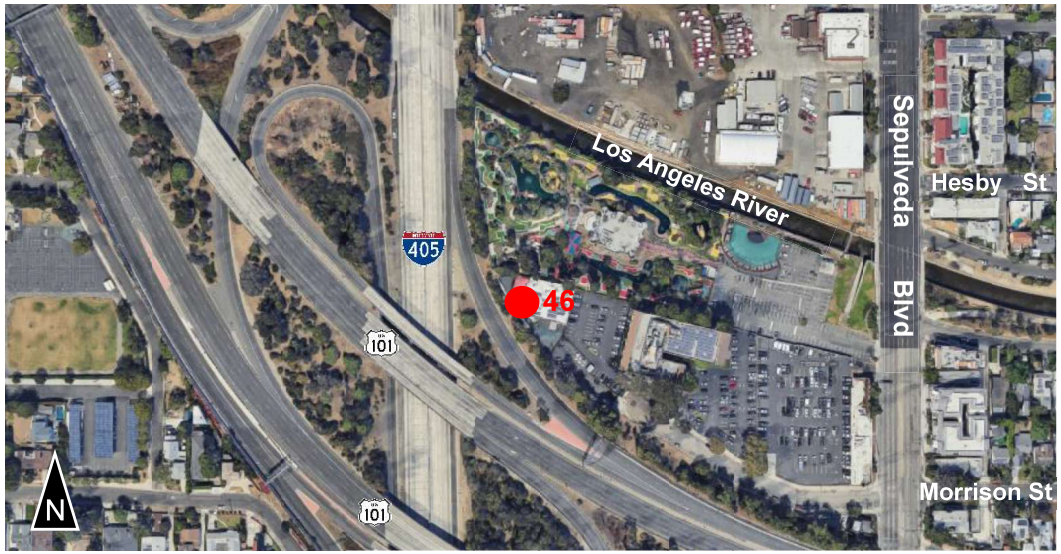
Looking North

Looking West

Looking South



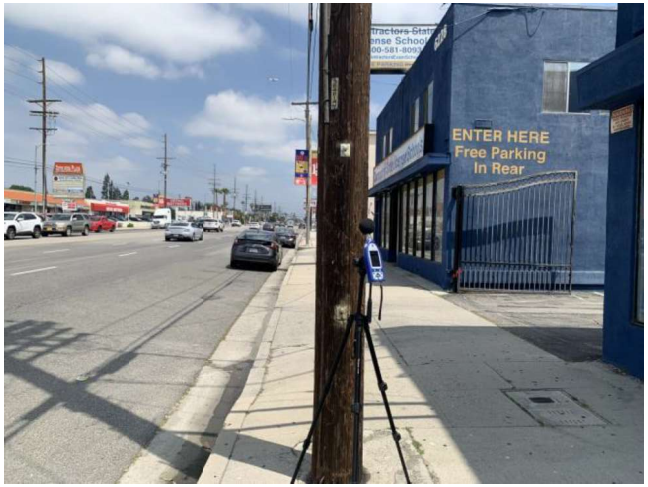




Leq: Measured average equivalent sound level during the 1-hour measurement period.

Noise Measurement Photographs at Site 54 – Contractors State License School, 6222 Sepulveda Blvd, Van Nuys

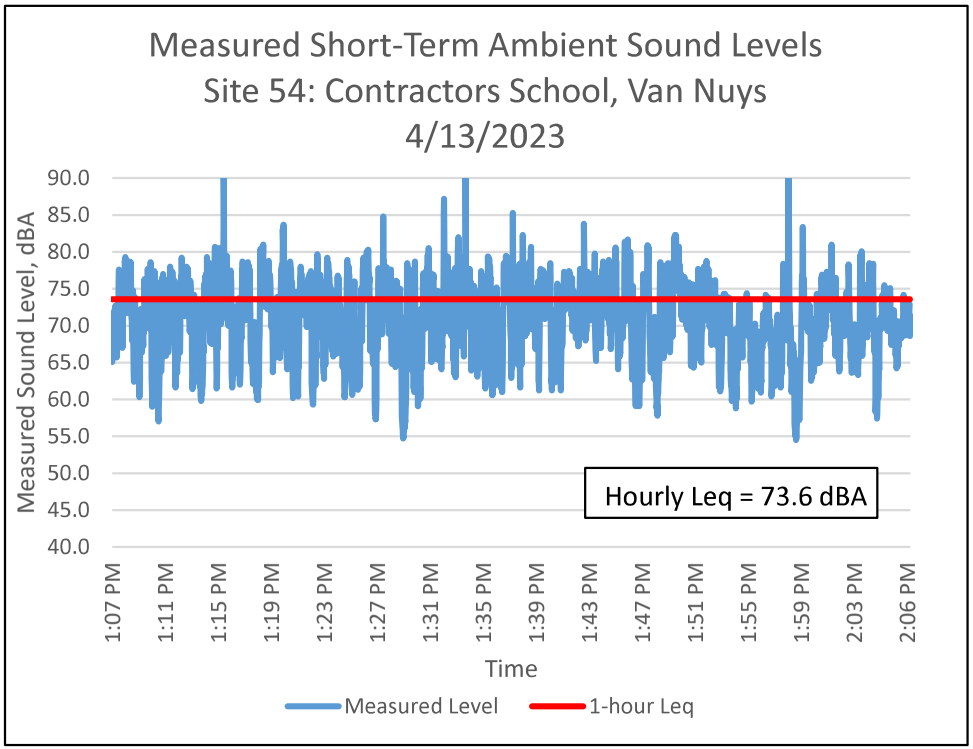
Looking East

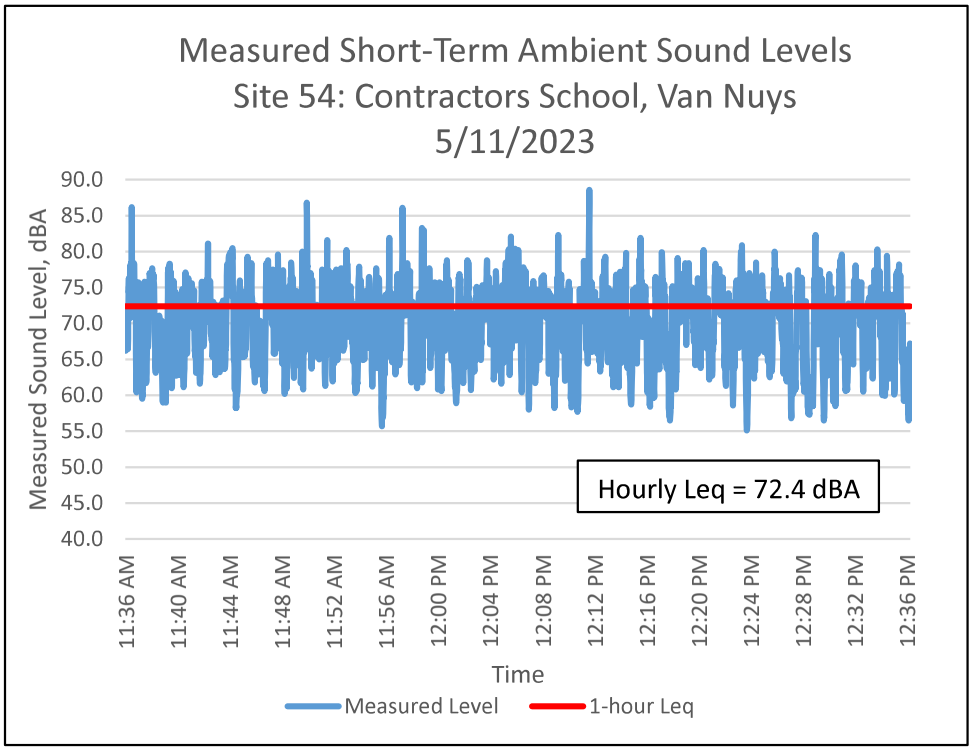


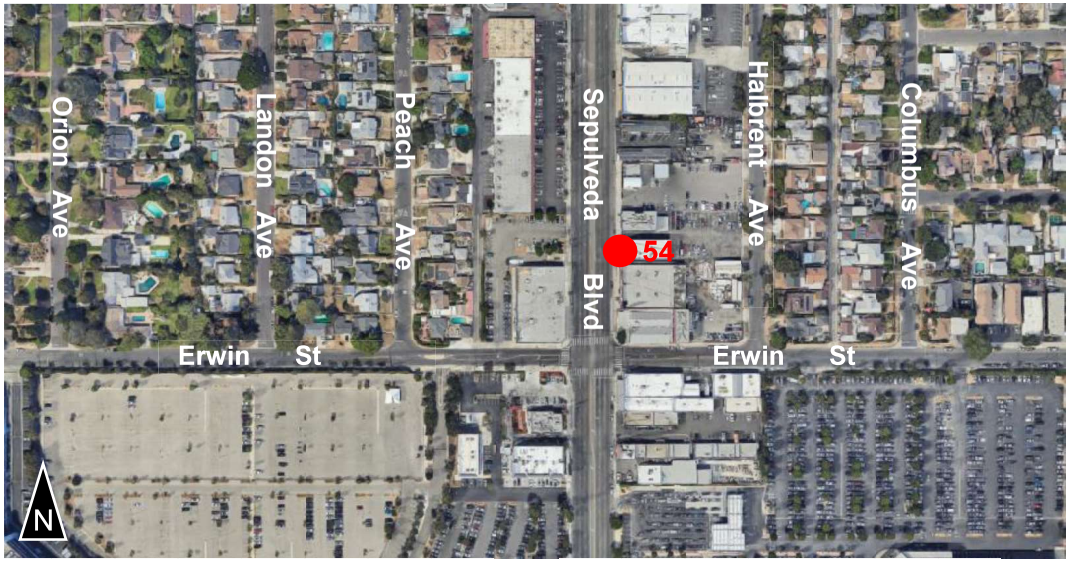
Looking North

Looking West

Looking South







Leq: Measured average equivalent sound level during the 1-hour measurement period.

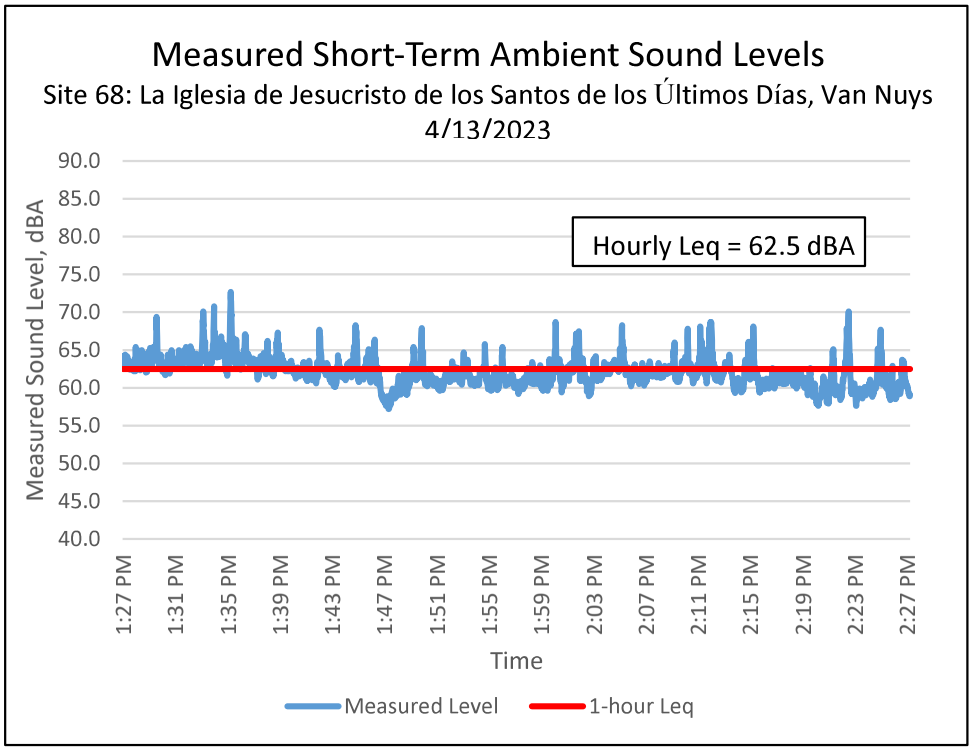
Noise Measurement Photographs at Site 68 – La Iglesia de Jesucristo de los Santos de los Últimos Días
15555 Saticoy St, Van Nuys

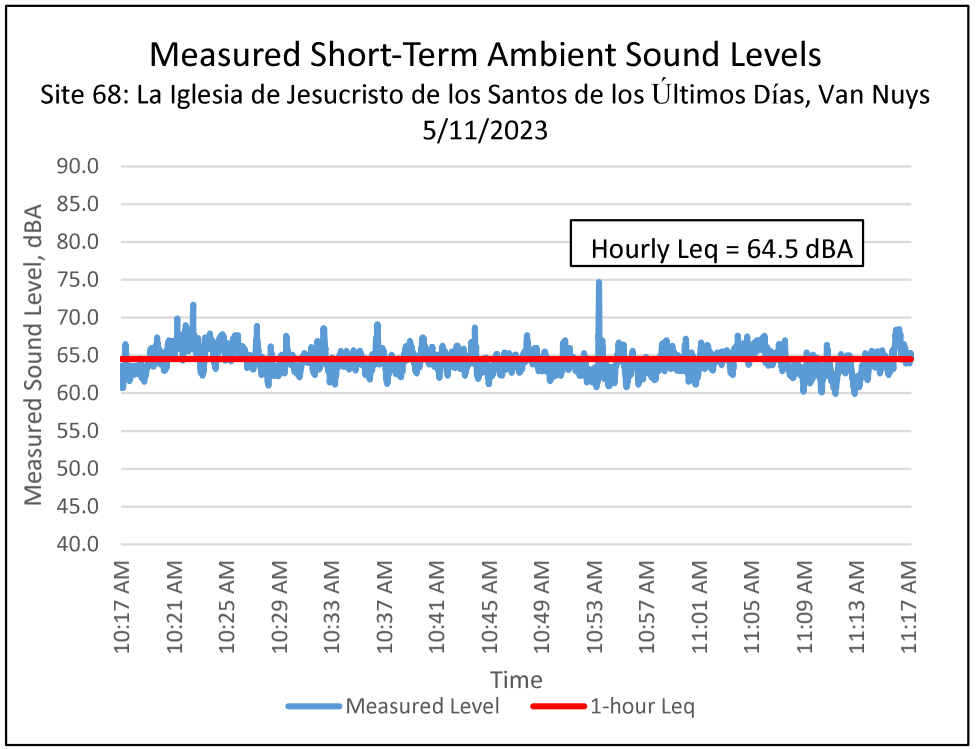
Looking East

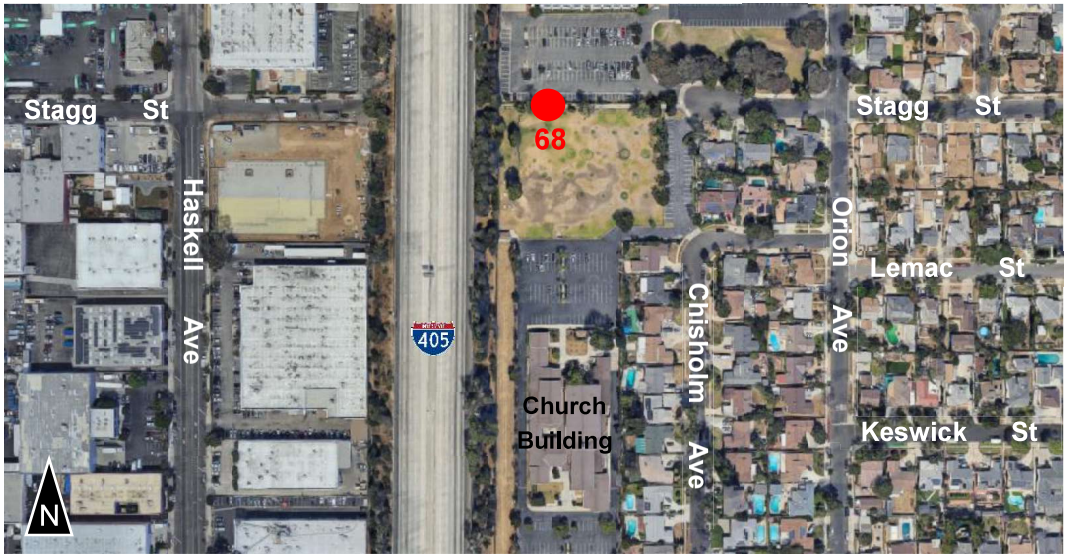
Looking North

Looking West

Looking South







Leq: Measured average equivalent sound level during the 1-hour measurement period.

Attachment 3. Alternative 1: Airborne Noise Impact Assessment and Mitigation

	Near Track Direction	NB Track Station	SB Track Station	Track Elevation ASL (ft)	Source Height Above Track (ft)	Ground Elevation @ Receiver ASL (ft)	Receiver Height Above Ground (ft)	Distance to NB Track (ft)			Distance to SB Track (ft)			Train Speeds		Existing Wall Adjustment		Building Shielding		Crossover Noise Adjustment		Calculated L_{dn}, dBA			Existing L_{dn} (dBA)	Level of Noise Impact				
								Horiz	Vertical	Total	Horiz	Vertical	Total	NB Speed (mph)	SB Speed (mph)	NB	SB	NB	SB	NB	SB	NB Track L_{dn} (dBA)	SB Track L_{dn} (dBA)	Total L_{dn} (dBA)		Impact L_{dn} (dBA) From	Impact L_{dn} (dBA) To	No Impact	Moderate Impact	Severe Impact
onica Blvd, Los Angeles, CA 90025	SB	557+54	557+27	303.0	2.0	242.0	35.0	302	28.0	303	288	28.0	289	19	25	0	0	0	0	0	0	41	43	45	66	62	67	√	--	--
	SB	561+22	561+05	313.6	2.0	258.0	35.0	48	22.6	53	34	22.6	41	28	31	0	0	0	0	0	0	55	58	60	66	62	67	√	--	--
	SB	569+16	569+05	320.2	2.0	275.0	5.0	204	42.2	208	190	42.2	194	39	46	0	0	0	0	0	0	49	51	54	69	64	69	√	--	--
	SB	586+33	586+16	385.7	2.0	320.0	5.0	326	62.7	332	307	62.7	314	34	20	0	0	0	0	0	0	45	41	47	67	63	67	√	--	--
	SB	629+23	629+10	423.7	2.0	390.0	5.0	140	30.7	144	126	30.7	130	56	56	0	0	0	0	0	0	55	56	58	76	66	74	√	--	--
	SB	628+70	628+57	422.6	2.0	391.0	5.0	279	28.6	281	265	28.6	267	56	56	0	0	0	0	0	0	51	51	54	70	65	69	√	--	--
	NB	639+30	639+17	455.3	2.0	408.0	25.0	204	24.3	206	218	24.3	220	56	56	0	0	0	0	0	0	53	52	55	71	66	70	√	--	--
	SB	638+78	638+65	452.9	2.0	412.0	5.0	284	37.9	286	270	37.9	273	56	56	0	0	0	0	0	0	50	51	54	72	66	71	√	--	--
	SB	639+43	639+30	455.7	2.0	414.0	5.0	173	38.7	178	159	38.7	164	56	56	0	0	0	0	0	0	54	54	57	76	66	74	√	--	--
	NB	644+35	644+22	476.3	2.0	422.0	45.0	192	11.3	192	206	11.3	206	55	56	0	0	0	0	0	0	53	53	56	71	66	70	√	--	--
	SB	646+90	646+77	481.5	2.0	431.0	5.0	268	47.5	272	254	47.5	258	55	56	0	0	0	0	0	0	51	51	54	71	66	70	√	--	--
	NB	647+01	646+88	481.6	2.0	450.0	5.0	233	28.6	235	247	28.6	249	55	56	0	0	0	0	0	0	52	51	54	71	66	70	√	--	--
	NB	649+75	649+62	483.5	2.0	490.0	5.0	235	-9.5	236	249	-9.5	250	56	56	-0.1	-1.0	0	0	0	0	52	50	54	72	66	71	√	--	--
	NB	653+99	653+86	487.9	2.0	472.0	5.0	245	12.9	245	259	12.9	259	56	56	-1.1	-1.3	0	0	0	0	50	50	53	72	66	71	√	--	--
	SB	655+27	655+14	489.8	2.0	450.0	15.0	136	26.8	138	122	26.8	125	56	56	-1.9	0	0	0	0	0	53	56	58	76	66	74	√	--	--
	SB	654+91	654+77	489.3	2.0	452.0	5.0	281	34.3	283	267	34.3	269	56	56	0	0	0	0	0	0	51	51	54	71	66	70	√	--	--
	NB	658+25	658+12	495.2	2.0	508.0	5.0	211	-15.8	211	225	-15.8	225	56	56	-11.8	-11.6	0	0	0	0	41	40	44	72	66	71	√	--	--
	NB	675+69	675+57	539.7	2.0	518.0	5.0	255	18.7	256	269	18.7	270	56	56	0	0	0	0	0	0	51	51	54	73	66	71	√	--	--
CA 90049	SB	674+48	674+36	536.4	2.0	498.8	35.0	169	4.6	169	155	4.6	155	56	56	0	0	0	0	0	0	54	54	57	87	66	75	√	--	--
s, CA 90049	SB	678+56	678+43	553.1	2.0	534.0	45.0	335	-23.9	336	321	-23.9	322	56	56	0	0	0	0	0	0	49	50	53	80	66	75	√	--	--
	NB	691+73	691+59	587.9	2.0	536.0	15.0	226	38.9	229	240	38.9	243	56	56	0	0	0	0	0	0	52	52	55	71	66	70	√	--	--
	NB	701+16	701+03	616.1	2.0	557.0	5.0	203	56.1	211	217	56.1	224	56	56	-0.2	-2.0	0	0	0	0	52	50	54	71	66	70	√	--	--
	NB	714+81	714+73	657.1	2.0	594.0	5.0	230	60.1	238	244	60.1	251	56	56	0	-0.1	0	0	0	0	52	51	54	71	66	70	√	--	--
s Angeles, CA 90049	NB	725+12	725+06	688.1	2.0	636.0	5.0	227	49.1	232	241	49.1	246	56	51	-3.5	-5.2	0	0	0	0	48	45	50	72	66	71	√	--	--
	NB	733+95	733+89	728.4	2.0	886.0	5.0	813	-160.6	829	827	-160.6	842	31	19	0	0	0	0	0	0	38	34	40	76	66	74	√	--	--
03	SB	917+02	917+04	1072.5	2.0	1042.0	5.0	306	27.5	307	292	27.5	293	56	41	0	0	0	0	0	0	50	48	52	67	63	67	√	--	--
	NB	921+19	921+21	1050.1	2.0	1118.0	5.0	366	-70.9	373	380	-70.9	386	56	41	0	0	0	0	0	0	49	46	51	70	65	69	√	--	--
03	SB	924+49	924+50	1032.3	2.0	930.0	5.0	325	99.3	340	311	99.3	327	56	41	-4.3	-0.7	0	0	0	0	45	46	49	63	60	65	√	--	--
3	NB	941+53	941+50	940.5	2.0	970.0	5.0	171	-32.5	174	185	-32.5	187	56	41	-8.1	-7.2	0	0	0	0	46	43	48	74	66	72	√	--	--
3	SB	943+84	943+82	927.8	2.0	850.0	5.0	193	74.8	207	179	74.8	194	56	41	-15.0	-15.0	0	0	0	0	38	35	40	63	60	65	√	--	--
3	SB	949+25	949+24	897.6	2.0	980.0	5.0	290	-85.4	303	304	-85.4	316	56	42	0	0	0	0	0	0	50	47	52	72	66	71	√	--	--
	NB	965+30	965+33	808.0	2.0	800.0	15.0	141	-5.0	141	155	-5.0	155	56	42	0	0	0	0	0	0	55	52	57	72	66	71	√	--	--
la Blvd, Sherman Oaks, CA 91403	NB	972+51	972+54	786.6	2.0	734.0	35.0	128	19.6	129	142	19.6	143	45	34	0	0	0	0	0	0	54	51	56	72	66	71	√	--	--
3	NB	975+26	975+28	783.2	2.0	732.0	45.0	185	8.2	185	199	8.2	199	38	25	0	0	0	0	0	0	50	46	51	72	66	71	√	--	--
	SB	973+55	973+58	785.0	2.0	736.0	15.0	155	36.0	159	141	36	145	43	32	-1.6	0	0	0	0	0	50	50	53	72	66	71	√	--	--
403	SB	980+00	980+04	778.1	2.0	728.0	5.0	203	47.1	208	189	47.1	195	19	16	-4.3	-2.2	0	0	0	0	39	40	42	72	66	71	√	--	--
lia Blvd, Sherman Oaks, CA 91403	NB	1031+61	1031+39	715.3	2.0	680.0	35.0	274	2.3	274	288	2.3	288	56	56	0	0	-1.5	-1.5	0	0	49	49	52	65	61	66	√	--	--
rman Oaks	NB	1035+27	1035+07	717.9	2.0	682.5	5.0	72	32.4	79	86	32.4	92	56	56	0	0	0	0	0	0	59	58	61	67	63	67	√	--	--
St, Sherman Oaks, CA 91411	NB	1036+77	1036+57	719.5	2.0	682.0	15.0	106	24.5	109	120	24.5	123	56	56	0	0	0	0	0	0	57	56	59	67	63	67	√	--	--
11	NB	1039+20	1039+03	720.0	2.0	682.0	25.0	92	15.0	93	106	15	107	56	56	0	0	0	0	0	0	58	57	60	67	63	67	√	--	--
rman Oaks, CA 91411	NB	1044+77	1044+61	720.8	2.0	683.5	15.0	163	24.3	165	177	24.3	179	56	56	0	0	0	0	0	0	54	54	57	67	63	67	√	--	--
1	NB	1046+17	1046+00	721.8	2.0	685.0	15.0	76	23.8	79	90	23.8	93	56	56	0	0	0	0	0	0	59	58	61	67	63	67	√	--	--
CA 91411	NB	1049+83	1049+63	727.8	2.0	685.0	15.0	16	29.8	34	30	29.8	42	56	56	0	0	0	0	0	0	64	63	67	70	65	69	--	√	--
epulveda Blvd, Sherman Oaks, CA	NB	1051+98	1051+76	731.5	2.0	687.0	25.0	59	21.5	63	73	21.5	76	56	56	0	0	0	0	0	0	60	59	63	67	63	67	--	√	--
epulveda Blvd, Sherman Oaks, CA	NB	1055+44	1055+21	740.3	2.0	688.0	15.0	107	39.3	114	121	39.3	128	56	55	0	0	0	0	0	0	56	56	59	67	63	67	√	--	--
	NB	1100+86	1100+53	749.7	2.0	716.0	5.0	286	30.7	288	300	30.7	302	31	38	0	0	0	0	0	0	45	47	49	63	60	65	√	--	--
	NB	1102+15	1101+83	747.9	2.0	718.0	5.0	146	26.9	149	160	26.9	162	32	42	0	0	0	0	0	0	50	52	54	63	60	65	√	--	--
	NB	1105+71	1105+39	751.7	2.0	718.0	5.0	318	30.7	319	332	30.7	333	41	51	0	0	0	0	0	0	47	49	51	63	60	65	√	--	--
	NB	1107+88	1107+56	754.6	2.0	721.0	5.0	137	30.6	141	151	30.6	154	44	56	0	0	0	0	0	0	53	55	57	63	60	65	√	--	--
	NB	1112+16	1111+88	760.4	2.0	720.0	5.0	288	37.4	290	302	37.4	304	48	56	0	0	0	0	0	0	49	50	53	60	58	63	√	--	--
	NB	1113+08	1112+80	761.7	2.0	721.0	5.0	74	37.7	83	88	37.7	95	49	56	0	0	0	0	0	0	57	58	61	69	64	69	√	--	--
	NB	1121+98	1121+73	768.8	2.0	726.0	5.0	105	39.8	113	119	39.8	126	55	50	0	0	0	0	0	0	56	55	59	69	64	69	√	--	--
	NB	1121+97	1121+72	768.8	2.0	726.0	5.0	208	39.8	212	222	39.8	226	55	50	0	0	0	0	0	0	52	51	55	66	62	67	√	--	--
	NB	1128+15	1127+90	763.7	2.0	730.0	5.0	98	30.7	102	112	30.7	116	50	50	0	0	0	0	0	0	56	55	59	69	64	69	√	--	--
	NB	1128+15	1127+90	763.7	2.0	730.0	5.0	203	30.7	205	217	30.7	219	50	50	0	0	0	0	0	0	52	51	54	65	61	66	√	--	--
	NB	1135+02	1134+77	765.5	2.0	735.0	5.0	72	27.5	77	86	27.5	90	50	56	0	0	0	0	0	0	58	58	61	69	64	69	√	--	--
	NB	1135+42	1135+17	766.0	2.0	735.2	5.0	235	27.8	236	249	27.8	250	50	56	0	0	0	0	0	0	51	51	54	65	61	66	√	--	--
CA 91406	NB	1140+53	1140+28	771.4	2.0	737.0	25.0	27	11.4	29	41	11.4	42	54	56	0	0	0	0	0	0	65	63	67	71	66	70	--	√	--
CA 91406	NB	1140+53	1140+28	771.4	2.0	737.5	25.0	173	10.9	173	187	10.9	187	54	56	0	0	0	0	0	0	53	53	56	69	64	69	√	--	--
	NB	1146+99	1146+74	777.8	2.0	742.0	5.0	186	32.8	189	200	32.8	203	56	56	0	0	0	0	0	0	53	53	56	65	61	66	√	--	--
	NB	1156+33	1156+11	784.7	2.0	747.0	5.0	33	34.7	48	47	34.7	58	56	56	0	0	0	0	0	0	62	61	65	68	63	68	--	√	--
	NB	1160+57	1160+35	786.8	2.0	752.0	5.0	53	31.8	61	67	31.8	74	52	51	0	0	0	0	0	0	60	59	62	68	63	68	√	--	--
	NB	1166+40	1166+17	807.5	2.0	752.0	15.0	62	42.5	75	97	42.5	106	42	31	0	0	0	0	0	0	57	52	58	68	63	68	√	--	--
, CA 91406	NB	1172+51	1172+28	815.4	2.0	757.0	35.0	228	25.4	229	267	25.4	269	6	28	0	0	0	0	0	0	33	45	45	67	63	67	√	--	--
	NB	1173+85	1173+81	814.6	2.0	758.0	5.0	139	53.6	149	167	51.1	175	19	31	0	0	0	0	0	0	45	49	50	67	63	67	√	--	--
	NB	1174+81	1174+54	812.4	2.0	758.0	5.0	66	51.4	83	81	51.4	96	19	31	0	0	0	0	0	0	49	52	54	67	63	67	√	--	--
	NB	1176+30	1175+98	807.9	2.0	758.8	5.0	73	46.1	87	87	46.1	99	19	33	0	0	0	0	0	0	49	53	54	67	63	67	√	--	--
	NB	1184+15	1183+85	792.4	2.0	763.0	5.0	94	26.4	98	108	26.4	111	48	56	0	0	0	0	0	0	56	57	59	66	62	67	√	--	--
	NB	1192+27	1191+97	799.2	2.0	769.0	5.0	58	27.2	64	72	27.2	77	55	56	0	0	0	0	0	0	60	59	63	67	63	67	--	√	--
	SB	1243+56	1243+59	840.0	2.0	793.1	5.0	407	43.9	409	386	43.9	389	53	51	0	0	0	0	0	0	48	48	51	61	59	64	√	--	--

49.2
56.3
73.7
6
81.5

	Period	Headway (min)	Hours	Number of Trains (each direction)
	Peak AM	2	3	90
	Mid-day	5	5	60
	Peak PM	2	4	120
	Evening	5	3	36
Totals:			15	306
	Early	10	2	12
	Peak AM	2	1	30
	Late	10	4	24
Totals:			7	66

Location Description	Near Track Direction	NB Track Station	SB Track Station	Track Elevation ASL (ft)	Source Height Above Track (ft)	Ground Elevation @ Receiver ASL (ft)	Receiver Height Above Ground (ft)	Receiver Distance to NB Source (ft)			Receiver Distance to SB Source (ft)			Train Speeds		Source-Receiver Path Adjustments: Existing Soundwall Noise Reduction (dBA)		Source-Receiver Path Adjustments: Existing Buildings Shielding Adjustment (dBA)		Source-Receiver Path Adjustments: Crossover Noise Adjustment		Calculated L_{eq} (dBA)			Existing (dBA)
								Horiz	Vertical	Total	Horiz	Vertical	Total	NB Speed (mph)	SB Speed (mph)	NB	SB	NB	SB	NB	SB	NB Track L_{eq}	SB Track L_{eq}	Total L_{eq}	
Los Angeles	NB	532+69	532+67	245.8	2.0	215.9	5.0	75	26.9	80	89	26.9	93	52	55	0	0	0	0	0	0	57	56	60	70
nter, 1341 S Sepulveda Blvd, Los Angeles	NB	580+80	580+66	362.5	2.0	293.0	5.0	251	66.5	260	265	66.5	273	34	34	-15.0	-15.0	0	0	0	0	31	30	33	60
arium	SB	613+63	613+51	408.8	2.0	361.0	5.0	140	44.8	147	154	44.8	160	44	56	-11.5	-10.1	0	0	0	0	40	43	45	60
	NB	620+52	620+39	409.1	2.0	371.2	5.0	238	34.9	241	252	34.9	255	52	56	0	0	0	0	0	0	50	50	53	72
	NB	632+01	631+88	429.0	2.0	393.5	5.0	251	32.5	253	265	32.5	267	56	56	0	0	0	0	0	0	50	50	53	67
	NB	634+66	634+53	435.2	2.0	400.0	5.0	202	32.2	205	216	32.2	219	56	56	0	0	0	0	0	0	51	51	54	69
geles	SB	646+10	645+97	480.5	2.0	430.0	5.0	146	47.5	154	132	47.5	140	55	56	0	0	0	0	0	0	53	54	56	64
	SB	682+71	682+59	564.7	2.0	544.0	5.0	181	17.7	182	167	17.7	168	55	56	0	0	0	0	0	0	52	53	55	73
er, Los Angeles, CA 90049	NB	725+12	725+06	688.1	2.0	636.0	5.0	227	49.1	232	241	49.1	246	56	51	-3.5	-5.2	0	0	0	0	47	44	49	65
	NB	730+09	730+03	707.2	2.0	660.0	5.0	252	44.2	256	266	44.2	270	45	35	0	0	0	0	0	0	48	45	50	67
Garden	SB	729+11	729+05	702.1	2.0	663.0	5.0	221	36.1	224	207	36.1	210	54	40	0	0	0	0	0	0	50	48	53	59
	SB	731+99	731+94	717.7	2.0	674.0	5.0	194	40.7	198	180	40.7	184	39	22	0	0	0	0	0	0	48	44	50	59
	SB	745+74	745+77	753.9	2.0	712.0	5.0	145	38.9	151	131	38.9	137	19	19	0	0	0	0	0	0	44	44	47	67
eater	SB	869+86	869+93	1130.1	2.0	1112.0	5.0	301	15.1	301	287	15.1	287	48	52	0	0	0	0	0	0	48	48	51	61
	SB	877+92	878+02	1144.4	2.0	1172.0	5.0	215	-30.6	217	201	-30.6	203	53	56	0	0	0	0	0	0	51	51	54	71
r	SB	877+23	877+33	1143.2	2.0	1182.0	5.0	280	-41.8	283	266	-41.8	269	53	56	0	0	0	0	0	0	49	50	52	71
	NB	1017+92	1017+69	734.9	2.0	682.0	5.0	113	49.9	124	127	49.9	137	50	51	0	0	0	0	0	0	54	53	56	68
n Blvd, Sherman Oaks, CA 91403	NB	1031+61	1031+39	715.3	2.0	680.0	35.0	151	2.3	151	165	2.3	165	56	56	0	0	0	0	0	0	53	53	56	59
os Últimos Días, Van Nuys	NB	1204+10	1203+80	822.0	2.0	775.0	5.0	81	44.0	92	95	44.0	105	56	56	0	0	0	0	0	0	56	56	59	63

	49.2
	56.3
	73.7
	6
	81.5
tion):	30

Attachment 4. Alternative 1: Off-Road Construction Equipment Noise Levels

Sepulveda Transit Corridor
Alternative 1
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Oscillating Drill Rig	7	84	20%	85	96
	Crawler Crane	7	83	20%	84	
	Hydraulic Crane	7	88	20%	89	
	Telescoping Fork	14	75	20%	79	
	Wheel Loader	7	80	40%	84	
	Med. Excavator	7	82	40%	86	
	Concrete Pump	7	77	40%	81	
	Generator	14	82	50%	90	
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Oscillating Drill Rig	3	84	20%	82	92
	Crawler Crane	3	83	20%	81	
	Hydraulic Crane	3	88	20%	86	
	Telescoping Fork	6	75	20%	76	
	Wheel Loader	3	80	40%	81	
	Med. Excavator	3	82	40%	83	
	Concrete Pump	3	77	40%	78	
	Generator	6	82	50%	87	
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
MRT Segment 2-Getty Center to North of 405-Wilshire Interchange-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
MRT Segment 3-405-Wilshire Interchange Stretch-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 3-405-Wilshire Interchange Stretch-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
MRT Segment 3-405-Wilshire Interchange Stretch-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
MRT Segment 3-405-Wilshire Interchange Stretch-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Oscillating Drill Rig	2	84	20%	80	90
	Crawler Crane	2	83	20%	79	
	Hydraulic Crane	2	88	20%	84	
	Telescoping Fork	4	75	20%	74	
	Wheel Loader	2	80	40%	79	
	Med. Excavator	2	82	40%	81	
	Concrete Pump	2	77	40%	76	
	Generator	4	82	50%	85	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	

Sepulveda Transit Corridor
Alternative 1
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Van Nuys MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Van Nuys MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Van Nuys MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Van Nuys MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Van Nuys MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Sherman Way MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Sherman Way MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Sherman Way MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Sherman Way MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Sherman Way MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	

Metro G Line MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Metro G Line MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Metro G Line MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Metro G Line MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Metro G Line MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	

Sepulveda Transit Corridor
Alternative 1
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Getty Center MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Getty Center MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Getty Center MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Getty Center MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Getty Center MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Wilshire Blvd-Metro D Line-VA Hospital MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	

Santa Monica Blvd MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Santa Monica Blvd MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Exposition Blvd MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Exposition Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Exposition Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Exposition Blvd MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	

Sepulveda Transit Corridor
Alternative 1
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

TPSS 2-Wilshire Blvd-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 2-Wilshire Blvd-Demolition/Site Preparation	Large Excavator	1	85	40%	81	85
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 2-Wilshire Blvd-Grading/Excavation	Large Excavator	1	85	40%	81	87
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Dozer-1ea	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 2-Wilshire Blvd-Concrete Work	Compactor	4	82	20%	81	83
	Telescoping Fork	4	75	40%	77	
	Conc Pump	2	77	40%	76	
TPSS 2-Wilshire Blvd-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 2-Wilshire Blvd-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
TPSS 3-Sunset Onramp-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 3-Sunset Onramp-Demolition/Site Preparation	Large Excavator	1	85	40%	81	85
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 3-Sunset Onramp-Grading/Excavation	Large Excavator	1	85	40%	81	87
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Dozer-1ea	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 3-Sunset Onramp-Concrete Work	Compactor	4	82	20%	81	83
	Telescoping Fork	4	75	40%	77	
	Conc Pump	2	77	40%	76	
TPSS 3-Sunset Onramp-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 3-Sunset Onramp-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	

TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Large Excavator	1	85	40%	81	85
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Large Excavator	1	85	40%	81	87
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Dozer-1ea	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	Compactor	4	82	20%	81	83
	Telescoping Fork	4	75	40%	77	
	Conc Pump	2	77	40%	76	
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 4-405-Near Getty Center on East side of 405-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
TPSS 6-Skirball-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 6-Skirball-Demolition/Site Preparation	Large Excavator	1	85	40%	81	85
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 6-Skirball-Grading/Excavation	Large Excavator	1	85	40%	81	87
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Dozer-1ea	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 6-Skirball-Concrete Work	Compactor	4	82	20%	81	83
	Telescoping Fork	4	75	40%	77	
	Conc Pump	2	77	40%	76	
TPSS 6-Skirball-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 6-Skirball-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	

Sepulveda Transit Corridor
Alternative 1
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

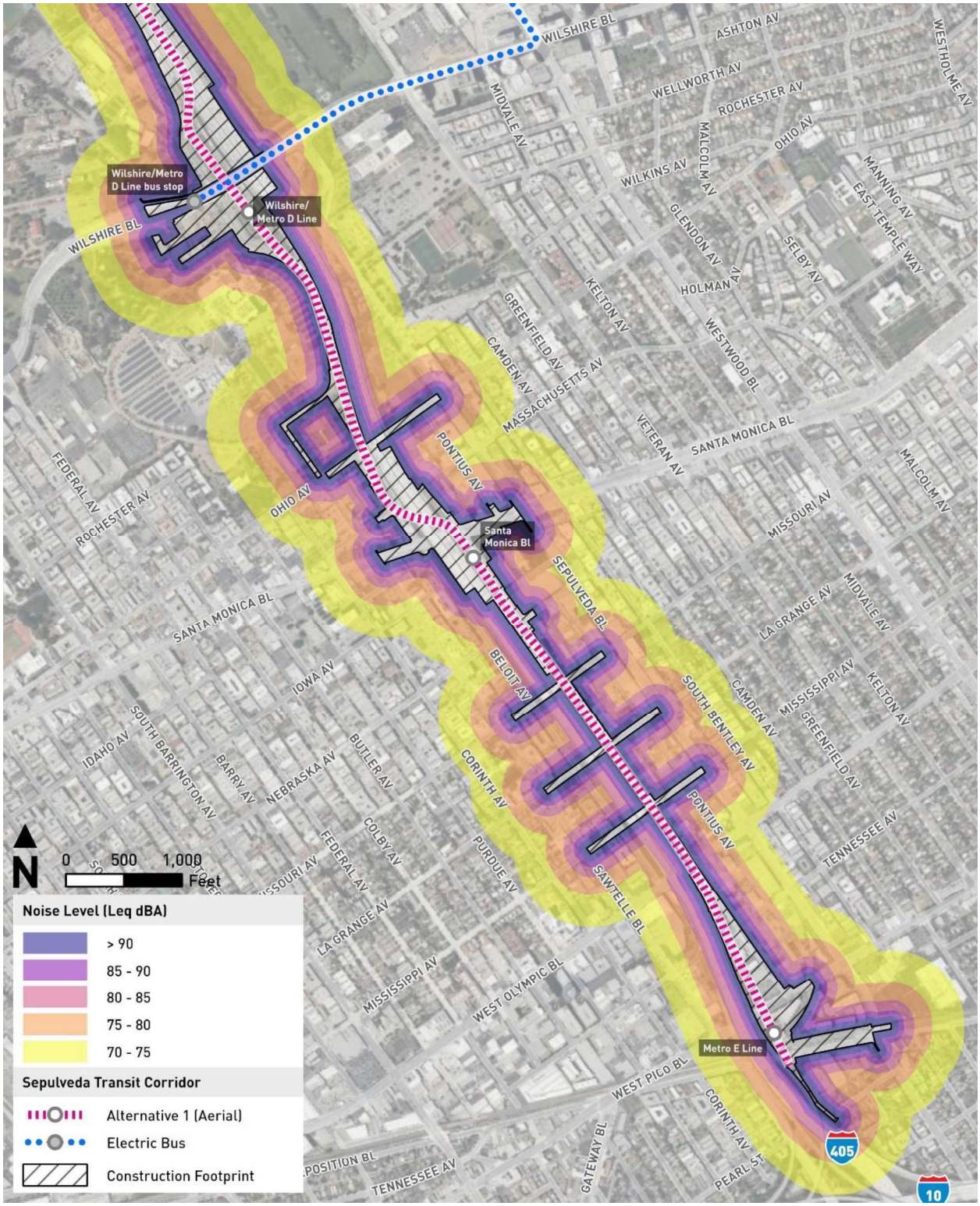
TPSS 11-Raymer-Van Nuys-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Large Excavator	1	85	40%	81	85
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Large Excavator	1	85	40%	81	87
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Dozer-1ea	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 11-Raymer-Van Nuys-Concrete Work	Compactor	4	82	20%	81	83
	Telescoping Fork	4	75	40%	77	
	Conc Pump	2	77	40%	76	
TPSS 11-Raymer-Van Nuys-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	82	20%	75	
	Telescoping Fork	1	75	20%	68	
TPSS 11-Raymer-Van Nuys-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
OMSF-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
OMSF-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
OMSF-Grading/Excavation	Large Excavator	1	85	40%	81	89
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	623 Scraper	2	85	40%	84	
	Compactor	2	82	20%	78	
OMSF-Concrete Work	RTG Crane	1	83	20%	76	86
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Concrete Pump	1	77	40%	73	
	Manlift	2	85	20%	81	
OMSF-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	

OMSF-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
e-Bus OMSF-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
e-Bus OMSF-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
e-Bus OMSF-Grading/Excavation	Large Excavator	1	85	40%	81	89
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	623 Scraper	2	85	40%	84	
	Compactor	2	82	20%	78	
e-Bus OMSF-Building Work	RTG Crane	1	83	20%	76	86
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Concrete Pump	1	77	40%	73	
	Manlift	2	85	20%	81	
e-Bus OMSF-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
e-Bus OMSF-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
Haynes St Utility Relocation-Construction	Medium Excavator	1	82	40%	78	90
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
	Asphalt Paver	1	85	50%	82	
	Asphalt Roller	1	85	20%	78	
	Jack and Bore Rig	1	90	40%	86	
Missouri Ave Utility Relocation-Construction	Medium Excavator	1	82	40%	78	90
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
	Asphalt Paver	1	85	50%	82	
	Asphalt Roller	1	85	20%	78	
	Jack and Bore Rig	1	90	40%	86	

Sepulveda Transit Corridor
Alternative 1
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

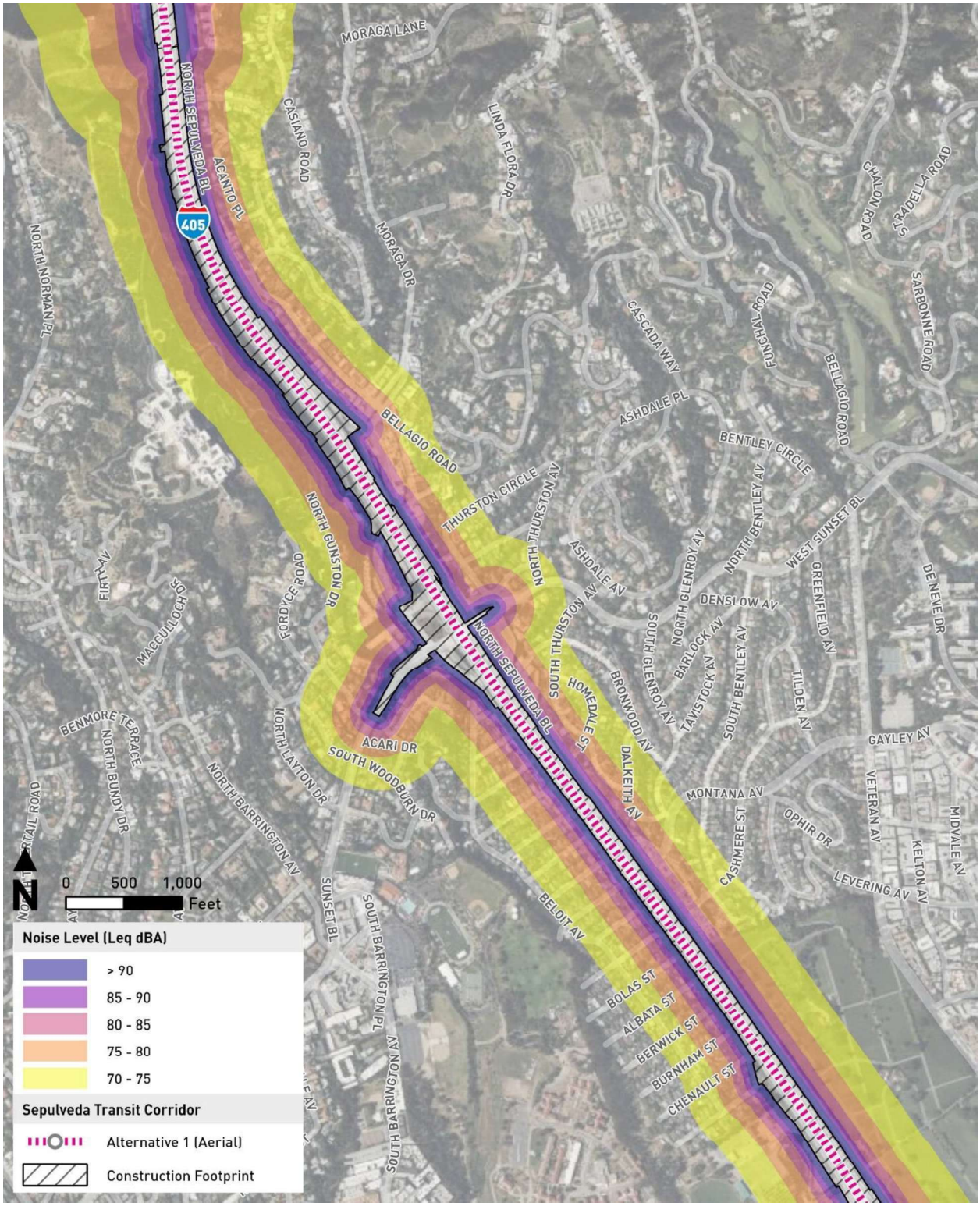
La Grange Ave Utility Relocation-Construction	Medium Excavator	1	82	40%	78	90
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
	Asphalt Paver	1	85	50%	82	
	Asphalt Roller	1	85	20%	78	
	Jack and Bore Rig	1	90	40%	86	
Mississippi Ave Utility Relocation-Construction	Medium Excavator	1	82	40%	78	90
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
	Asphalt Paver	1	85	50%	82	
	Asphalt Roller	1	85	20%	78	
	Jack and Bore Rig	1	90	40%	86	
I-405 Improvements-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
I-405 Improvements-Demolition/Site Preparation	Large Excavator	4	85	40%	87	91
	Wheel Loader	4	80	40%	82	
	Dozer	4	85	40%	87	
	Compactor	4	82	20%	81	
I-405 Improvements-Grading/Excavation	Large Excavator	4	85	40%	87	94
	Motor Grader	4	75	40%	77	
	Wheel Loader	4	80	40%	82	
	Dozer-1ea	8	85	40%	90	
	623 Scraper	4	85	40%	87	
	Compactor	4	82	20%	81	
I-405 Improvements-Concrete Work	Compactor	4	82	20%	81	87
	Telescoping Fork	4	75	20%	74	
	Slip Form Paver	2	85	50%	85	
Precast Yard-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Precast Yard-Grading/Excavation	Large Excavator	1	85	40%	81	89
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	623 Scraper	2	85	40%	84	
	Compactor	2	82	20%	78	
Precast Yard-Concrete Work	Gantry Crane	1	88	20%	81	89
	RTG Crane	4	83	20%	82	
	Hydraulic Crane	2	88	20%	84	
	Telescoping Fork	4	75	20%	74	
	Wheel Loader	2	80	40%	79	
	Concrete Pump	2	77	40%	76	
	Manlift	2	85	20%	81	
Precast Yard-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Precast Yard-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
Precast Yard-Guideway Fabrication	Cranes	4	85	20%	84	86
	Rough Terrain Forklifts	2	80	20%	76	
	Concrete Pumps	4	77	40%	79	

Figure D-1. Alternative 1: Construction Equipment Noise Contours – View 1



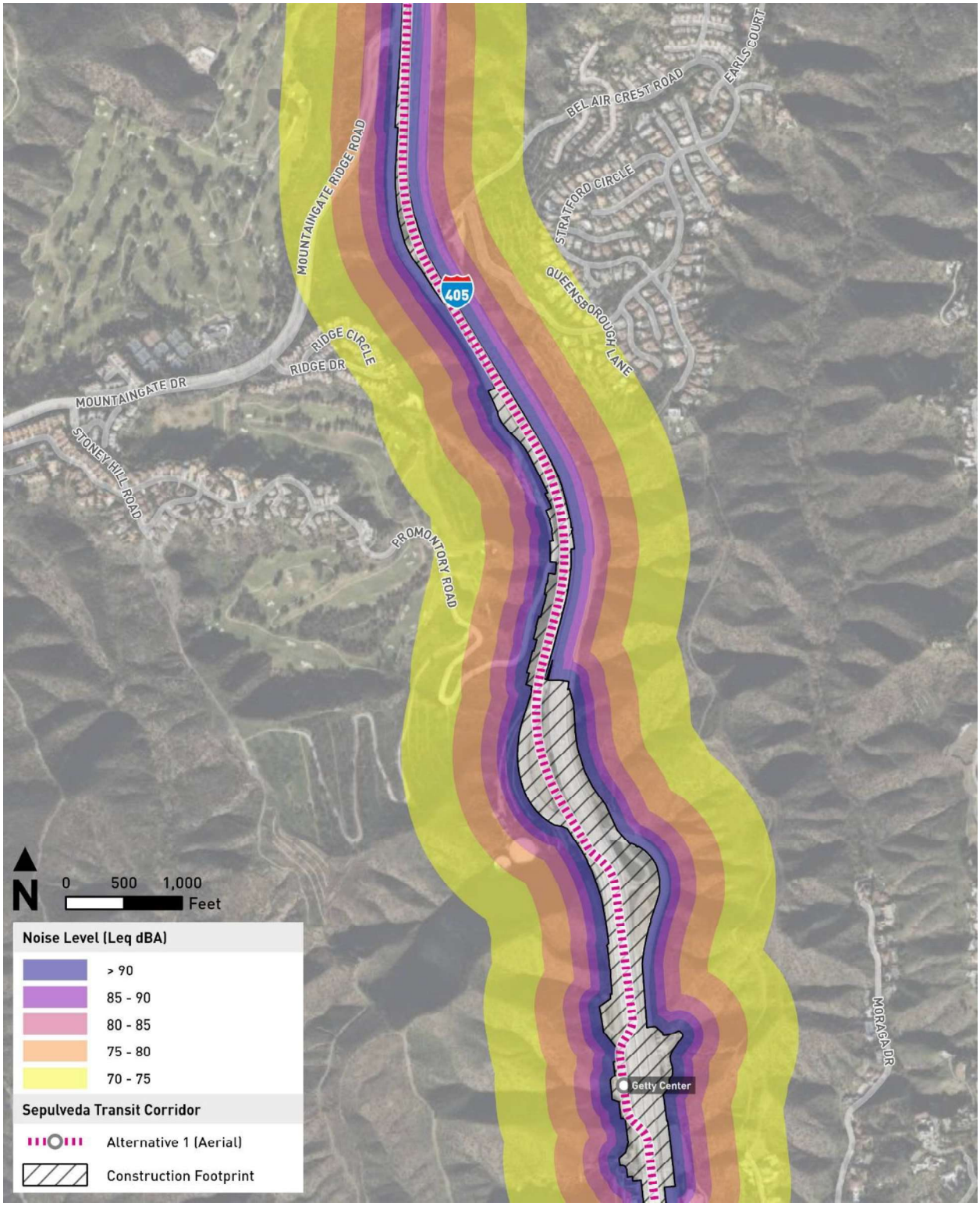
Source: HTA, 2024

Figure D-2. Alternative 1: Construction Equipment Noise Contours – View 2



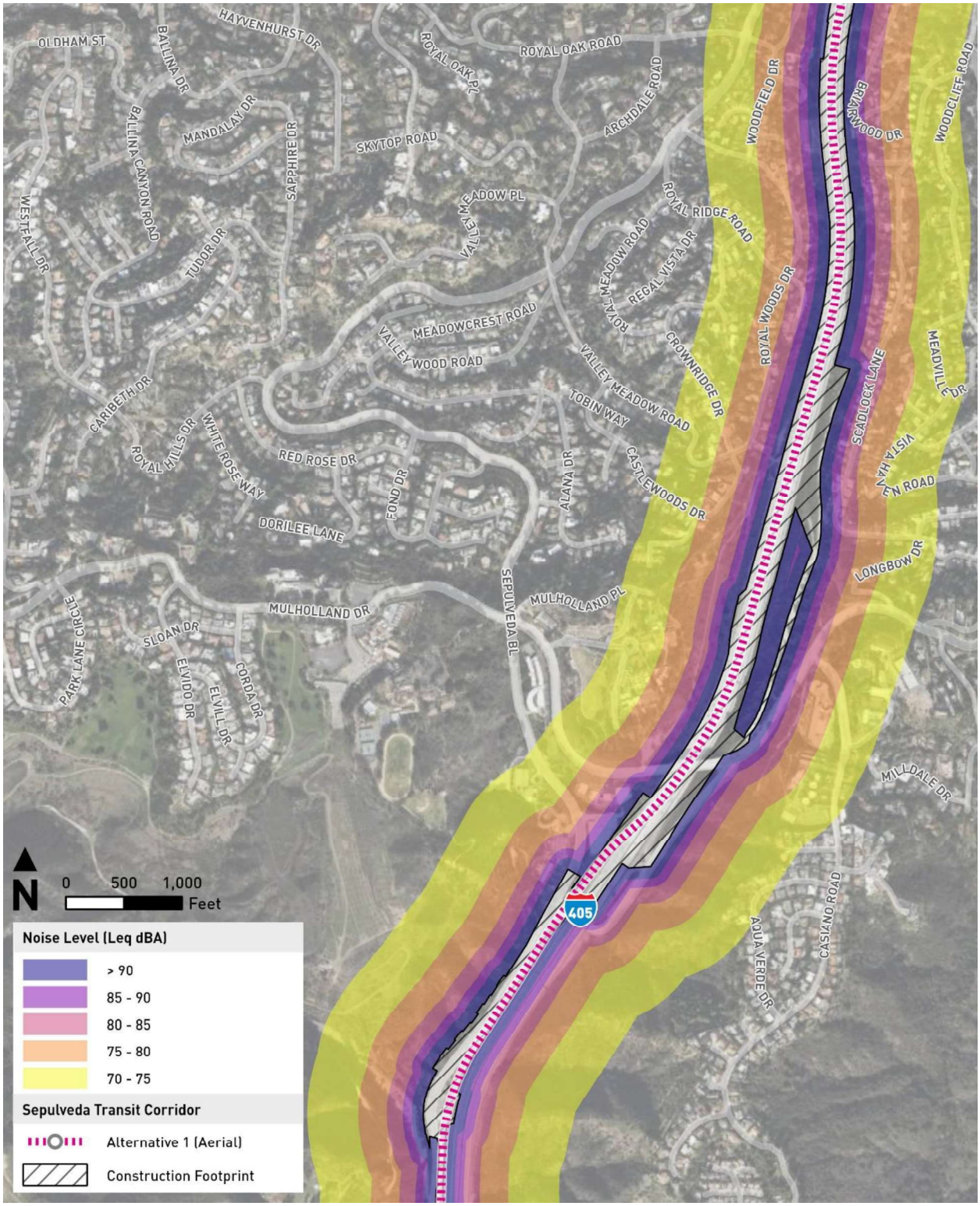
Source: HTA, 2024

Figure D-3. Alternative 1: Construction Equipment Noise Contours – View 3



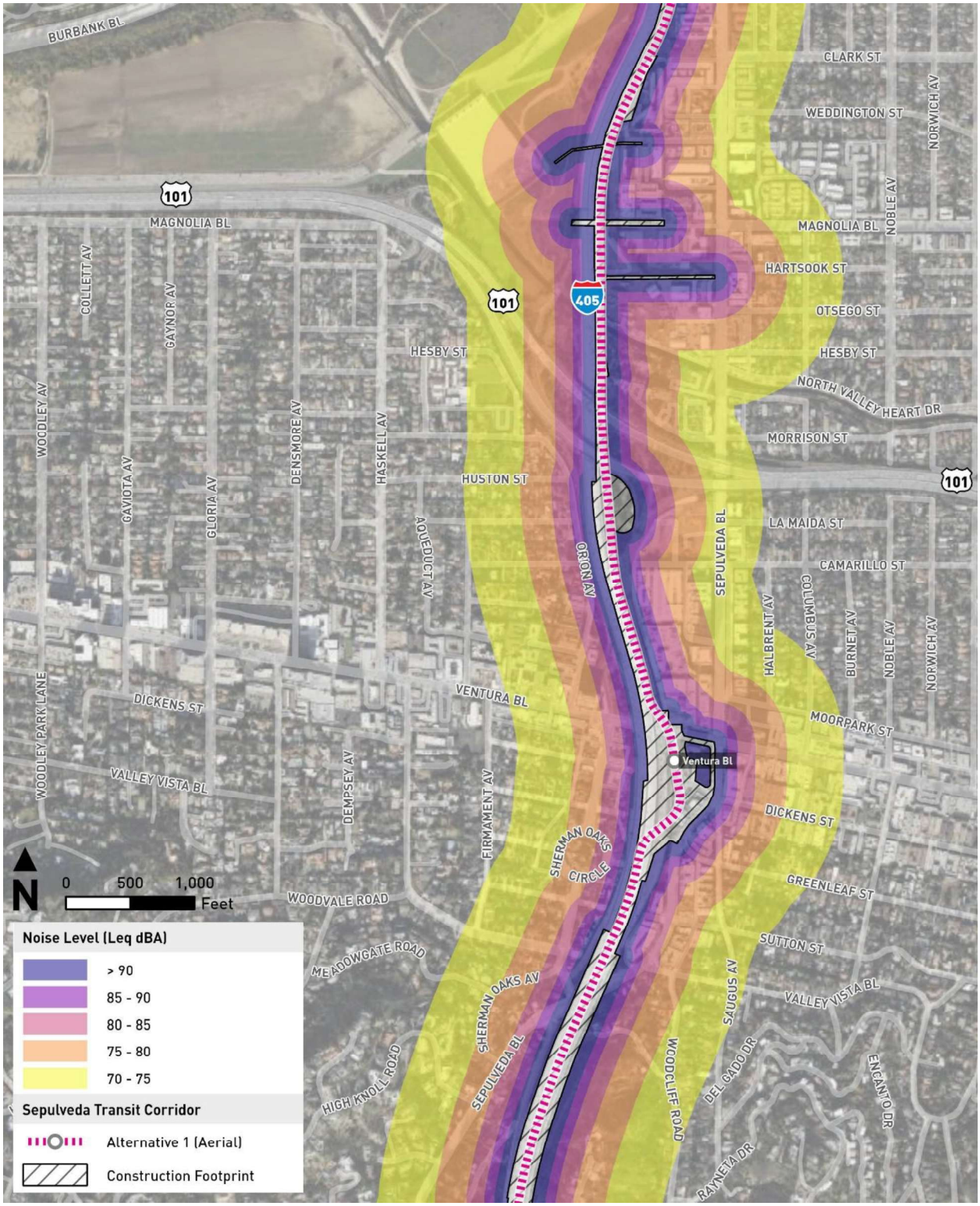
Source: HTA, 2024

Figure D-4. Alternative 1: Construction Equipment Noise Contours – View 4



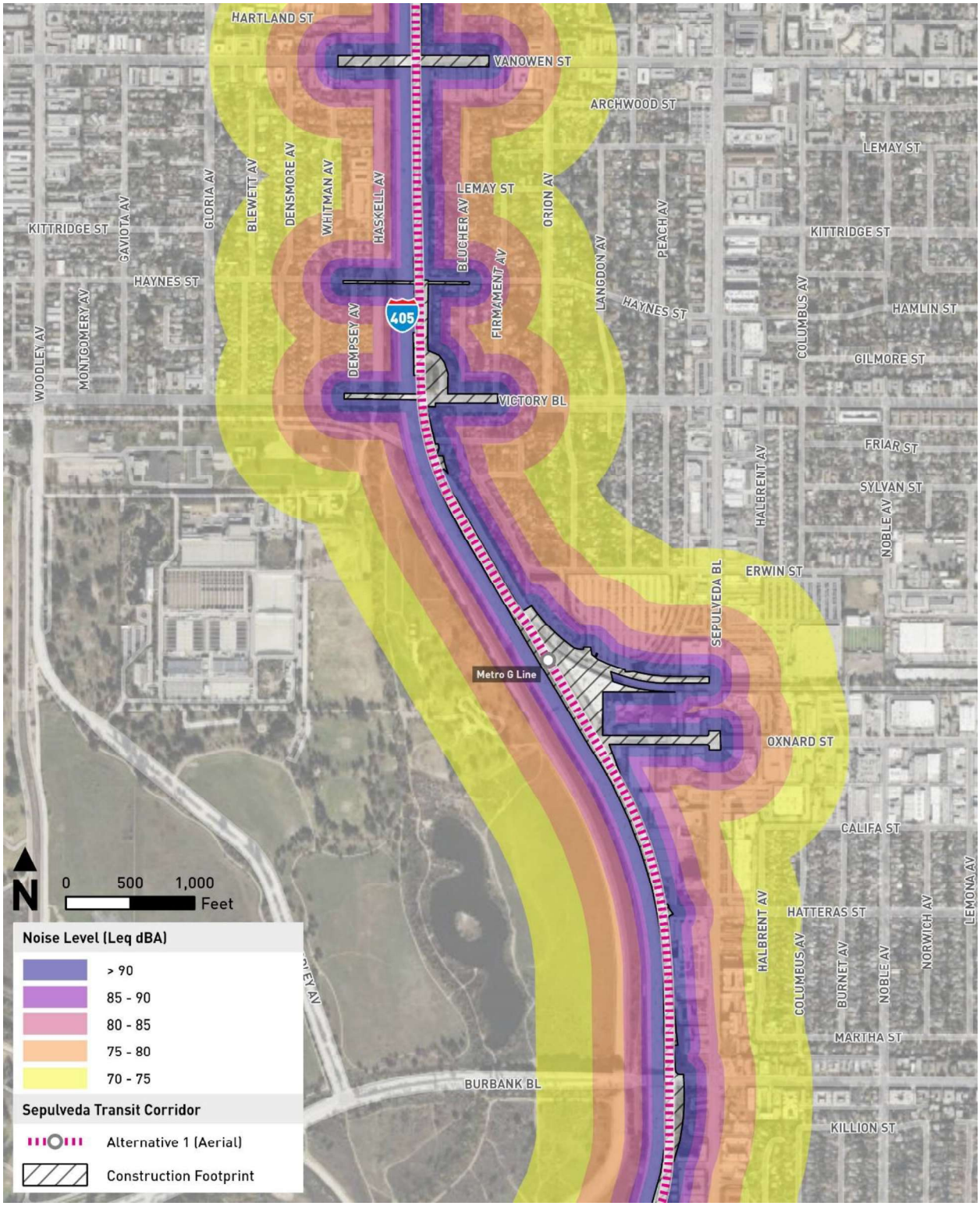
Source: HTA, 2024

Figure D-5. Alternative 1: Construction Equipment Noise Contours – View 5



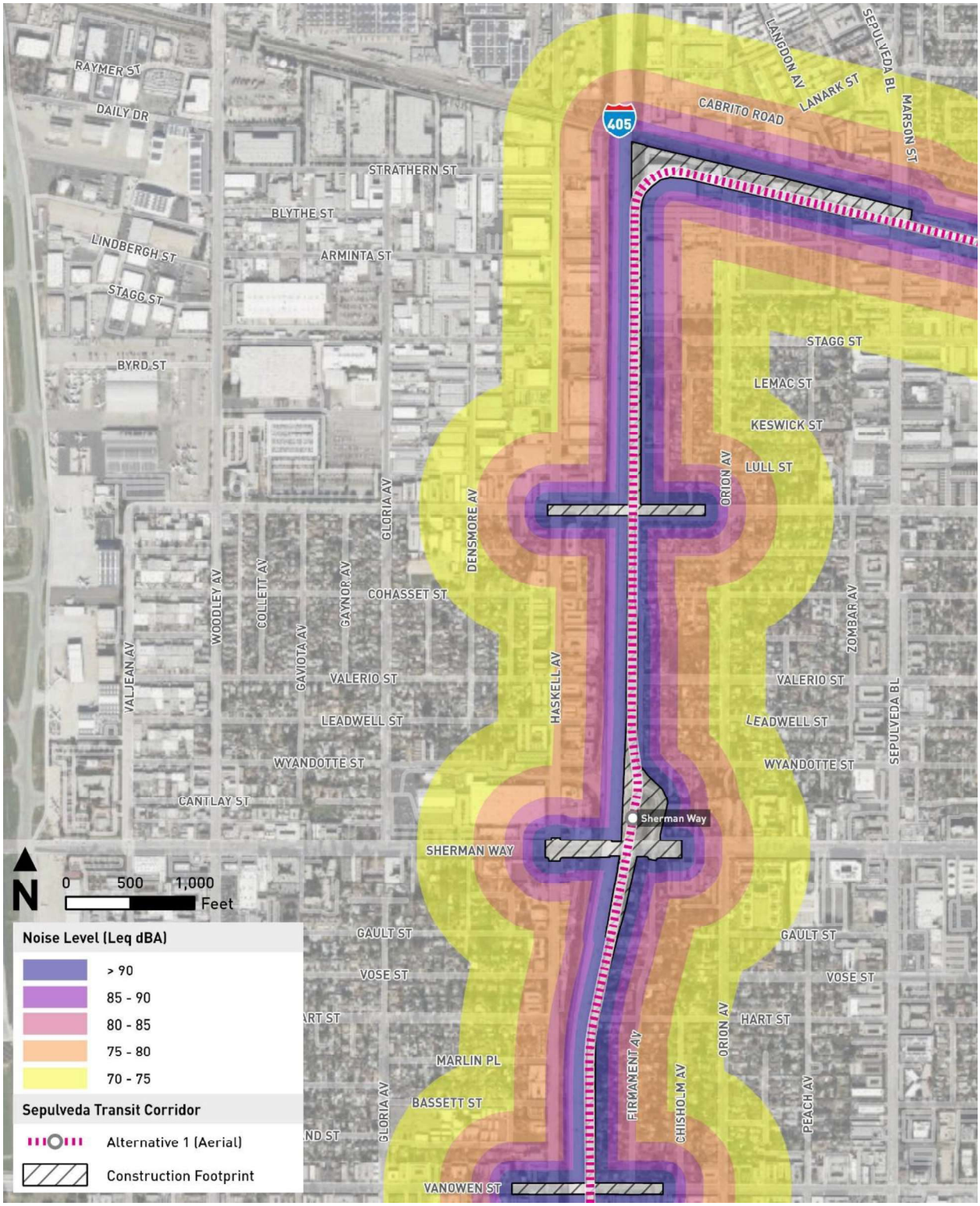
Source: HTA, 2024

Figure D-6. Alternative 1: Construction Equipment Noise Contours – View 6



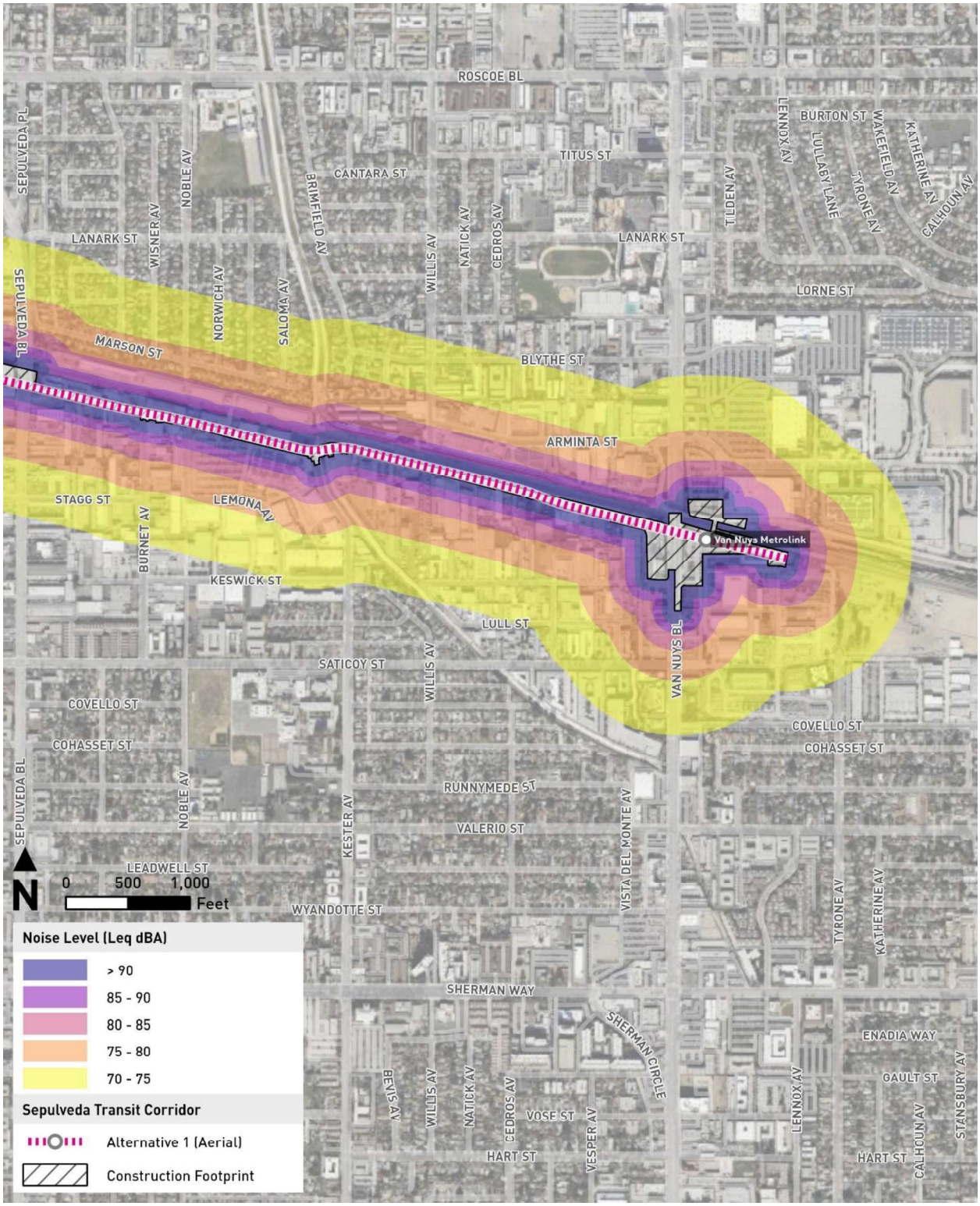
Source: HTA, 2024

Figure D-7. Alternative 1: Construction Equipment Noise Contours – View 7



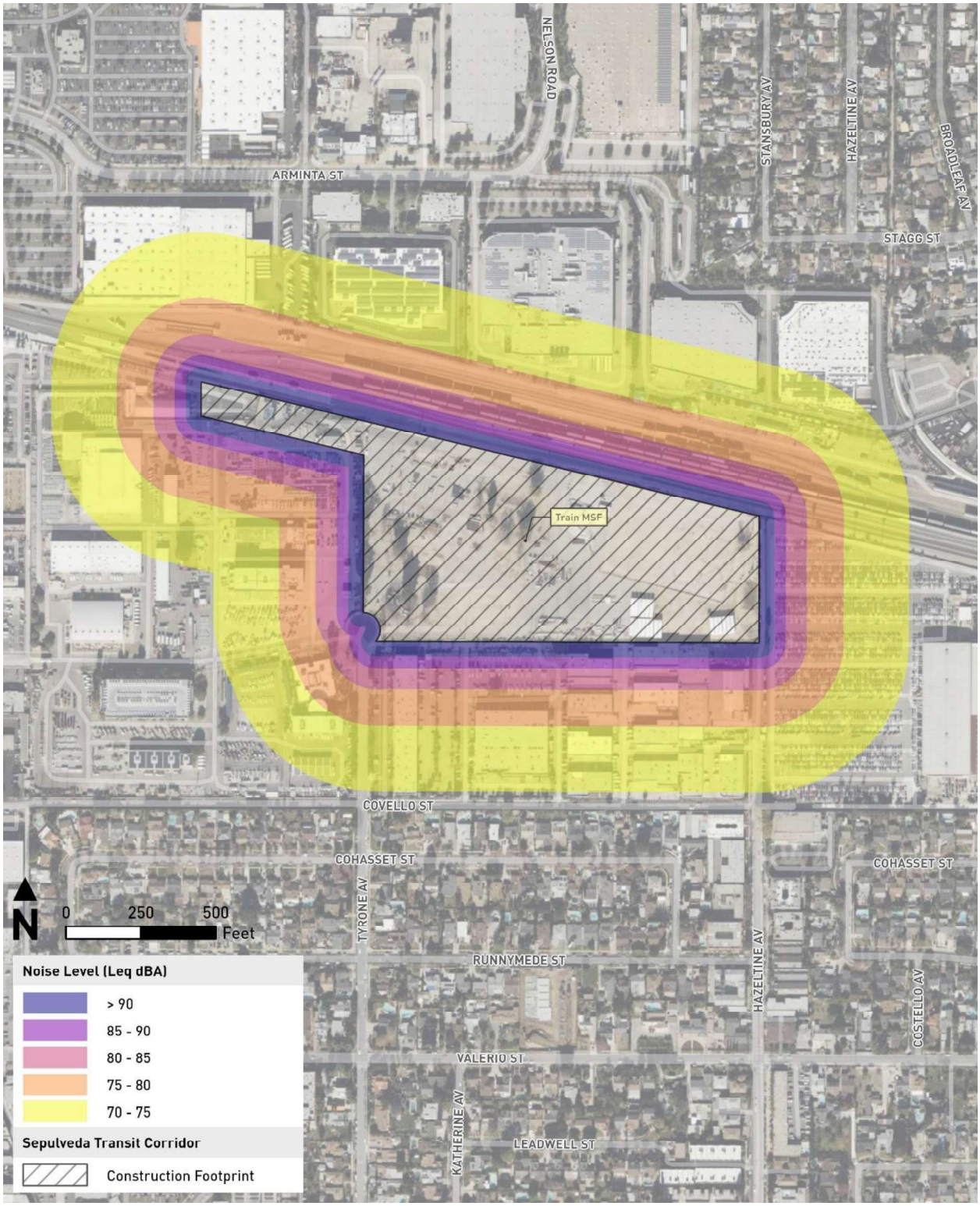
Source: HTA, 2024

Figure D-8. Alternative 1: Construction Equipment Noise Contours – View 8



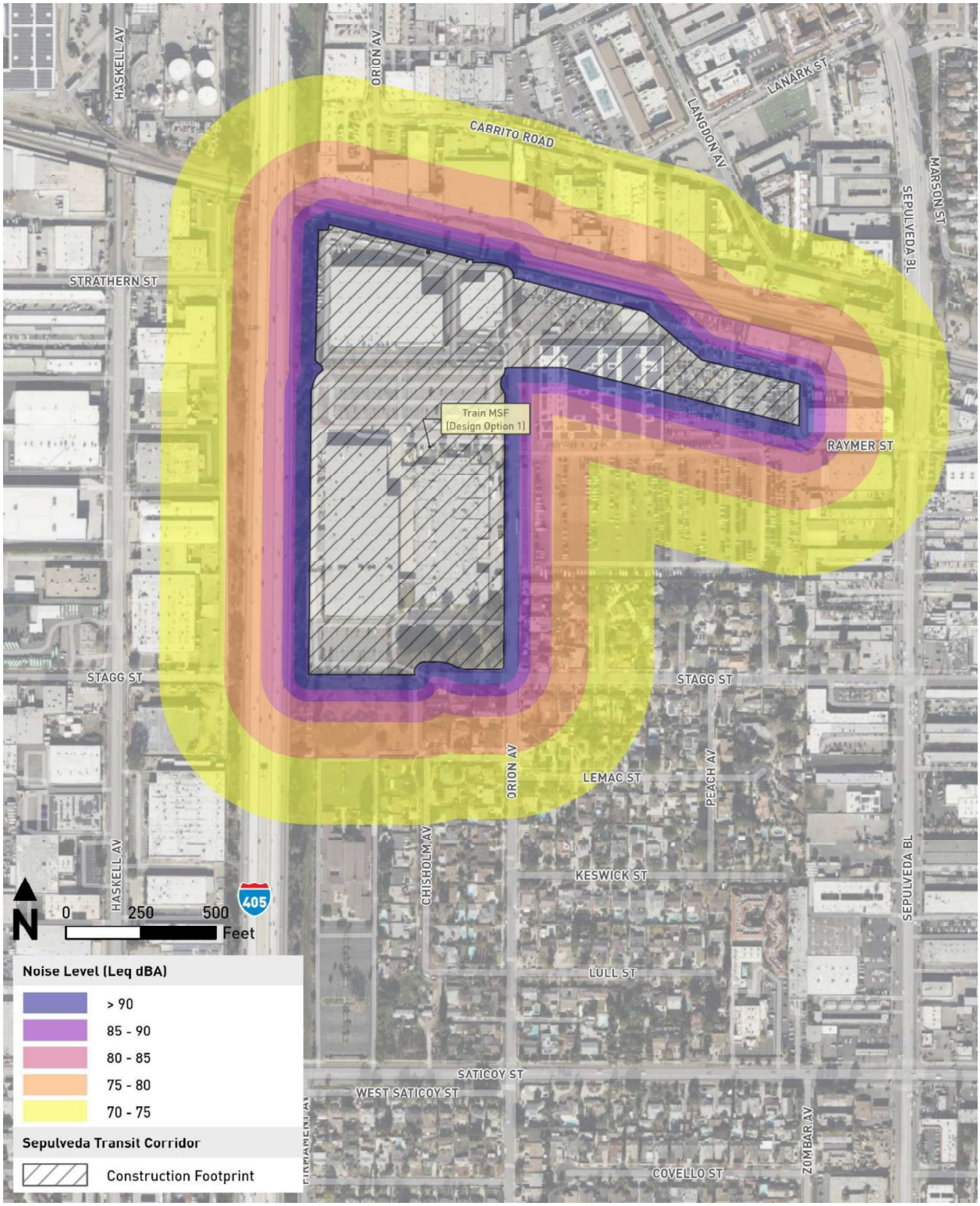
Source: HTA, 2024

Figure D-9. Alternative 1: Construction Equipment Noise Contours – Proposed MSF Base Design



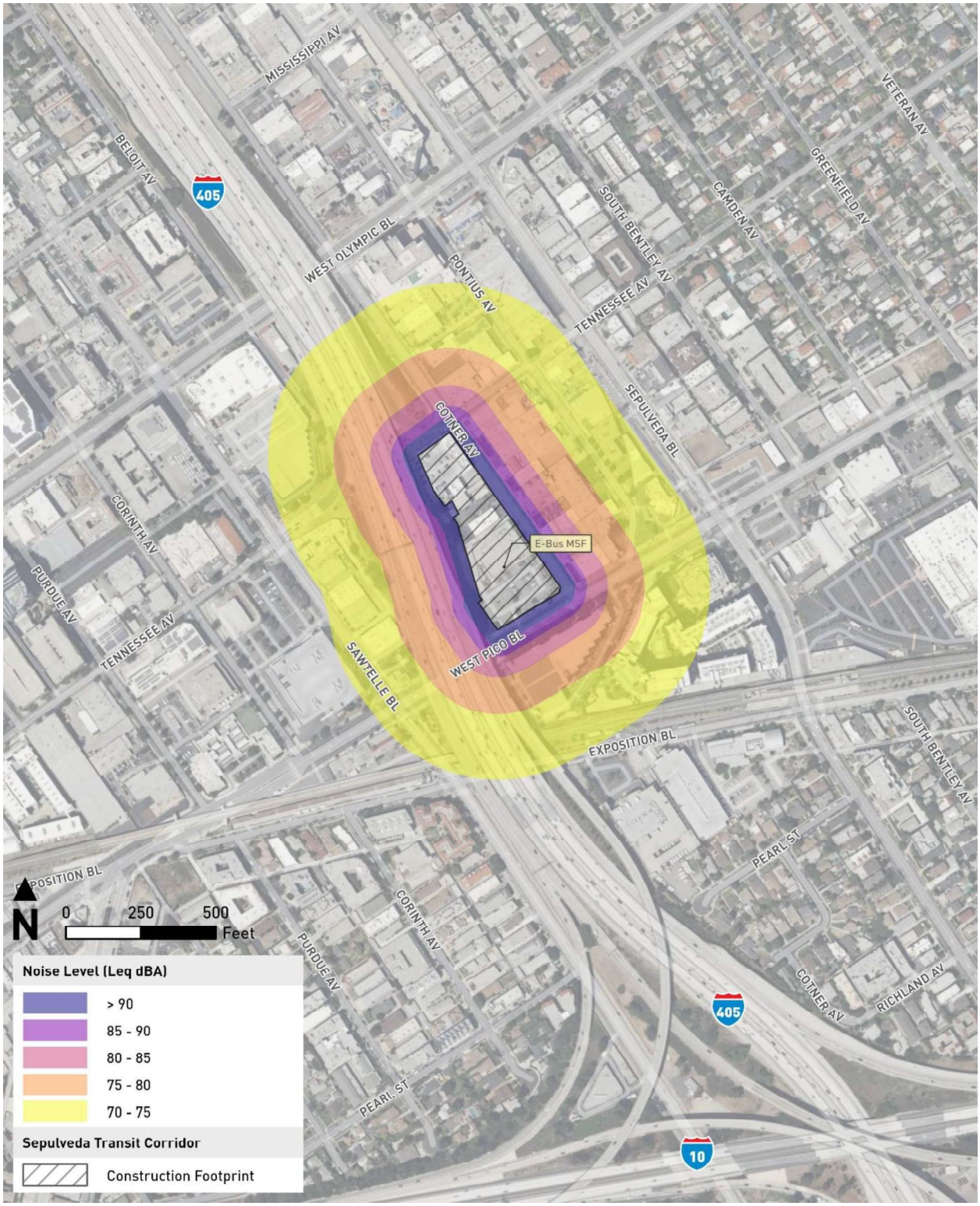
Source: HTA, 2024

Figure D-10. Alternative 1: Construction Equipment Noise Contours – Proposed MSF Design Option 1



Source: HTA, 2024

Figure D-11. Alternative 1: Construction Equipment Noise Contours – Proposed Electric Bus MSF



Source: HTA, 2024

Attachment 5. Alternative 1: Groundborne Vibration and Noise Assessment

Sepulveda Transit Corridor
Alternative 1
Groundborne Vibration and Noise Assessment

Location ID	Direction (NB/SB) (RT/LT)	Civil Station	Address	Land Use Type	Category	Distance (ft)	Unadjusted Vibration Level (VdB)	Vehicle Speed (mph)	Vibration Level (VdB) Adjusted for Speed	GBV Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?
V-1-1	NB	502+28	2435 S Sepulveda Blvd, Los Angeles, CA 90064	MFR	2	259.0	32	10	22	72	No	2	35	No
	SB	502+28				298.8	31	10	22		No	2		No
V-1-2	NB	532+69	KT Rehearsal Studios, 1956 Cotner Ave, Los Angeles	Music Studio	1	75.0	37	52	42	65	No	22	25	No
	SB	532+67				89.0	37	55	42		No	22		No
V-1-3	NB	557+54	Holiday Inn Express - West LA, 11250 Santa Monica Blvd, Los Angeles, CA 90025	MFR	2	302.0	31	19	27	72	No	7	35	No
	SB	557+27				288.0	31	25	30		No	10		No
V-1-4	NB	561+22	1521-1539 Beloit Ave, Los Angeles, CA 90025	MFR	2	47.7	39	28	39	72	No	19	35	No
	SB	561+05				33.7	41	31	41		No	21		No
V-1-5	NB	569+16	Greater LA Fisher House	MFR	2	47.7	39	39	42	72	No	22	35	No
	SB	569+05				33.7	41	46	44		No	24		No
V-1-6	NB	586+33	West LA VA Medical Center	Hospital	2	326.0	31	34	32	72	No	12	35	No
	SB	586+16				307.0	31	20	28		No	8		No
V-1-7	NB	629+23	11326 Berwick St, Los Angeles, CA 90049	SFR	2	140.4	35	56	40	72	No	20	35	No
	SB	629+10				126.4	35	56	40		No	20		No
V-1-8	NB	629+23	11330 Denair St, Los Angeles, CA 90049	SFR	2	173.3	34	56	39	72	No	19	35	No
	SB	629+10				159.3	34	56	39		No	19		No
V-1-9	NB	655+27	237 S Church Ln, Los Angeles, CA 90049	SFR	2	135.7	35	56	40	72	No	20	35	No
	SB	655+14				121.7	35	56	41		No	21		No
V-1-10	NB	674+48	Hotel Angeleno	Hotel	2	169.3	34	56	39	72	No	19	35	No
	SB	674+36	170 N Church Ln, Los Angeles, CA 90049			155.3	34	56	40		No	20		No
V-1-11	NB	682+71	Getty South Building	Museum	3	181.0	33	55	39	72	No	19	35	No
	SB	682+59				167.0	34	56	39		No	19		No
V-1-12	NB	729+11	The Getty, Fran and Ray Stark Sculpture Garden	Museum	3	220.8	33	54	38	72	No	18	35	No
	SB	729+05				206.8	33	40	35		No	15		No
V-1-13	NB	869+86	Skirball Cultural Center, Ziegler Amphitheater	Amphitheater	3	301.0	31	48	35	75	No	15	40	No
	SB	869+93				287.0	31	52	36		No	16		No
V-1-14	NB	877+92	Milken Community School - First Floor	School	3	215.0	33	53	38	75	No	18	40	No
	SB	878+02				201.0	33	56	38		No	18		No
V-1-15	NB	917+02	3550 Royal Woods Dr, Sherman Oaks, CA 91403	SFR	2	305.7	31	56	37	72	No	17	35	No
	SB	917+04				291.7	31	41	34		No	14		No
V-1-16	NB	921+19	3553 Scadlock Ln, Sherman Oaks, CA 91403	SFR	2	366.0	30	56	36	72	No	16	35	No
	SB	921+21				380.0	30	41	33		No	13		No
V-1-17	NB	924+49	15508 Royal Ridge Rd, Sherman Oaks, CA 91403	SFR	2	325.0	31	56	36	72	No	16	35	No
	SB	924+50				311.0	31	41	34		No	14		No
V-1-18	NB	941+53	15460 Briarwood Dr, Sherman Oaks, CA 91403	SFR	2	171.0	34	56	39	72	No	19	35	No
	SB	941+50				185.0	33	41	36		No	16		No
V-1-19	NB	943+84	15515 Woodcrest Dr, Sherman Oaks, CA 91403	SFR	2	193.0	33	56	39	72	No	19	35	No
	SB	943+82				179.0	34	41	36		No	16		No
V-1-20	NB	949+25	15528 Briarwood Dr, Sherman Oaks, CA 91403	SFR	2	290.0	31	56	37	72	No	17	35	No
	SB	949+24				304.0	31	42	34		No	14		No
V-1-21	NB	965+30	15371 Del Gado Dr, Sherman Oaks, CA 91403	SFR	2	141.0	35	56	40	72	No	20	35	No
	SB	965+33				155.0	34	42	37		No	17		No
V-1-22	NB	972+51	The Highland at Sherman Oaks	MFR	2	128.0	35	45	39	72	No	19	35	No
	SB	972+54	4355 Sepulveda Blvd, Sherman Oaks, CA 91403			142.0	35	34	36		No	16		No
V-1-23	NB	975+26	4401 Sepulveda Blvd, Sherman Oaks, CA 91403	MFR	2	185.0	33	38	35	72	No	15	35	No
	SB	975+28				199.0	33	25	31		No	11		No
V-1-24	NB	973+55	15350 Sutton St, Sherman Oaks, CA 91403	MFR	2	155.0	34	43	37	72	No	17	35	No
	SB	973+58				141.0	35	32	35		No	15		No
V-1-25	NB	980+00	4466 Sherman Oaks Cir, Sherman Oaks, CA 91403	SFR	2	203.0	33	19	29	72	No	9	35	No
	SB	980+04				189.0	33	16	28		No	8		No
V-1-26	NB	1017+92	Ivy Bound Academy	School	3	113.0	36	50	40	75	No	20	40	No
	SB	1017+69				127.0	35	51	40		No	20		No
V-1-27	NB	1031+61	Emek Hebrew Academy	School	3	151.0	34	56	40	75	No	20	40	No
	SB	1031+39	15365 Magnolia Blvd, Sherman Oaks, CA 91403			165.0	34	56	39		No	19		No
V-1-28	NB	1036+77	Weddington Apartements	MFR	2	106.0	36	56	41	72	No	21	35	No
	SB	1036+57	15370 Weddington St, Sherman Oaks, CA 91411			120.0	35	56	41		No	21		No

Sepulveda Transit Corridor
Alternative 1
Groundborne Vibration and Noise Assessment

Location ID	Direction (NB/SB) (RT/LT)	Civil Station	Address	Land Use Type	Category	Distance (ft)	Unadjusted Vibration Level (VdB)	Vehicle Speed (mph)	Vibration Level (VdB) Adjusted for Speed	GBV Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?
V-1-29	NB	1039+20	15353 Weddington St, Sherman Oaks, CA 91411	MFR	2	92.0	36	56	42	72	No	22	35	No
	SB	1039+03				106.0	36	56	41		No	21		No
V-1-30	NB	1044+77	La Fontana	MFR	2	163.0	34	56	39	72	No	19	35	No
	SB	1044+61	5345 Sepulveda Blvd suit 209, Sherman Oaks, CA 91411			177.0	34	56	39		No	19		No
V-1-31	NB	1046+17	5401 Sepulveda Blvd, Sherman Oaks, CA 91411	MFR	2	76.0	37	56	43	72	No	23	35	No
	SB	1046+00				90.0	36	56	42		No	22		No
V-1-32	NB	1049+83	Alber's Apartments	MFR	2	15.8	44	56	50	72	No	30	35	No
	SB	1049+63	15328 Albers St, Sherman Oaks, CA 91411			29.8	41	56	47		No	27		No
V-1-33	NB	1055+44	Best Western Plus Carriage Inn-North	Hotel	2	59.0	38	56	44	72	No	24	35	No
	SB	1055+21	5525 Sepulveda Blvd, Sherman Oaks, CA 91411			73.0	37	55	43		No	23		No
V-1-34	NB	1102+15	6217 Blucher Ave, Van Nuys, CA 91411	SFR	2	146.1	34	32	42	72	No	22	35	No
	SB	1101+83				160.1	34	42	37		No	17		No
V-1-35	NB	1107+88	6301 Blucher Ave, Van Nuys, CA 91411	SFR	2	137.3	35	44	38	72	No	18	35	No
	SB	1107+56				151.3	34	56	40		No	20		No
V-1-36	NB	1113+08	15541 Friar St, Van Nuys, CA 91411	SFR	2	73.5	37	49	42	72	No	22	35	No
	SB	1112+80				87.5	37	56	42		No	22		No
V-1-37	NB	1121+98	6456 Aqueduct Ave, Van Nuys, CA 91406	SFR	2	105.5	36	55	41	72	No	21	35	No
	SB	1121+73				119.5	35	50	40		No	20		No
V-1-38	NB	1128+15	6546 Aqueduct Ave, Van Nuys, CA 91406	SFR	2	97.7	36	50	41	72	No	21	35	No
	SB	1127+90				111.7	36	50	40		No	20		No
V-1-39	NB	1135+02	6654 Aqueduct Ave, Van Nuys, CA 91406	SFR	2	72.1	37	50	42	72	No	22	35	No
	SB	1134+77				86.1	37	56	42		No	22		No
V-1-40	NB	1140+53	Granada Aptartments	MFR	2	26.6	42	54	47	72	No	27	35	No
	SB	1140+28	15630 Vanowen St, Van Nuys, CA 91406			40.6	40	56	45		No	25		No
V-1-41	NB	1140+53	Vanowen Apartments	MFR	2	172.7	34	54	39	72	No	19	35	No
	SB	1140+28	15616 Vanowen St, Van Nuys, CA 91406			186.7	33	56	39		No	19		No
V-1-42	NB	1146+99	6841 Firmament Ave, Van Nuys, CA 91406	SFR	2	186.0	33	54	38	72	No	18	35	No
	SB	1146+74				200.0	33	56	38		No	18		No
V-1-43	NB	1160+57	15610 Lilli Wy, Van Nuys, CA 91406	MFR	2	52.6	39	52	44	72	No	24	35	No
	SB	1160+35				66.6	38	51	42		No	22		No
V-1-44	NB	1166+40	7135 Firmament Ave, Van Nuys, CA 91406	SFR	2	62.1	38	42	41	72	No	21	35	No
	SB	1166+17				96.9	36	31	37		No	17		No
V-1-45	NB	1172+51	Helen Towers	MFR	2	227.7	32	6	19	72	No	0	35	No
	SB	1172+28	15549 Sherman Way, Van Nuys, CA 91406			267.5	32	28	31		No	11		No
V-1-46	NB	1174+81	15556 Wyandotte Ave, Van Nuys, CA 91406	SFR	2	65.6	38	19	34	72	No	14	35	No
	SB	1174+54				81.4	37	31	37		No	17		No
V-1-47	NB	1176+30	15560 Leadwell St, Van Nuys, CA 91406	SFR	2	73.2	37	19	33	72	No	13	35	No
	SB	1175+98				87.2	37	33	38		No	18		No
V-1-48	NB	1184+15	7414 Firmament Ave, Van Nuys, CA 91406	SFR	2	94.2	36	48	40	72	No	20	35	No
	SB	1183+85				108.2	36	56	41		No	21		No
V-1-49	NB	1192+27	15559 Covello St, Van Nuys, CA 91406	SFR	2	58.2	38	55	44	72	No	24	35	No
	SB	1191+97				72.2	37	56	43		No	23		No
V-1-50	NB	1204+10	La Iglesia de Jesucristo de los Santos de los Últimos Días, Van Nuys	Church	3	81.2	37	56	42	72	No	22	40	No
	SB	1203+80				95.2	36	56	42		No	22		No
V-1-51	NB	1243+56	15242 Marson St, Van Nuys, CA 91402	SFR	2	406.7	30	53	35	72	No	15	35	No
	SB	1243+59				386.2	30	51	35		No	15		No
V-1-52	NB	1258+09	15018 Marson St, Panorama City, CA 91406	SFR	2	366.5	30	45	34	72	No	14	35	No
	SB	1258+12				346.0	31	33	32		No	12		No

Attachment 6. Alternative 3: Airborne Noise Impact Assessment and Mitigation

	Near Track Direction	NB Track Station	SB Track Station	Track Elevation ASL (ft)	Source Height Above Track (ft)	Ground Elevation @ Receiver ASL (ft)	Receiver Height Above Ground (ft)	Distance to NB Track (ft)			Distance to SB Track (ft)			Train Speeds		Existing Wall Adjustment		Building Shielding		Crossover Noise Adjustment		Calculated L_{dn}, dBA			Existing L_{dn} (dBA)	Level of Noise Impact				
								Horiz	Vertical	Total	Horiz	Vertical	Total	NB Speed (mph)	SB Speed (mph)	NB	SB	NB	SB	NB	SB	NB Track L_{dn} (dBA)	SB Track L_{dn} (dBA)	Total L_{dn} (dBA)		Impact L_{dn} (dBA) From	Impact L_{dn} (dBA) To	No Impact	Moderate Impact	Severe Impac
s Angeles, CA 90025	NB	502+28	502+28	239.5	2.0	170.0	45.0	259	26.5	260	299	26.5	300	10	10	0	0	0	0	0	0	36	35	39	74	66	72	√	--	--
	SB	557+54	557+27	303.0	2.0	242.0	35.0	302	28.0	303	288	28.0	289	19	25	0	0	0	0	0	0	41	43	45	66	62	67	√	--	--
	SB	561+22	561+05	313.6	2.0	258.0	35.0	48	22.6	53	34	22.6	41	28	31	0	0	0	0	0	0	55	58	60	66	62	67	√	--	--
	SB	3003+14	569+05	328.7	2.0	275.0	5.0	210	50.7	216	190	50.7	196	39	46	0	0	0	0	0	0	49	51	53	69	64	69	√	--	--
	SB	917+02	917+04	1072.5	2.0	1042.0	5.0	306	27.5	307	292	27.5	293	56	41	0	0	0	0	0	0	50	48	52	67	63	67	√	--	--
	NB	921+19	921+21	1050.1	2.0	1118.0	5.0	366	-70.9	373	380	-70.9	386	56	41	0	0	0	0	0	0	49	46	51	70	65	69	√	--	--
	SB	924+49	924+50	1032.3	2.0	930.0	5.0	325	99.3	340	311	99.3	327	56	41	-4.3	-0.7	0	0	0	0	45	46	49	63	60	65	√	--	--
	NB	941+53	941+50	940.5	2.0	970.0	5.0	171	-32.5	174	185	-32.5	187	56	41	-8.1	-7.2	0	0	0	0	46	43	48	74	66	72	√	--	--
	SB	943+84	943+82	927.8	2.0	850.0	5.0	193	74.8	207	179	74.8	194	56	41	-15.0	-15.0	0	0	0	0	38	35	40	63	60	65	√	--	--
	SB	949+25	949+24	897.6	2.0	980.0	5.0	290	-85.4	303	304	-85.4	316	56	42	0	0	0	0	0	0	50	47	52	72	66	71	√	--	--
	NB	965+30	965+33	808.0	2.0	800.0	15.0	141	-5.0	141	155	-5.0	155	56	42	0	0	0	0	0	0	55	52	57	72	66	71	√	--	--
an Oaks, CA 91403	NB	972+51	972+54	786.6	2.0	734.0	35.0	128	19.6	129	142	19.6	143	45	34	0	0	0	0	0	0	54	51	56	72	66	71	√	--	--
	NB	975+26	975+28	783.2	2.0	732.0	45.0	185	8.2	185	199	8.2	199	38	25	0	0	0	0	0	0	50	46	51	72	66	71	√	--	--
	SB	973+55	973+58	785.0	2.0	736.0	15.0	155	36.0	159	141	36	145	43	32	-1.6	0	0	0	0	0	50	50	53	72	66	71	√	--	--
	SB	980+00	980+04	778.1	2.0	728.0	5.0	203	47.1	208	189	47.1	195	19	16	-4.3	-2.2	0	0	0	0	39	40	42	72	66	71	√	--	--
an Oaks, CA 91403	NB	1031+61	1031+39	715.3	2.0	680.0	35.0	274	2.3	274	288	2.3	288	56	56	0	0	-1.5	-1.5	0	0	49	49	52	65	61	66	√	--	--
	NB	1035+27	1035+07	717.9	2.0	682.5	5.0	72	32.4	79	86	32.4	92	56	56	0	0	0	0	0	0	59	58	61	67	63	67	√	--	--
Oaks, CA 91411	NB	1036+77	1036+57	719.5	2.0	682.0	15.0	106	24.5	109	120	24.5	123	56	56	0	0	0	0	0	0	57	56	59	67	63	67	√	--	--
	NB	1039+20	1039+03	720.0	2.0	682.0	25.0	92	15.0	93	106	15	107	56	56	0	0	0	0	0	0	58	57	60	67	63	67	√	--	--
A 91411	NB	1044+77	1044+61	720.8	2.0	683.5	15.0	163	24.3	165	177	24.3	179	56	56	0	0	0	0	0	0	54	54	57	67	63	67	√	--	--
	NB	1046+17	1046+00	721.8	2.0	685.0	15.0	76	23.8	79	90	23.8	93	56	56	0	0	0	0	0	0	59	58	61	67	63	67	√	--	--
	NB	1049+83	1049+63	727.8	2.0	685.0	15.0	16	29.8	34	30	29.8	42	56	56	0	0	0	0	0	0	64	63	67	70	65	69	--	√	--
Sherman Oaks, CA	NB	1051+98	1051+76	731.5	2.0	687.0	25.0	59	21.5	63	73	21.5	76	56	56	0	0	0	0	0	0	60	59	63	67	63	67	--	√	--
Sherman Oaks, CA	NB	1055+44	1055+21	740.3	2.0	688.0	15.0	107	39.3	114	121	39.3	128	56	55	0	0	0	0	0	0	56	56	59	67	63	67	√	--	--
	NB	1100+86	1100+53	749.7	2.0	716.0	5.0	286	30.7	288	300	30.7	302	31	38	0	0	0	0	0	0	45	47	49	63	60	65	√	--	--
	NB	1102+15	1101+83	747.9	2.0	718.0	5.0	146	26.9	149	160	26.9	162	32	42	0	0	0	0	0	0	50	52	54	63	60	65	√	--	--
	NB	1105+71	1105+39	751.7	2.0	718.0	5.0	318	30.7	319	332	30.7	333	41	51	0	0	0	0	0	0	47	49	51	63	60	65	√	--	--
	NB	1107+88	1107+56	754.6	2.0	721.0	5.0	137	30.6	141	151	30.6	154	44	56	0	0	0	0	0	0	53	55	57	63	60	65	√	--	--
	NB	1112+16	1111+88	760.4	2.0	720.0	5.0	288	37.4	290	302	37.4	304	48	56	0	0	0	0	0	0	49	50	53	60	58	63	√	--	--
	NB	1113+08	1112+80	761.7	2.0	721.0	5.0	74	37.7	83	88	37.7	95	49	56	0	0	0	0	0	0	57	58	61	69	64	69	√	--	--
	NB	1121+98	1121+73	768.8	2.0	726.0	5.0	105	39.8	113	119	39.8	126	55	50	0	0	0	0	0	0	56	55	59	69	64	69	√	--	--
	NB	1121+97	1121+72	768.8	2.0	726.0	5.0	208	39.8	212	222	39.8	226	55	50	0	0	0	0	0	0	52	51	55	66	62	67	√	--	--
	NB	1128+15	1127+90	763.7	2.0	730.0	5.0	98	30.7	102	112	30.7	116	50	50	0	0	0	0	0	0	56	55	59	69	64	69	√	--	--
	NB	1128+15	1127+90	763.7	2.0	730.0	5.0	203	30.7	205	217	30.7	219	50	50	0	0	0	0	0	0	52	51	54	65	61	66	√	--	--
	NB	1135+02	1134+77	765.5	2.0	735.0	5.0	72	27.5	77	86	27.5	90	50	56	0	0	0	0	0	0	58	58	61	69	64	69	√	--	--
	NB	1135+42	1135+17	766.0	2.0	735.2	5.0	235	27.8	236	249	27.8	250	50	56	0	0	0	0	0	0	51	51	54	65	61	66	√	--	--
	NB	1140+53	1140+28	771.4	2.0	737.0	25.0	27	11.4	29	41	11.4	42	54	56	0	0	0	0	0	0	65	63	67	71	66	70	--	√	--
	NB	1140+53	1140+28	771.4	2.0	737.5	25.0	173	10.9	173	187	10.9	187	54	56	0	0	0	0	0	0	53	53	56	69	64	69	√	--	--
	NB	1146+99	1146+74	777.8	2.0	742.0	5.0	186	32.8	189	200	32.8	203	56	56	0	0	0	0	0	0	53	53	56	65	61	66	√	--	--
	NB	1156+33	1156+11	784.7	2.0	747.0	5.0	33	34.7	48	47	34.7	58	56	56	0	0	0	0	0	0	62	61	65	67	63	67	--	√	--
	NB	1160+57	1160+35	786.8	2.0	752.0	5.0	53	31.8	61	67	31.8	74	52	51	0	0	0	0	0	0	60	59	62	68	63	68	√	--	--
	NB	1166+40	1166+17	807.5	2.0	752.0	15.0	62	42.5	75	97	42.5	106	42	31	0	0	0	0	0	0	57	52	58	68	63	68	√	--	--
	NB	1172+51	1172+28	815.4	2.0	757.0	35.0	228	25.4	229	267	25.4	269	6	28	0	0	0	0	0	0	33	45	45	67	63	67	√	--	--
	NB	1173+85	1173+81	814.6	2.0	758.0	5.0	139	53.6	149	167	51.1	175	19	31	0	0	0	0	0	0	45	49	50	67	63	67	√	--	--
	NB	1174+81	1174+54	812.4	2.0	758.0	5.0	66	51.4	83	81	51.4	96	19	31	0	0	0	0	0	0	49	52	54	67	63	67	√	--	--
	NB	1176+30	1175+98	807.9	2.0	758.8	5.0	73	46.1	87	87	46.1	99	19	33	0	0	0	0	0	0	49	53	54	67	63	67	√	--	--
	NB	1184+15	1183+85	792.4	2.0	763.0	5.0	94	26.4	98	108	26.4	111	48	56	0	0	0	0	0	0	56	57	59	66	62	67	√	--	--
	NB	1192+27	1191+97	799.2	2.0	769.0	5.0	58	27.2	64	72	27.2	77	55	56	0	0	0	0	0	0	60	59	63	67	63	67	--	√	--
	SB	1243+56	1243+59	840.0	2.0	793.1	5.0	407	43.9	409	386	43.9	389	53	51	0	0	0	0	0	0	48	48	51	61	59	64	√	--	--
	SB	1258+09	1258+12	829.0	2.0	793.0	5.0	366	33.0	368	352	33.025	354	45	33	0	0	0	0	0	0	47	45	49	61	59	64	√	--	--

49.2
56.3
73.7
6
81.5

	Period	Headway (min)	Hours	Number of Trains (each direction)
	Peak AM	2	3	90
	Mid-day	5	5	60
	Peak PM	2	4	120
	Evening	5	3	36
Totals:			15	306
	Early	10	2	12
	Peak AM	2	1	30
	Late	10	4	24
Totals:			7	66
				966

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ption	Near Track Direction	NB Track Station	SB Track Station	Track Elevation ASL (ft)	Source Height Above Track (ft)	Ground Elevation @ Receiver ASL (ft)	Receiver Height Above Ground (ft)	Receiver Distance to NB Source (ft)			Receiver Distance to SB Source (ft)			Train Speeds		Source-Receiver Path Adjustments: Existing Soundwall Noise Reduction (dBA)		Existing Buildings Shielding Adjustment		Crossover Adj		Calculated L_{eq} (dBA)			Existing L_{eq} (dBA)
								Horiz	Vertical	Total	Horiz	Vertical	Total	NB Speed (mph)	SB Speed (mph)	NB	SB	NB	SB	NB	SB	NB Track L_{eq}	SB Track L_{eq}	Total L_{eq}	
	NB	532+69	532+67	245.8	2.0	215.9	5.0	75	26.9	80	89	26.9	93	52	55	0	0	0	0	0	0	57	56	60	70
ulveda Blvd, Los Angeles	SB	3016+23	3009+36	331.0	2.0	293.0	5.0	28	35.0	45	6	35.0	36	22	29	0	0	0	0	0	0	53	57	59	60
	NB	3023+97	3017+11	294.5	2.0	290.0	5.0	104	1.5	104	125	1.5	125	29	22	0	0	0	0	0	0	50	46	52	54
	SB	3217+34	3209+87	723.1	2.0	660.0	5.0	482	60.1	486	465	60.1	469	31	25	0	0	0	0	0	0	41	39	43	67
	SB	745+74	745+77	753.9	2.0	712.0	5.0	145	38.9	151	131	38.9	137	19	19	0	0	0	0	0	0	44	44	47	67
	SB	869+86	869+93	1130.1	2.0	1112.0	5.0	301	15.1	301	287	15.1	287	48	52	0	0	0	0	0	0	48	48	51	61
	SB	877+92	878+02	1144.4	2.0	1172.0	5.0	215	-30.6	217	201	-30.6	203	53	56	0	0	0	0	0	0	51	51	54	71
	SB	877+23	877+33	1143.2	2.0	1182.0	5.0	280	-41.8	283	266	-41.8	269	53	56	0	0	0	0	0	0	49	50	52	71
	NB	1017+92	1017+69	734.9	2.0	682.0	5.0	113	49.9	124	127	49.9	137	50	51	0	0	0	0	0	0	54	53	56	68
Oaks, CA 91403	NB	1031+61	1031+39	715.3	2.0	680.0	35.0	151	2.3	151	165	2.3	165	56	56	0	0	0	0	0	0	53	53	56	59
Van Nuys	NB	1204+10	1203+80	822.0	2.0	775.0	5.0	81	44.0	92	95	44.0	105	56	56	0	0	0	0	0	0	56	56	59	63

49.2
56.3
73.7
6
81.5

30

Attachment 7. Alternative 3: Off-Road Construction Equipment Noise Levels

Sepulveda Transit Corridor
Alternative 3
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
MRT Segment 1-Van Nuys Metrolink to Getty Center-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 1-Van Nuys Metrolink to Getty Center-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 1-Van Nuys Metrolink to Getty Center-Substructure Foundations (CIDH)	Oscillating Drill Rig	7	84	20%	85	96
	Crawler Crane	7	83	20%	84	
	Hydraulic Crane	7	88	20%	89	
	Telescoping Fork	14	75	20%	79	
	Wheel Loader	7	80	40%	84	
	Med. Excavator	7	82	40%	86	
	Concrete Pump	7	77	40%	81	
	Generator	14	82	50%	90	
MRT Segment 1-Van Nuys Metrolink to Getty Center-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
MRT Segment 1-Van Nuys Metrolink to Getty Center-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
MRT Segment 6-Getty Center to Federal Building-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 6-Getty Center to Federal Building-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 6-Getty Center to Federal Building-Launch Box	Drill Rig	1	84	20%	77	88
	Track Loader	2	80	40%	79	
	Telescoping Fork	3	75	20%	73	
	Crawler Crane	1	83	20%	76	
	Mini Excavator	1	75	40%	71	
	Hydraulic Crane	1	88	20%	81	
	Wheel Loader	1	80	40%	76	
	Concrete Pump	1	77	40%	73	
	Generator	3	82	50%	84	
MRT Segment 6-Getty Center to Federal Building-Finishing Work	Telescoping Fork	3	75	20%	73	86
	Crawler Crane	1	83	20%	76	
	Mini Excavator	1	75	40%	71	
	Hydraulic Crane	1	83	20%	76	
	Wheel Loader	1	80	40%	76	
	Concrete Pump	1	77	40%	73	
	Generator	3	82	50%	84	

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 3-405-Wilshire Interchange Stretch-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Substructure Foundations (CIDH)	Drill Rig	1	84	20%	77	88
	Track Loader	2	80	40%	79	
	Telescoping Fork	3	75	20%	73	
	Crawler Crane	1	83	20%	76	
	Mini Excavator	1	75	40%	71	
	Hydraulic Crane	1	88	20%	81	
	Wheel Loader	1	80	40%	76	
	Concrete Pump	1	77	40%	73	
	Generator	3	82	50%	84	
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Precast Superstructure Assembly	Hydraulic Crane	1	88	20%	81	88
	Telescoping Fork	2	75	40%	74	
	Crawler Crane	1	83	20%	76	
	Wheel Loader	1	80	40%	76	
	Generator	2	82	50%	82	
	Manlift	3	85	20%	83	
MRT Segment 7-Federal Building to South of 405-Wilshire Interchange-Finishing Work	Telescoping Fork	3	75	40%	76	87
	Crawler Crane	1	83	20%	76	
	Mini Excavator	1	75	40%	71	
	Hydraulic Crane	1	88	20%	81	
	Wheel Loader	1	80	40%	76	
	Concrete Pump	1	77	40%	73	
	Generator	3	82	50%	84	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Substructure Foundations (CIDH)	Oscillating Drill Rig	2	84	20%	80	90
	Crawler Crane	2	83	20%	79	
	Hydraulic Crane	2	88	20%	84	
	Telescoping Fork	4	75	20%	74	
	Wheel Loader	2	80	40%	79	
	Med. Excavator	2	82	40%	81	
	Concrete Pump	2	77	40%	76	
	Generator	4	82	50%	85	

Sepulveda Transit Corridor
Alternative 3
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
MRT Segment 4-South of 405-Wilshire Interchange to Metro E Line-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Van Nuys MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Van Nuys MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Van Nuys MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Van Nuys MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Van Nuys MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Sherman Way MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Sherman Way MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Sherman Way MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Sherman Way MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Sherman Way MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Metro G Line MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Metro G Line MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Metro G Line MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Metro G Line MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Metro G Line MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Sherman Oaks-Vta Blvd MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Sherman Oaks-Vta Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Sherman Oaks-Vta Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	

Sepulveda Transit Corridor
Alternative 3
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Sherman Oaks-Vta Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Sherman Oaks-Vta Blvd MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Getty Center MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Getty Center MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Getty Center MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Getty Center MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Getty Center MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
UCLA Gateway MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
UCLA Gateway MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
UCLA Gateway MRT Station-Station SOE-Excavation	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	

UCLA Gateway MRT Station-Station Construction	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
UCLA Gateway MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Wilshire Blvd-Metro D Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Wilshire Blvd-Metro D Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Wilshire Blvd-Metro D Station-Station SOE-Excavation	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Wilshire Blvd-Metro D Station-Station Construction	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Wilshire Blvd-Metro D Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Santa Monica Blvd MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Santa Monica Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Santa Monica Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	

Sepulveda Transit Corridor
Alternative 3
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Santa Monica Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Santa Monica Blvd MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
Exposition Blvd MRT Station-Utility Relocations	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Exposition Blvd MRT Station-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Exposition Blvd MRT Station-Substructure Foundations (CIDH)	Oscillating Drill Rig	1	84	20%	77	87
	Crawler Crane	1	83	20%	76	
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Exposition Blvd MRT Station-Precast Superstructure Assembly	Crawler Crane	1	83	20%	76	87
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	40%	74	
	Wheel Loader	1	80	40%	76	
	Med. Excavator	1	82	40%	78	
	Concrete Pump	1	77	40%	73	
	Generator	2	82	50%	82	
Exposition Blvd MRT Station-Finishing Work	Hydraulic Crane	1	88	20%	81	85
	Telescoping Fork	2	75	40%	74	
	Generator	2	82	50%	82	
TPSS 4-405-Near Getty Center on East side of 405-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 4-405-Near Getty Center on East side of 405-Demolition/Site Preparation	Large Excavator	1	85	40%	81	85
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 4-405-Near Getty Center on East side of 405-Grading/Excavation	Large Excavator	1	85	40%	81	87
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Dozer-1ea	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 4-405-Near Getty Center on East side of 405-Concrete Work	Compactor	4	82	20%	81	83
	Telescoping Fork	4	75	40%	77	
	Conc Pump	2	77	40%	76	
TPSS 4-405-Near Getty Center on East side of 405-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	

TPSS 4-405-Near Getty Center on East side of 405-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
TPSS 6-Skirball-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 6-Skirball-Demolition/Site Preparation	Large Excavator	1	85	40%	81	85
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 6-Skirball-Grading/Excavation	Large Excavator	1	85	40%	81	87
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Dozer-1ea	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 6-Skirball-Concrete Work	Compactor	4	82	20%	81	83
	Telescoping Fork	4	75	40%	77	
	Conc Pump	2	77	40%	76	
TPSS 6-Skirball-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 6-Skirball-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
TPSS 11-Raymer-Van Nuys-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
TPSS 11-Raymer-Van Nuys-Demolition/Site Preparation	Large Excavator	1	85	40%	81	85
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 11-Raymer-Van Nuys-Grading/Excavation	Large Excavator	1	85	40%	81	87
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Dozer-1ea	1	85	40%	81	
	Compactor	1	82	20%	75	
TPSS 11-Raymer-Van Nuys-Concrete Work	Compactor	4	82	20%	81	83
	Telescoping Fork	4	75	40%	77	
	Conc Pump	2	77	40%	76	
TPSS 11-Raymer-Van Nuys-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	82	20%	75	
	Telescoping Fork	1	75	20%	68	

Sepulveda Transit Corridor
Alternative 3
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

TPSS 11-Raymer-Van Nuys-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
OMSF-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
OMSF-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
OMSF-Grading/Excavation	Large Excavator	1	85	40%	81	89
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	623 Scraper	2	85	40%	84	
	Compactor	2	82	20%	78	
OMSF-Concrete Work	RTG Crane	1	83	20%	76	86
	Hydraulic Crane	1	88	20%	81	
	Telescoping Fork	2	75	20%	71	
	Wheel Loader	1	80	40%	76	
	Concrete Pump	1	77	40%	73	
	Manlift	2	85	20%	81	
OMSF-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
OMSF-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	1	80	40%	76	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	
Haynes St Utility Relocation-Construction	Medium Excavator	1	82	40%	78	90
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
	Asphalt Paver	1	85	50%	82	
	Asphalt Roller	1	85	20%	78	
	Jack and Bore Rig	1	90	40%	86	
Missouri Ave Utility Relocation-Construction	Medium Excavator	1	82	40%	78	90
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
	Asphalt Paver	1	85	50%	82	
	Asphalt Roller	1	85	20%	78	
	Jack and Bore Rig	1	90	40%	86	

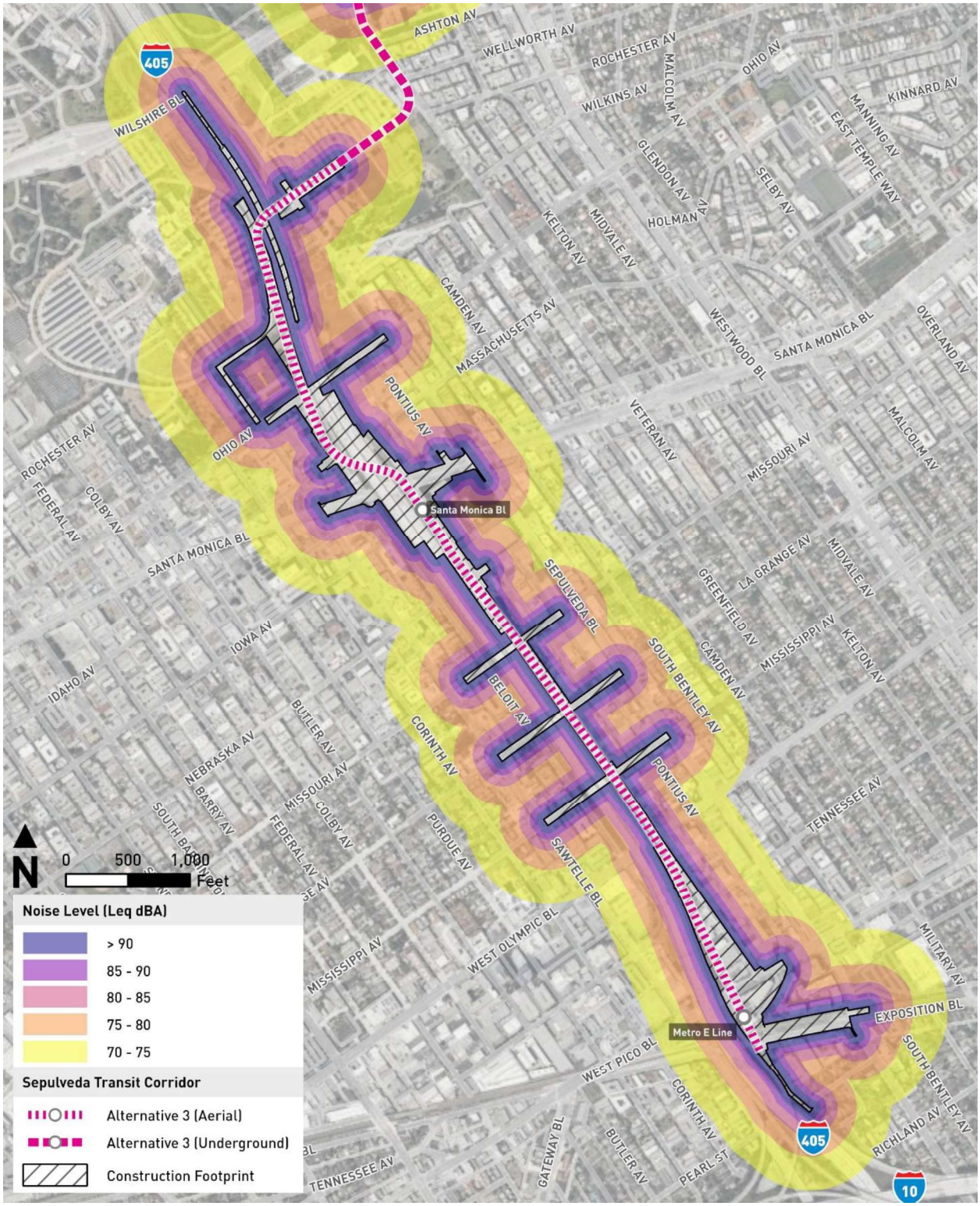
La Grange Ave Utility Relocation-Construction	Medium Excavator	1	82	40%	78	90
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
	Asphalt Paver	1	85	50%	82	
	Asphalt Roller	1	85	20%	78	
	Jack and Bore Rig	1	90	40%	86	
Mississippi Ave Utility Relocation-Construction	Medium Excavator	1	82	40%	78	90
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
	Asphalt Paver	1	85	50%	82	
	Asphalt Roller	1	85	20%	78	
	Jack and Bore Rig	1	90	40%	86	
I-405 Improvements-Utility Relocation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
I-405 Improvements-Demolition/Site Preparation	Large Excavator	4	85	40%	87	91
	Wheel Loader	4	80	40%	82	
	Dozer	4	85	40%	87	
	Compactor	4	82	20%	81	
I-405 Improvements-Grading/Excavation	Large Excavator	4	85	40%	87	94
	Motor Grader	4	75	40%	77	
	Wheel Loader	4	80	40%	82	
	Dozer-1ea	8	85	40%	90	
	623 Scraper	4	85	40%	87	
	Compactor	4	82	20%	81	
I-405 Improvements-Concrete Work	Compactor	4	82	20%	81	87
	Telescoping Fork	4	75	20%	74	
	Slip Form Paver	2	85	50%	85	
Precast Yard-Demolition/Site Preparation	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	
Precast Yard-Grading/Excavation	Large Excavator	1	85	40%	81	89
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	623 Scraper	2	85	40%	84	
	Compactor	2	82	20%	78	
Precast Yard-Concrete Work	Gantry Crane	1	88	20%	81	89
	RTG Crane	4	83	20%	82	
	Hydraulic Crane	2	88	20%	84	
	Telescoping Fork	4	75	20%	74	
	Wheel Loader	2	80	40%	79	
	Concrete Pump	2	77	40%	76	
	Manlift	2	85	20%	81	
Precast Yard-Utility Work	Medium Excavator	1	82	40%	78	87
	Small Excavator	1	75	40%	71	
	Motor Grader	1	85	40%	81	
	Wheel Loader	1	80	40%	76	
	Pavement Saw	1	90	20%	83	
	Small Compactor	1	80	20%	73	
	Telescoping Fork	1	75	20%	68	

Sepulveda Transit Corridor
Alternative 3
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Precast Yard-Paving	Motor Grader	1	85	40%	81	88
	Wheel Loader	2	80	40%	79	
	Dozer	1	85	40%	81	
	Compactor	2	82	20%	78	
	Asphalt Paver	1	85	50%	82	
	Asphalt roller	2	85	20%	81	

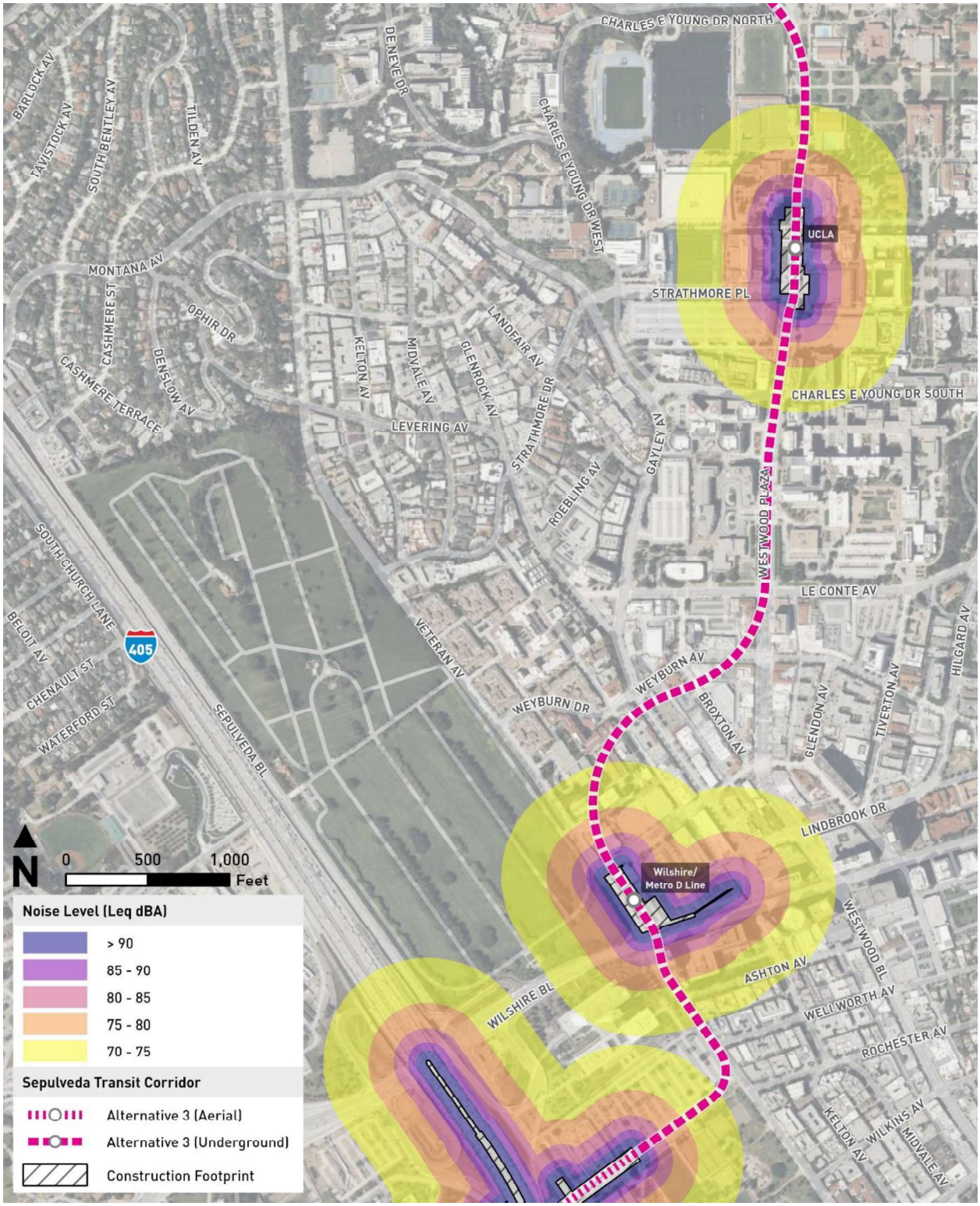
Precast Yard-Guideway Fabrication	Cranes	4	85	20%	84	86
	Rough Terrain Forklifts	2	80	20%	76	
	Concrete Pumps	4	77	40%	79	

Figure G-1. Alternative 3: Construction Equipment Noise Contours – View 1



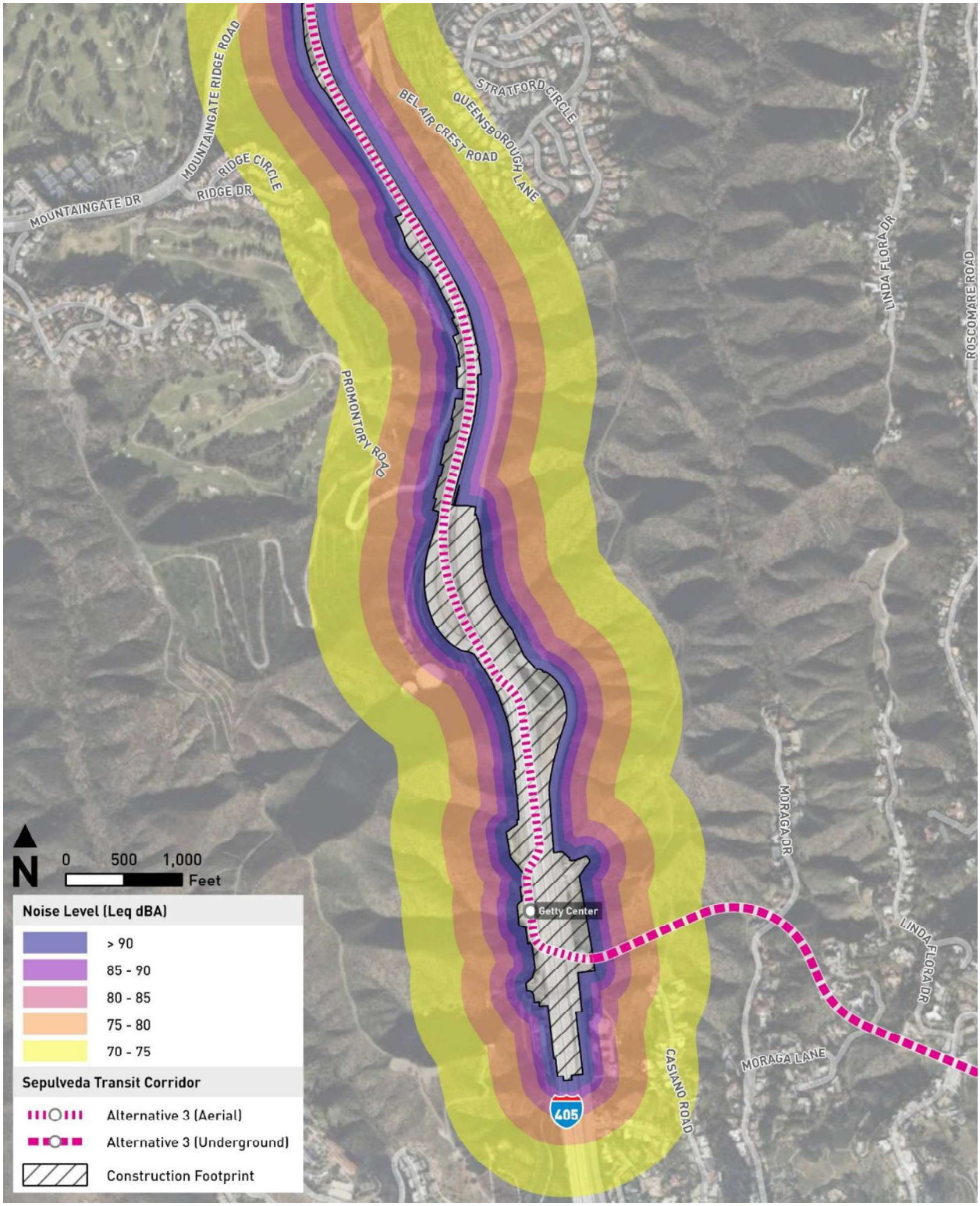
Source: HTA, 2024

Figure G-2. Alternative 3: Construction Equipment Noise Contours – View 2



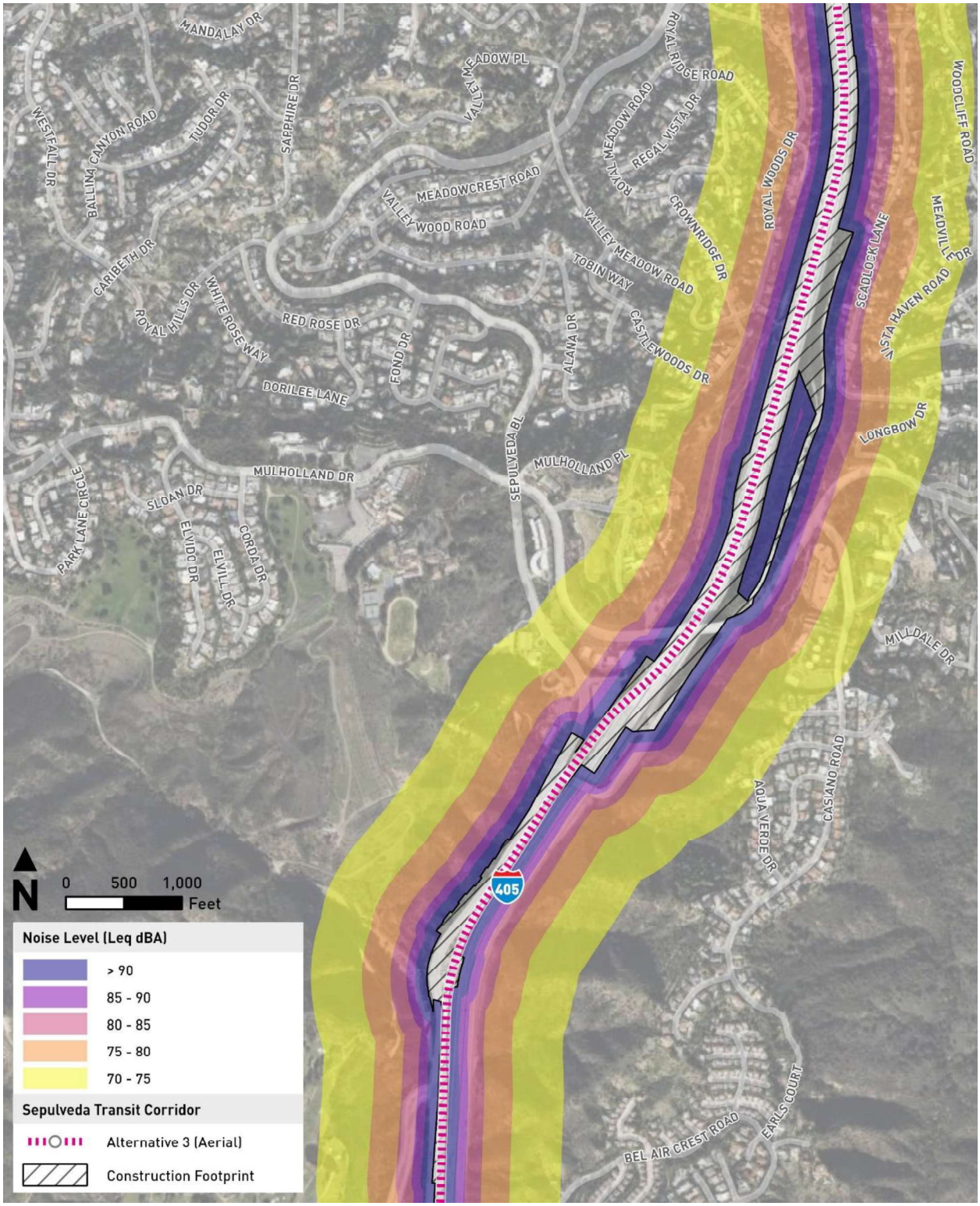
Source: HTA, 2024

Figure G-3. Alternative 3: Construction Equipment Noise Contours – View 3



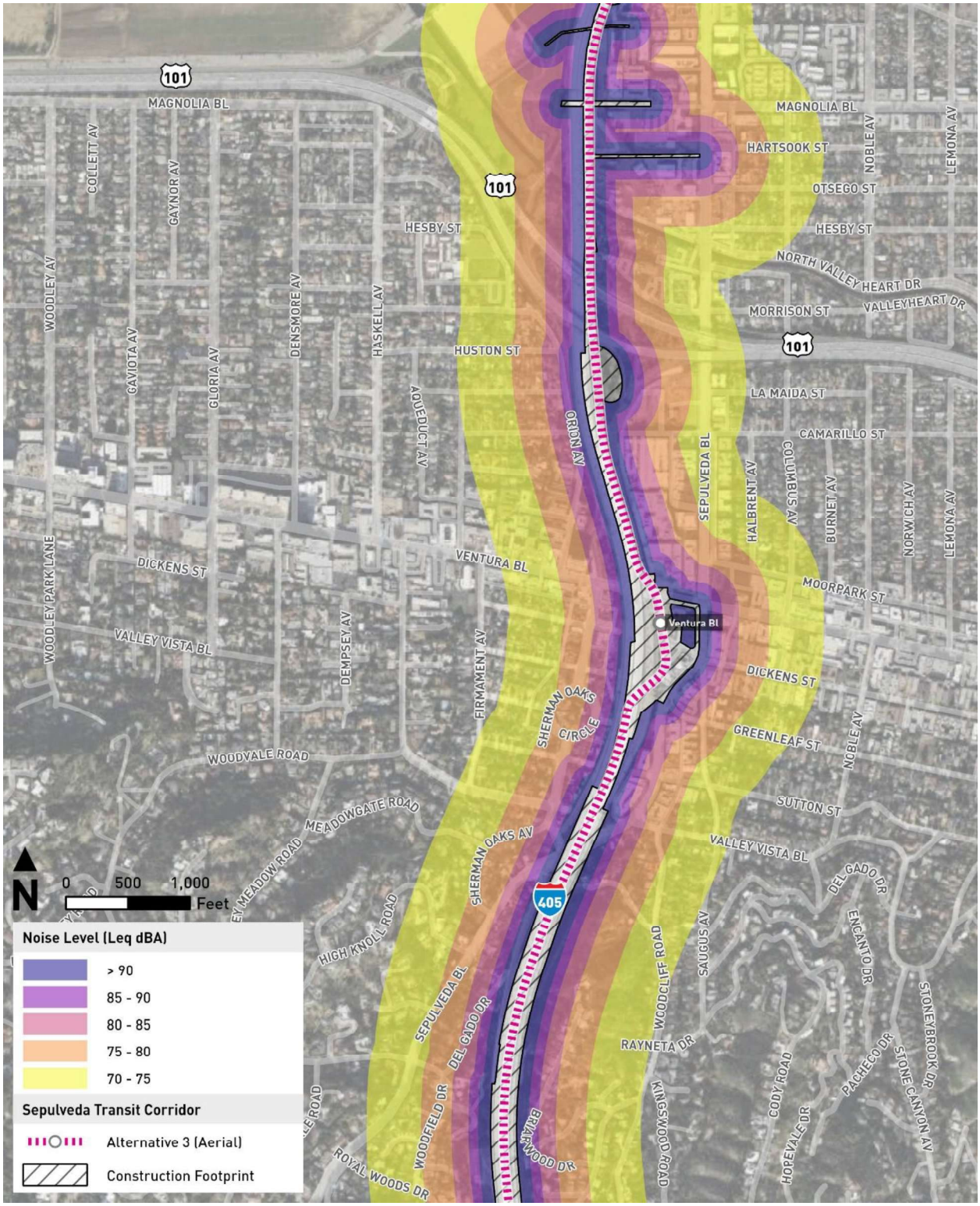
Source: HTA, 2024

Figure G-4. Alternative 3: Construction Equipment Noise Contours – View 4



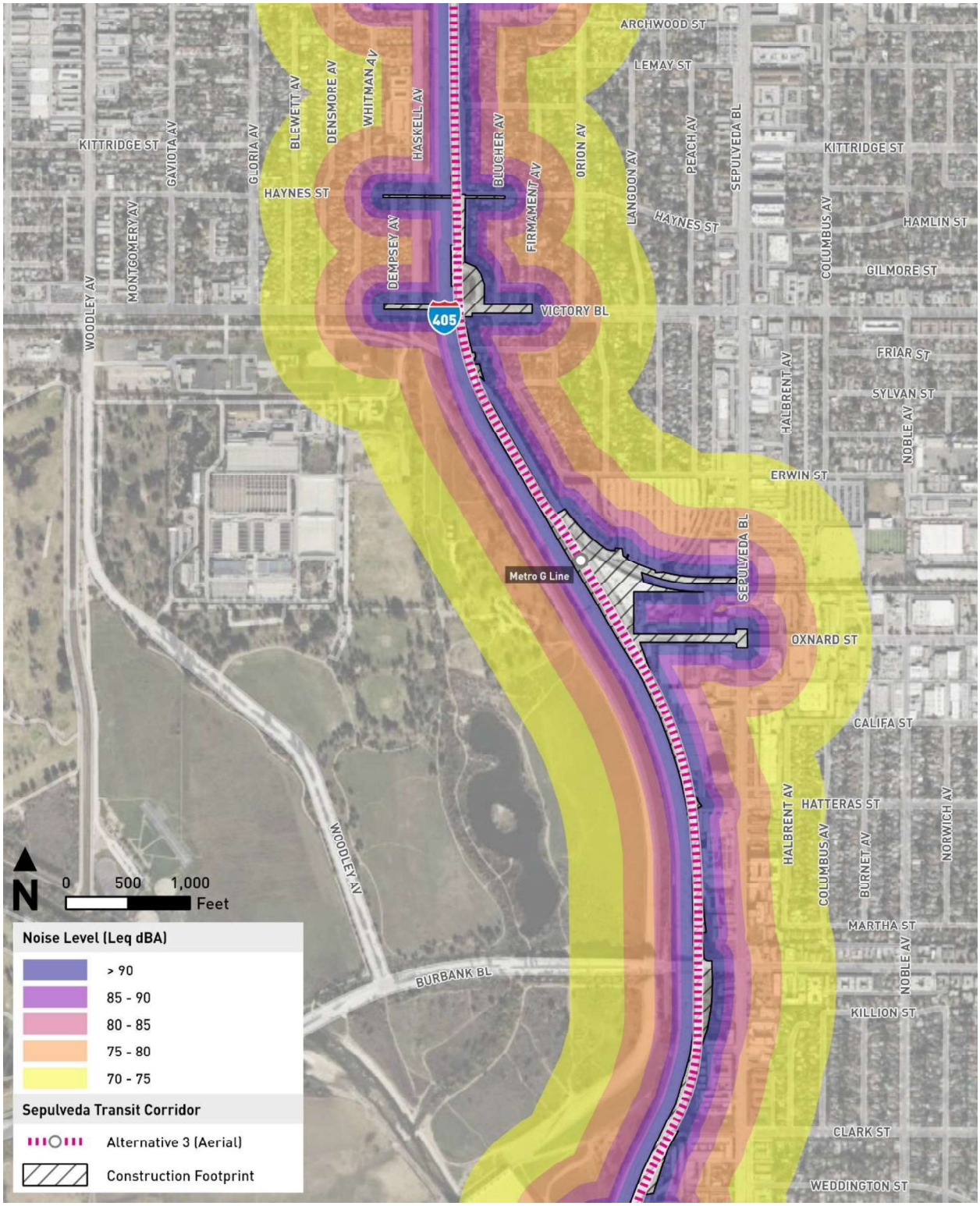
Source: HTA, 2024

Figure G-5. Alternative 3: Construction Equipment Noise Contours – View 5



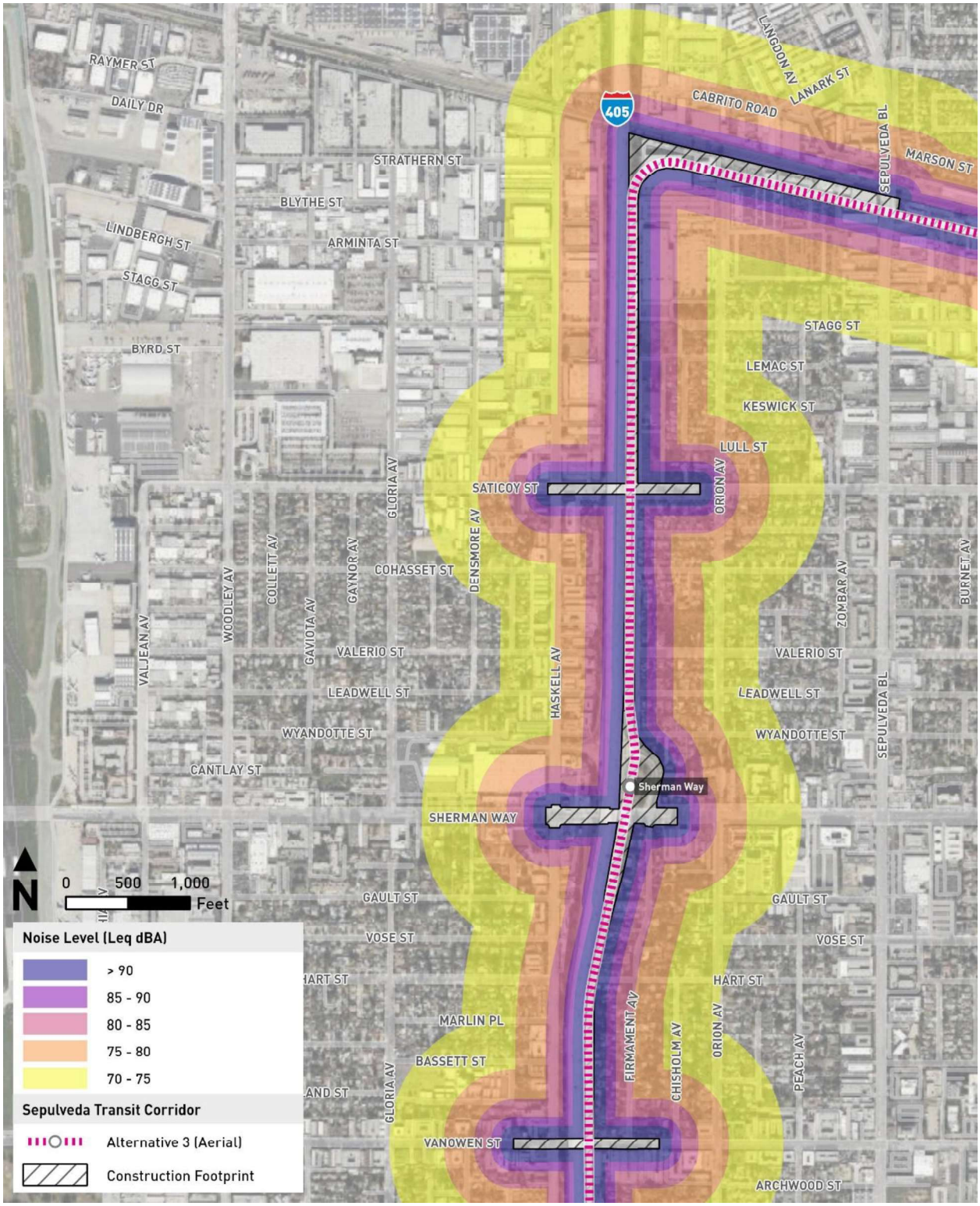
Source: HTA, 2024

Figure G-6. Alternative 3: Construction Equipment Noise Contours – View 6



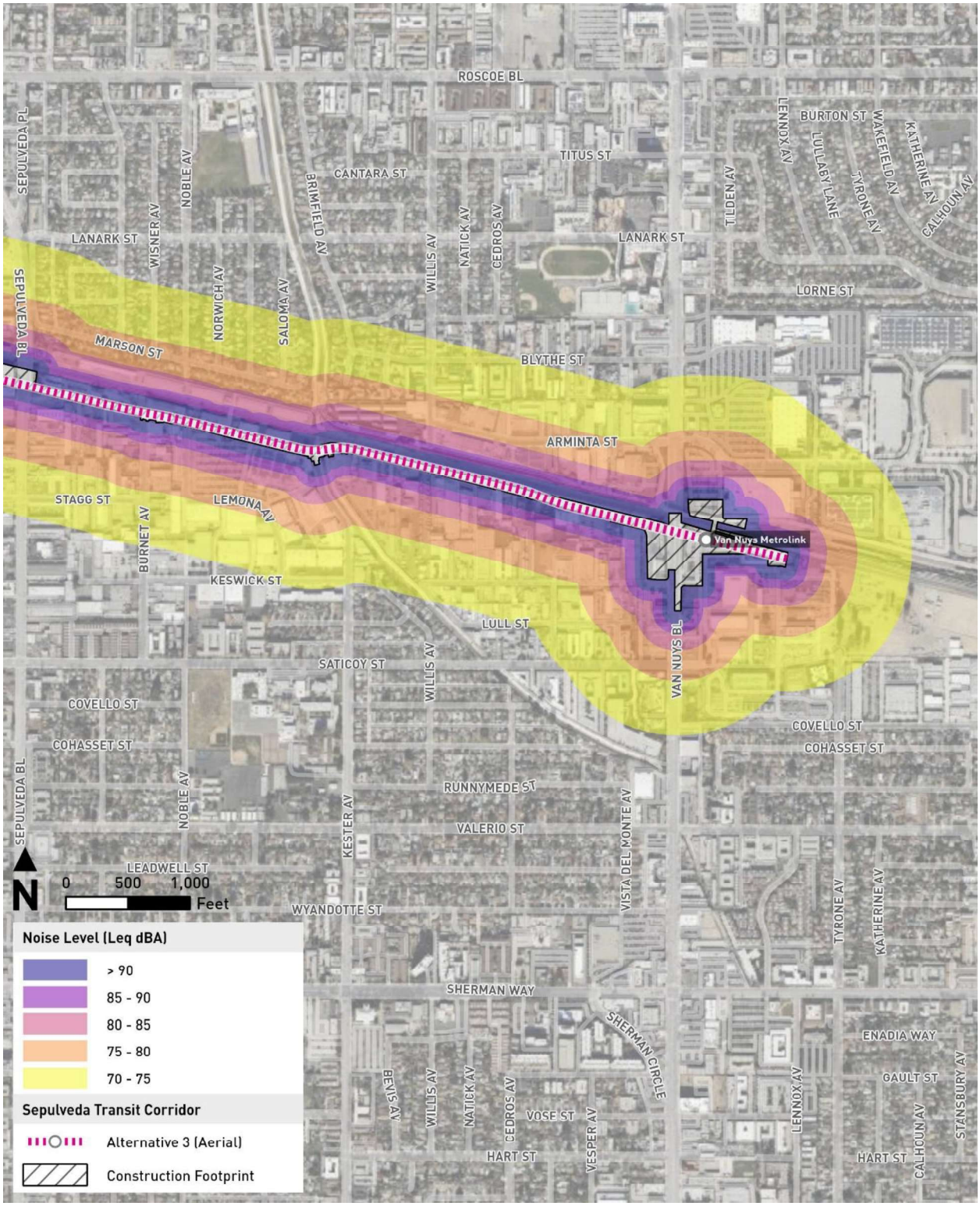
Source: HTA, 2024

Figure G-7. Alternative 3: Construction Equipment Noise Contours – View 7



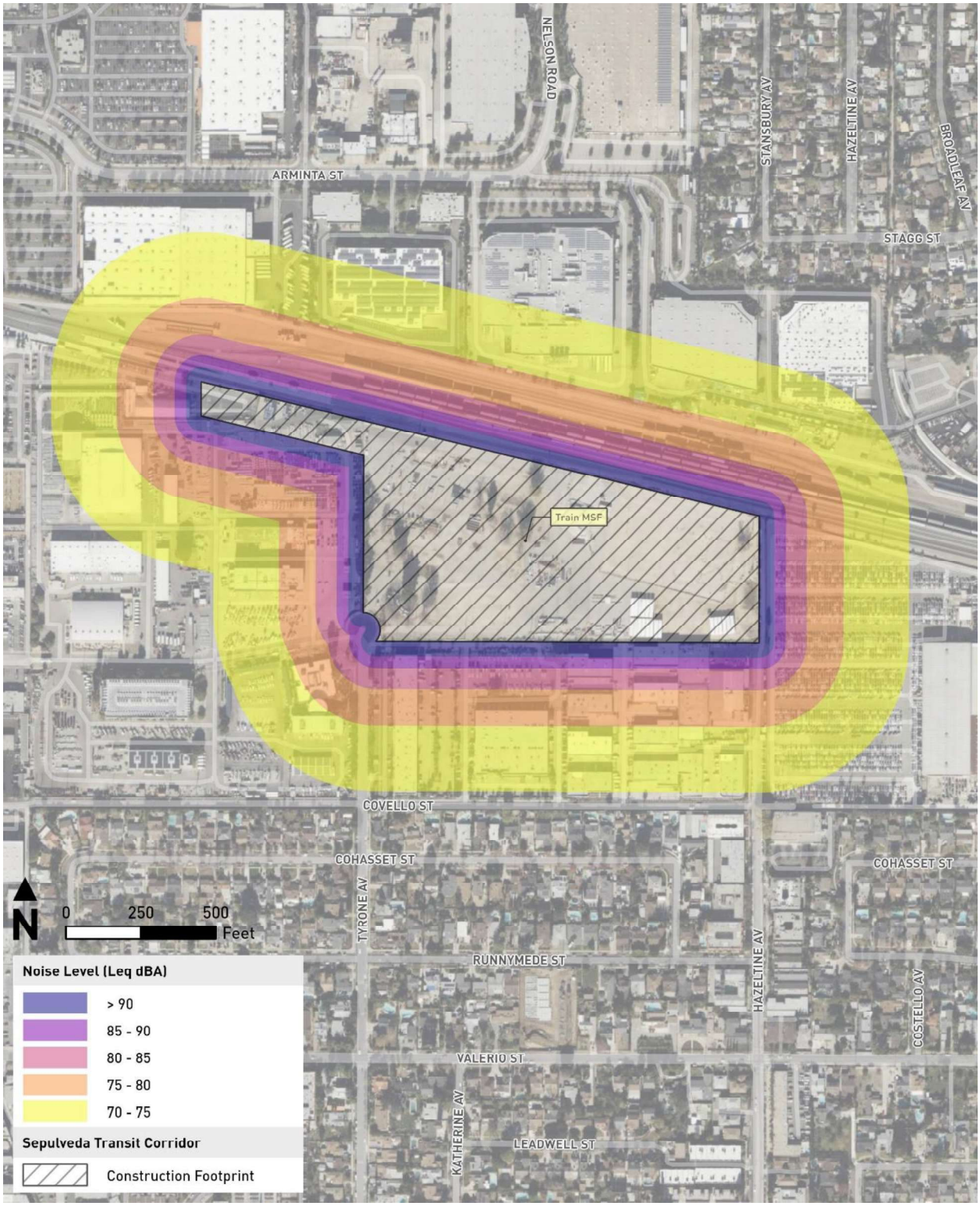
Source: HTA, 2024

Figure G-8. Alternative 3: Construction Equipment Noise Contours – View 8



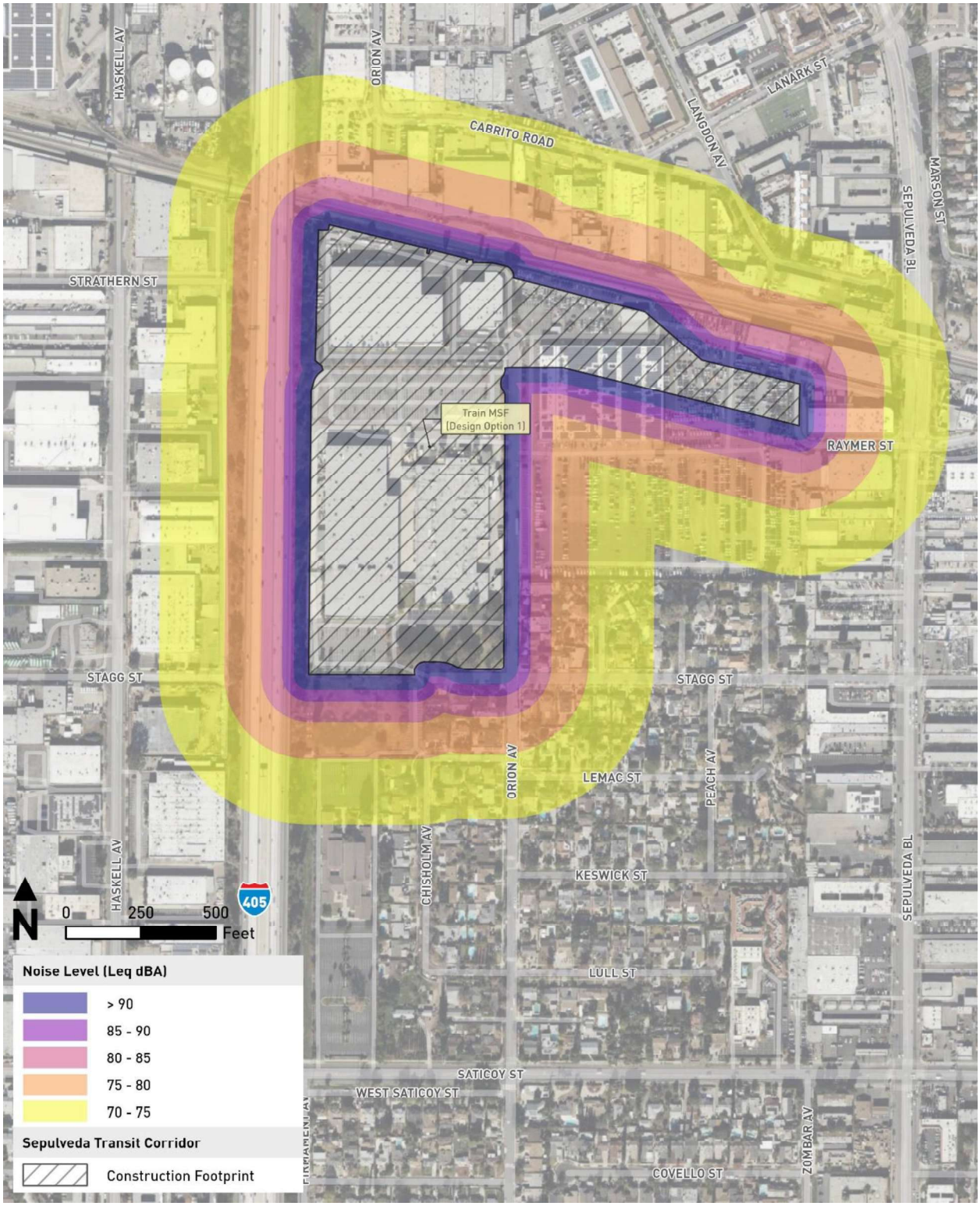
Source: HTA, 2024

Figure G-9. Alternative 3: Construction Equipment Noise Contours – Proposed MSF Base Design



Source: HTA, 2024

Figure G-10. Alternative 3: Construction Equipment Noise Contours – Proposed MSF Design Option 1



Source: HTA, 2024

Attachment 8. Alternative 3: Groundborne Vibration and Noise Assessment

Sepulveda Transit Corridor
Alternative 3
Groundborne Vibration and Noise Assessment

Location ID	Direction (NB/SB) (RT/LT)	Station	Address	Land Use Type	Category	Distance (ft)	Unadjusted Vibration Level (VdB)	Vehicle Speed (mph)	Vibration Level (VdB) Adjusted for Speed	GBV Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?
V-3-1	NB	502+28	2435 S Sepulveda Blvd, Los Angeles, CA 90064	MFR	2	259.0	32	10	22	72	No	2	35	No
	SB	502+28				298.8	31	10	22		No	2		No
V-3-2	NB	532+69	KT Rehearsal Studios, 1956 Cotner Ave, Los Angeles	Music Studio	1	75.0	37	52	42	65	No	22	25	No
	SB	532+67				89.0	37	55	42		No	22		No
V-3-3	NB	557+54	Holiday Inn Express - West LA, 11250 Santa Monica Blvd, Los Angeles, CA 90025	MFR	2	302.0	31	19	27	72	No	7	35	No
	SB	557+27				288.0	31	25	30		No	10		No
V-3-4	NB	561+22	1521-1539 Beloit Ave, Los Angeles, CA 90025	MFR	2	47.7	39	28	39	72	No	19	35	No
	SB	561+05				33.7	41	31	41		No	21		No
V-3-5	NB	569+16	Greater LA Fisher House	MFR	2	47.7	39	39	42	72	No	22	35	No
	SB	569+05				33.7	41	46	44		No	24		No
V-3-6	NB	3016+23	Bessie Pergerson Child Development Center	Child Care	3	27.8	42	22	39	75	No	19	40	No
	SB	3009+36				6.3	48	29	48		No	28		No
Begin Underground Segment														
V-3-7	RT	3030+45	10989 Rochester Ave, Los Angeles, CA 90024	MFR	2	103.3	46	19	42	72	No	7	35	No
	LT	3023+36				123.0	45	30	45		No	10		No
V-3-8	RT	3031+46	10996 Wellworth Ave, Los Angeles, CA 90024	MFR	2	67.5	48	19	44	72	No	9	35	No
	LT	3024+27				82.8	47	29	46		No	11		No
V-3-9	RT	3033+76	1260 Veteran Ave, Los Angeles, CA 90024	MFR	2	79.1	47	19	43	72	No	8	35	No
	LT	3026+56				91.2	46	24	45		No	10		No
V-3-10	RT	3036+63	1220 Veteran Ave, Los Angeles, CA 90024	MFR	2	99.7	46	19	42	72	No	7	35	No
	LT	3029+43				109.3	46	19	42		No	7		No
V-3-11	RT	3048+09	1090 Veteran Ave, Los Angeles, CA 90024	Fire Station	2	116.9	45	33	46	72	No	11	35	No
	LT	3041+00				116.9	45	38	47		No	12		No
V-3-12	RT	3049+23	UCLA Williams Institute	Institutional	3	122.6	45	34	46	72	No	11	35	No
	LT	3042+17	1060 Veteran Ave Suite 134, Los Angeles, CA 90024			128.3	45	38	47		No	12		No
V-3-13	RT	3052+00	Science and Technology Research Building	Laboratory	1	127.8	45	34	46	65	No	11	25	No
	LT	3045+03	1040 Veteran Ave, Los Angeles, CA 90024			127.8	45	38	47		No	12		No
V-3-14	RT	3053+83	11000 Weyburn Ave, Los Angeles, CA 90024	MFR	2	123.1	45	34	46	72	No	11	35	No
	LT	3046+91				122.9	45	38	47		No	12		No
V-3-15	RT	3055+00	Gayley Terrace	MFR	2	198.4	43	34	44	72	No	9	35	No
	LT	3048+12	959 Gayley Ave, Los Angeles, CA 90024			181.7	43	38	45		No	10		No
V-3-16	LT	3061+79	Wendy and Leonard Goldberg Medical Building	Medical Bldg	1	151.2	44	42	47	65	No	12	25	No
	RT	3068+86	300 Medical Plaza Way, Los Angeles, CA 90095, 92617			167.1	44	34	45		No	10		No
V-3-17	LT	3065+07	100 Medical Plaza Driveway, Los Angeles, CA 90024	Medical Bldg	1	118.1	45	44	49	65	No	14	25	No
	RT	3072+14				130.1	45	37	47		No	12		No
V-3-18	RT	3072+89	Wasserman Building	Medical/Hospital	1	124.7	45	38	47	65	No	12	25	No
	LT	3065+82	300 Stein Plaza Driveway, Los Angeles, CA 90024			137.8	45	44	48		No	13		No
V-3-19	RT	3075+01	UCLA Semel Institute for Neuroscience and Human Behavior	Institutional	1	145.0	44	42	47	65	No	12	25	No
	LT	3067+96	760 Westwood Plaza, Los Angeles, CA 90024			160.8	44	43	47		No	12		No
V-3-20	RT	3076+52	Reed Neurological Research Center	Institutional/ Research	1	124.2	45	43	48	65	No	13	25	No
	LT	3069+48	710 Westwood Plaza, Los Angeles, CA 90095			137.1	45	39	47		No	12		No
V-3-21	LT	3069+89	UCLA Ronald Reagan Medical Building,	Medical Bldg	2	112.5	46	38	47	72	No	12	35	No
	RT	3076+93	757 Westwood Plaza, Los Angeles, CA 90095			122.5	45	43	48		No	13		No
V-3-22	RT	3078+06	UCLA Simulation Center	Medical	1	121.0	45	43	48	65	No	13	25	No
	LT	3071+02	700 Westwood Plaza, Los Angeles, CA 90024			134.2	45	33	46		No	11		No
V-3-23	RT	3079+40	Gonda Center	Institutional/ Research	1	116.8	45	39	48	65	No	13	25	No
	LT	3072+36	695 Charles E Young Dr S, Los Angeles, CA 90095			128.0	45	25	43		No	8		No
V-3-24	RT	3084+64	Nano and Pico Characterization Lab - CNSI	Institutional/ Research	1	455.9	39	16	34	65	No	0	25	No
	LT	3077+62	570 Westwood Plaza, Los Angeles, CA 90095			476.7	39	16	34		No	0		No
V-3-25	RT	3085+29	Henry Samueli School of Engineering	Institutional/ Research	1	134.0	45	16	39	65	No	4	25	No
	LT	3078+23	7400 Boelter Hall, Los Angeles, CA 90095			148.6	44	15	38		No	3		No
V-3-26	RT	3086+88	UCLA Engineering VI	Institutional/ Research	1	112.7	46	16	40	65	No	5	25	No
	LT	3079+81	404 Westwood Plaza, Los Angeles, CA 90095			121.7	45	15	39		No	4		No
V-3-27	LT	3083+30	James West Alumni Center	Institutional	3	121.5	45	31	46	75	No	11	40	No
	RT	3090+36	325 Westwood Plaza, Los Angeles, CA 90095			133.2	45	19	41		No	6		No

Sepulveda Transit Corridor
Alternative 3
Groundborne Vibration and Noise Assessment

Location ID	Direction (NB/SB) (RT/LT)	Station	Address	Land Use Type	Category	Distance (ft)	Unadjusted Vibration Level (VdB)	Vehicle Speed (mph)	Vibration Level (VdB) Adjusted for Speed	GBV Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?
V-3-28	RT	3092+40	UCLA Ackerman Union	Institutional	3	109.6	46	28	45	75	No	10	40	No
	LT	3085+36	308 Westwood Plaza, Los Angeles, CA 90024			112.6	46	31	46		No	11		No
V-3-29	RT	3096+19	Student Activities Center	Institutional	3	122.2	45	31	46	75	No	11	40	No
	LT	3089+12	220 Westwood Plaza, Los Angeles, CA 90095			131.6	45	34	46		No	11		No
V-3-30	RT	3099+14	Department of World Arts & Cultures/Dance	Institutional	3	128.4	45	32	46	75	No	11	40	No
	LT	3092+04	120 Westwood Plaza, Los Angeles, CA 90077			139.4	45	38	47		No	12		No
V-3-31	RT	3105+87	Marymount High School	Institutional	3	130.0	45	38	47	75	No	12	40	No
	LT	3098+64	10643 Sunset Blvd, Los Angeles, CA 90077			132.7	45	38	47		No	12		No
V-3-32	RT	3126+55	10802 Ambazac Way, Los Angeles, CA 90077	SFR	2	194.7	43	44	46	72	No	11	35	No
	LT	3119+29				194.7	43	44	46		No	11		No
V-3-33	RT	3128+92	10801 Ambazac Way, Los Angeles, CA 90077	SFR	2	208.4	43	44	46	72	No	11	35	No
	LT	3121+66				211.4	43	44	46		No	11		No
V-3-34	LT	3121+89	10811 Ambazac Way, Los Angeles, CA 90077	SFR	2	227.5	42	44	46	72	No	11	35	No
	RT	3129+15				229.2	42	44	46		No	11		No
V-3-35	RT	3133+36	10790 Bellagio Rd, Los Angeles, CA 90077	SFR	2	252.7	42	44	45	72	No	10	35	No
	LT	3126+10				259.5	42	44	45		No	10		No
V-3-36	LT	3128+00	600 Sarbonne Rd, Los Angeles, CA 90077	SFR	2	264.5	42	44	45	72	No	10	35	No
	RT	3135+25				264.5	42	44	45		No	10		No
V-3-37	LT	3130+00	619 Sarbonne Rd, Los Angeles, CA 90077	SFR	2	264.9	42	44	45	72	No	10	35	No
	RT	3137+25				264.9	42	44	45		No	10		No
V-3-38	RT	3140+06	655 Sarbonne Rd, Los Angeles, CA 90077	SFR	2	268.3	42	44	45	72	No	10	35	No
	LT	3132+82				275.6	42	44	45		No	10		No
V-3-39	LT	3158+31	10972 Chalon Rd, Los Angeles, CA 90077	SFR	2	212.0	43	31	43	72	No	8	35	No
	RT	3165+62				214.2	43	31	43		No	8		No
V-3-40	LT	3159+27	10966 Chalon Rd, Los Angeles, CA 90077	SFR	2	229.7	42	33	43	72	No	8	35	No
	RT	3166+59				229.7	42	31	43		No	8		No
V-3-41	RT	3166+57	10960 Chalon Rd, Los Angeles, CA 90077	SFR	2	221.0	43	31	43	72	No	8	35	No
	LT	3159+24				228.3	42	33	43		No	8		No
V-3-42	LT	3162+95	11315 Chalon Rd, Los Angeles, CA 90049	SFR	2	418.6	40	42	43	72	No	8	35	No
	RT	3170+27				421.7	40	34	41		No	6		No
V-3-43	RT	3171+09	11323 Chalon Rd, Los Angeles, CA 90049	SFR	2	418.4	40	35	41	72	No	6	35	No
	LT	3163+77				418.4	40	44	43		No	8		No
V-3-44	RT	3171+59	11331 Chalon Rd, Los Angeles, CA 90049	SFR	2	418.4	40	36	41	72	No	6	35	No
	LT	3164+27				418.4	40	45	43		No	8		No
V-3-45	LT	3164+00	11322 Chalon Rd, Los Angeles, CA 90049	SFR	2	421.1	40	45	43	72	No	8	35	No
	RT	3171+32				425.3	40	35	41		No	6		No
V-3-46	LT	3164+86	11328 Chalon Rd, Los Angeles, CA 90049	SFR	2	416.4	40	47	44	72	No	9	35	No
	RT	3172+18				418.1	40	37	42		No	7		No
V-3-47	RT	3172+46	11337 Chalon Rd, Los Angeles, CA 90049	SFR	2	420.5	40	37	42	72	No	7	35	No
	LT	3165+13				422.3	40	47	44		No	9		No
V-3-48	RT	3173+09	11334 Chalon Rd, Los Angeles, CA 90049	SFR	2	418.0	40	38	42	72	No	7	35	No
	LT	3165+76				418.0	40	48	44		No	9		No
V-3-49	RT	3173+26	11343 Chalon Rd, Los Angeles, CA 90049	SFR	2	429.3	40	38	42	72	No	7	35	No
	LT	3165+93				434.2	40	49	44		No	9		No
V-3-50	RT	3173+74	11340 Chalon Rd, Los Angeles, CA 90049	SFR	2	417.1	40	39	42	72	No	7	35	No
	LT	3166+42				417.3	40	50	44		No	9		No
V-3-51	RT	3174+33	11346 Chalon Rd, Los Angeles, CA 90049	SFR	2	419.6	40	39	42	72	No	7	35	No
	LT	3167+00				422.1	40	51	44		No	9		No
V-3-52	RT	3179+00	The John Thomas Dye School	Institutional/ School	3	387.8	40	44	43	75	No	8	40	No
	LT	3171+68	11414 Chalon Rd, Los Angeles, CA 90049			387.8	40	53	45		No	10		No
V-3-53	LT	3173+00	985 Linda Flora Dr, Los Angeles, CA 90049	SFR	2	419.0	40	51	44	72	No	9	35	No
	RT	3180+32				419.0	40	44	43		No	8		No
V-3-54	LT	3172+94	981 Linda Flora Dr, Los Angeles, CA 90049	SFR	2	422.6	40	51	44	72	No	9	35	No
	RT	3180+27				425.9	40	44	43		No	8		No
V-3-55	RT	3180+99	991 Linda Flora Dr, Los Angeles, CA 90049	SFR	2	420.6	40	44	43	72	No	8	35	No
	LT	3173+67				423.5	40	49	44		No	9		No

Sepulveda Transit Corridor
Alternative 3
Groundborne Vibration and Noise Assessment

Location ID	Direction (NB/SB) (RT/LT)	Station	Address	Land Use Type	Category	Distance (ft)	Unadjusted Vibration Level (VdB)	Vehicle Speed (mph)	Vibration Level (VdB) Adjusted for Speed	GBV Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?
V-3-56	RT	3184+00	1001 Linda Flora Dr, Los Angeles, CA 90049	SFR	2	427.8	40	44	43	72	No	8	35	No
	LT	3176+68				431.1	40	41	42		No	7		No
V-3-57	RT	3188+38	Moraga Estates, 1345 Vista Moraga, Los Angeles, CA 90049	SFR	2	279.1	42	43	45	72	No	10	35	No
	LT	3181+07				285.7	41	41	44		No	9		No
V-3-58	LT	3182+84	Moraga Estates, 1315 Vista Moraga, Los Angeles, CA 90049	SFR	2	180.2	43	41	46	72	No	11	35	No
	RT	3190+10				191.5	43	42	46		No	11		No
V-3-59	LT	3185+36	Moraga Estates, 1397 Vista Moraga, Los Angeles, CA 90049	SFR	2	277.2	42	41	44	72	No	9	35	No
	RT	3192+55				277.9	42	42	44		No	9		No
V-3-60	RT	3194+46	Moraga Estates, 1399 Vista Moraga, Los Angeles, CA 90049	SFR	2	305.9	41	41	44	72	No	9	35	No
	LT	3187+30				314.1	41	43	44		No	9		No
V-3-61	RT	3200+44	Moraga Estates, 1345 Moraga Dr, Los Angeles, CA 90049	SFR	2	80.3	47	40	50	72	No	15	35	No
	LT	3193+14				97.7	46	44	49		No	14		No
V-3-62	RT	3201+12	Moraga Estates, 1323 Moraga Dr, Los Angeles, CA 90049	SFR	2	59.2	48	40	51	72	No	16	35	No
	LT	3193+80				76.6	47	44	50		No	15		No
End Underground Segment														
V-3-63	NB	869+86	Skirball Cultural Center, Ziegler Amphitheater	Amphitheater	3	301.0	31	48	35	75	No	15	40	No
	SB	869+93				287.0	31	52	36		No	16		No
V-3-64	NB	877+92	Milken Community School - First Floor	School	3	215.0	33	53	38	75	No	18	40	No
	SB	878+02				201.0	33	56	38		No	18		No
V-3-65	NB	917+02	3550 Royal Woods Dr, Sherman Oaks, CA 91403	SFR	2	305.7	31	56	37	72	No	17	35	No
	SB	917+04				291.7	31	41	34		No	14		No
V-3-66	NB	921+19	3553 Scadlock Ln, Sherman Oaks, CA 91403	SFR	2	366.0	30	56	36	72	No	16	35	No
	SB	921+21				380.0	30	41	33		No	13		No
V-3-67	NB	924+49	15508 Royal Ridge Rd, Sherman Oaks, CA 91403	SFR	2	325.0	31	56	36	72	No	16	35	No
	SB	924+50				311.0	31	41	34		No	14		No
V-3-68	NB	941+53	15460 Briarwood Dr, Sherman Oaks, CA 91403	SFR	2	171.0	34	56	39	72	No	19	35	No
	SB	941+50				185.0	33	41	36		No	16		No
V-3-69	NB	943+84	15515 Woodcrest Dr, Sherman Oaks, CA 91403	SFR	2	193.0	33	56	39	72	No	19	35	No
	SB	943+82				179.0	34	41	36		No	16		No
V-3-70	NB	949+25	15528 Briarwood Dr, Sherman Oaks, CA 91403	SFR	2	290.0	31	56	37	72	No	17	35	No
	SB	949+24				304.0	31	42	34		No	14		No
V-3-71	NB	965+30	15371 Del Gado Dr, Sherman Oaks, CA 91403	SFR	2	141.0	35	56	40	72	No	20	35	No
	SB	965+33				155.0	34	42	37		No	17		No
V-3-72	NB	972+51	The Highland at Sherman Oaks	MFR	2	128.0	35	45	39	72	No	19	35	No
	SB	972+54	4355 Sepulveda Blvd, Sherman Oaks, CA 91403			142.0	35	34	36		No	16		No
V-3-73	NB	975+26	4401 Sepulveda Blvd, Sherman Oaks, CA 91403	MFR	2	185.0	33	38	35	72	No	15	35	No
	SB	975+28				199.0	33	25	31		No	11		No
V-3-74	NB	973+55	15350 Sutton St, Sherman Oaks, CA 91403	MFR	2	155.0	34	43	37	72	No	17	35	No
	SB	973+58				141.0	35	32	35		No	15		No
V-3-75	NB	980+00	4466 Sherman Oaks Cir, Sherman Oaks, CA 91403	SFR	2	203.0	33	19	29	72	No	9	35	No
	SB	980+04				189.0	33	16	28		No	8		No
V-3-76	NB	1017+92	Ivy Bound Academy	School	3	113.0	36	50	40	75	No	20	40	No
	SB	1017+69				127.0	35	51	40		No	20		No
V-3-77	NB	1031+61	Emek Hebrew Academy	School	3	151.0	34	56	40	75	No	20	40	No
	SB	1031+39	15365 Magnolia Blvd, Sherman Oaks, CA 91403			165.0	34	56	39		No	19		No
V-3-78	NB	1036+77	Weddington Apartements	MFR	2	106.0	36	56	41	72	No	21	35	No
	SB	1036+57	15370 Weddington St, Sherman Oaks, CA 91411			120.0	35	56	41		No	21		No
V-3-79	NB	1039+20	15353 Weddington St, Sherman Oaks, CA 91411	MFR	2	92.0	36	56	42	72	No	22	35	No
	SB	1039+03				106.0	36	56	41		No	21		No
V-3-80	NB	1044+77	La Fontana	MFR	2	163.0	34	56	39	72	No	19	35	No
	SB	1044+61	5345 Sepulveda Blvd suit 209, Sherman Oaks, CA 91411			177.0	34	56	39		No	19		No
V-3-81	NB	1046+17	5401 Sepulveda Blvd, Sherman Oaks, CA 91411	MFR	2	76.0	37	56	43	72	No	23	35	No
	SB	1046+00				90.0	36	56	42		No	22		No
V-3-82	NB	1049+83	Alber's Apartments	MFR	2	15.8	44	56	50	72	No	30	35	No
	SB	1049+63	15328 Albers St, Sherman Oaks, CA 91411			29.8	41	56	47		No	27		No
V-3-83	NB	1055+44	Best Western Plus Carriage Inn-North	Hotel	2	59.0	38	56	44	72	No	24	35	No
	SB	1055+21	5525 Sepulveda Blvd, Sherman Oaks, CA 91411			73.0	37	55	43		No	23		No

Sepulveda Transit Corridor
Alternative 3
Groundborne Vibration and Noise Assessment

Location ID	Direction (NB/SB) (RT/LT)	Station	Address	Land Use Type	Category	Distance (ft)	Unadjusted Vibration Level (VdB)	Vehicle Speed (mph)	Vibration Level (VdB) Adjusted for Speed	GBV Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?
V-3-84	NB	1102+15	6217 Blucher Ave, Van Nuys, CA 91411	SFR	2	146.1	34	32	42	72	No	22	35	No
	SB	1101+83				160.1	34	42	37		No	17		No
V-3-85	NB	1107+88	6301 Blucher Ave, Van Nuys, CA 91411	SFR	2	137.3	35	44	38	72	No	18	35	No
	SB	1107+56				151.3	34	56	40		No	20		No
V-3-86	NB	1113+08	15541 Friar St, Van Nuys, CA 91411	SFR	2	73.5	37	49	42	72	No	22	35	No
	SB	1112+80				87.5	37	56	42		No	22		No
V-3-87	NB	1121+98	6456 Aqueduct Ave, Van Nuys, CA 91406	SFR	2	105.5	36	55	41	72	No	21	35	No
	SB	1121+73				119.5	35	50	40		No	20		No
V-3-88	NB	1128+15	6546 Aqueduct Ave, Van Nuys, CA 91406	SFR	2	97.7	36	50	41	72	No	21	35	No
	SB	1127+90				111.7	36	50	40		No	20		No
V-3-89	NB	1135+02	6654 Aqueduct Ave, Van Nuys, CA 91406	SFR	2	72.1	37	50	42	72	No	22	35	No
	SB	1134+77				86.1	37	56	42		No	22		No
V-3-90	NB	1140+53	Granada Aptartments	MFR	2	26.6	42	54	47	72	No	27	35	No
	SB	1140+28	15630 Vanowen St, Van Nuys, CA 91406			40.6	40	56	45		No	25		No
V-3-91	NB	1140+53	Vanowen Apartments	MFR	2	172.7	34	54	39	72	No	19	35	No
	SB	1140+28	15616 Vanowen St, Van Nuys, CA 91406			186.7	33	56	39		No	19		No
V-3-92	NB	1146+99	6841 Firmament Ave, Van Nuys, CA 91406	SFR	2	186.0	33	54	38	72	No	18	35	No
	SB	1146+74				200.0	33	56	38		No	18		No
V-3-93	NB	1160+57	15610 Lilli Wy, Van Nuys, CA 91406	MFR	2	52.6	39	52	44	72	No	24	35	No
	SB	1160+35				66.6	38	51	42		No	22		No
V-3-94	NB	1166+40	7135 Firmament Ave, Van Nuys, CA 91406	SFR	2	62.1	38	42	41	72	No	21	35	No
	SB	1166+17				96.9	36	31	37		No	17		No
V-3-95	NB	1172+51	Helen Towers	MFR	2	227.7	32	6	19	72	No	0	35	No
	SB	1172+28	15549 Sherman Way, Van Nuys, CA 91406			267.5	32	28	31		No	11		No
V-3-96	NB	1174+81	15556 Wyandotte Ave, Van Nuys, CA 91406	SFR	2	65.6	38	19	34	72	No	14	35	No
	SB	1174+54				81.4	37	31	37		No	17		No
V-3-97	NB	1176+30	15560 Leadwell St, Van Nuys, CA 91406	SFR	2	73.2	37	19	33	72	No	13	35	No
	SB	1175+98				87.2	37	33	38		No	18		No
V-3-98	NB	1184+15	7414 Firmament Ave, Van Nuys, CA 91406	SFR	2	94.2	36	48	40	72	No	20	35	No
	SB	1183+85				108.2	36	56	41		No	21		No
V-3-99	NB	1192+27	15559 Covello St, Van Nuys, CA 91406	SFR	2	58.2	38	55	44	72	No	24	35	No
	SB	1191+97				72.2	37	56	43		No	23		No
V-3-100	NB	1204+10	La Iglesia de Jesucristo de los Santos de los Últimos Días, Van Nuys	Church	3	81.2	37	56	42	72	No	22	40	No
	SB	1203+80				95.2	36	56	42		No	22		No
V-3-101	NB	1243+56	15242 Marson St, Van Nuys, CA 91402	SFR	2	406.7	30	53	35	72	No	15	35	No
	SB	1243+59				386.2	30	51	35		No	15		No
V-3-102	NB	1258+09	15018 Marson St, Panorama City, CA 91406	SFR	2	366.5	30	45	34	72	No	14	35	No
	SB	1258+12				346.0	31	33	32		No	12		No

Attachment 9. Alternative 4: Airborne Noise Impact Assessment

	Near Track Direction	Station	Track Elevation ASL (ft)	Source Height Above Track (ft)	Ground Elevation @ Receiver ASL (ft)	Receiver Height Above Ground	Receiver Distance to NB Track (ft)			Receiver Distance to SB Track (ft)			Train Speeds (mph)		Source-Receiver Path Adjustments: Existing Soundwall Noise Reduction		Source-Receiver Path Adjustments: Building Shielding Adjustment		Source-Receiver Path Adjustments: Crossover Noise Adj		Wheel Squeal Noise Adjustment (dBA)		Calculated Rail L_{dn}, dBA			
							Horiz	Vertical	Total	Horiz	Vertical	Total	NB Track	SB Track	NB	SB	NB	SB	NB	SB	NB	SB	NB Track	SB Track	Total Passbys	Existi L_{dn} (dB
1403	NB	949+22	770.3	2.0	752	5	307.8	15.3	308	320.8	15.3	321	70	56	0	0	0	0	0	0			53	52	56	63
1403	NB	949+95	769.5	2.0	750	5	293.6	16.5	294	306.6	16.5	307	70	55	0	0	0	0	0	0			54	52	56	63
91403	NB	951+24	768.3	2.0	750	5	19.6	15.3	25	32.6	15.3	36	70	54	0	0	0	0	0	0			62	52	62	70
91403	NB	951+65	767.8	2.0	746	5	64.4	18.8	67	77.4	18.8	80	70	53	0	0	0	0	0	0			61	53	61	68
CA 91403	NB	952+54	767.0	2.0	744	5	213.5	20.0	214	226.5	20.0	227	70	52	0	0	0	0	0	0			55	52	57	68
91403	NB	954+68	764.8	2.0	738	35	214.7	-6.2	215	227.7	-6.2	228	66	49	0	0	0	0	0	0			57	58	60	68
03	SB	955+62	763.9	2.0	736	15	335.9	14.9	336	322.9	14.9	323	63	48	-6	-6	0	0	0	0			47	44	49	72
03	NB	957+47	762.0	2.0	734	25	244.7	5.0	245	257.7	5.0	258	58	44	0	0	0	0	0	0			54	53	56	68
91403	NB	959+70	759.8	2.0	734	35	164.6	-7.2	165	177.6	-7.2	178	52	39	0	0	0	0	5	5			62	63	65	70
403	NB	960+65	758.8	2.0	730	35	278.2	-4.2	278	291.2	-4.2	291	50	37	0	0	-5	-5	0	0			47	48	50	63
91403	NB	962+48	757.0	2.0	728	45	61.0	-14.0	63	74.0	-14.0	75	44	31	0	0	0	0	5	5			72	63	72	76
403	NB	962+63	756.9	2.0	728	15	240.0	15.9	241	253.0	15.9	253	44	30	0	0	-5	-5	5	5			51	47	52	63
91403	NB	975+95	744.5	2.0	703	25	103.1	18.5	105	116.1	18.5	118	25	25	0	0	0	0	0	0			50	46	51	66
1403	NB	975+84	744.5	2.0	702	5	236.2	39.5	239	249.2	39.5	252	25	25	0	0	-5	-5	0	0			40	37	41	61
91403	NB	980+43	744.0	2.0	700	35	103.5	11.0	104	116.5	11.0	117	36	45	0	0	0	0	0	0			54	54	57	66
1403	NB	980+43	744.0	2.0	697	5	230.0	44.0	234	243.0	44.0	247	36	45	0	0	-5	-5	0	0			43	41	45	61
91403	NB	982+43	743.7	2.0	696	35	103.1	14.7	104	116.1	14.7	117	42	51	0	0	0	0	0	0			55	54	57	66
91403	NB	984+43	743.3	2.0	693	35	106.0	17.3	107.4	119.0	17.3	120.2	46	56	0	0	0	0	0	0			55	54	58	66
1403	NB	984+93	743.2	2.0	690	5	230.9	50.2	236.3	243.9	50.2	249.0	47	58	0	0	-5	-5	0	0			45	43	47	61
91403	SB	982+44	743.7	2.0	696	40	67.2	9.7	67.9	54.2	9.7	55.1	42	51	0	0	0	0	0	0			54	60	61	66
91403	SB	984+94	743.2	2.0	694	15	88.6	36.2	95.7	75.6	36.2	83.8	47	58	0	0	0	0	0	0			50	56	57	66
91403	NB	986+13	743.0	2.0	692	15	69.9	38.0	79.5	82.9	38.0	91.2	50	61	0	0	0	0	0	0			55	52	57	66
91403	NB	986+98	742.9	2.0	691	15	66.8	38.9	77.3	79.8	38.9	88.8	51	63	0	0	0	0	0	0			55	53	57	66
1403	NB	986+98	742.9	2.0	689	5	186.5	50.9	193.4	199.5	50.9	205.9	51	63	0	0	-5	-5	0	0			46	43	48	61
1403	NB	986+98	742.9	2.0	687	5	323.3	52.9	327.6	336.3	52.9	340.4	51	63	0	0	-7	-7	0	0			42	42	45	61
91403	NB	990+00	745.5	2.0	688	28	53.9	31.5	62.4	66.9	31.5	74.0	56	70	0	0	0	0	0	0			57	55	59	66
1403	NB	990+00	745.5	2.0	686	5	183.9	56.5	192.4	196.9	56.5	204.9	56	70	0	0	-5	-5	0	0			47	44	48	64
1403	NB	990+00	745.5	2.0	684	5	319.1	58.5	324.4	332.1	58.5	337.2	56	70	0	0	-7	-7	0	0			43	42	45	64
91403	NB	997+00	731.7	2.0	680	35	56.1	18.7	59.1	69.1	18.7	71.6	64	70	0	0	0	0	0	0			60	55	61	67
1403	NB	997+00	731.7	2.0	680	5	190.6	48.7	196.7	203.6	48.7	209.3	64	70	0	0	-5	-5	0	0			48	45	50	61
1403	NB	997+00	731.7	2.0	679	5	319.9	49.7	323.7	332.9	49.7	336.5	64	70	0	0	-10	-10	0	0			42	40	44	59
91403	NB	1001+50	720.0	2.0	678	15	58.7	29.0	65.5	71.7	29.0	77.4	70	70	0	0	0	0	0	0			60	54	61	67
	NB	1001+25	720.6	2.0	677	5	136.3	40.6	142.2	149.3	40.6	154.7	70	70	0	0	-3	-3	0	0			53	48	54	66
s	NB	1000+75	721.9	2.0	676	5	229.9	42.9	233.9	242.9	42.9	246.7	69	70	0	0	-5	-5	0	0			48	45	50	64
	NB	1001+00	721.3	2.0	676	5	326.4	42.3	329.1	339.4	42.3	342.0	70	70	0	0	-5	-5	0	0			47	45	49	61
1403	NB	1010+25	704.6	2.0	676	5	228.4	25.6	229.8	241.4	25.6	242.8	70	70	0	0	-5	-5	0	0			49	48	52	61
1403	NB	1010+25	704.6	2.0	676	5	328.4	25.6	329.4	341.4	25.6	342.4	70	70	0	0	-5	-5	0	0			48	47	50	61
, 91403	NB	1013+50	708.2	2.0	678	20	318.6	12.2	318.9	331.6	12.2	331.8	70	70	0	0	-5	-5	0	0			48	50	52	61
, 91403	NB	1013+50	708.2	2.0	680	22	67.4	8.2	67.9	80.4	8.2	80.8	70	70	0	0	0	0	0	0			62	60	64	70
, 91403	NB	1016+75	709.9	2.0	680	25	57.6	6.9	58.0	70.6	6.9	70.9	70	70	0	0	0	0	0	0			61	60	64	70
, 91403	SB	1012+50	707.5	2.0	679	35	249.6	-4.5	249.6	236.6	-4.5	236.6	70	70	0	0	-5	-5	0	0			54	51	56	61
91411	SB	1018+00	710.6	2.0	680	20	78.7	12.6	79.7	65.7	12.6	66.9	70	70	0	0	0	0	0	0			57	59	61	68
A 91411	SB	1019+25	711.3	2.0	682	20	259.9	11.3	260.1	246.9	11.3	247.2	70	70	0	0	-5	-5	0	0			51	50	53	61
91411	SB	1020+00	711.7	2.0	680	35	76.5	-1.3	76.6	63.5	-1.3	63.6	70	70	0	0	0	0	0	0			67	65	69	70
91411	NB	1020+70	712.1	2.0	680	25	107.0	9.1	107.4	120.0	9.1	120.4	70	70	0	0	0	0	0	0			60	59	62	70
91411	SB	1021+50	712.5	2.0	681	5	100.6	28.5	104.6	87.6	28.5	92.1	70	70	0	0	0	0	0	0			53	58	59	68
91411	NB	1025+80	714.8	2.0	684	30	73.7	2.8	73.8	86.7	2.8	86.8	70	70	0	0	0	0	0	0			62	63	65	72
91411	NB	1029+50	716.8	2.0	686	15	71.2	17.8	73.4	84.2	17.8	86.1	70	70	0	0	0	0	0	0			60	55	62	71
1411	NB	1029+50	716.8	2.0	686	5	271.8	27.8	273.2	284.8	27.8	286.1	70	70	0	0	-5	-5	0	0			48	47	51	63
Sherman Oaks, CA 91411	NB	1030+50	717.4	2.0	686	15	109.9	18.4	111.5	122.9	18.4	124.3	70	70	0	0	0	0	0	0			58	55	60	70
91411	SB	1030+50	717.4	2.0	686	15	75.2	18.4	77.4	62.2	18.4	64.9	70	70	0	0	0	0	0	0			55	61	62	68
11	SB	1030+50	717.4	2.0	686	15	292.3	18.4	292.8	279.3	18.4	279.9	70	70	0	0	-5	-5	0	0			49	49	52	67
1411	NB	1032+00	718.2	2.0	688	5	264.7	27.2	266.1	277.7	27.2	279.0	70	70	0	0	-5	-5	0	0			49	48	51	61
91411	SB	1033+00	718.7	2.0	688	25	60.1	7.7	60.6	47.1	7.7	47.7	70	70	0	0	0	0	0	0			60	61	64	70
91411	NB	1033+50	719.0	2.0	688	28	57.7	5.0	57.9	70.7	5.0	70.8	70	70	0	0	0	0	0	0			62	62	65	71
91411	SB	1035+00	719.8	2.0	688	5	60.1	28.8	66.6	47.1	28.8	55.2	70	70	0	0	0	0	0	0			55	60	61	70
11	NB	1043+50	724.4	2.0	694	37	112.5	-4.6	112.6	125.5	-4.6	125.6	70	70	0	0	0	0	0	0			61	65	66	70
11	NB	1046+50	725.3	2.0	696	55	61.3	-23.7	65.8	74.3	-23.7	78.0	70	68	0	0	0	0	0	0			68	69	72	70
	NB	1046+50	725.3	2.0	696	5	410.0	26.3	410.8	423.0	26.3	423.8	70	68	0	0	-5	-5	0	0			46	46	49	61
11	NB	1051+00	737.1	2.0	698	5	68.4	36.1	77.3	81.4	36.1	89.0	70	63	0	0	0	0	0	0			58	53	59	70
	NB	1051+00	737.1	2.0	696	15	275.5	28.1	276.9	288.5	28.1	289.9	70	63	0	0	-5	-5	0	0			48	46	51	63
	NB	1052+50	741.6	2.0	696	5	410.0	42.6	412.2	423.0	42.6	425.1	70	60	0	0	0	0	0	0			51	48	53	63
	SB	1079+00	753.6	2.0	712	5	269.5	38.6	272.2	256.5	38.6	259.4	51	64	0	0	-3	-3	0	0			45	49	51	57

	Near Track Direction	Station	Track Elevation ASL (ft)	Source Height Above Track (ft)	Ground Elevation @ Receiver ASL (ft)	Receiver Height Above Ground	Receiver Distance to NB Track (ft)			Receiver Distance to SB Track (ft)			Train Speeds (mph)		Existing Soundwall Noise Reduction		Building Shielding Adjustment		Crossover Noise Adj		Wheel Squeal Noise Adjustment (dBA)		Calculated Rail L_{dn}, dBA			Existi L_{dn} (dB
							Horiz	Vertical	Total	Horiz	Vertical	Total	NB Track	SB Track	NB	SB	NB	SB	NB	SB	NB	SB	NB Track	SB Track	Total Passbys	
	NB	1079+00	753.6	2.0	712	5	380.0	38.6	381.9	393.0	38.6	394.8	51	64	0	0	-3	-3	0	0			46	48	50	57
11	NB	1082+50	746.4	2.0	714	5	46.4	29.4	54.9	59.4	29.4	66.3	58	70	0	0	0	0	0	0			58	58	61	70
	NB	1082+50	746.4	2.0	714	5	382.4	29.4	383.5	395.4	29.4	396.5	58	70	0	0	-3	-3	0	0			47	48	51	57
	NB	1087+00	740.9	2.0	716	5	397.4	21.9	398.0	410.4	21.9	410.9	64	70	0	0	-3	-3	0	0			48	49	52	57
	NB	1089+25	748.8	2.0	718	5	376.9	27.8	377.9	389.9	27.8	390.9	66	70	0	0	-3	-3	0	0			48	49	51	57
	SB	1092+50	751.1	2.0	722	5	269.6	26.1	270.9	256.6	26.1	258.0	67	70	0	0	-3	-3	0	0			49	44	50	61
	SB	1096+00	753.6	2.0	724	5	270.0	26.6	271.3	257.0	26.6	258.4	69	70	0	0	-5	-5	0	0			48	47	50	57
	SB	1097+50	754.7	2.0	725	5	270.0	26.7	271.3	257.0	26.7	258.4	70	70	0	0	-5	-5	0	0			48	47	50	57
	NB	1092+50	751.1	2.0	722	15	330.5	16.1	330.9	343.5	16.1	343.9	67	70	0	0	-3	-3	0	0			49	51	53	59
	NB	1096+50	754.0	2.0	724	5	375.0	27.0	376.0	388.0	27.0	388.9	69	70	0	0	-5	-5	0	0			45	47	49	57
11	NB	1100+75	757.1	2.0	726	55	61.0	-21.9	64.8	74.0	-21.9	77.2	70	70	0	0	0	0	0	0			69	69	72	70
1	NB	1100+75	757.1	2.0	726	15	335.0	18.1	335.5	348.0	18.1	348.5	70	70	0	0	-5	-5	0	0			47	48	51	57
11	SB	1099+25	756.0	2.0	725	5	118.4	28.0	121.7	105.4	28.0	109.0	70	70	0	0	0	0	0	0			53	55	57	67
	SB	1099+25	756.0	2.0	726	5	270.0	27.0	271.3	257.0	27.0	258.4	70	70	0	0	-3	-3	0	0			50	49	52	57
11	NB	1101+50	757.6	2.0	726	45	61.9	-11.4	63.0	74.9	-11.4	75.8	70	70	0	0	0	0	0	0			70	67	72	70
	NB	1104+00	759.4	2.0	728	5	338.5	28.4	339.7	351.5	28.4	352.7	70	70	0	0	-5	-5	0	0			46	47	49	57
11	SB	1104+80	760.0	2.0	728	15	119.1	19.0	120.6	106.1	19.0	107.8	70	70	0	0	0	0	0	0			55	56	59	67
11	NB	1105+50	760.5	2.0	732	5	68.4	25.5	73.0	81.4	25.5	85.3	70	70	0	0	0	0	0	0			56	54	58	67
	SB	1104+75	759.9	2.0	730	5	266.2	26.9	267.6	253.2	26.9	254.6	70	70	0	0	-5	-5	0	0			48	47	50	57
11	NB	1110+50	764.1	2.0	734	15	64.5	17.1	66.7	77.5	17.1	79.3	70	70	0	0	0	0	0	0			58	56	60	70
11	SB	1110+50	764.1	2.0	732	15	120.0	19.1	121.5	107.0	19.1	108.7	70	70	0	0	0	0	0	0			55	56	59	67
	SB	1110+75	764.3	2.0	733	5	270.0	28.3	271.5	257.0	28.3	258.5	70	70	0	0	-5	-5	0	0			47	47	50	57
11	NB	1112+00	765.2	2.0	736	5	63.0	26.2	68.2	76.0	26.2	80.4	70	70	0	0	0	0	0	0			56	54	58	70
	SB	1112+00	765.2	2.0	734	25	63.0	8.2	63.5	50.0	8.2	50.7	70	70	0	0	0	0	0	0			60	61	63	70
	SB	1112+50	765.5	2.0	734	5	240.0	28.5	241.7	227.0	28.5	228.8	70	70	0	0	-5	-5	0	0			48	47	50	59
6	SB	1113+50	766.2	2.0	736	5	340.0	27.2	341.1	327.0	27.2	328.1	70	70	0	0	-7	-7	0	0			46	45	48	57
1	SB	1114+25	766.8	2.0	734	25	62.5	9.8	63.3	49.5	9.8	50.5	70	70	0	0	0	0	0	0			59	60	63	70
	SB	1117+25	768.9	2.0	738	25	347.0	7.9	347.1	334.0	7.9	334.1	70	68	0	0	0	0	0	0			55	52	57	67
	SB	1119+50	770.6	2.0	738	15	277.0	19.6	277.7	264.0	19.6	264.7	70	66	0	0	-3	-3	0	0			51	49	53	67
	SB	1119+50	770.6	2.0	738	15	345.0	19.6	345.6	332.0	19.6	332.6	70	66	0	0	-5	-5	0	0			49	47	51	67
05	NB	1122+50	772.7	2.0	744	15	160.0	15.7	160.8	173.0	15.7	173.7	70	63	0	0	0	0	0	0			55	55	58	66
11	SB	1122+50	772.7	2.0	741	25	75.0	8.7	75.5	62.0	8.7	62.6	70	63	0	0	0	0	0	0			59	59	62	70
	SB	1122+50	772.7	2.0	741	5	340.0	28.7	341.2	327.0	28.7	328.3	70	63	0	0	-5	-5	0	0			47	45	49	59
	NB	1125+25	774.7	2.0	744	5	317.0	27.7	318.2	330.0	27.7	331.2	70	60	0	0	-3	-3	0	0			48	48	51	59
05	NB	1125+37	774.8	2.0	744	15	90.0	17.8	91.7	103.0	17.8	104.5	70	59	0	0	0	0	0	0			57	54	59	66
	SB	1130+50	778.5	2.0	748	5	340.0	27.5	341.1	327.0	27.5	328.2	64	52	0	0	-5	-5	0	0			46	43	48	59
11	SB	1130+50	778.5	2.0	748	15	82.5	17.5	84.3	69.5	17.5	71.7	64	52	0	0	0	0	0	0			55	55	58	70
11	NB	1132+00	779.6	2.0	748	25	70.0	8.6	70.5	83.0	8.6	83.4	60	49	0	0	0	0	0	0			59	56	61	67
11	SB	1132+50	779.9	2.0	750	15	67.0	16.9	69.1	54.0	16.9	56.6	58	48	0	0	0	0	0	0			54	55	57	70
11	SB	1133+50	780.6	2.0	750	15	80.0	17.6	81.9	67.0	17.6	69.3	56	46	0	0	0	0	0	0			53	54	57	70
	NB	1133+50	780.6	2.0	750	5	335.0	27.6	336.1	348.0	27.6	349.1	56	46	0	0	-3	-3	0	0			46	45	49	57
05	NB	1134+00	781.0	2.0	750	15	59.5	18.0	62.2	72.5	18.0	74.7	55	44	0	0	0	0	0	0			55	51	57	70
	SB	1133+90	780.9	2.0	750	15	239.0	17.9	239.7	226.0	17.9	226.7	55	44	0	0	-5	-5	0	0			47	45	49	57
	SB	1133+90	780.9	2.0	750	5	305.0	27.9	306.3	292.0	27.9	293.3	55	44	0	0	-5	-5	0	0			45	43	47	57
05	SB	1135+00	781.7	2.0	752	5	78.0	26.7	82.4	65.0	26.7	70.3	51	42	0	0	0	0	5	5			56	56	59	70
05	SB	1136+50	782.8	2.0	752	15	78.0	17.8	80.0	65.0	17.8	67.4	47	37	0	0	0	0	5	5			57	57	60	70
	SB	1136+50	782.8	2.0	752	25	300.0	7.8	300.1	287.0	7.8	287.1	47	37	0	0	-5	-5	0	5			47	48	51	57
	SB	1137+40	783.4	2.0	754	15	170.0	16.4	170.8	157.0	16.4	157.9	44	34	0	0	0	0	5	5			57	54	58	66
	NB	1146+75	790.2	2.0	761	5	190.0	26.2	191.8	203.0	26.2	204.7	30	42	0	0	-3	-3	0	0			43	46	48	60
	NB	1146+75	790.2	2.0	762	5	275.0	25.2	276.1	288.0	25.2	289.1	30	42	0	0	-5	-5	0	0			40	44	45	57
	NB	1148+50	791.4	2.0	762	15	95.0	16.4	96.4	108.0	16.4	109.2	37	48	0	0	-3	-3	0	0			48	50	52	64
	NB	1148+50	791.4	2.0	762	5	192.0	26.4	193.8	205.0	26.4	206.7	37	48	0	0	-5	-5	0	0			43	45	47	60
	NB	1148+50	791.4	2.0	762	5	278.0	26.4	279.3	291.0	26.4	292.2	37	48	0	0	-7	-7	0	0			40	43	45	57
06	SB	1148+50	791.4	2.0	762	5	350.0	26.4	351.0	337.0	26.4	338.0	37	48	0	0	0	0	0	0			47	48	50	57
06	NB	1150+50	792.9	2.0	763	5	185.0	26.9	186.9	198.0	26.9	199.8	41	54	0	0	-3	-3	0	0			46	48	50	60
06	NB	1150+50	792.9	2.0	763	5	277.0	26.9	278.3	290.0	26.9	291.2	41	54	0	0	-5	-5	0	0			43	46	48	57
05	NB	1151+50	793.6	2.0	764	5	228.0	26.6	229.5	241.0	26.6	242.5	44	57	0	0	-3	-3	0	0			46	48	50	60
05	SB	1153+00	794.7	2.0	766	35	62.0	-4.3	62.2	49.0	-4.3	49.2	47	61	0	0	0	0	0	0			67	67	70	70
	SB	1153+50	795.0	2.0	765	5	380.0	27.0	381.0	367.0	27.0	368.0	48	62	0	0	-5	-5	0	0			44	45	47	57
	NB	1153+50	795.0	2.0	766	5	325.0	26.0	326.0	338.0	26.0	339.0	48	62	0	0	-7	-7	0	0			41	45	46	57
	NB	1157+00	797.6	2.0	768	5	290.0	26.6	291.2	303.0	26.6	304.2	53	70	0	0	-5	-5	0	0			44	47	49	57
05	SB	1157+00	797.6	2.0	766	15	85.0	18.6	87.0	72.0	18.6	74.4	53	70	0	0	0	0	0	0			54	55	58	70
	SB	1157+00	797.6	2.0	768	5	370.0	26.6	371.0	357.0	26.6	358.0	53	70	0	0	-5	-5	0	0			43	39	45	57
05	NB	1159+50	799.4	2.0	768	45	108.5	-11.6	109.1	121.5	-11.6	122.1	56	70	0	0	0	0	0	0			62	66	68	67

	Near Track Direction	Station	Track Elevation ASL (ft)	Source Height Above Track (ft)	Ground Elevation @ Receiver ASL (ft)	Receiver Height Above Ground	Receiver Distance to NB Track (ft)			Receiver Distance to SB Track (ft)			Train Speeds (mph)		Existing Soundwall Noise Reduction		Building Shielding Adjustment		Crossover Noise Adj		Wheel Squeal Noise Adjustment (dBA)		Calculated Rail L_{dn}, dBA			Existi L_{dn} (dB
							Horiz	Vertical	Total	Horiz	Vertical	Total	NB Track	SB Track	NB	SB	NB	SB	NB	SB	NB	SB	NB Track	SB Track	Total Passbys	
	NB	1163+75	802.4	2.0	770	5	250.0	29.4	251.7	263.0	29.4	264.6	60	69	0	0	-5	-5	0	0			46	47	49	57
	SB	1163+50	802.2	2.0	770	5	375.0	29.2	376.1	362.0	29.2	363.2	60	69	0	0	-5	-5	0	0			44	39	45	57
	NB	1164+75	803.1	2.0	770	5	177.0	30.1	179.5	190.0	30.1	192.4	61	68	0	0	-5	-5	0	0			47	47	50	57
	NB	1165+50	803.7	2.0	772	5	232.0	28.7	233.8	245.0	28.7	246.7	62	67	0	0	-7	-7	0	0			45	46	48	57
	NB	1167+00	804.8	2.0	772	5	338.0	29.8	339.3	351.0	29.8	352.3	63	66	0	0	-7	-7	0	0			43	45	47	57
05	SB	1167+00	804.8	2.0	772	15	61.0	19.8	64.1	48.0	19.8	51.9	63	66	0	0	0	0	0	0			56	57	59	67
	SB	1167+00	804.8	2.0	772	5	372.0	29.8	373.2	359.0	29.8	360.2	63	66	0	0	-5	-5	0	0			44	39	46	57
	NB	1168+50	805.8	2.0	774	5	180.0	28.8	182.3	193.0	28.8	195.1	64	65	0	0	-5	-5	0	0			47	47	50	60
	NB	1168+50	805.8	2.0	774	5	340.0	28.8	341.2	353.0	28.8	354.2	64	65	0	0	-7	-7	0	0			44	45	47	57
	SB	1170+00	806.9	2.0	774	15	185.0	19.9	186.1	172.0	19.9	173.1	65	63	0	0	0	0	0	0			54	48	55	57
	SB	1170+00	806.9	2.0	773	5	380.0	30.9	381.3	367.0	30.9	368.3	65	63	0	0	-7	-7	0	0			43	37	44	57
	NB	1171+50	808.0	2.0	776	15	340.0	19.0	340.5	353.0	19.0	353.5	66	61	0	0	-7	-7	0	0			45	46	48	57
	NB	1174+00	809.8	2.0	778	15	340.0	18.8	340.5	353.0	18.8	353.5	67	58	0	0	-7	-7	0	0			45	45	48	57
05	SB	1172+75	808.9	2.0	776	5	60.0	29.9	67.0	47.0	29.9	55.7	66	60	0	0	0	0	0	0			55	55	58	67
05	SB	1176+50	811.6	2.0	778	15	58.0	20.6	61.5	45.0	20.6	49.5	66	55	0	0	0	0	0	0			55	55	58	67
	SB	1178+00	812.7	2.0	780	5	350.0	29.7	351.3	337.0	29.7	338.3	63	52	0	0	0	0	0	0			51	48	53	58
	SB	1183+50	816.6	2.0	782	5	348.0	31.6	349.4	335.0	31.6	336.5	48	40	0	0	-5	-5	0	0			43	41	45	58
	SB	1184+50	817.4	2.0	784	5	272.0	30.4	273.7	259.0	30.4	260.8	43	35	0	0	-5	-5	0	0			43	41	45	58
	SB	1184+50	817.4	2.0	784	5	350.0	30.4	351.3	337.0	30.4	338.4	43	35	0	0	-5	-5	0	0			42	40	44	58
	SB	1186+80	819.0	2.0	785	5	340.0	31.0	341.4	327.0	31.0	328.5	35	25	0	0	-5	-5	0	0	10	10	51	47	52	58
402	SB	1194+36	824.1	2.0	791	5	415.7	30.1	416.8	402.7	30.1	403.8	25	25	0	0	-3	-3	0	0	10	10	49	48	52	60
402	SB	1196+83	823.5	2.0	792	5	298.0	28.5	299.4	285.0	28.5	286.4	25	25	0	0	-3	-3	0	0	10	10	50	50	53	60
402	SB	1202+05	822.0	2.0	792	5	294.0	27.0	295.2	281.0	27.0	282.3	25	33	0	0	-3	-3	0	0	10	10	51	52	54	60
402	SB	1206+85	820.8	2.0	792	5	296.0	25.8	297.1	283.0	25.8	284.2	40	51	0	0	-5	-5	0	0	10	10	53	54	57	60
402	SB	1212+76	819.3	2.0	790	5	285.0	26.3	286.2	272.0	26.3	273.3	53	66	0	0	-5	-5	0	0			45	46	49	60
01402	SB	1214+72	818.8	2.0	790	5	351.6	25.8	352.5	338.6	25.8	339.6	56	67	0	0	-5	-5	0	0			45	46	49	60

50.0

50.0

80.0

3

84.8

(dBA) +4.0

Alternative 4 Operations

Service Hours		Number of Trains[1,2] (each direction)
Start	End	
4:30	5:00	5
5:00	6:00	17
6:00	7:00	24
7:00	8:00	24
8:00	9:00	21
9:00	10:00	16
10:00	11:00	15
11:00	12:00	15
12:00	13:00	15
13:00	14:00	15
14:00	15:00	15
15:00	16:00	24
16:00	17:00	24
17:00	18:00	24
18:00	19:00	15
19:00	20:00	15
20:00	21:00	10
21:00	22:00	10
22:00	23:00	10
23:00	0:00	9
0:00	4:30	8

Sources:

a. *STCP – Operational Information for Environmental Review* , Feb 12, 2024 & Feb 23, 2024

b. CDRL D2.3.final, *Draft Operational Basis of Design Report* (WBS HRT.PH2.3.final), Revision: 000, October 21, 2022. (Table 2)

1. Developed from Table 4 of a: Service Periods and Headways on Week Days for Alternatives 4 & 5 and Table 2 of b.

2. Forecast assumes 3-car consists for all operating hours (per source b above).

							Receiver Distance to NB Track (ft)			Receiver Distance to SB Track (ft)			Train Speeds (mph)		Source-Receiver Path Adjustments: Existing Soundwall Noise Reduction		Source-Receiver Path Adjustments: Building Shielding Adjustment		Source-Receiver Path Adjustments: Crossover Noise Adj		Calculated L_{eq}, dBA			
ss	Near Track Direction	Station	Track Elevation ASL (ft)	Source Height Above Track (ft)	Ground Elevation @ Receiver ASL (ft)	Receiver Height Above Ground	Horiz	Vertical	Total	Horiz	Vertical	Total	NB Track	SB Track	NB	SB	NB	SB	NB	SB	NB Track Contribution	SB Track Contribution	Total Passbys	Existin L_{eq} (dBA
CA 91411	NB	1031+50	717.9	2.0	688	5	148.6	26.9	151.0	161.6	26.9	163.8	70	70	0	0	0	0	0	0	52	51	54	68
411	NB	1080+50	751.0	2.0	713	5	54.4	35.0	64.6	67.4	35.0	75.9	54	67	0	0	0	0	0	0	51	52	54	70
N																								
406	SB	1142+00	786.8	2.0	758	35	246.0	-4.2	246.0	233.0	-4.2	233.0	24	20	0	0	0	0	0	0	48	43	49	65

Attachment 10. Alternative 4: Off-Road Construction Equipment Noise Levels

Sepulveda Transit Corridor
Alternative 4
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Cranes	2	83	20%	79	87
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Cranes	2	83	20%	79	86
	Generator Sets	2	82	50%	82	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Cranes	4	83	20%	82	86
	Generator Sets	2	82	40%	81	
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	2	77	40%	76	84
	Cranes	2	83	20%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	Aerial Lifts	1	77	40%	73	81
	Air Compressors	1	80	50%	77	
	Rollers	1	85	20%	78	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	2	85	40%	84	
Segment 3-Aerial Guideway (North Portal to MSF)-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 3-Aerial Guideway (North Portal to MSF)-Foundation (CIDH)	Aerial Lifts	4	77	40%	79	94
	Bore/Drill Rigs	4	90	40%	92	
	Cranes	4	83	20%	82	
	Pumps	4	77	50%	80	
	Rollers	4	85	20%	84	
	Rough Terrain Forklifts	4	80	40%	82	
Segment 3-Aerial Guideway (North Portal to MSF)-Columns	Aerial Lifts	4	77	40%	79	87
	Cranes	4	83	20%	82	
	Pumps	4	77	50%	80	
	Rough Terrain Forklifts	4	80	40%	82	
Segment 3-Aerial Guideway (North Portal to MSF)-Bent Caps	Aerial Lifts	4	77	40%	79	87
	Cranes	4	83	20%	82	
	Pumps	4	77	50%	80	
	Rough Terrain Forklifts	4	80	40%	82	
Segment 3-Aerial Guideway (North Portal to MSF)-Assemble Gantry	Aerial Lifts	4	77	40%	79	85
	Cranes	4	83	20%	82	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 3-Aerial Guideway (North Portal to MSF)-Segmental Girders	Aerial Lifts	2	77	40%	76	87
	Cranes	4	83	20%	82	
	Excavators	2	85	40%	84	
	Other Construction Equipment	2	80	40%	79	
Segment 3-Aerial Guideway (North Portal to MSF)-Demob Gantry	Aerial Lifts	4	77	40%	79	85
	Cranes	4	83	20%	82	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 3-Aerial Guideway (North Portal to MSF)-Guideway Trackwork	Aerial Lifts	2	77	40%	76	87
	Air Compressors	4	80	50%	83	
	Generator Sets	2	82	40%	81	
	Skid Steer Loaders	2	80	40%	79	
	Welders	3	73	40%	74	
Segment 3-Aerial Guideway (North Portal to MSF)-Systems Installation	Air Compressors	2	80	50%	80	85
	Generator Sets	2	82	40%	81	
	Cranes	2	83	20%	79	
	Welders	3	73	40%	74	
Segment 3-Aerial Guideway (North Portal to MSF)-Paving	Pavers	2	85	40%	84	88
	Paving Equipment	2	85	40%	84	
	Rollers	2	85	20%	81	
VTA Station Staging Area-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
VTA Station Staging Area-Laydown Activity	Cranes	1	83	20%	76	82
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	1	80	40%	76	
	Tractors/Loaders/Backhoes	1	80	40%	76	
	Welders	1	73	40%	69	
Metro E Line Stn_U-Alt4-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt4-Support of Excavation	Bore/Drill Rigs	2	84	40%	83	87
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt4-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt4-TBM Pass Through-Maintenance	Cranes	1	83	20%	76	80
	Generator Sets	1	82	40%	78	
Metro E Line Stn_U-Alt4-Station Structural Concrete	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt4-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	1	85	40%	81	
	Generator Sets	2	82	40%	81	
	Pumps	1	77	50%	74	
	Welders	2	73	40%	72	
Metro E Line Stn_U-Alt4-Paving/Arch Coatings	Aerial Lifts	1	77	40%	73	86
	Air Compressors	1	80	50%	77	
	Pavers	1	85	40%	81	
	Paving Equipment	1	85	40%	81	
	Rollers	1	85	20%	78	
Santa Monica Stn_U-Alt4-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	

Sepulveda Transit Corridor
Alternative 4
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Santa Monica Stn_U-Alt4-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Santa Monica Stn_U-Alt4-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Santa Monica Stn_U-Alt4-TBM Pass Through-Maintenance	Cranes	1	83	20%	76	80
	Generator Sets	1	82	40%	78	
Santa Monica Stn_U-Alt4-Station Structural Concrete	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Santa Monica Stn_U-Alt4-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	1	85	40%	81	
	Generator Sets	2	82	40%	81	
	Pumps	1	77	50%	74	
	Welders	2	73	40%	72	
D Line Wilshire-Westwood Stn_U-Alt4-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
D Line Wilshire-Westwood Stn_U-Alt4-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
D Line Wilshire-Westwood Stn_U-Alt4-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
D Line Wilshire-Westwood Stn_U-Alt4-TBM Pass Through-Maintenance	Cranes	1	83	20%	76	87
	Generator Sets	1	82	40%	78	
	Aerial Lifts	2	77	40%	76	
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
D Line Wilshire-Westwood Stn_U-Alt4-Station Structural Concrete	Skid Steer Loaders	2	80	40%	79	82
	Tractors/Loaders/Backhoes	2	80	40%	79	
D Line Wilshire-Westwood Stn_U-Alt4-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	1	85	40%	81	
	Generator Sets	2	82	40%	81	
	Pumps	1	77	50%	74	
	Welders	2	73	40%	72	
UCLA Stn_U-Alt4-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
UCLA Stn_U-Alt4-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
UCLA Stn_U-Alt4-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
UCLA Stn_U-Alt4-Structural Concrete Part 1	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
UCLA Stn_U-Alt4-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
UCLA Stn_U-Alt4-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	1	85	40%	81	
	Generator Sets	2	82	40%	81	
	Pumps	1	77	50%	74	
	Welders	2	73	40%	72	
Ventura Blvd Stn_A-Alt4-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Ventura Blvd Stn_A-Alt4-Foundations and Columns	Bore/Drill Rigs	2	90	40%	89	91
	Cranes	3	83	20%	81	
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Ventura Blvd Stn_A-Alt4-Bent Cap Installation	Aerial Lifts	4	77	40%	79	86
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Ventura Blvd Stn_A-Alt4-Girder Installation/Station Fit Out	Aerial Lifts	4	77	40%	79	88
	Air Compressors	4	80	50%	83	
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Ventura Blvd Stn_A-Alt4-Paving/Arch Coatings	Aerial Lifts	1	77	40%	73	86
	Air Compressors	1	80	50%	77	
	Pavers	1	85	40%	81	
	Paving Equipment	1	85	40%	81	
	Rollers	1	85	20%	78	
Sepulveda-Metro G Line Stn_A-Alt4-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Sepulveda-Metro G Line Stn_A-Alt4-Foundations and Columns	Bore/Drill Rigs	2	90	40%	89	91
	Cranes	3	83	20%	81	
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Sepulveda-Metro G Line Stn_A-Alt4-Bent Cap Installation	Aerial Lifts	4	77	40%	79	86
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	

Sepulveda Transit Corridor
Alternative 4
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

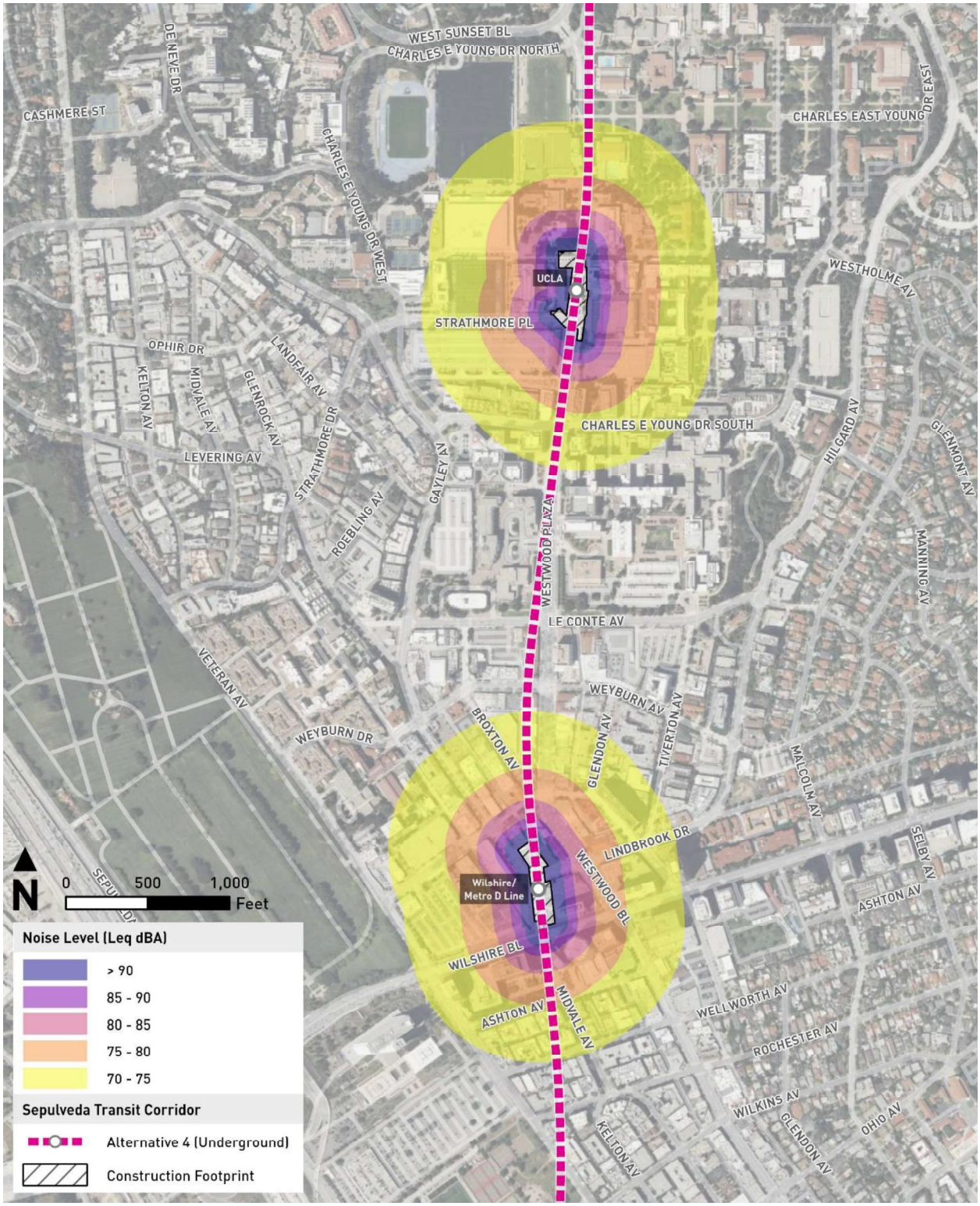
Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Sepulveda-Metro G Line Stn_A-Alt4-Girder Installation/Station Fit Out	Aerial Lifts	4	77	40%	79	88
	Air Compressors	4	80	50%	83	
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Sherman Way Stn_A-Alt4-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Sherman Way Stn_A-Alt4-Foundations and Columns	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Sherman Way Stn_A-Alt4-Bent Cap Installation	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Sherman Way Stn_A-Alt4-Girder Installation/Station Fit Out	Aerial Lifts	4	77	40%	79	88
	Air Compressors	4	80	50%	83	
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Sherman Way Stn_A-Alt4-Paving/Arch Coatings	Aerial Lifts	1	77	40%	73	86
	Air Compressors	1	80	50%	77	
	Pavers	1	85	40%	81	
	Paving Equipment	1	85	40%	81	
	Rollers	1	85	20%	78	
Metrolink Van Nuys Stn_A-Alt4-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metrolink Van Nuys Stn_A-Alt4-Foundations and Columns	Bore/Drill Rigs	2	90	40%	89	91
	Cranes	3	83	20%	81	
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metrolink Van Nuys Stn_A-Alt4-Bent Cap Installation	Aerial Lifts	4	77	40%	79	86
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Metrolink Van Nuys Stn_A-Alt4-Girder Installation/Station Fit Out	Aerial Lifts	4	77	40%	79	88
	Air Compressors	4	80	50%	83	
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Metrolink Van Nuys Stn_A-Alt4-Paving/Arch Coatings	Aerial Lifts	1	77	40%	73	86
	Air Compressors	1	80	50%	77	
	Pavers	1	85	40%	81	
	Paving Equipment	1	85	40%	81	
	Rollers	1	85	20%	78	
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	Trenchers	1	80	20%	73	80
	Skid Steer Loaders	1	80	40%	76	
	Tractors/Loaders/Backhoes	1	80	40%	76	

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
TPSS 11-Sta 1260-Grounding-Foundations	Cranes	1	83	20%	76	80
	Pumps	1	77	50%	74	
	Tractors/Loaders/Backhoes	1	80	40%	76	
TPSS 11-Sta 1260-TPSS Installation	Aerial Lifts	1	77	40%	73	80
	Cranes	1	83	20%	76	
	Rough Terrain Forklifts	1	80	40%	76	
	Welders	1	73	40%	69	
TPSS 11-Sta 1260-Site Restoration	Air Compressors	1	80	50%	77	82
	Generator Sets	1	82	40%	78	
	Skid Steer Loaders	1	80	40%	76	
MSF-Demolition	Concrete/Industrial Saws	1	90	20%	83	89
	Excavators	3	85	40%	86	
	Rubber Tired Dozers	2	85	40%	84	
MSF-Site Preparation	Rubber Tired Dozers	3	85	40%	86	87
	Tractors/Loaders/Backhoes	4	80	40%	82	
MSF-Grading	Excavators	2	85	40%	84	89
	Graders	1	85	40%	81	
	Rubber Tired Dozers	1	85	40%	81	
	Scrapers	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
MSF-Building Construction	Cranes	1	83	20%	76	84
	Forklifts	3	75	40%	76	
	Generator Sets	1	82	40%	78	
	Tractors/Loaders/Backhoes	3	80	40%	81	
	Welders	1	73	40%	69	
MSF-Paving	Pavers	2	85	40%	84	88
	Paving Equipment	2	85	40%	84	
	Rollers	2	85	20%	81	
MSF-Archictectural Coating	Air Compressors	1	80	50%	77	77
MSF-Test Track	Aerial Lifts	2	77	40%	76	81
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Precast Yard-Alt 4 Concrete Activity	Cranes	2	83	20%	79	89
	Cement and Mortar Mixers	2	85	40%	84	
	Generator Sets	2	82	40%	81	
	Other General Industrial Equipment	1	80	40%	76	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
NCZ Staging Area-Staging Activity	Cranes	1	83	20%	76	85
	Rough Terrain Forklifts	2	80	40%	79	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
SCZ Staging Area-Staging Activity	Cranes	1	83	20%	76	85
	Rough Terrain Forklifts	2	80	40%	79	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	

Figure J-1. Alternative 4: Construction Equipment Noise Contours – View 1

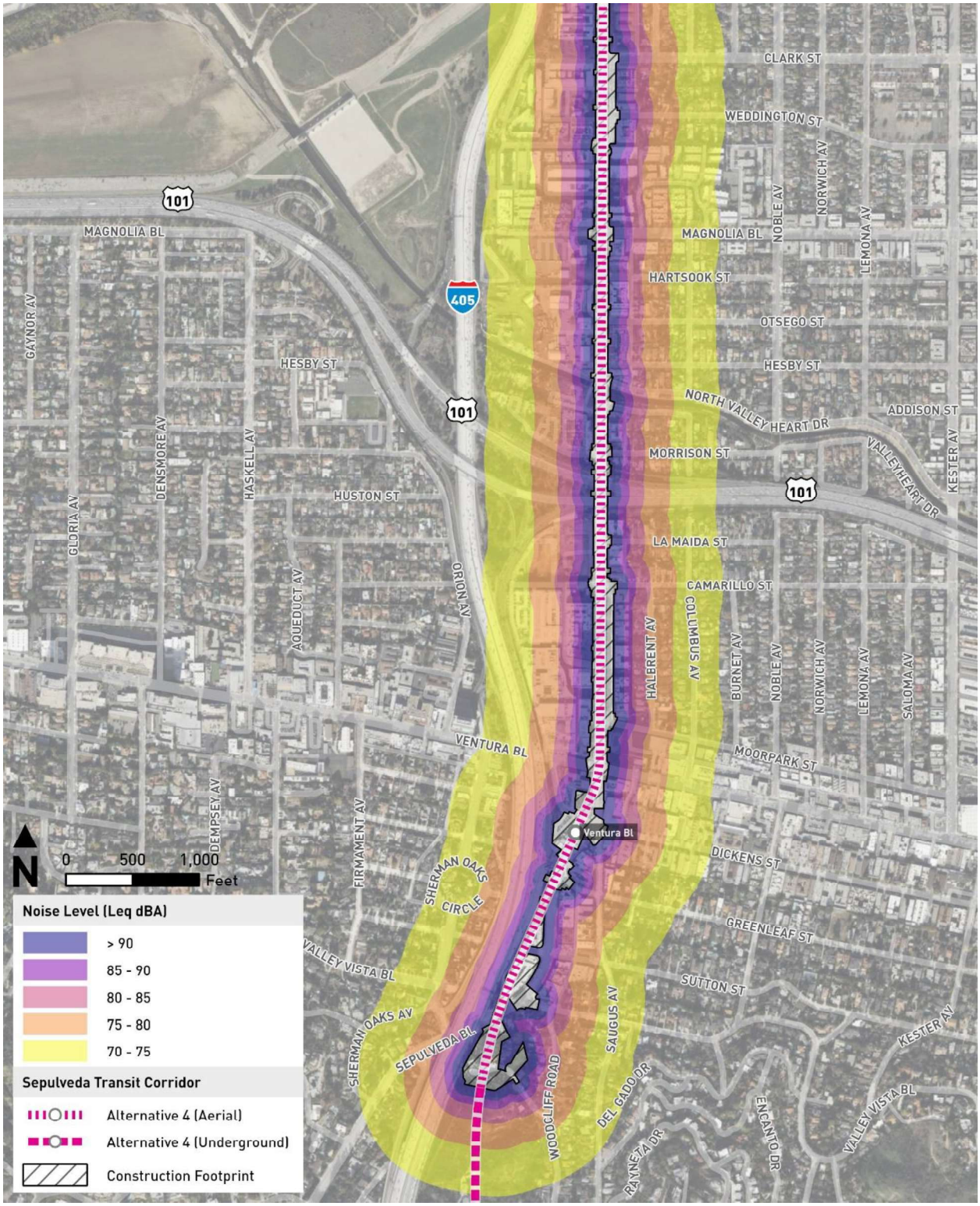
Source: HTA, 2024

Figure J-2. Alternative 4: Construction Equipment Noise Contours – View 2



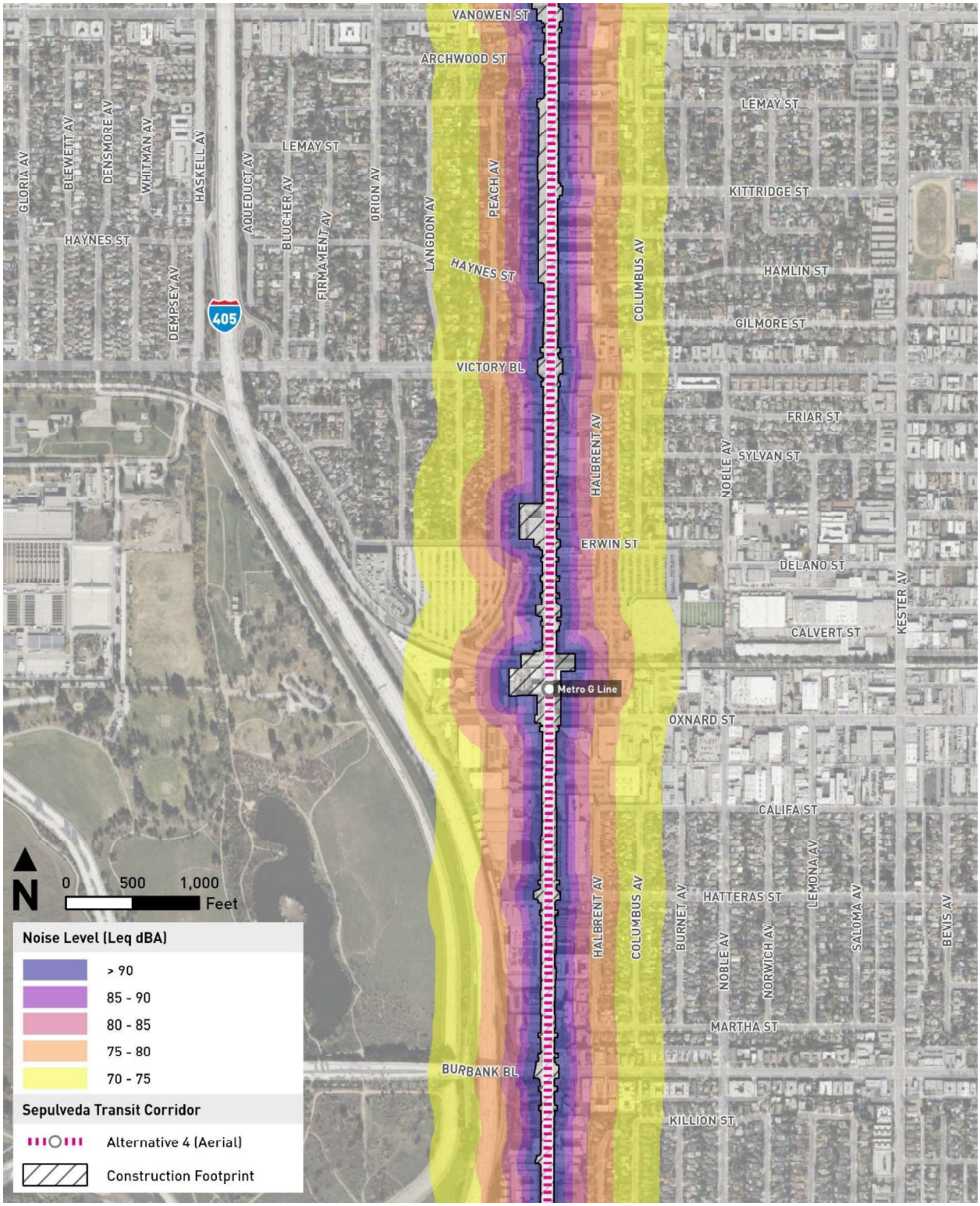
Source: HTA, 2024

Figure J-3. Alternative 4: Construction Equipment Noise Contours – View 3



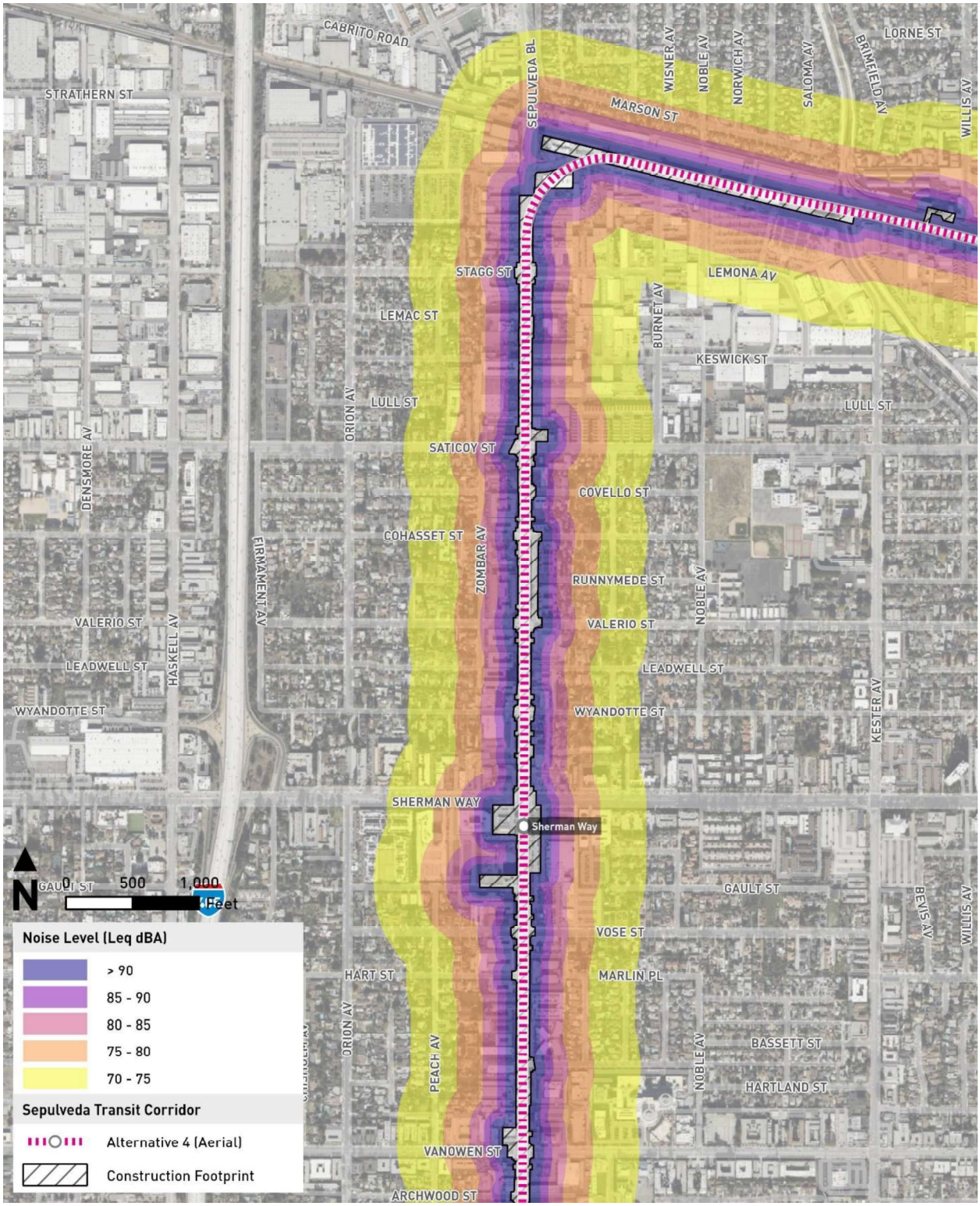
Source: HTA, 2024

Figure J-4. Alternative 4: Construction Equipment Noise Contours – View 4



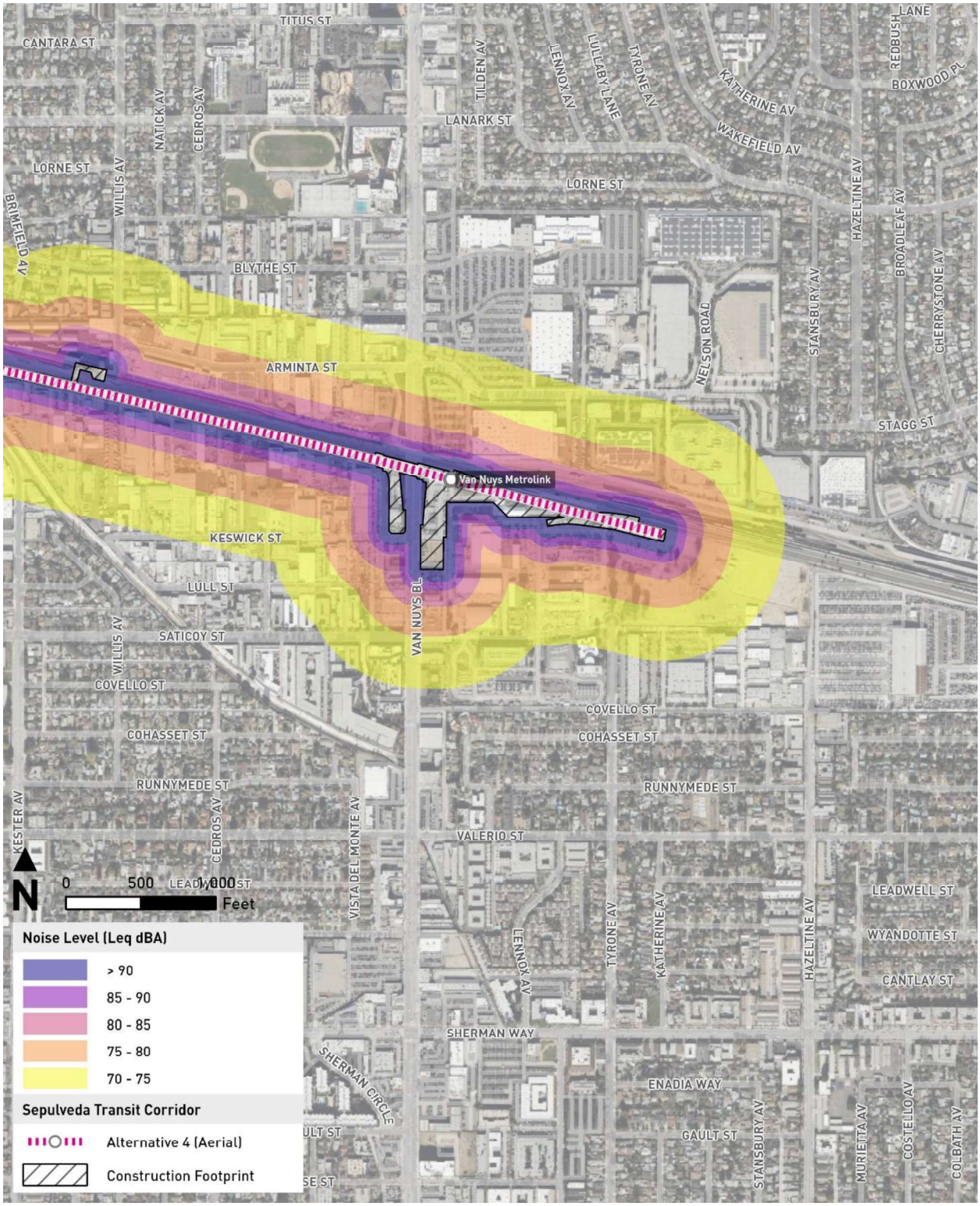
Source: HTA, 2024

Figure J-5. Alternative 4: Construction Equipment Noise Contours – View 5



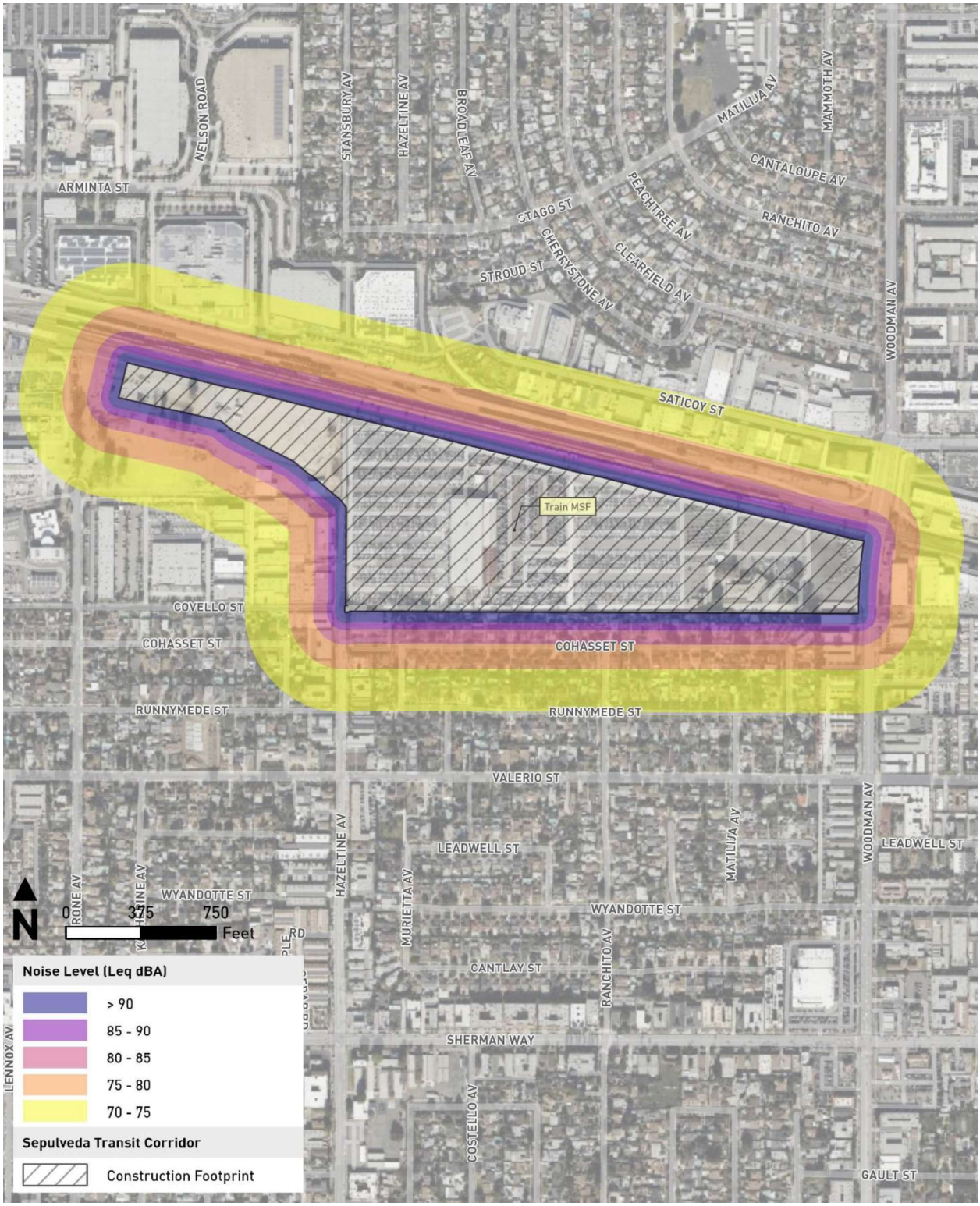
Source: HTA, 2024

Figure J-6. Alternative 4: Construction Equipment Noise Contours – View 6



Source: HTA, 2024

Figure J-7. Alternative 4: Construction Equipment Noise Contours – Proposed MSF



Source: HTA, 2024

Attachment 11. Alternative 4: Groundborne Vibration and Noise Impact Assessment

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
os Angeles, CA 90064		MFR	2	192	10				53	72	No	18	35	No	--
iates Los Angeles, CA 90064		Medical Bldg	3	96	10				55	75	No	20	40	No	--
s Angeles, CA 90064		SFR	2	118	10				55	72	No	20	35	No	--
s Angeles, CA 90064		SFR	2	101	10				55	72	No	20	35	No	--
s Angeles, CA 90064		SFR	2	111	10				55	72	No	20	35	No	--
West LA Campus Los Angeles, CA 90064		Institutional/ Day Care	3	120	10				55	75	No	20	40	No	--
s Angeles, CA 90064		SFR	2	88	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	206	10				53	72	No	18	35	No	--
s Angeles, CA 90064		SFR	2	94	10				56	72	No	21	35	No	--
Los Angeles, CA 90064		MFR	2	82	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	85	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	91	10				56	72	No	21	35	No	--
Los Angeles, CA 90064		MFR	2	85	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	84	10				56	72	No	21	35	No	--
Los Angeles, CA 90064		MFR	2	85	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	184	10				53	72	No	18	35	No	--
s Angeles, CA 90064		SFR	2	82	10				56	72	No	21	35	No	--
Los Angeles, CA 90064		MFR	2	87	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	83	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	82	10				56	72	No	21	35	No	--
Los Angeles, CA 90064		MFR	2	88	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	80	10				56	72	No	21	35	No	--
s Angeles, CA 90064	**National Blvd to I-10**	SFR	2	174	10				53	72	No	18	35	No	--
s Angeles, CA 90064		SFR	2	80	10				56	72	No	21	35	No	--
Los Angeles, CA 90064		MFR	2	104	10				55	72	No	20	35	No	--
s Angeles, CA 90064		SFR	2	79	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	147	10				54	72	No	19	35	No	--
Los Angeles, CA 90064		MFR	2	92	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	79	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	141	10				54	72	No	19	35	No	--
s Angeles, CA 90064		MFR	2	78	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	138	10				54	72	No	19	35	No	--
Los Angeles, CA 90064		MFR	2	100	10				55	72	No	20	35	No	--
s Angeles, CA 90064		SFR	2	77	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	76	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	76	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	127	10				54	72	No	19	35	No	--
s Angeles, CA 90064		SFR	2	127	10				54	72	No	19	35	No	--
Los Angeles, CA 90064		MFR	2	106	10				55	72	No	20	35	No	--
s Angeles, CA 90064		SFR	2	75	10				56	72	No	21	35	No	--
ngeles, CA 90064		SFR	2	219	10				52	72	No	17	35	No	--
s Angeles, CA 90064		SFR	2	128	10				54	72	No	19	35	No	--
Los Angeles, CA 90064		MFR	2	129	10				54	72	No	19	35	No	--
s Angeles, CA 90064		SFR	2	75	10				56	72	No	21	35	No	--
Los Angeles, CA 90064		MFR	2	136	10				54	72	No	19	35	No	--
s Angeles, CA 90064		SFR	2	75	10				56	72	No	21	35	No	--
s Angeles, CA 90064		MFR	2	138	10				54	72	No	19	35	No	--
ngeles, CA 90064		SFR	2	212	10				53	72	No	18	35	No	--
s Angeles, CA 90064		SFR	2	70	10				57	72	No	22	35	No	--
Los Angeles, CA 90064		MFR	2	132	10				54	72	No	19	35	No	--
e, Los Angeles, CA 90064		SFR	2	110	10				55	72	No	20	35	No	--
s Angeles, CA 90064		SFR	2	101	10				55	72	No	20	35	No	--
s Angeles, CA 90064		SFR	2	92	10				56	72	No	21	35	No	--
ngeles, CA 90064		SFR	2	202	10				53	72	No	18	35	No	--
s Angeles, CA 90064		SFR	2	87	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	71	10				57	72	No	22	35	No	--
Los Angeles, CA 90064		SFR	2	169	10				53	72	No	18	35	No	--
ngeles, CA 90064		SFR	2	209	10				53	72	No	18	35	No	--
s Angeles, CA 90064		SFR	2	72	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	86	10				56	72	No	21	35	No	--
Los Angeles, CA 90064		SFR	2	176	10				53	72	No	18	35	No	--
s Angeles, CA 90064		SFR	2	79	10				56	72	No	21	35	No	--
os Angeles, CA 90064	**I-10 to Exposition Blvd**	MFR	2	144	10				54	72	No	19	35	No	--
s Angeles, CA 90064		SFR	2	79	10				56	72	No	21	35	No	--
ngeles, CA 90064		SFR	2	198	10				53	72	No	18	35	No	--
Los Angeles, CA 90064		SFR	2	170	10				53	72	No	18	35	No	--
s Angeles, CA 90064		SFR	2	74	10				56	72	No	21	35	No	--
s Angeles, CA 90064		SFR	2	87	10				56	72	No	21	35	No	--

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
s Angeles, CA 90064		SFR	2	108	10	Y			65	72	No	30	35	No	--
Los Angeles, CA 90064		SFR	2	67	10	Y			67	72	No	32	35	No	--
Los Angeles, CA 90064		SFR	2	184	10		Y		58	72	No	23	35	No	--
Los Angeles, CA 90064		MFR	2	165	10		Y		58	72	No	23	35	No	--
Los Angeles, CA 90064		SFR	2	103	10		Y		60	72	No	25	35	No	--
Los Angeles, CA 90064		SFR	2	69	10	Y			67	72	No	32	35	No	--
VEDA STATION															
tute Los Angeles, CA 90064		Research Laboratory	1	227	28			Y	56	65	No	21	25	No	--
Angeles, CA 90064		SFR	2	183	45				66	72	No	31	35	No	--
s Angeles, CA 90064		MFR	2	79	45				69	72	No	34	35	No	--
s Angeles, CA 90064		MFR	2	89	41		Y		73	72	**Yes**	38	35	**Yes**	High-re Faste
s Angeles, CA 90064		MFR	2	78	45		Y		74	72	**Yes**	39	35	**Yes**	High-re Faste
enter Los Angeles, CA 90064		Animal Hospital	1	160	45		Y		72	65	**Yes**	37	25	**Yes**	Floatin
s Angeles, CA 90064		MFR	2	91	44	Y			78	72	**Yes**	43	35	**Yes**	Resili Support
s Angeles, CA 90064		MFR	2	77	45	Y			79	72	**Yes**	44	35	**Yes**	Resili Support
s Angeles, CA 90064		SFR	2	93	45		Y		74	72	**Yes**	39	35	**Yes**	High-re Faste
Angeles, CA 90064		SFR	2	214	45				66	72	No	31	35	No	--
Los Angeles, CA 90064	**Metro E-Line/Sepulveda Station to Olympic Blvd**	MFR	2	76	53	Y			81	72	**Yes**	46	35	**Yes**	Resili Support
s Angeles, CA 90064		MFR	2	78	55	Y			81	72	**Yes**	46	35	**Yes**	Resili Support
Angeles, CA 90064		SFR	2	181	46		Y		71	72	No	36	35	**Yes**	High-re Faste
Los Angeles, CA 90064		MFR	2	89	47		Y		74	72	**Yes**	39	35	**Yes**	High-re Faste
Angeles, CA 90064		SFR	2	189	49				67	72	No	32	35	No	--
Angeles, CA 90064		SFR	2	210	52				67	72	No	32	35	No	--
s Angeles, CA 90064		MFR	2	88	50				70	72	No	35	35	**Yes**	High-re Faste
s Angeles, CA 90064		MFR	2	74	64				72	72	**Yes**	37	35	**Yes**	High-re Faste
s Angeles, CA 90064		--	--	79	68				73	--	No	38	35	**Yes**	High-re Faste
, Los Angeles, CA 90064		MFR	2	89	53				70	72	No	35	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	84	54				71	72	No	36	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	72	70				73	72	**Yes**	38	35	**Yes**	High-re Faste
Angeles, CA 90025		SFR	2	184	54				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	73	70				73	72	**Yes**	38	35	**Yes**	High-re Faste
Angeles, CA 90025		SFR	2	178	57				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	72	70				73	72	**Yes**	38	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	85	58				71	72	No	36	35	**Yes**	High-re Faste
Angeles, CA 90025		SFR	2	211	58				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	72	68				73	72	**Yes**	38	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	86	59				71	72	No	36	35	**Yes**	High-re Faste
Angeles, CA 90025		SFR	2	230	59				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	95	60				71	72	No	36	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	68	60				72	72	**Yes**	37	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	93	67				72	72	**Yes**	37	35	**Yes**	High-re Faste
Angeles, CA 90025		SFR	2	202	60				68	72	No	33	35	No	--
Angeles, CA 90025		MFR	2	110	61				71	72	No	36	35	**Yes**	High-re Faste
Angeles, CA 90025	**Olympic Blvd to Santa Monica Blvd Station**	MFR	2	67	63				73	72	**Yes**	38	35	**Yes**	High-re

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
s Angeles, CA 90025		SFR	2	128	62				70	72	No	35	35	**Yes**	High-re Faste
s Angeles, CA 90025		SFR	2	67	56				72	72	**Yes**	37	35	**Yes**	High-re Faste
s Angeles, CA 90025		SFR	2	172	63				69	72	No	34	35	No	--
s Angeles, CA 90025		SFR	2	186	64				69	72	No	34	35	No	--
ospital Los Angeles, CA 90025		Animal Hospital	1	68	50				71	65	**Yes**	36	25	**Yes**	Resili Support
s Angeles, CA 90025		SFR	2	69	64				73	72	**Yes**	38	35	**Yes**	High-re Faste
s Angeles, CA 90025		SFR	2	203	64				69	72	No	34	35	No	
os Angeles, CA 90025		MFR	2	70	61				72	72	**Yes**	37	35	**Yes**	High-re Faste
os Angeles, CA 90025		MFR	2	219	62				68	72	No	33	35	No	
s Angeles, CA 90025		MFR	2	74	59				72	72	**Yes**	37	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	81	56				71	72	No	36	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	84	54				71	72	No	36	35	**Yes**	High-re Faste
s Angeles, CA 90025		MFR	2	238	56				67	72	No	32	35	No	--
s Angeles, CA 90025		MFR	2	98	44				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	102	36			Y	61	72	No	26	35	No	--
s Angeles, CA 90025		MFR	2	104	24			Y	58	72	No	23	35	No	--
EVARD STATION															
s Angeles, CA 90025		MFR	2	105	36				66	72	No	31	35	No	--
Los Angeles, CA 90025		Theater	2	89	40				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	130	38				66	72	No	31	35	No	--
s Angeles, CA 90025		MFR	2	213	40				65	72	No	30	35	No	--
s Angeles, CA 90025		MFR	2	92	40				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	91	40				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	92	40				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	175	40				65	72	No	30	35	No	--
s Angeles, CA 90025		MFR	2	93	40				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	93	40				68	72	No	33	35	No	--
Ave, Los Angeles, CA 90025		MFR	2	127	40				66	72	No	31	35	No	--
s Angeles, CA 90025		MFR	2	117	40				67	72	No	32	35	No	--
s Angeles, CA 90025		MFR	2	100	40				67	72	No	32	35	No	--
ve, Los Angeles, CA 90025		MFR	2	112	40				67	72	No	32	35	No	--
s Angeles, CA 90025		MFR	2	99	40				67	72	No	32	35	No	--
s Angeles, CA 90025		MFR	2	95	40				68	72	No	33	35	No	--
s Angeles, CA 90025		MFR	2	140	40				66	72	No	31	35	No	--
s Angeles, CA 90025		MFR	2	159	40				66	72	No	31	35	No	--
Angeles, CA 90025		MFR	2	142	40				66	72	No	31	35	No	--
Angeles, CA 90025		MFR	2	110	40				67	72	No	32	35	No	--
s Angeles, CA 90025		MFR	2	98	40				67	72	No	32	35	No	--
s Angeles, CA 90025	**Santa Monica Blvd Station to Veteran Ave**	MFR	2	118	40				67	72	No	32	35	No	--
ngeles, CA 90025		MFR	2	100	40				67	72	No	32	35	No	--
s Angeles, CA 90025		MFR	2	136	40				66	72	No	31	35	No	--
s Angeles, CA 90025		MFR	2	163	40				66	72	No	31	35	No	--
Angeles, CA 90025		MFR	2	175	40				65	72	No	30	35	No	--
Angeles, CA 90025		MFR	2	99	40				67	72	No	32	35	No	--
Angeles, CA 90025		MFR	2	102	40				67	72	No	32	35	No	--
Angeles, CA 90025		MFR	2	114	40				67	72	No	32	35	No	--
Angeles, CA 90025		MFR	2	101	40				67	72	No	32	35	No	--
Angeles, CA 90025		MFR	2	103	40				67	72	No	32	35	No	--
os Angeles, CA 90025		MFR	2	194	40				65	72	No	30	35	No	--
Angeles, CA 90025		MFR	2	211	40				65	72	No	30	35	No	--
os Angeles, CA 90025		MFR	2	183	40				65	72	No	30	35	No	--
os Angeles, CA 90025		MFR	2	127	40				66	72	No	31	35	No	--
Angeles, CA 90025		MFR	2	103	40				67	72	No	32	35	No	--
os Angeles, CA 90025		MFR	2	113	40				67	72	No	32	35	No	--
Angeles, CA 90025		MFR	2	102	41				68	72	No	33	35	No	--
os Angeles, CA 90025		MFR	2	102	40				67	72	No	32	35	No	--
Angeles, CA 90025		MFR	2	108	42				68	72	No	33	35	No	--
os Angeles, CA 90025		MFR	2	102	44				68	72	No	33	35	No	--
os Angeles, CA 90025		MFR	2	159	40				66	72	No	31	35	No	--
os Angeles, CA 90025		MFR	2	117	40				67	72	No	32	35	No	--
Angeles, CA 90024		MFR	2	218	43				65	72	No	30	35	No	--
Angeles, CA 90024		MFR	2	207	49				67	72	No	32	35	No	--

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
Los Angeles, CA 90024	Veteran Ave to Metro D-Line/Wilshire/Westwood Station	MFR	2	111	56				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	129	56				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	113	53				69	72	No	34	35	No	--
100, Los Angeles, CA 90024		MFR	2	114	57				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	202	51				67	72	No	32	35	No	--
Los Angeles, CA 90024		MFR	2	158	51				68	72	No	33	35	No	--
Los Angeles, CA 90024		MFR	2	142	58				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	175	58				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	117	58				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	116	58				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	146	58				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	127	47				68	72	No	33	35	No	--
Los Angeles, CA 90024		MFR	2	116	57				69	72	No	34	35	No	--
Angeles, CA 90024		MFR	2	213	45				66	72	No	31	35	No	--
Angeles, CA 90024		MFR	2	140	44		Y		72	72	**Yes**	37	35	**Yes**	Spring
Angeles, CA 90024		MFR	2	118	53		Y		74	72	**Yes**	39	35	**Yes**	Spring
Angeles, CA 90024		MFR	2	118	52		Y		74	72	**Yes**	39	35	**Yes**	Spring
Angeles, CA 90024		MFR	2	191	51		Y		72	72	**Yes**	37	35	**Yes**	Spring
za os Angeles, CA 90024		Medical Bldg	3	145	31			Y	59	75	No	24	35	No	--
IRE- WESTWOOD STATION															
Angeles, CA 90024	Metro D Line/Wilshire/Westwood Station to Le Conte Ave	Institutional	3	172	20			Y	54	75	No	19	35	No	--
Angeles, CA 90024		MFR	2	134	32				64	72	No	29	35	No	--
Los Angeles, CA 90024		MFR	2	159	22				61	72	No	26	35	No	--
nology Research Building Angeles, CA 90024		Laboratory	1	723	42				61	65	No	26	25	**Yes**	High-re Faste
ent Angeles, CA 90024		Recording Studio	Special Bldg	452	36				61	65	No	26	25	**Yes**	High-re Faste
Angeles, CA 90024		Video Production	Special Bldg	452	36				61	65	No	26	25	**Yes**	High-re Faste
od Angeles, CA 90024		Movie Theater	2	236	57				67	72	No	32	35	No	--
Angeles, CA 90024		Video Production	Special Bldg	500	43				62	65	No	27	25	**Yes**	High-re Faste
Los Angeles, CA 90024		Institutional	3	131	56				69	75	No	34	40	No	--
uite b, Los Angeles, CA 90024		SPA	3	117	61				70	75	No	35	40	No	--
ood Center Los Angeles, CA 90024		Institutional	3	207	46				66	75	No	31	40	No	--
usic os Angeles, CA 90024		Institutional	3	132	67				71	75	No	36	40	No	--
issions & Review os Angeles, CA 90024		Institutional	3	117	70				72	75	No	37	40	No	--
os Angeles, CA 90024		Theater	Special Bldg	303	49				65	72	No	30	35	No	--
za Driveway, Los Angeles, CA 90095	Le Conte Ave to UCLA Station	Medical Bldg	1	125	68				71	65	**Yes**	36	25	**Yes**	Resili Support
e ay, Los Angeles, CA 90024		Medical Bldg	1	218	52				67	65	**Yes**	32	25	**Yes**	Resili Support
				235	65				68	65	**Yes**	33	25	**Yes**	Resili Support
houkian Medical Building eway, Los Angeles, CA 90024		Medical Bldg	1	112	63				71	65	**Yes**	36	25	**Yes**	Resili Support
uloplastics Division Stein Plaza Driveway, Los Angeles, CA 90024		Medical Bldg	1	137	53				69	65	**Yes**	34	25	**Yes**	Resili Support
or Neuroscience and Human Behavior Los Angeles, CA 90024		Institutional	1	134	54				69	65	**Yes**	34	25	**Yes**	Resili Support
earch Center Los Angeles, CA 90095		Institutional/ Research	1	114	55				70	65	**Yes**	35	25	**Yes**	Resili Support
Medical Building Los Angeles, CA 90095		Medical Bldg	1	101	51				69	65	**Yes**	34	25	**Yes**	Resili Support
esearch Institute UCLA r S, Los Angeles, CA 90095		Institutional/ Research	1	109	47		Y		73	65	**Yes**	38	25	**Yes**	Resili Support
e Luskin Conference Center Los Angeles, CA 90095		Lodging/ Conference	2	190	10			Y	48	72	No	13	35	No	--
of Engineering Los Angeles, CA 90095		Institutional/ Research	1	146	23			Y	56	65	No	21	25	No	--

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
Los Angeles, CA 90024	UCLA Station to Sunset Blvd	Institutional	3	125	33				65	75	No	30	40	No	--
s Center Los Angeles, CA 90095		Institutional	3	124	44				67	75	No	32	40	No	--
Arts and Cultures/Dance Los Angeles, CA 90077		Institutional	3	129	50				68	75	No	33	40	No	--
r for Executive Education Los Angeles, CA 90095		Institutional	3	122	70	1675			71	75	No	36	40	No	--
of Management Los Angeles, CA 90095		Institutional	3	196	56				68	75	No	33	40	No	--
ol Angeles, CA 90077		High School	3	188	70				70	75	No	35	40	No	--
r N, Los Angeles, CA 90095		Elementary School	3	118	58				70	75	No	35	40	No	--
ter r N, Los Angeles, CA 90095		Day Care	3	113	59				70	75	No	35	40	No	--
es Bronson ngeles, CA 90077	Sunset Blvd to Bellagio Rd	Historic Landmark	2	133	70				71	72	No	36	35	**Yes**	High-re Faste
ngeles, CA 90077		SFR	2	106	61				71	72	No	36	35	**Yes**	High-re Faste
ngeles, CA 90077		SFR	2	148	70				71	72	No	36	35	**Yes**	High-re Faste
ngeles, CA 90077		SFR	2	147	61				70	72	No	35	35	**Yes**	High-re Faste
Angeles, CA 90077 (Tennis Courts)		SFR	2	167	70				70	72	No	35	35	**Yes**	High-re Faste
Angeles, CA 90077		SFR	2	185	70				70	72	No	35	35	**Yes**	High-re Faste
Angeles, CA 90077		SFR	2	288	70				68	72	No	33	35	No	--
Angeles, CA 90077	Bellagio Rd to Somma Way	SFR	2	107	64				71	72	No	36	35	**Yes**	High-re Faste
Angeles, CA 90077		SFR	2	152	64				70	72	No	35	35	**Yes**	High-re Faste
Los Angeles, CA 90077		SFR	2	96	64				72	72	**Yes**	37	35	**Yes**	High-re Faste
Los Angeles, CA 90077		SFR	2	127	64				71	72	No	36	35	**Yes**	High-re Faste
Los Angeles, CA 90077		SFR	2	97	64				72	72	**Yes**	37	35	**Yes**	High-re Faste
Angeles, CA 90077	Bellagio Rd to Somma Way	SFR	2	141	70				71	72	No	36	35	**Yes**	High-re Faste
Los Angeles, CA 90077		SFR	2	97	64				72	72	**Yes**	37	35	**Yes**	High-re Faste
Angeles, CA 90077		SFR	2	94	64				72	72	**Yes**	37	35	**Yes**	High-re Faste
Angeles, CA 90077		SFR	2	282	70				68	72	No	33	35	No	--
Los Angeles, CA 90077		Hotel	2	134	70				71	72	No	36	35	**Yes**	High-re Faste
Angeles, CA 90077		SFR	2	277	70				69	72	No	34	35	No	--
s Angeles, CA 90077		SFR	2	137	65				70	72	No	35	35	**Yes**	High-re Faste
s Angeles, CA 90077		SFR	2	276	65				68	72	No	33	35	No	--
s Angeles, CA 90077		SFR	2	352	70				68	72	No	33	35	No	--
s Angeles, CA 90077		SFR	2	101	70				72	72	**Yes**	37	35	**Yes**	High-re Faste
s Angeles, CA 90077		SFR	2	146	70				71	72	No	36	35	**Yes**	High-re Faste
s Angeles, CA 90077		SFR	2	117	65				71	72	No	36	35	**Yes**	High-re Faste
s Angeles, CA 90077		SFR	2	195	65				69	72	No	34	35	No	--
s Angeles, CA 90077		SFR	2	123	65				71	72	No	36	35	**Yes**	High-re Faste
s Angeles, CA 90077		SFR	2	98	70				72	72	**Yes**	37	35	**Yes**	High-re Faste
s Angeles, CA 90077		SFR	2	148	70				71	72	No	36	35	**Yes**	High-re Faste
s Angeles, CA 90077		SFR	2	176	65				70	72	No	35	35	**Yes**	High-re Faste
s Angeles, CA 90077		SFR	2	230	70				69	72	No	34	35	No	--
Angeles, CA 90077		SFR	2	358	70				68	72	No	33	35	No	--

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
Angeles, CA 90077	Somma Way to Stone Canyon Rd	SFR	2	530	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	257	67				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	223	67				69	72	No	34	35	No	--
, Los Angeles, CA 90077		SFR	2	158	70				71	72	No	36	35	**Yes**	High-re Faste
, Los Angeles, CA 90077		SFR	2	379	67				67	72	No	32	35	No	--
, Los Angeles, CA 90077		SFR	2	356	67				67	72	No	32	35	No	--
, Los Angeles, CA 90077		SFR	2	363	70				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	371	67				67	72	No	32	35	No	--
, Los Angeles, CA 90077		SFR	2	384	70				67	72	No	32	35	No	--
, Los Angeles, CA 90077		SFR	2	370	67				67	72	No	32	35	No	--
, Los Angeles, CA 90077		SFR	2	409	70				67	72	No	32	35	No	--
, Los Angeles, CA 90077		SFR	2	376	70				67	72	No	32	35	No	--
, Los Angeles, CA 90077		SFR	2	382	70				67	72	No	32	35	No	--
, Los Angeles, CA 90077		SFR	2	388	70				67	72	No	32	35	No	--
s Angeles, CA 90077		SFR	2	289	67				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	381	70				67	72	No	32	35	No	--
s Angeles, CA 90077		SFR	2	282	70				68	72	No	33	35	No	--
s Angeles, CA 90077		SFR	2	272	70				69	72	No	34	35	No	--
s Angeles, CA 90077		SFR	2	287	67				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	383	70				67	72	No	32	35	No	--
s Angeles, CA 90077		SFR	2	285	67				68	72	No	33	35	No	--
s Angeles, CA 90077		SFR	2	268	67				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	332	70				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	302	70				68	72	No	33	35	No	--
os Angeles, CA 90077		SFR	2	261	67				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	275	70				69	72	No	34	35	No	--
os Angeles, CA 90077		SFR	2	302	67				68	72	No	33	35	No	--
os Angeles, CA 90077		SFR	2	270	67				68	72	No	33	35	No	--
os Angeles, CA 90077		SFR	2	257	67				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	302	70				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	271	67				68	72	No	33	35	No	--
, Los Angeles, CA 90077		SFR	2	352	70				68	72	No	33	35	No	--
Angeles, CA 90077	Stone Canyon Rd to Linda Flora Dr	SFR	2	628	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	614	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	603	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	598	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	612	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	595	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	592	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	601	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	597	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	588	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	589	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	584	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	586	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	585	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	585	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	580	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	579	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	593	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	580	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	600	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	585	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	580	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	617	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	590	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	619	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	593	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	491	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	593	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	498	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	602	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	523	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	504	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	526	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	508	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	513	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	528	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	521	70				66	72	No	31	35	No	--

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
os Angeles, CA 90077		SFR	2	521	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	544	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	525	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	551	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	531	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	558	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	597	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	534	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	592	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	540	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	545	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	577	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	599	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	553	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	578	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	567	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	589	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	582	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	575	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	577	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	574	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	578	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	580	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	586	70				66	72	No	31	35	No	--
s Angeles, CA 90077		SFR	2	613	70				66	72	No	31	35	No	--
eles, CA 90077	Linda Flora Dr to Mulholland Dr	SFR	2	486	70				66	72	No	31	35	No	--
eles, CA 90077		SFR	2	554	70				66	72	No	31	35	No	--
eles, CA 90077		SFR	2	513	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	549	70				66	72	No	31	35	No	--
os Angeles, CA 90077		SFR	2	612	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	438	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	430	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	516	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	473	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	447	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	445	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	482	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	461	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	462	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	465	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	461	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	490	70				66	72	No	31	35	No	--
Angeles, CA 90077		SFR	2	476	70				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	520	70				66	72	No	31	35	No	--
Aaron Milken Center Dr, Los Angeles, CA 90077		Educational	3	579	70				66	75	No	31	40	No	--
Dr, Los Angeles, CA 90077		Educational	3	573	70				66	75	No	31	40	No	--
Dr, Los Angeles, CA 90077		Religious	3	580	70				66	75	No	31	40	No	--
Los Angeles, CA 90077		SFR	2	562	70				66	72	No	31	35	No	--
Los Angeles, CA 90077		SFR	2	587	70				66	72	No	31	35	No	--
Los Angeles, CA 90077		SFR	2	506	70				66	72	No	31	35	No	--
erman Oaks, CA 91403		SFR	2	486	70				66	72	No	31	35	No	--
erman Oaks, CA 91403		SFR	2	484	70				66	72	No	31	35	No	--
erman Oaks, CA 91403		SFR	2	463	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	508	70				66	72	No	31	35	No	--
erman Oaks, CA 91403		SFR	2	463	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	517	70				66	72	No	31	35	No	--
erman Oaks, CA 91403		SFR	2	452	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	478	70				67	72	No	32	35	No	--
man Oaks, CA 91403		SFR	2	474	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	449	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	454	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	447	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	440	70				67	72	No	32	35	No	--
man Oaks, CA 91403		SFR	2	424	70				67	72	No	32	35	No	--
man Oaks, CA 91403		SFR	2	429	70				67	72	No	32	35	No	--
man Oaks, CA 91403		SFR	2	472	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	460	70				67	72	No	32	35	No	--

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
erman Oaks, CA 91403		SFR	2	454	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	417	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	423	70				67	72	No	32	35	No	--
herman Oaks, CA 91403		SFR	2	356	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	344	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	326	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	326	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	321	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	324	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	331	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	306	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	278	70				68	72	No	33	35	No	--
ace, Sherman Oaks, CA 91403		SFR	2	268	70				69	72	No	34	35	No	--
ace, Sherman Oaks, CA 91403		SFR	2	243	70				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	302	70				68	72	No	33	35	No	--
ace, Sherman Oaks, CA 91403		SFR	2	292	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	269	70				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	239	70				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	247	70				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	251	70				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	234	70				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	279	70				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	226	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	228	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	256	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	231	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	225	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	220	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	235	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	222	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	223	70				69	72	No	34	35	No	--
erman Oaks, CA 91403		SFR	2	253	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	221	70				69	72	No	34	35	No	--
erman Oaks, CA 91403		SFR	2	239	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	225	70				69	72	No	34	35	No	--
erman Oaks, CA 91403		SFR	2	232	70				69	72	No	34	35	No	--
Sherman Oaks, CA 91403		SFR	2	228	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	370	70				67	72	No	32	35	No	--
erman Oaks, CA 91403		SFR	2	222	70				69	72	No	34	35	No	--
erman Oaks, CA 91403		SFR	2	212	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	322	70				68	72	No	33	35	No	--
erman Oaks, CA 91403		SFR	2	199	70				70	72	No	35	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	344	70				68	72	No	33	35	No	--
man Oaks, CA 91403		SFR	2	303	70				68	72	No	33	35	No	--
erman Oaks, CA 91403		SFR	2	195	70				70	72	No	35	35	**Yes**	High-re Faste
erman Oaks, CA 91403		SFR	2	226	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	287	70				68	72	No	33	35	No	--
man Oaks, CA 91403		SFR	2	320	70				68	72	No	33	35	No	--
man Oaks, CA 91403		SFR	2	315	70				68	72	No	33	35	No	--
man Oaks, CA 91403		SFR	2	271	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	293	70				68	72	No	33	35	No	--
man Oaks, CA 91403		SFR	2	262	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	278	70				68	72	No	33	35	No	--
man Oaks, CA 91403		SFR	2	322	70				68	72	No	33	35	No	--
man Oaks, CA 91403		SFR	2	262	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	278	70				68	72	No	33	35	No	--
man Oaks, CA 91403		SFR	2	298	70				68	72	No	33	35	No	--
man Oaks, CA 91403	**Mulholland Dr to North Tunnel Portal**	SFR	2	269	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	263	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	230	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	273	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	224	70				69	72	No	34	35	No	--
erman Oaks, CA 91403		SFR	2	221	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	274	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	214	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	268	70				69	72	No	34	35	No	--
erman Oaks, CA 91403		SFR	2	180	70				70	72	No	35	35	**Yes**	High-re Faste

cription	City Blocks	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Distance to Crossover Point		Behind Station Structure?	Calculated Adjusted Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Tre Mitiga
						<100'	100-200'								
rman Oaks, CA 91403		SFR	2	197	70				70	72	No	35	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	265	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	189	70				70	72	No	35	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	183	70				70	72	No	35	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	244	70				69	72	No	34	35	No	--
erman Oaks, CA 91403		SFR	2	203	70				70	72	No	35	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	168	70				70	72	No	35	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	156	70				71	72	No	36	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	155	70				71	72	No	36	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	187	70				70	72	No	35	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	150	70				71	72	No	36	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	147	70				71	72	No	36	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	131	70				71	72	No	36	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	151	70				71	72	No	36	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	223	70				69	72	No	34	35	No	--
man Oaks, CA 91403		SFR	2	116	70				72	72	**Yes**	37	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	152	70				71	72	No	36	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	150	70				71	72	No	36	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	106	70				72	72	**Yes**	37	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	122	70				71	72	No	36	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	92	70				72	72	**Yes**	37	35	**Yes**	High-re Faste
man Oaks, CA 91403		SFR	2	160	70				70	72	No	35	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	210	70				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	80	70				73	72	**Yes**	38	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	98	70				72	72	**Yes**	37	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	160	70				70	72	No	35	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	116	70				72	72	**Yes**	37	35	**Yes**	High-re Faste
rman Oaks, CA 91403		SFR	2	146	70				71	72	No	36	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	73	70				73	72	**Yes**	38	35	**Yes**	High-re Faste
rman Oaks, CA 91403		SFR	2	149	70				71	72	No	36	35	**Yes**	High-re Faste
herman Oaks, CA 91403		SFR	2	262	69				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	245	68				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	235	68				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	225	68				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	218	67				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	214	67				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	215	66				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	242	66				68	72	No	33	35	No	--
herman Oaks, CA 91403		SFR	2	233	66				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	218	70				69	72	No	34	35	No	--
an Nuys, CA 91403		SFR	2	220	70				69	72	No	34	35	No	--
an Nuys, CA 91403		SFR	2	223	65				69	72	No	34	35	No	--
herman Oaks, CA 91403		SFR	2	222	70				69	72	No	34	35	No	--

Attachment 12. Alternative 5: Off-Road Construction Equipment Noise Levels

Sepulveda Transit Corridor
Alternative 5
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box SOE	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Excavation	Cranes	2	83	20%	79	87
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Launch Box Concrete Work	Cranes	2	83	20%	79	86
	Generator Sets	2	82	50%	82	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Mobilization	Cranes	4	83	20%	82	86
	Generator Sets	2	82	40%	81	
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	2	77	40%	76	84
	Cranes	2	83	20%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Fill	Aerial Lifts	1	77	40%	73	81
	Air Compressors	1	80	50%	77	
	Rollers	1	85	20%	78	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	2	85	40%	84	
Segment 1-Reach 1 Tunnel (Southern Terminus to UCLA Stn)-Trackwork/Systems Installation	Aerial Lifts	1	77	40%	73	84
	Air Compressors	2	80	50%	80	
	Generator Sets	2	82	40%	81	
	Welders	3	73	40%	74	
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Mobilization	Cranes	4	83	50%	86	88
	Generator Sets	2	82	20%	78	
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	4	77	40%	79	87
	Cranes	4	83	20%	82	
	Rough Terrain Forklifts	4	80	40%	82	
	Tractors/Loaders/Backhoes	4	80	40%	82	
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-TBM Demobilization	Cranes	4	83	20%	82	86
	Generator Sets	2	82	40%	81	
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Fill	Aerial Lifts	1	77	40%	73	81
	Air Compressors	1	80	50%	77	
	Rollers	1	85	20%	78	
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	2	85	40%	84	
Segment 4-Reach 2 Tunnel (Sep-Vta Stn to UCLA Stn)-Trackwork/Systems Installation	Aerial Lifts	2	77	40%	76	86
	Air Compressors	2	80	50%	80	
	Generator Sets	2	82	50%	82	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box SOE	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Excavation	Cranes	2	83	20%	79	87
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Launch Box Concrete Work	Cranes	2	83	20%	79	86
	Generator Sets	2	82	50%	82	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Mobilization	Cranes	4	83	20%	82	86
	Generator Sets	2	82	40%	81	
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Tunneling/Precast Liners	Aerial Lifts	2	77	40%	76	84
	Cranes	2	83	20%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-TBM Demobilization	Cranes	4	83	20%	82	86
	Generator Sets	2	82	40%	81	
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Fill	Aerial Lifts	1	77	40%	73	81
	Air Compressors	1	80	50%	77	
	Rollers	1	85	20%	78	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Invert Slabs, Walkways, Plenum	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	2	85	40%	84	
Segment 5-Reach 3 Tunnel (Portal to Sep-Vta Stn)-Trackwork/Systems Installation	Aerial Lifts	2	77	40%	76	85
	Air Compressors	2	80	50%	80	
	Generator Sets	2	82	40%	81	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-Cut Cover Box Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box SOE	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-Cut-Cover Box Excavation	Cranes	2	83	20%	79	87
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-Cut-Cover Concrete Work	Cranes	2	83	50%	83	86
	Generator Sets	2	82	20%	78	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-Cut-Cover Trackwork/Systems Installation	Aerial Lifts	2	77	40%	76	83
	Generator Sets	2	82	20%	78	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	

Sepulveda Transit Corridor
Alternative 5
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Segment 6-Reach 3 Portal to MSF-AG-Foundation (CIDH)	Aerial Lifts	2	77	40%	76	91
	Bore/Drill Rigs	2	90	40%	89	
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rollers	2	85	20%	81	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-AG-Columns	Aerial Lifts	2	77	40%	76	84
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-AG-Bent Caps	Aerial Lifts	2	77	40%	76	84
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-AG-Assemble Gantry	Aerial Lifts	4	77	40%	79	85
	Cranes	4	83	20%	82	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-AG-Segmental Girders	Aerial Lifts	2	77	40%	76	87
	Cranes	4	83	20%	82	
	Excavators	2	85	40%	84	
	Other Construction Equipment	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-AG-Demob Gantry	Aerial Lifts	4	77	40%	79	85
	Cranes	4	83	20%	82	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 6-Reach 3 Portal to MSF-AG-Guideway Trackwork	Aerial Lifts	2	77	40%	76	86
	Air Compressors	2	80	50%	80	
	Generator Sets	2	82	40%	81	
	Skid Steer Loaders	2	80	40%	79	
	Welders	3	73	40%	74	
Segment 6-Reach 3 Portal to MSF-AG-Systems Installation	Air Compressors	2	80	50%	80	85
	Generator Sets	2	82	40%	81	
	Cranes	2	83	20%	79	
	Welders	2	73	40%	72	
Segment 6-Reach 3 Portal to MSF-Paving	Pavers	1	85	40%	81	85
	Paving Equipment	1	85	40%	81	
	Rollers	1	85	20%	78	
TBM Access Shaft/Staging Site-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
TBM Access Shaft/Staging Site-Shaft SOE	Bore/Drill Rigs	2	90	40%	89	91
	Cranes	2	83	40%	82	
	Pumps	2	77	40%	76	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
TBM Access Shaft/Staging Site-Shaft Excavation	Cranes	2	83	20%	79	87
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
TBM Access Shaft/Staging Site-Shaft Concrete Work	Cranes	2	83	20%	79	84
	Generator Sets	2	82	20%	78	
	Pumps	2	77	40%	76	
	Rough Terrain Forklifts	2	80	40%	79	
TBM Access Shaft/Staging Site-Staging Area TBM Support Activities	Aerial Lifts	2	77	40%	76	86
	Cranes	2	83	20%	79	
	Rough Terrain Forklifts	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	91
	Cranes	2	83	40%	82	
	Pumps	2	77	40%	76	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt5-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	83	20%	76	80
	Generator Sets	1	82	40%	78	
Metro E Line Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metro E Line Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	1	85	40%	81	
	Generator Sets	2	82	40%	81	
	Pumps	1	77	50%	74	
	Welders	2	73	40%	72	
Metro E Line Stn_U-Alt5-Paving/Arch Coatings	Aerial Lifts	1	77	40%	73	86
	Air Compressors	1	80	50%	77	
	Pavers	1	85	40%	81	
	Paving Equipment	1	85	40%	81	
	Rollers	1	85	20%	78	
Santa Monica Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Santa Monica Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Santa Monica Stn_U-Alt5-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Santa Monica Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	83	20%	76	80
	Generator Sets	1	82	40%	78	
Santa Monica Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Santa Monica Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	1	85	40%	81	
	Generator Sets	2	82	40%	81	
	Pumps	1	77	50%	74	
	Welders	2	73	40%	72	

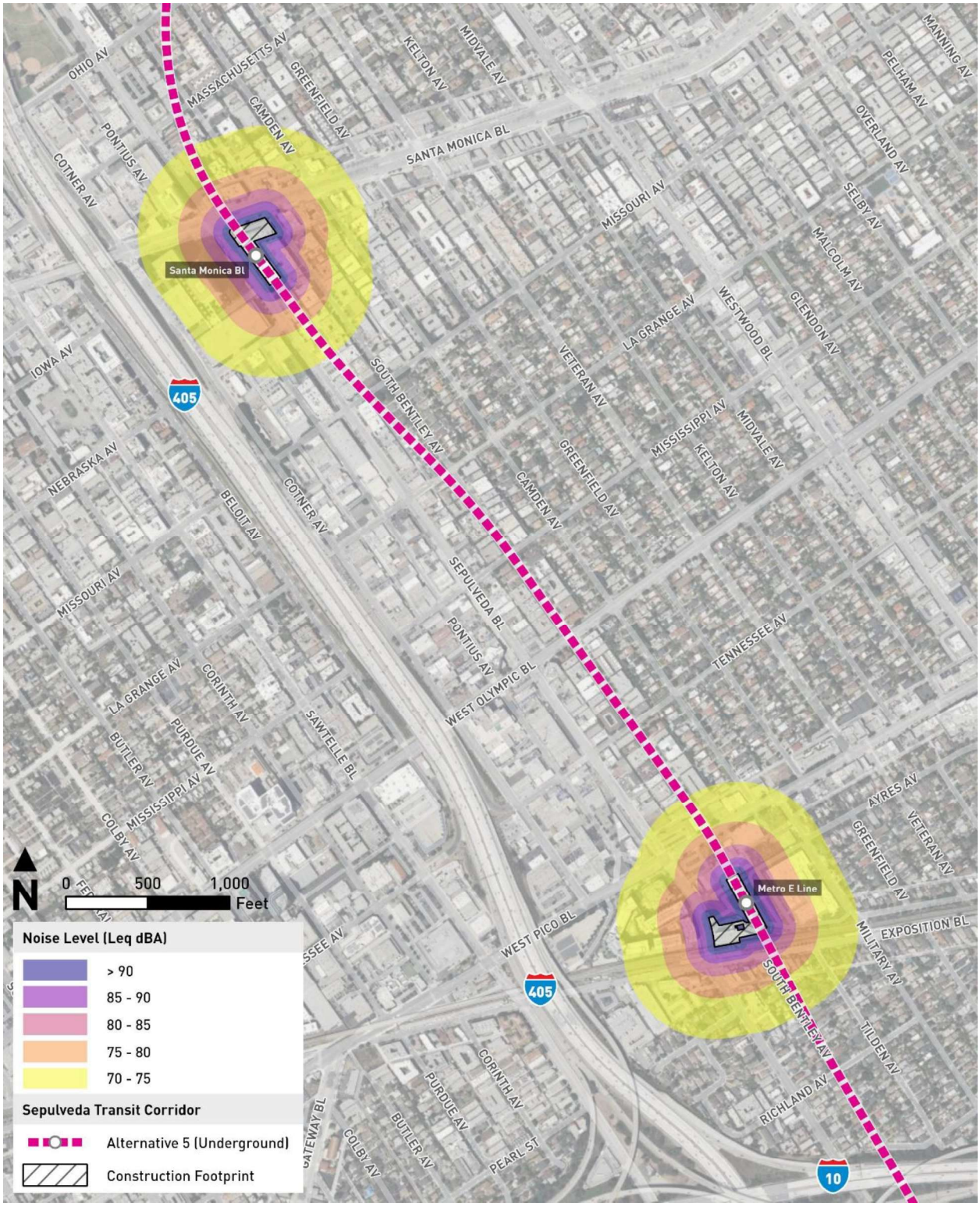
Sepulveda Transit Corridor
Alternative 5
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA	Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
D Line Wilshire-Westwood Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88	Ventura Blvd Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90
	Concrete/Industrial Saws	2	90	20%	86			Cranes	2	83	20%	79	
	Rough Terrain Forklifts	1	80	40%	76			Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79			Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79			Tractors/Loaders/Backhoes	2	80	40%	79	
D Line Wilshire-Westwood Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90	Ventura Blvd Stn_U-Alt5-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79			Cranes	2	83	20%	79	
	Pumps	2	77	50%	77			Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79			Tractors/Loaders/Backhoes	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79		Ventura Blvd Stn_U-Alt5-Box Concrete Work	Aerial Lifts	2	77	40%	76	88
D Line Wilshire-Westwood Stn_U-Alt5-Box Excavation	Aerial Lifts	2	77	40%	76	87		Cranes	2	83	20%	79	
	Cranes	2	83	20%	79			Excavators	2	85	40%	84	
	Excavators	2	85	40%	84			Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	40%	79			Skid Steer Loaders	2	80	40%	79	
D Line Wilshire-Westwood Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	83	20%	76	80		Tractors/Loaders/Backhoes	2	80	40%	79	
	Generator Sets	1	82	40%	78		Ventura Blvd Stn_U-Alt5-Structural Concrete	Aerial Lifts	2	77	40%	76	88
D Line Wilshire-Westwood Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	77	40%	76	88		Cranes	2	83	20%	79	
	Cranes	2	83	20%	79			Excavators	2	85	40%	84	
	Excavators	2	85	40%	84			Pumps	2	77	50%	77	
	Pumps	2	77	50%	77			Skid Steer Loaders	2	80	40%	79	
	Skid Steer Loaders	2	80	40%	79			Tractors/Loaders/Backhoes	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79		Ventura Blvd Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
D Line Wilshire-Westwood Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85		Cement and Mortar Mixers	1	85	40%	81	
	Cement and Mortar Mixers	1	85	40%	81			Generator Sets	2	82	40%	81	
	Generator Sets	2	82	40%	81			Pumps	1	77	50%	74	
	Pumps	1	77	50%	74			Welders	2	73	40%	72	
	Welders	2	73	40%	72		Ventura Blvd Stn_U-Alt5-Paving/Arch Coatings	Aerial Lifts	1	77	40%	73	86
UCLA Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88		Air Compressors	1	80	50%	77	
	Concrete/Industrial Saws	2	90	20%	86			Pavers	1	85	40%	81	
	Rough Terrain Forklifts	1	80	40%	76			Paving Equipment	1	85	40%	81	
	Skid Steer Loaders	2	80	40%	79			Rollers	1	85	20%	78	
	Tractors/Loaders/Backhoes	2	80	40%	79		Sepulveda-Metro G Line Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
UCLA Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90		Concrete/Industrial Saws	2	90	20%	86	
	Cranes	2	83	20%	79			Rough Terrain Forklifts	1	80	40%	76	
	Pumps	2	77	50%	77			Skid Steer Loaders	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79			Tractors/Loaders/Backhoes	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79		Sepulveda-Metro G Line Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90
UCLA Stn_U-Alt5-Box Excavation	Aerial Lifts	2	77	40%	76	87		Cranes	2	83	20%	79	
	Cranes	2	83	20%	79			Pumps	2	77	50%	77	
	Excavators	2	85	40%	84			Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79			Tractors/Loaders/Backhoes	2	80	40%	79	
UCLA Stn_U-Alt5-Structural Concrete Part 1	Aerial Lifts	2	77	40%	76	88	Sepulveda-Metro G Line Stn_U-Alt5-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79			Cranes	2	83	20%	79	
	Excavators	2	85	40%	84			Excavators	2	85	40%	84	
	Pumps	2	77	50%	77			Tractors/Loaders/Backhoes	2	80	40%	79	
	Skid Steer Loaders	2	80	40%	79		Sepulveda-Metro G Line Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	83	20%	76	80
	Tractors/Loaders/Backhoes	2	80	40%	79			Generator Sets	1	82	40%	78	
UCLA Stn_U-Alt5-Structural Concrete Part 2 (Post 2 TBM Walk-Thru)	Aerial Lifts	2	77	40%	76	88	Sepulveda-Metro G Line Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79			Cranes	2	83	20%	79	
	Excavators	2	85	40%	84			Excavators	2	85	40%	84	
	Pumps	2	77	50%	77			Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79			Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79			Tractors/Loaders/Backhoes	2	80	40%	79	
UCLA Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85	Sepulveda-Metro G Line Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	1	85	40%	81			Cement and Mortar Mixers	1	85	40%	81	
	Generator Sets	2	82	40%	81			Generator Sets	2	82	40%	81	
	Pumps	1	77	50%	74			Pumps	1	77	50%	74	
	Welders	2	73	40%	72			Welders	2	73	40%	72	
Ventura Blvd Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88	Sherman Way Stn_U-Alt5-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86			Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76			Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79			Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79			Tractors/Loaders/Backhoes	2	80	40%	79	

Sepulveda Transit Corridor
Alternative 5
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

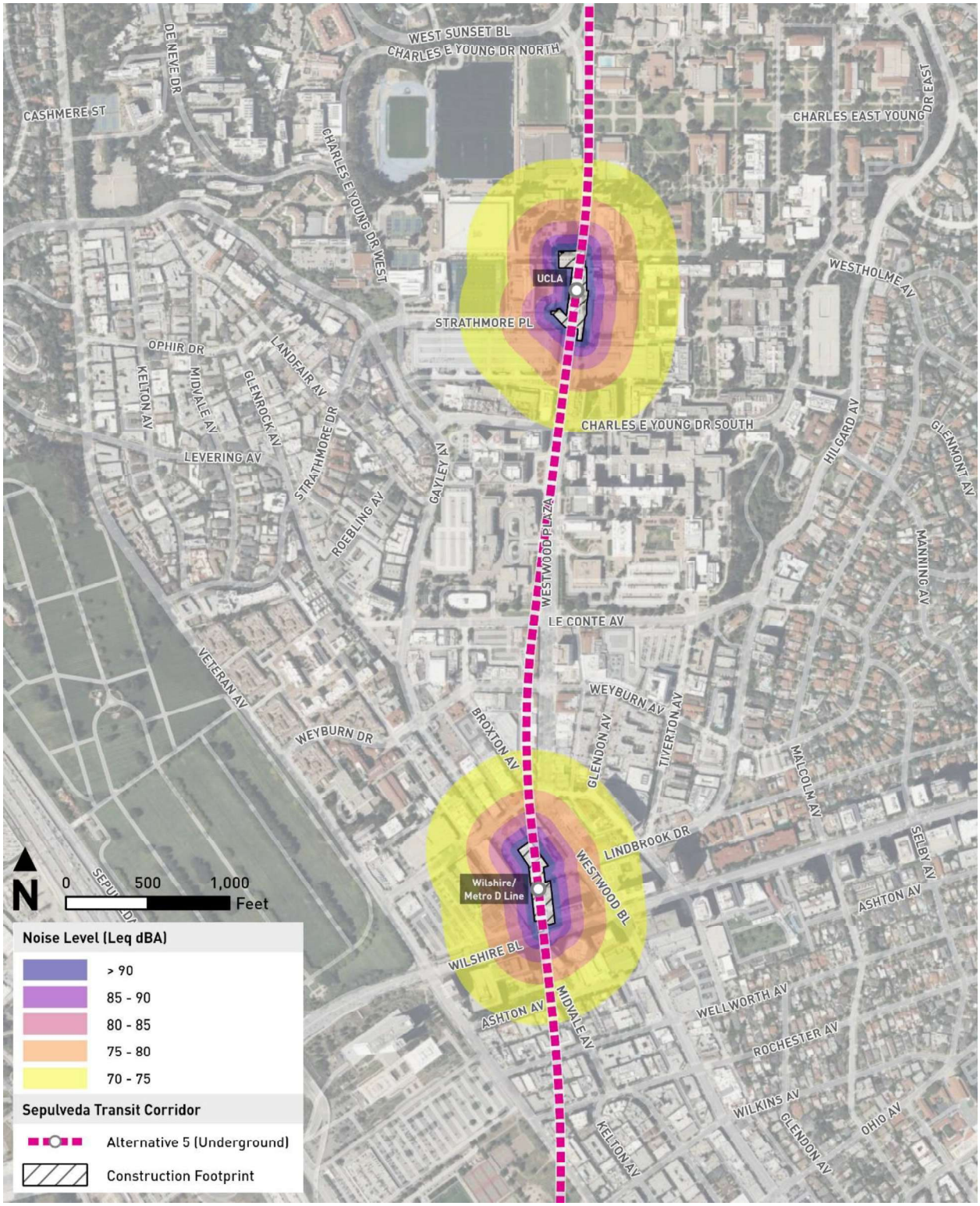
Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Sherman Way Stn_U-Alt5-Support of Excavation	Bore/Drill Rigs	2	90	40%	89	90
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Sherman Way Stn_U-Alt5-Box Excavation	Aerial Lifts	2	77	40%	76	87
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Sherman Way Stn_U-Alt5-TBM Pass Through-Maintenance	Cranes	1	83	20%	76	80
	Generator Sets	1	82	40%	78	
Sherman Way Stn_U-Alt5-Station Structural Concrete	Aerial Lifts	2	77	40%	76	88
	Cranes	2	83	20%	79	
	Excavators	2	85	40%	84	
	Pumps	2	77	50%	77	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Sherman Way Stn_U-Alt5-Fit Out and Completion	Aerial Lifts	2	77	40%	76	85
	Cement and Mortar Mixers	1	85	40%	81	
	Generator Sets	2	82	40%	81	
	Pumps	1	77	50%	74	
	Welders	2	73	40%	72	
Sherman Way Stn_U-Alt5-Paving/Arch Coatings	Aerial Lifts	1	77	40%	73	86
	Air Compressors	1	80	50%	77	
	Pavers	1	85	40%	81	
	Paving Equipment	1	85	40%	81	
	Rollers	1	85	20%	78	
Metrolink Van Nuys Stn_A-Alt5-Demolition/Site Preparation	Air Compressors	1	80	50%	77	88
	Concrete/Industrial Saws	2	90	20%	86	
	Rough Terrain Forklifts	1	80	40%	76	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metrolink Van Nuys Stn_A-Alt5-Foundations and Columns	Bore/Drill Rigs	2	90	40%	89	91
	Cranes	3	83	20%	81	
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
Metrolink Van Nuys Stn_A-Alt5-Bent Cap Installation	Aerial Lifts	4	77	40%	79	86
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Metrolink Van Nuys Stn_A-Alt5-Girder Installation/Station Fit Out	Aerial Lifts	4	77	40%	79	88
	Air Compressors	4	80	50%	83	
	Cranes	4	83	20%	82	
	Other Construction Equipment	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Metrolink Van Nuys Stn_A-Alt5-Paving/Arch Coatings	Aerial Lifts	1	77	40%	73	86
	Air Compressors	1	80	50%	77	
	Pavers	1	85	40%	81	
	Paving Equipment	1	85	40%	81	
	Rollers	1	85	20%	78	
TPSS 11-Sta 1260-Site Preparation-Traction Power Utils	Trenchers	1	80	20%	73	80
	Skid Steer Loaders	1	80	40%	76	
	Tractors/Loaders/Backhoes	1	80	40%	76	
TPSS 11-Sta 1260-Grounding-Foundations	Cranes	1	83	20%	76	80
	Pumps	1	77	50%	74	
	Tractors/Loaders/Backhoes	1	80	40%	76	
TPSS 11-Sta 1260-TPSS Installation	Aerial Lifts	1	77	40%	73	80
	Cranes	1	83	20%	76	
	Rough Terrain Forklifts	1	80	40%	76	
	Welders	1	73	40%	69	
TPSS 11-Sta 1260-Site Restoration	Air Compressors	1	80	50%	77	82
	Generator Sets	1	82	40%	78	
	Skid Steer Loaders	1	80	40%	76	
MSF-Demolition	Concrete/Industrial Saws	1	90	20%	83	89
	Excavators	3	85	40%	86	
	Rubber Tired Dozers	2	85	40%	84	
MSF-Site Preparation	Rubber Tired Dozers	3	85	40%	86	87
	Tractors/Loaders/Backhoes	4	80	40%	82	
MSF-Grading	Excavators	2	85	40%	84	89
	Graders	1	85	40%	81	
	Rubber Tired Dozers	1	85	40%	81	
	Scrapers	2	85	40%	84	
	Tractors/Loaders/Backhoes	2	80	40%	79	
MSF-Building Construction	Cranes	1	83	20%	76	84
	Forklifts	3	75	40%	76	
	Generator Sets	1	82	40%	78	
	Tractors/Loaders/Backhoes	3	80	40%	81	
	Welders	1	73	40%	69	
MSF-Paving	Pavers	2	85	40%	84	88
	Paving Equipment	2	85	40%	84	
	Rollers	2	85	20%	81	
MSF-Archictectural Coating	Air Compressors	1	80	50%	77	77
MSF-Test Track	Aerial Lifts	2	77	40%	76	81
	Rough Terrain Forklifts	2	80	40%	79	
	Welders	2	73	40%	72	
Precast Yard-Alt 5 Concrete Activity	Cranes	2	83	20%	79	89
	Cement and Mortar Mixers	2	85	40%	84	
	Generator Sets	2	82	40%	81	
	Other General Industrial Equipment	1	80	40%	76	
	Pumps	2	77	50%	77	
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
NCZ Staging Area-Staging Activity	Cranes	1	83	20%	76	85
	Rough Terrain Forklifts	2	80	40%	79	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	
SCZ Staging Area-Staging Activity	Cranes	1	83	20%	76	85
	Rough Terrain Forklifts	2	80	40%	79	
	Skid Steer Loaders	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	

Figure L-1. Alternative 5: Construction Equipment Noise Contours – View 1



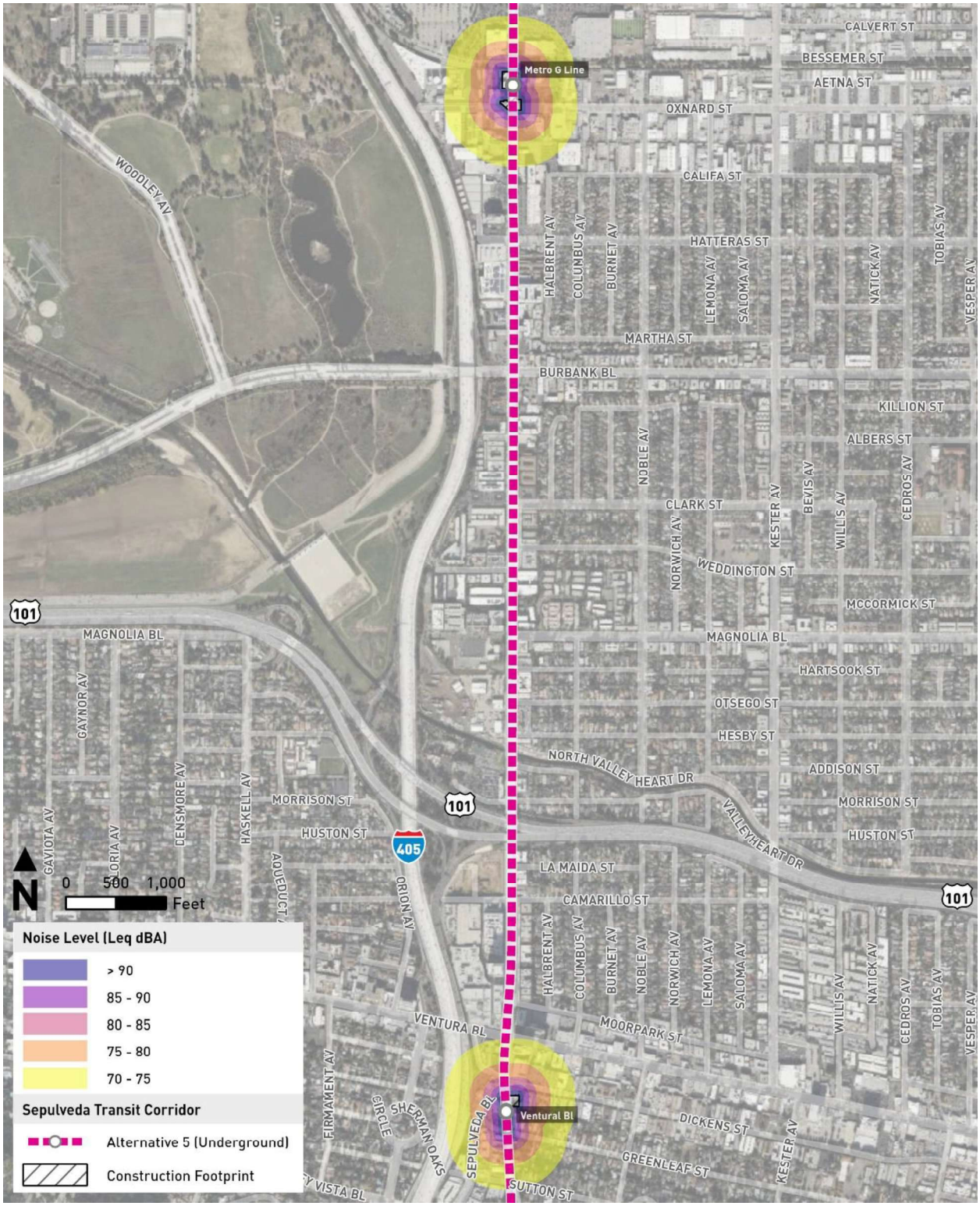
Source: HTA, 2024

Figure L-2. Alternative 5: Construction Equipment Noise Contours – View 2



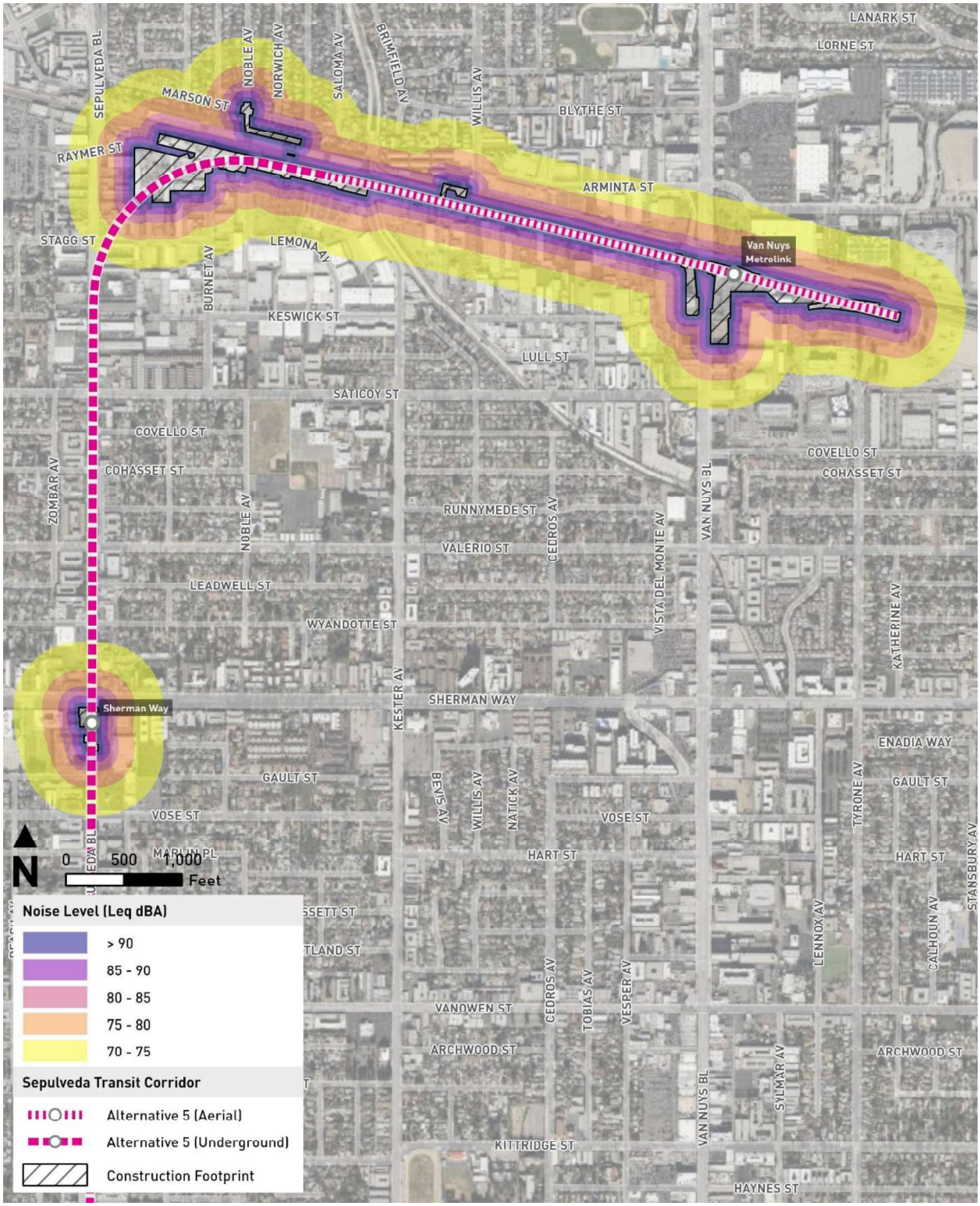
Source: HTA, 2024

Figure L-3. Alternative 5: Construction Equipment Noise Contours – View 3



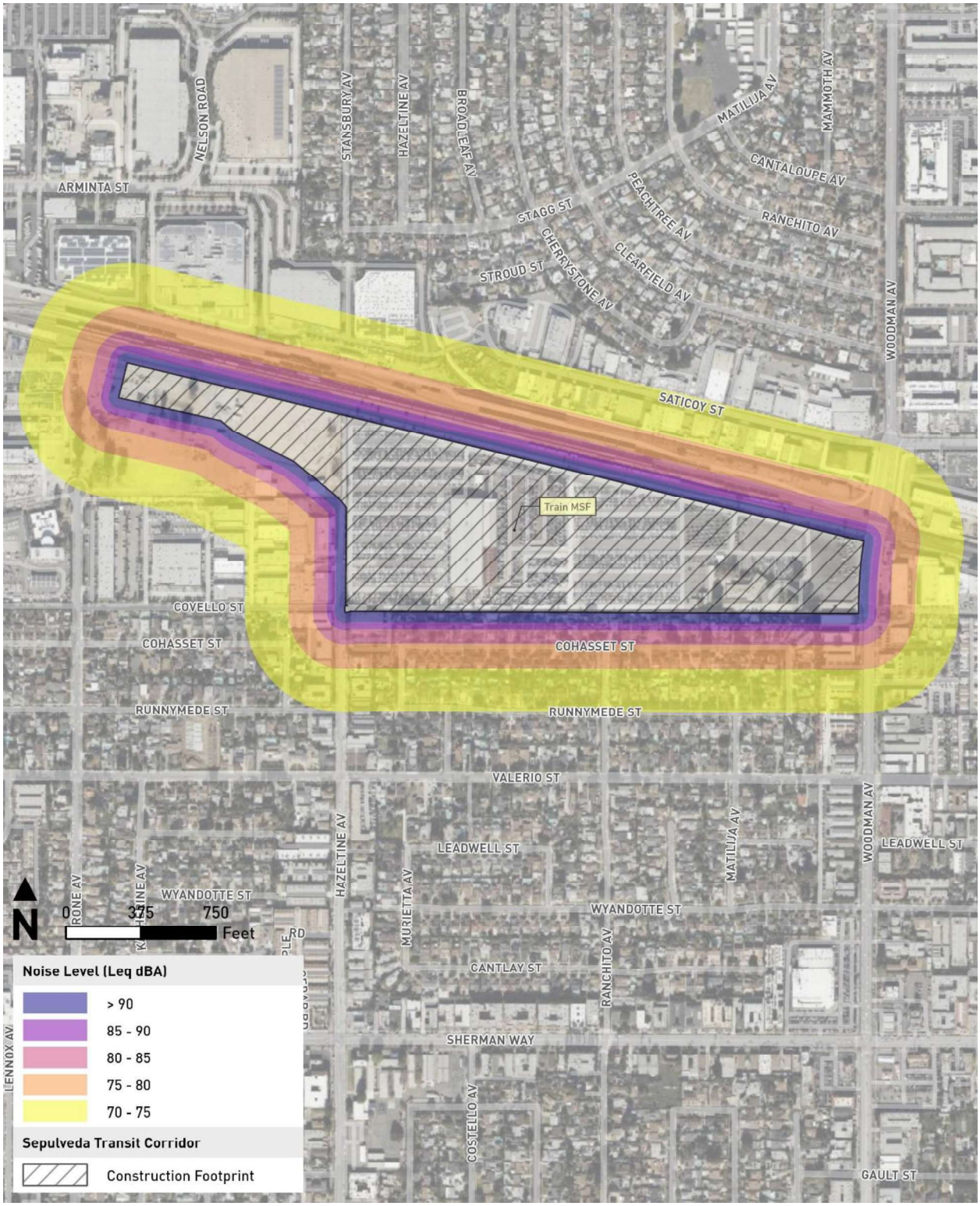
Source: HTA, 2024

Figure L-4. Alternative 5: Construction Equipment Noise Contours – View 4



Source: HTA, 2024

Figure L-5. Alternative 5: Construction Equipment Noise Contours – Proposed MSF



Source: HTA, 2024

Attachment 13. Alternative 5: Groundborne Vibration and Noise Impact Locations and Mitigation

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
geles, CA 90064		MFR	2	169	90.7	192	10	53				53	72	No	18	35	No	--
Angeles, CA 90064		Medical Bldg	3	41	87.0	96	10	55				55	75	No	20	40	No	--
eles, CA 90064		SFR	2	82	84.6	118	10	55				55	72	No	20	35	No	--
eles, CA 90064		SFR	2	54	84.8	101	10	55				55	72	No	20	35	No	--
eles, CA 90064		SFR	2	72	83.7	111	10	55				55	72	No	20	35	No	--
LA Campus Angeles, CA 90064		Institutional/ Day Care	3	85	84.4	120	10	55				55	75	No	20	40	No	--
eles, CA 90064		SFR	2	28	83.2	88	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	189	82.0	206	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	44	82.8	94	10	56				56	72	No	21	35	No	--
Angeles, CA 90064		MFR	2	9	81.7	82	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	23	81.9	85	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	41	81.7	91	10	56				56	72	No	21	35	No	--
Angeles, CA 90064		MFR	2	26	81.5	85	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	21	81.1	84	10	56				56	72	No	21	35	No	--
Angeles, CA 90064		MFR	2	27	80.8	85	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	165	81.4	184	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	15	80.4	82	10	56				56	72	No	21	35	No	--
Angeles, CA 90064		MFR	2	35	79.9	87	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	22	80.0	83	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	16	80.1	82	10	56				56	72	No	21	35	No	--
Angeles, CA 90064		MFR	2	39	79.1	88	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	13	79.3	80	10	56				56	72	No	21	35	No	--
eles, CA 90064	National Blvd to I-10	SFR	2	155	79.8	174	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	0	79.9	80	10	56				56	72	No	21	35	No	--
Angeles, CA 90064		MFR	2	68	78.3	104	10	55				55	72	No	20	35	No	--
eles, CA 90064		SFR	2	0	78.9	79	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	124	78.7	147	10	54				54	72	No	19	35	No	--
Angeles, CA 90064		MFR	2	49	78.4	92	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	0	78.7	79	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	117	78.4	141	10	54				54	72	No	19	35	No	--
eles, CA 90064		MFR	2	0	78.1	78	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	114	77.6	138	10	54				54	72	No	19	35	No	--
Angeles, CA 90064		MFR	2	64	76.8	100	10	55				55	72	No	20	35	No	--
eles, CA 90064		SFR	2	0	76.5	77	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	0	75.6	76	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	0	76.0	76	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	100	78.3	127	10	54				54	72	No	19	35	No	--
eles, CA 90064		SFR	2	101	76.2	127	10	54				54	72	No	19	35	No	--
Angeles, CA 90064		MFR	2	74	75.3	106	10	55				55	72	No	20	35	No	--
eles, CA 90064		SFR	2	0	75.4	75	10	56				56	72	No	21	35	No	--
s, CA 90064		SFR	2	205	76.5	219	10	52				52	72	No	17	35	No	--
eles, CA 90064		SFR	2	104	75.1	128	10	54				54	72	No	19	35	No	--
Angeles, CA 90064		MFR	2	105	75.1	129	10	54				54	72	No	19	35	No	--
eles, CA 90064		SFR	2	0	75.47	75	10	56				56	72	No	21	35	No	--
Angeles, CA 90064		MFR	2	115	74.1	136	10	54				54	72	No	19	35	No	--
eles, CA 90064		SFR	2	0	74.9	75	10	56				56	72	No	21	35	No	--
eles, CA 90064		MFR	2	116	74.9	138	10	54				54	72	No	19	35	No	--
s, CA 90064		SFR	2	200	70.5	212	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	0	70.3	70	10	57				57	72	No	22	35	No	--
Angeles, CA 90064		MFR	2	112	69.9	132	10	54				54	72	No	19	35	No	--
Angeles, CA 90064		SFR	2	84	71.1	110	10	55				55	72	No	20	35	No	--
eles, CA 90064		SFR	2	73	69.9	101	10	55				55	72	No	20	35	No	--
eles, CA 90064		SFR	2	60	69.9	92	10	56				56	72	No	21	35	No	--
s, CA 90064		SFR	2	190	69.7	202	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	52	69.6	87	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	15	69.6	71	10	57				57	72	No	22	35	No	--
Angeles, CA 90064		SFR	2	155	68.8	169	10	53				53	72	No	18	35	No	--
s, CA 90064		SFR	2	198	68.6	209	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	23	68.6	72	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	51	68.8	86	10	56				56	72	No	21	35	No	--
Angeles, CA 90064		SFR	2	163	67.5	176	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	40	67.6	79	10	56				56	72	No	21	35	No	--
geles, CA 90064	I-10 to Exposition Blvd	MFR	2	128	67.6	144	10	54				54	72	No	19	35	No	--
eles, CA 90064		SFR	2	40	68.2	79	10	56				56	72	No	21	35	No	--
s, CA 90064		SFR	2	186	68.2	198	10	53				53	72	No	18	35	No	--
Angeles, CA 90064		SFR	2	156	66.9	170	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	30	68.0	74	10	56				56	72	No	21	35	No	--
eles, CA 90064		SFR	2	54	67.8	87	10	56				56	72	No	21	35	No	--
s, CA 90064		SFR	2	160	66.8	174	10	53				53	72	No	18	35	No	--
nn & Suites Angeles, CA 90064		Hotel	2	192	66.0	203	10	53				53	72	No	18	35	No	--
eles, CA 90064		SFR	2	0	67.7	68	10	57	Y			67	72	No	32	35	No	--
eles, CA 90064		SFR	2	83	68.5	108	10	55	Y			65	72	No	30	35	No	--
Angeles, CA 90064		SFR	2	0	67.2	67	10	57	Y			67	72	No	32	35	No	--

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
Angeles, CA 90064	Metro E-Line/Sepulveda Station to Olympic Blvd	Research Laboratory	1	215	72.3	227	28	61			Y	56	65	No	21	25	No	--
eles, CA 90064		SFR	2	166	77.4	183	45	66				66	72	No	31	35	No	--
eles, CA 90064		MFR	2	18	77.1	79	45	69				69	72	No	34	35	No	--
eles, CA 90064		MFR	2	49	74.9	89	41	68		Y		73	72	**Yes**	38	35	**Yes**	High-resilient Fasteners
eles, CA 90064		MFR	2	14	76.9	78	45	69		Y		74	72	**Yes**	39	35	**Yes**	High-resilient Fasteners
Angeles, CA 90064		Animal Hospital	1	139	77.6	160	45	67		Y		72	65	**Yes**	37	25	**Yes**	Resiliently Supported Tie
eles, CA 90064		MFR	2	49	75.9	91	44	68	Y			78	72	**Yes**	43	35	**Yes**	Resiliently Supported Tie
eles, CA 90064		MFR	2	14	75.9	77	45	69	Y			79	72	**Yes**	44	35	**Yes**	Resiliently Supported Tie
eles, CA 90064		SFR	2	56	74.1	93	45	69		Y		74	72	**Yes**	39	35	**Yes**	High-resilient Fasteners
eles, CA 90064		SFR	2	200	75.9	214	45	66				66	72	No	31	35	No	--
ngeles, CA 90064		MFR	2	18	73.4	76	53	71	Y			81	72	**Yes**	46	35	**Yes**	Resiliently Supported Tie
eles, CA 90064		MFR	2	18	75.8	78	55	71	Y			81	72	**Yes**	46	35	**Yes**	Resiliently Supported Tie
eles, CA 90064		SFR	2	164	75.6	181	46	66		Y		71	72	No	36	35	**Yes**	High-resilient Fasteners
ngeles, CA 90064		MFR	2	51	73.3	89	47	69		Y		74	72	**Yes**	39	35	**Yes**	High-resilient Fasteners
eles, CA 90064		SFR	2	174	72.8	189	49	67				67	72	No	32	35	No	--
eles, CA 90064		SFR	2	198	71.6	210	52	67				67	72	No	32	35	No	--
eles, CA 90064		MFR	2	47	74.2	88	50	70				70	72	No	35	35	**Yes**	High-resilient Fasteners
eles, CA 90064		MFR	2	17	72.0	74	64	72				72	72	**Yes**	37	35	**Yes**	High-resilient Fasteners
eles, CA 90064		--	--	31	73.3	79	68	73				73	--	No	38	35	**Yes**	High-resilient Fasteners
Angeles, CA 90064		MFR	2	53	70.9	89	53	70				70	72	No	35	35	**Yes**	High-resilient Fasteners
eles, CA 90025	Olympic Blvd to Santa Monica Blvd Station	MFR	2	47	69.9	84	54	71				71	72	No	36	35	**Yes**	High-resilient Fasteners
eles, CA 90025		MFR	2	19	69.5	72	70	73				73	72	**Yes**	38	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	170	71.6	184	54	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	19	70.9	73	70	73				73	72	**Yes**	38	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	163	71.3	178	57	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	22	68.9	72	70	73				73	72	**Yes**	38	35	**Yes**	High-resilient Fasteners
eles, CA 90025		MFR	2	47	70.9	85	58	71				71	72	No	36	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	199	70.5	211	58	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	19	69.1	72	68	73				73	72	**Yes**	38	35	**Yes**	High-resilient Fasteners
eles, CA 90025		MFR	2	50	69.6	86	59	71				71	72	No	36	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	219	70.4	230	59	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	64	69.7	95	60	71				71	72	No	36	35	**Yes**	High-resilient Fasteners
eles, CA 90025		MFR	2	8	67.2	68	60	72				72	72	**Yes**	37	35	**Yes**	High-resilient Fasteners
eles, CA 90025		MFR	2	63	69.0	93	67	72				72	72	**Yes**	37	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	189	69.1	202	60	68				68	72	No	33	35	No	--
es, CA 90025		MFR	2	87	68.3	110	61	71				71	72	No	36	35	**Yes**	High-resilient Fasteners
eles, CA 90025		MFR	2	0	67.2	67	63	73				73	72	**Yes**	38	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	0	67.2	67	61	72				72	72	**Yes**	37	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	109	67.7	128	62	70				70	72	No	35	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	0	66.9	67	56	72				72	72	**Yes**	37	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	158	67.3	172	63	69				69	72	No	34	35	No	--
eles, CA 90025		SFR	2	174	66.3	186	64	69				69	72	No	34	35	No	--
al Angeles, CA 90025		Animal Hospital	1	5	67.7	68	50	71				71	65	**Yes**	36	25	**Yes**	Resiliently Supported Tie
eles, CA 90025		SFR	2	13	67.8	69	64	73				73	72	**Yes**	38	35	**Yes**	High-resilient Fasteners
eles, CA 90025		SFR	2	191	69.9	203	64	69				69	72	No	34	35	No	
geles, CA 90025		MFR	2	10	69.5	70	61	72				72	72	**Yes**	37	35	**Yes**	High-resilient Fasteners
geles, CA 90025		MFR	2	207	71.6	219	62	68				68	72	No	33	35	No	
eles, CA 90025		MFR	2	21	71.2	74	59	72				72	72	**Yes**	37	35	**Yes**	High-resilient Fasteners

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
eles, CA 90025		MFR	2	59	77.7	98	44	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	62	81.2	102	36	66			Y	61	72	No	26	35	No	--
eles, CA 90025		MFR	2	64	81.4	104	24	63			Y	58	72	No	23	35	No	--
D STATION																		
eles, CA 90025		MFR	2	57	87.7	105	36	66				66	72	No	31	35	No	--
Angeles, CA 90025		Theater	2	0	88.5	89	40	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	95	88.5	130	38	66				66	72	No	31	35	No	--
eles, CA 90025		MFR	2	192	90.9	213	40	65				65	72	No	30	35	No	--
eles, CA 90025		MFR	2	0	91.9	92	40	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	10	90.0	91	40	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	0	91.7	92	40	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	149	91.5	175	40	65				65	72	No	30	35	No	--
eles, CA 90025		MFR	2	0	93.4	93	40	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	0	93.1	93	40	68				68	72	No	33	35	No	--
os Angeles, CA 90025		MFR	2	86	93.1	127	40	66				66	72	No	31	35	No	--
eles, CA 90025		MFR	2	68	94.9	117	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	31	94.9	100	40	67				67	72	No	32	35	No	--
s Angeles, CA 90025		MFR	2	60	94.8	112	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	23	96.6	99	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	0	94.5	95	40	68				68	72	No	33	35	No	--
eles, CA 90025		MFR	2	101	96.5	140	40	66				66	72	No	31	35	No	--
eles, CA 90025		MFR	2	126	96.4	159	40	66				66	72	No	31	35	No	--
eles, CA 90025		MFR	2	104	96.3	142	40	66				66	72	No	31	35	No	--
eles, CA 90025		MFR	2	54	96.1	110	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	0	97.9	98	40	67				67	72	No	32	35	No	--
eles, CA 90025	Santa Monica Blvd Station to Veteran Ave	MFR	2	63	99.7	118	40	67				67	72	No	32	35	No	--
s, CA 90025		MFR	2	0	99.6	100	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	91	100.6	136	40	66				66	72	No	31	35	No	--
eles, CA 90025		MFR	2	127	101.5	163	40	66				66	72	No	31	35	No	--
eles, CA 90025		MFR	2	145	99.5	175	40	65				65	72	No	30	35	No	--
eles, CA 90025		MFR	2	0	99.3	99	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	23	99.3	102	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	54	101.2	114	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	3	101.0	101	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	0	102.8	103	40	67				67	72	No	32	35	No	--
ngeles, CA 90025		MFR	2	166	100.8	194	40	65				65	72	No	30	35	No	--
eles, CA 90025		MFR	2	183	103.7	211	40	65				65	72	No	30	35	No	--
ngeles, CA 90025		MFR	2	153	100.6	183	40	65				65	72	No	30	35	No	--
ngeles, CA 90025		MFR	2	78	100.6	127	40	66				66	72	No	31	35	No	--
eles, CA 90025		MFR	2	0	102.6	103	40	67				67	72	No	32	35	No	--
ngeles, CA 90025		MFR	2	47	102.5	113	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	0	102.4	102	41	68				68	72	No	33	35	No	--
ngeles, CA 90025		MFR	2	0	102.3	102	40	67				67	72	No	32	35	No	--
eles, CA 90025		MFR	2	34	102.3	108	42	68				68	72	No	33	35	No	--
ngeles, CA 90025		MFR	2	0	102.2	102	44	68				68	72	No	33	35	No	--
ngeles, CA 90025		MFR	2	121	103.8	159	40	66				66	72	No	31	35	No	--
ngeles, CA 90025		MFR	2	54	103.7	117	40	67				67	72	No	32	35	No	--
les, CA 90024		MFR	2	190	105.5	218	43	65				65	72	No	30	35	No	--
les, CA 90024		MFR	2	177	106.5	207	49	67				67	72	No	32	35	No	--
les, CA 90024		MFR	2	116	108.2	159	51	68				68	72	No	33	35	No	--
les, CA 90024		MFR	2	0	109.8	110	53	69				69	72	No	34	35	No	--
s, CA 90024		MFR	2	146	108.8	182	53	68				68	72	No	33	35	No	--
s, CA 90024		MFR	2	122	110.6	165	54	68				68	72	No	33	35	No	--
ngeles, CA 90024		MFR	2	0	110.6	111	56	69				69	72	No	34	35	No	--
ngeles, CA 90024		MFR	2	66	111.3	129	56	69				69	72	No	34	35	No	--
ngeles, CA 90024		MFR	2	0	113.1	113	53	69				69	72	No	34	35	No	--
Los Angeles, CA 90024		MFR	2	0	113.9	114	57	69				69	72	No	34	35	No	--
ngeles, CA 90024		MFR	2	165	116.8	202	51	67				67	72	No	32	35	No	--
ngeles, CA 90024		MFR	2	107	116.8	158	51	68				68	72	No	33	35	No	--
ngeles, CA 90024	Veteran Ave to Metro D-Line/Wilshire/Westwood Station	MFR	2	85	113.7	142	58	69				69	72	No	34	35	No	--
ngeles, CA 90024		MFR	2	134	112.7	175	58	69				69	72	No	34	35	No	--
ngeles, CA 90024		MFR	2	0	116.6	117	58	69				69	72	No	34	35	No	--
ngeles, CA 90024		MFR	2	21	114.4	116	58	69				69	72	No	34	35	No	--
ngeles, CA 90024		MFR	2	88	116.3	146	58	69				69	72	No	34	35	No	--
ngeles, CA 90024		MFR	2	48	118.1	127	47	68				68	72	No	33	35	No	--
ngeles, CA 90024		MFR	2	0	116.0	116	57	69				69	72	No	34	35	No	--
les, CA 90024		MFR	2	175	121.8	213	45	66				66	72	No	31	35	No	--
les, CA 90024		MFR	2	70	121.8	140	44	67		Y		72	72	**Yes**	37	35	**Yes**	Spring Frog
les, CA 90024		MFR	2	0	117.6	118	53	69		Y		74	72	**Yes**	39	35	**Yes**	Spring Frog
les, CA 90024		MFR	2	15	117.4	118	52	69		Y		74	72	**Yes**	39	35	**Yes**	Spring Frog
les, CA 90024		MFR	2	150	117.3	191	51	67		Y		72	72	**Yes**	37	35	**Yes**	Spring Frog
geles, CA 90024		Medical Bldg	3	69	127.9	145	31	64			Y	59	75	No	24	35	No	--
WESTWOOD STATION																		
		Institutional	3	107	135.1	172	20	59			Y	54	75	No	19	35	No	--

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
eles, CA 90024	Metro D Line/Wilshire/Westwood Station to Le Conte Ave	Recording Studio	Special Bldg	430	140.4	452	36	61				61	65	No	26	25	**Yes**	High-resilien Fasteners
eles, CA 90024		Video Production	Special Bldg	430	140.4	452	36	61				61	65	No	26	25	**Yes**	High-resilien Fasteners
es, CA 90024		Movie Theater	2	196	131.2	236	57	67				67	72	No	32	35	No	--
eles, CA 90024		Video Production	Special Bldg	480	138.3	500	43	62				62	65	No	27	25	**Yes**	High-resilien Fasteners
ngeles, CA 90024		Institutional	3	0	131.4	131	56	69				69	75	No	34	40	No	--
, Los Angeles, CA 90024		SPA	3	0	116.8	117	61	70				70	75	No	35	40	No	--
Center ngeles, CA 90024		Institutional	3	165	124.5	207	46	66				66	75	No	31	40	No	--
geles, CA 90024		Institutional	3	49	122.3	132	67	71				71	75	No	36	40	No	--
ns & Review geles, CA 90024		Institutional	3	0	116.9	117	70	72				72	75	No	37	40	No	--
geles, CA 90024		Theater	Special Bldg	277	122.2	303	49	65				65	72	No	30	35	No	--
veway, Los Angeles, CA 90095	Le Conte Ave to UCLA Station	Medical Bldg	1	48	115.4	125	68	71				71	65	**Yes**	36	25	**Yes**	Resiliently Supported Tie
os Angeles, CA 90024		Medical Bldg	1	190	107.8	218	52	67				67	65	**Yes**	32	25	**Yes**	Resiliently Supported Tie
				209	107.8	235	65	68				68	65	**Yes**	33	25	**Yes**	Resiliently Supported Tie
an Medical Building , Los Angeles, CA 90024		Medical Bldg	1	35	106.3	112	63	71				71	65	**Yes**	36	25	**Yes**	Floating Slab
stics Division Plaza Driveway, Los Angeles, CA		Medical Bldg	1	87	105.2	137	53	69				69	65	**Yes**	34	25	**Yes**	Resiliently Supported Tie
uroscience and Human Behavior ngeles, CA 90024		Institutional	1	92	97.2	134	54	69				69	65	**Yes**	34	25	**Yes**	Resiliently Supported Tie
Center ngeles, CA 90095		Institutional/ Research	1	59	97.4	114	55	70				70	65	**Yes**	35	25	**Yes**	Resiliently Supported Tie
al Building ngeles, CA 90095		Medical Bldg	1	49	88.6	101	51	69				69	65	**Yes**	34	25	**Yes**	Resiliently Supported Tie
ch Institute UCLA os Angeles, CA 90095		Institutional/ Research	1	51	96.3	109	47	68		Y		73	65	**Yes**	38	25	**Yes**	Floating Slab
kin Conference Center ngeles, CA 90095		Lodging/ Conference	2	157	107.9	190	10	53			Y	48	72	No	13	35	No	--
gineering ngeles, CA 90095		Institutional/ Research	1	99	107.5	146	23	61			Y	56	65	No	21	25	No	--
ngeles, CA 90095	UCLA Station to Sunset Blvd	Institutional/ Research	1	40	108.8	116	10	55			Y	50	65	No	15	25	No	--
es, CA 90095		Laboratory	1	417	142.3	441	20	56			Y	51	65	No	16	25	No	--
ngeles, CA 90024		Institutional	3	54	112.75	125	33	65				65	75	No	30	40	No	--
ter ngeles, CA 90095		Institutional	3	37	118.77	124	44	67				67	75	No	32	40	No	--
nd Cultures/Dance ngeles, CA 90077		Institutional	3	43	121.27	129	50	68				68	75	No	33	40	No	--
Executive Education ngeles, CA 90095		Institutional	3	0	121.6	122	70	71	1675			71	75	No	36	40	No	--
anagement ngeles, CA 90095		Institutional	3	155	119.4	196	56	68				68	75	No	33	40	No	--
eles, CA 90077		High School	3	143	122.0	188	70	70				70	75	No	35	40	No	--
os Angeles, CA 90095		Elementary School	3	37	111.4	118	58	70				70	75	No	35	40	No	--
os Angeles, CA 90095		Day Care	3	33	107.7	113	59	70				70	75	No	35	40	No	--
onson , CA 90077	Sunset Blvd to Bellagio Rd	Historic Landmark	2	54	121.2	133	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
, CA 90077		SFR	2	0	105.7	106	61	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
, CA 90077		SFR	2	34	143.9	148	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
, CA 90077		SFR	2	0	147.1	147	61	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
les, CA 90077 (Tennis Courts)		SFR	2	0	167.4	167	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
les, CA 90077		SFR	2	0	184.7	185	70	70				70	72	No	35	35	**Yes**	High-resilien

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
les, CA 90077	Bellagio Rd to Somma Way	SFR	2	118	96.3	152	64	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
ngeles, CA 90077		SFR	2	12	95.1	96	64	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
ngeles, CA 90077		SFR	2	86	93.6	127	64	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
ngeles, CA 90077		SFR	2	25	93.6	97	64	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
es, CA 90077	Bellagio Rd to Somma Way	SFR	2	104	95.1	141	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
ngeles, CA 90077		SFR	2	37	89.9	97	64	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
es, CA 90077		SFR	2	26	89.8	94	64	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
es, CA 90077		SFR	2	222	173.29	282	70	68				68	72	No	33	35	No	--
ngeles, CA 90077		Hotel	2	0	133.97	134	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
es, CA 90077		SFR	2	165	222.4	277	70	69				69	72	No	34	35	No	--
eles, CA 90077		SFR	2	47	129.1	137	65	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
eles, CA 90077		SFR	2	92	260.2	276	65	68				68	72	No	33	35	No	--
eles, CA 90077		SFR	2	171	308.3	352	70	68				68	72	No	33	35	No	--
eles, CA 90077		SFR	2	0	101.0	101	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
eles, CA 90077		SFR	2	50	137.2	146	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
eles, CA 90077		SFR	2	65	97.2	117	65	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
eles, CA 90077	Somma Way to Stone Canyon Rd	SFR	2	174	88.6	195	65	69				69	72	No	34	35	No	--
eles, CA 90077		SFR	2	76	97.3	123	65	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
eles, CA 90077		SFR	2	0	97.8	98	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
eles, CA 90077		SFR	2	91	117.2	148	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
eles, CA 90077		SFR	2	12	175.5	176	65	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
eles, CA 90077		SFR	2	159	165.9	230	70	69				69	72	No	34	35	No	--
les, CA 90077		SFR	2	0	358.1	358	70	68				68	72	No	33	35	No	--
les, CA 90077		SFR	2	109	390.6	406	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	82	327.9	338	66	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	277	286.4	398	66	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	242	497.5	553	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	299	437.1	530	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	233	109.7	257	67	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	194	108.5	223	67	69				69	72	No	34	35	No	--
Angeles, CA 90077		SFR	2	0	158.0	158	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Angeles, CA 90077		SFR	2	185	331.1	379	67	67				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	62	350.7	356	67	67				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	0	362.6	363	70	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	44	368.2	371	67	67				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	66	378.7	384	70	67				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	11	369.7	370	67	67				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	147	381.7	409	70	67				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	0	376.1	376	70	67				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	44	379.2	382	70	67				67	72	No	32	35	No	--
Angeles, CA 90077		SFR	2	105	373.3	388	70	67				67	72	No	32	35	No	--
eles, CA 90077		SFR	2	73	279.2	289	67	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	115	362.6	381	70	67				67	72	No	32	35	No	--
eles, CA 90077		SFR	2	0	281.6	282	70	68				68	72	No	33	35	No	--
eles, CA 90077		SFR	2	0	272.4	272	70	69				69	72	No	34	35	No	--
eles, CA 90077		SFR	2	112	263.6	287	67	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	184	335.6	383	70	67				67	72	No	32	35	No	--
eles, CA 90077		SFR	2	144	246.3	285	67	68				68	72	No	33	35	No	--
eles, CA 90077		SFR	2	0	267.8	268	67	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	97	317.7	332	70	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	45	298.8	302	70	68				68	72	No	33	35	No	--
geles, CA 90077		SFR	2	14	260.2	261	67	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	0	275.4	275	70	69				69	72	No	34	35	No	--
geles, CA 90077		SFR	2	171	248.6	302	67	68				68	72	No	33	35	No	--
geles, CA 90077		SFR	2	93	254.0	270	67	68				68	72	No	33	35	No	--
geles, CA 90077		SFR	2	37	254.8	257	67	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	60	296.3	302	70	68				68	72	No	33	35	No	--
Angeles, CA 90077		SFR	2	158	220.0	271	67	68				68	72	No	33	35	No	--

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
les, CA 90077		SFR	2	143	595.2	612	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	0	594.6	595	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	0	591.6	592	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	111	591.0	601	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	95	589.3	597	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	0	587.8	588	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	66	588.1	592	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	0	586.9	587	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	34	583.1	584	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	12	584.5	584.6	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	0	580.4	580.4	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	48	584.5	586.5	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	0	579.2	579.2	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	94	584.9	592.4	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	8	580.2	580.3	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	130	585.0	599.2	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	51	582.7	585.0	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	195	588.9	620.3	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	39	586.7	587.9	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	180	587.4	614.2	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	47	587.3	589.2	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	177	587.7	613.8	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	63	586.4	589.8	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	130	478.4	495.7	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	97	492.7	502.2	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	63	586.5	589.8	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	93	589.7	596.9	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	186	589.5	618.1	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	85	501.2	508.4	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	54	507.9	510.8	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	123	589.5	602.2	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	168	506.9	534.1	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	25	514.7	515.3	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	520.1	520.1	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	136	513.7	531.4	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	523.1	523.1	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	93	518.6	526.9	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	184	594.7	622.4	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	527.9	527.9	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	49	521.4	523.7	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	48	532.7	534.8	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	4	525.8	525.8	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	531.3	531.3	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	58	535.2	538.3	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	190	592.9	622.6	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	71	537.8	542.5	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	533.4	533.4	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	538.5	538.5	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	81	540.7	546.6	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	153	578.0	597.8	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	541.5	541.5	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	97	545.4	553.9	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	132	576.7	591.6	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	109	547.9	558.5	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	88	577.6	584.3	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	543.8	543.8	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	25	548.7	549.2	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	132	550.6	566.1	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	49	576.5	578.5	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	137	575.4	591.5	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	7	576.7	576.7	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	32	552.6	553.5	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	90	574.3	581.2	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	60	555.6	558.8	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	38	577.2	578.5	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	104	556.5	566.2	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	5	575.9	575.9	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	155	561.8	582.7	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	0	575.0	575.0	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	189	564.5	595.3	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	19	577.1	577.4	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	54	577.1	579.6	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	88	579.7	586.4	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	101	580.1	588.8	70	66				66	72	No	31	35	No	--
geles, CA 90077		MFR	2	117	577.4	589.1	70	66				66	72	No	31	35	No	--

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
CA 90077		SFR	2	37	483.6	485.0	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	0	472.0	472.0	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	24	482.2	482.8	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	108	470.2	482.4	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	0	470.4	470.4	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	109	468.5	481.1	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	19	475.0	475.4	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	101	469.2	479.8	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	74	475.6	481.4	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	0	471.8	471.8	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	0	475.9	475.9	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	36	478.0	479.4	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	131	470.1	488.1	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	45	472.6	474.7	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	0	483.1	483.1	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	13	487.1	487.3	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	179	473.7	506.5	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	68	471.9	476.7	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	0	488.0	488.0	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	0	476.1	476.1	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	194	474.4	512.5	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	192	470.8	508.6	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	55	473.0	476.1	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	60	467.4	471.3	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	187	461.5	498.1	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	65	464.4	469.0	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	157	454.7	481.1	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	38	459.5	461.1	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	137	444.2	464.7	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	16	448.6	448.9	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	135	446.9	466.7	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	18	447.5	447.8	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	0	450.4	450.4	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	113	428.6	443.2	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	0	452.9	452.9	70	67				67	72	No	32	35	No	--
geles, CA 90077		SFR	2	142	495.1	515.0	70	66				66	72	No	31	35	No	--
CA 90077		SFR	2	5	432.2	432.3	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	28	429.4	430.3	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	25	434.3	435.0	70	67				67	72	No	32	35	No	--
CA 90077		SFR	2	16	430.4	430.7	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	43	435.1	437.2	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	0	433.8	433.8	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	98	435.7	446.6	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	0	434.0	434.0	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	153	438.2	464.1	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	37	438.9	440.5	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	102	439.7	451.3	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	156	444.4	470.9	70	67				67	72	No	32	35	No	--
les, CA 90077		SFR	2	0	510.6	510.6	70	66				66	72	No	31	35	No	--
les, CA 90077		SFR	2	79	481.4	487.9	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	590.0	590.0	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	582.2	582.2	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	594.5	594.5	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	87	594.7	601.1	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	5	595.2	595.2	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	112	593.5	603.9	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	595.7	595.7	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	596.1	596.1	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	160	584.2	605.6	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	192	574.5	605.6	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	29	586.7	587.4	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	65	577.2	580.9	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	115	564.4	576.0	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	67	534.7	538.9	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	50	553.2	555.4	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	118	521.9	535.1	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	8	554.3	554.3	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	17	539.6	539.9	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	0	543.1	543.1	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	120	519.2	532.9	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	138	522.3	540.2	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	589.8	589.8	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	66	545.8	549.7	70	66				66	72	No	31	35	No	--
ngeles, CA 90077		SFR	2	0	583.8	583.8	70	66				66	72	No	31	35	No	--
geles, CA 90077		SFR	2	198	580.5	613.4	70	66				66	72	No	31	35	No	--

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
ngeles, CA 90077	Mulholland Dr to Woodcliff Rd	SFR	2	107	627.2	636.3	70	66				66	72	No	31	35	No	--
Oaks, CA 91403		SFR	2	130	560.7	575.6	70	66				66	72	No	31	35	No	--
Oaks, CA 91403		SFR	2	145	559.6	578.0	70	66				66	72	No	31	35	No	--
Oaks, CA 91403		SFR	2	185	567.7	596.9	70	66				66	72	No	31	35	No	--
Oaks, CA 91403		SFR	2	0	564.3	564.3	70	66				66	72	No	31	35	No	--
Oaks, CA 91403		SFR	2	115	566.1	577.6	70	66				66	72	No	31	35	No	--
Oaks, CA 91403		SFR	2	74	564.9	569.7	70	66				66	72	No	31	35	No	--
Oaks, CA 91403		SFR	2	0	458.7	458.7	70	67				67	72	No	32	35	No	--
n Oaks, CA 91403		SFR	2	73	439.2	445.3	70	67				67	72	No	32	35	No	--
eles, CA 91403		SFR	2	30	452.0	453.0	70	67				67	72	No	32	35	No	--
n Oaks, CA 91403		SFR	2	0	460.0	460.0	70	67				67	72	No	32	35	No	--
Oaks, CA 91403		SFR	2	31	460.4	461.4	70	67				67	72	No	32	35	No	--
n Oaks, CA 91403		SFR	2	153	412.7	440.0	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	109	435.1	448.5	70	67				67	72	No	32	35	No	--
n Oaks, CA 91403		SFR	2	134	393.4	415.7	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	0	429.7	429.7	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	46	431.8	434.3	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	161	426.3	455.8	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	0	414.8	414.8	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	79	426.8	434.1	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	0	417.4	417.4	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	0	409.7	409.7	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	145	395.8	421.7	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	58	406.2	410.3	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	182	335.9	382.1	70	67				67	72	No	32	35	No	--
an Oaks, CA 91403		SFR	2	103	326.3	342.1	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	45	320.7	323.9	70	68				68	72	No	33	35	No	--
Sherman Oaks, CA 91403		SFR	2	70	320.9	328.3	70	68				68	72	No	33	35	No	--
Sherman Oaks, CA 91403		SFR	2	163	327.1	365.4	70	68				68	72	No	33	35	No	--
Sherman Oaks, CA 91403		SFR	2	0	313.4	313.4	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	153	323.6	357.8	70	68				68	72	No	33	35	No	--
Sherman Oaks, CA 91403		SFR	2	115	322.0	342.0	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	90	316.1	328.6	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	0	302.4	302.4	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	34	308.7	310.6	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	85	297.1	309.1	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	0	299.5	299.5	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	90	287.8	301.6	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	38	290.1	292.5	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	13	278.1	278.4	70	68				68	72	No	33	35	No	--
an Oaks, CA 91403		SFR	2	165	298.5	340.8	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	0	266.7	266.7	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	82	259.2	271.7	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	141	251.8	288.8	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	136	286.8	317.3	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	66	279.2	286.9	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	9	271.6	271.8	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	0	263.9	263.9	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	108	282.5	302.5	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	17	256.8	257.3	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	50	277.0	281.5	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	82	245.1	258.5	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	9	273.7	273.8	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	145	233.9	275.3	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	0	269.9	269.9	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	149	280.1	317.1	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	95	274.6	290.4	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	203	280.6	346.1	70	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	206	224.8	304.9	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	0	260.9	260.9	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	78	265.0	276.2	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	0	251.8	251.8	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	80	251.9	264.3	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	94	214.5	234.1	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	169	252.5	304.0	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	9	244.5	244.7	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	0	232.9	232.9	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	44	215.0	219.4	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	69	239.7	249.4	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	138	216.1	256.1	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	57	226.2	233.3	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	24	236.2	237.4	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	0	232.3	232.3	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	189	254.8	317.0	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	83	255.4	268.7	70	69				69	72	No	34	35	No	--

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
Oaks, CA 91403		SFR	2	86	256.7	270.7	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	165	257.2	305.3	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	41	257.4	260.6	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	140	197.6	242.1	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	0	259.7	259.7	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	146	257.9	296.5	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	34	258.2	260.4	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	130	258.6	289.2	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	0	258.7	258.7	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	0	259.1	259.1	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	105	261.4	281.7	70	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	84	262.1	275.4	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	0	262.4	262.4	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	0	265.0	265.0	70	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	148	185.1	237.2	70	69				69	72	No	34	35	No	--
an Oaks, CA 91403		SFR	2	154	148.6	214.3	70	69				69	72	No	34	35	No	--
an Oaks, CA 91403		SFR	2	147	147.5	208.5	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
an Oaks, CA 91403		SFR	2	180	147.8	232.8	70	69				69	72	No	34	35	No	--
an Oaks, CA 91403		SFR	2	122	149.4	193.0	68	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
an Oaks, CA 91403		SFR	2	157	141.7	211.4	68	69				69	72	No	34	35	No	--
an Oaks, CA 91403		SFR	2	0	178.5	178.5	68	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
an Oaks, CA 91403		SFR	2	0	177.7	177.7	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
an Oaks, CA 91403		SFR	2	0	174.7	174.7	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
an Oaks, CA 91403		SFR	2	90	151.0	175.8	66	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
an Oaks, CA 91403		SFR	2	0	160.6	160.6	66	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
an Oaks, CA 91403		SFR	2	77	145.1	164.2	65	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	0	146.0	146.0	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	66	136.3	151.3	65	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	193	132.4	234.1	65	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	73	149.2	166.0	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	158	185.5	243.9	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	163	118.3	201.7	64	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	109	126.6	167.2	63	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	55	128.8	140.2	63	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	28	143.0	145.7	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	51	133.7	143.0	63	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	88	169.8	191.4	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	78	122.3	144.9	62	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
CA 91403		SFR	2	68	120.5	138.6	62	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	27	140.9	143.4	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
CA 91403		SFR	2	54	118.9	130.7	62	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403	**Woodcliff Rd to Valley Vista Blvd**	SFR	2	26	141.2	143.7	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	197	109.3	225.2	61	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	55	115.5	128.0	61	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	147	163.8	220.2	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	38	143.8	148.6	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
CA 91403		SFR	2	62	114.3	130.0	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	32	138.7	142.4	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	36	134.8	139.5	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	55	113.0	125.8	60	70				70	72	No	35	35	**Yes**	High-resilien Fasteners

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
Oaks, CA 91403		SFR	2	129	148.0	196.1	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	64	110.0	127.0	59	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	169	104.0	198.5	59	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	192	102.1	217.5	59	68				68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	60	106.3	122.1	59	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	149	150.7	211.7	70	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	21	122.6	124.4	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	54	130.7	141.5	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	54	106.9	119.8	59	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	62	107.8	124.2	58	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	132	138.0	191.0	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	13	116.0	116.7	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	192	102.0	217.7	57	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	29	118.3	121.7	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	173	118.4	209.5	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	181	102.6	208.0	57	68				68	72	No	33	35	No	--
n Oaks, CA 91403		SFR	2	62	118.8	133.9	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
CA 91403		SFR	2	73	104.9	127.7	57	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	107	125.3	164.8	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	79	103.3	130.1	56	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	12	109.5	110.1	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	131	126.0	181.4	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	70	100.0	121.8	56	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	20	106.2	108.1	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	67	100.6	120.8	55	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	29	106.7	110.6	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	86	125.0	151.9	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	59	99.1	115.3	54	69				69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	205	95.5	226.1	54	67				67	72	No	32	35	No	--
Oaks, CA 91403		SFR	2	48	97.8	108.9	53	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	27	97.8	101.5	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	49	96.1	108.0	53	69				69	72	No	34	35	No	--
Oaks, CA 91403		SFR	2	41	94.5	102.9	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	32	96.9	102.1	52	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	19	95.2	97.1	52	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	186	93.3	208.0	51	67				67	72	No	32	35	No	--
Oaks, CA 91403		SFR	2	78	93.5	121.9	68	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	179	93.6	202.2	51	67				67	72	No	32	35	No	--
Oaks, CA 91403		SFR	2	11	93.9	94.6	51	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	91	94.0	130.7	67	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	200	92.2	219.9	50	66				66	72	No	31	35	No	--
Oaks, CA 91403		SFR	2	0	94.5	94.5	66	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
rman Oaks, CA 91403		SFR	2	103	93.1	138.8	64	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
rman Oaks, CA 91403		SFR	2	0	93.2	93.2	64	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
rman Oaks, CA 91403		SFR	2	46	93.6	104.3	48	69				69	72	No	34	35	No	--
rman Oaks, CA 91403		SFR	2	104	91.7	138.7	48	68				68	72	No	33	35	No	--

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
Oaks, CA 91403		SFR	2	107	89.6	139.5	58	69				69	72	No	34	35	No	--
rman Oaks, CA 91403		SFR	2	155	90.0	179.3	43	66				66	72	No	31	35	No	--
rman Oaks, CA 91403		SFR	2	72	90.3	115.3	43	67				67	72	No	32	35	No	--
Oaks, CA 91403		SFR	2	100	86.9	132.7	55	69				69	72	No	34	35	No	--
aks, CA 91403		SFR	2	122	85.1	148.8	54	69				69	72	No	34	35	No	--
aks, CA 91403		SFR	2	79	87.7	117.9	53	69				69	72	No	34	35	No	--
Oaks, CA 91403		MFR	2	0	89.7	89.7	53	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
aks, CA 91403		MFR	2	41	87.2	96.4	39	67				67	72	No	32	35	No	--
aks, CA 91403		MFR	2	80	86.4	117.8	38	66				66	72	No	31	35	No	--
aks, CA 91403		MFR	2	212	84.7	228.0	37	64				64	72	No	29	35	No	--
aks, CA 91403		SFR	2	120	83.0	146.1	48	68		Y		73	72	**Yes**	38	35	**Yes**	Spring Frog
aks, CA 91403		SFR	2	176	83.1	194.8	48	66				66	72	No	31	35	No	--
aks, CA 91403		MFR	2	44	83.2	93.9	48	69		Y		74	72	**Yes**	39	35	**Yes**	Spring Frog
aks, CA 91403		MFR	2	21	85.5	88.1	35	67		Y		72	72	**Yes**	37	35	**Yes**	Spring Frog
Oaks, CA 91403		SFR	2	40	82.9	91.8	46	69	Y			79	72	**Yes**	44	35	**Yes**	Resiliently Supported Ti
han Oaks, CA 91403		MFR	2	187	84.1	205.3	33	63		Y		68	72	No	33	35	No	--
Oaks, CA 91403	Valley Vista Blvd to Sepulveda/Ventura Station	MFR	2	31	74.2	80.5	32	66	Y			76	72	**Yes**	41	35	**Yes**	Resiliently Supported Ti
han Oaks, CA 91403		MFR	2	186	84.3	204.4	32	63		Y		68	72	No	33	35	No	--
Oaks, CA 91403		SFR	2	39	82.4	91.1	43	68	Y			78	72	**Yes**	43	35	**Yes**	Resiliently Supported Ti
Oaks, CA 91403		MFR	2	35	80.8	88.2	30	65	Y			75	72	**Yes**	40	35	**Yes**	Resiliently Supported Ti
Oaks, CA 91403		SFR	2	41	81.1	90.7	41	68		Y		73	72	**Yes**	38	35	**Yes**	Spring Frog
n Oaks, CA 91403		SFR	2	128	81.1	151.5	41	66		Y		71	72	No	36	35	**Yes**	Spring Frog
han Oaks, CA 91403		MFR	2	178	77.3	193.6	28	62		Y		67	72	No	32	35	No	--
Oaks, CA 91403		MFR	2	33	81.7	87.9	26	64		Y		69	72	No	34	35	No	--
n Oaks, CA 91403		SFR	2	151	80.1	171.1	38	65		Y		70	72	No	35	35	**Yes**	Spring Frog
Oaks, CA 91403		MFR	2	28	82.4	86.9	20	62		Y		67	72	No	32	35	No	--
n Oaks, CA 91403		SFR/ Day Care	2	101	80.4	128.8	37	66		Y		71	72	No	36	35	**Yes**	Spring Frog
n Oaks, CA 91403		SFR/Video Prod	2	44	80.5	91.9	36	67	Y			77	72	**Yes**	42	35	**Yes**	Resiliently Supported Ti
Oaks, CA 91403		MFR	2	23	81.4	84.7	10	56	Y			66	72	No	31	35	No	--
n Oaks, CA 91403		SFR	2	196	77.7	210.7	32	63	Y		Y	68	72	No	33	35	No	--
Oaks, CA 91403		MFR	2	39	80.0	89.1	30	65		Y	Y	65	72	No	30	35	No	--
n Oaks, CA 91403		SFR	2	115	78.2	138.8	28	63		Y	Y	63	72	No	28	35	No	--
n Oaks, CA 91403		SFR	2	133	79.1	154.8	24	61			Y	56	72	No	21	35	No	--
Oaks, CA 91403		MFR	2	53	77.8	94.0	15	59			Y	54	72	No	19	35	No	--
Oaks, CA 91403		MFR	2	150	75.9	168.1	15	57			Y	52	72	No	17	35	No	--
DERGROUND STATION																		
arvey/Fox Sports Radio an Oaks, CA 91403		Radio/TV Studio	Special Bldg	89	76.4	117.1	47	68				68	65	**Yes**	33	25	**Yes**	Resiliently Supported Ti
an Oaks, CA 91403		Dance Studio	3	79	83.2	114.9	48	68				68	75	No	33	40	No	--
an Oaks, CA 91403		TV Studio	1	58	84.8	102.9	54	70				70	65	**Yes**	35	25	**Yes**	Resiliently Supported Ti
han Oaks, CA 91403		MFR	2	125	85.9	151.7	56	69				69	72	No	34	35	No	--
han Oaks, CA 91403		MFR	2	120	89.0	149.5	58	69				69	72	No	34	35	No	--
han Oaks, CA 91403		MFR	2	109	93.3	143.7	63	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	99	93.0	135.9	64	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	103	96.5	141.1	66	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	104	96.9	141.8	69	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403	Ventura/Sepulveda Station to US-101	MFR	2	103	99.4	143.0	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
ngeles, CA 91403		MFR	2	67	99.7	120.3	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	102	102.7	144.8	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	105	105.3	148.4	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		Motel	2	89	106.8	138.7	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
han Oaks, CA 91403		MFR	2	46	110.7	120.1	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	166	110.0	199.3	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	30	117.1	120.8	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	162	114.6	198.1	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	166	123.9	206.9	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		SFR	2	39	126.8	132.8	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	39	128.9	134.6	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	171	129.0	213.8	70	69				69	72	No	34	35	No	--
han Oaks, CA 91403		MFR	2	38	130.9	136.3	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		SFR	2	171	130.3	214.7	70	69				69	72	No	34	35	No	--
han Oaks, CA 91403		MFR	2	48	134.1	142.4	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	38	133.5	138.9	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		SFR	2	118	141.3	184.2	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403	**US-101 to Magnolia Blvd**	MFR	2	39	143.3	148.5	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
aks, CA 91403		SFR	2	212	142.2	254.9	70	69				69	72	No	34	35	No	--
aks, CA 91403		SFR	2	208	145.8	254.1	70	69				69	72	No	34	35	No	--
han Oaks, CA 91403		MFR	2	36	151.0	155.1	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Oaks, CA 91403		SFR	2	216	152.5	264.4	70	69				69	72	No	34	35	No	--
t - Station 88 han Oaks, CA 91403		Fire Department	3	82	153.9	174.2	70	70				70	75	No	35	40	No	--
han Oaks, CA 91403		MFR	2	44	155.5	161.5	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	41	160.8	165.9	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
n Oaks, CA 91403		SFR	2	216	163.1	270.6	70	69				69	72	No	34	35	No	--
aks, CA 91403		Institutional	3	118	169.8	206.9	70	70				70	75	No	35	40	No	--
n Oaks, CA 91403		SFR	2	216	169.1	274.3	70	69				69	72	No	34	35	No	--
han Oaks, CA 91403		MFR	2	213	173.9	274.8	70	69				69	72	No	34	35	No	--
han Oaks, CA 91403		Live Stream/ Video, audio	Special Bldg	77	181.0	196.6	70	70				70	65	**Yes**	35	25	**Yes**	Resiliently Supported Ti
han Oaks, CA 91403		MFR	2	36	182.7	186.3	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91403		MFR	2	39	194.0	198.0	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	80	195.2	210.8	70	69				69	72	No	34	35	No	--
han Oaks, CA 91411		MFR	2	89	189.3	209.0	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	78	186.7	202.3	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		SFR/church	2	105	185.4	212.8	70	69				69	72	No	34	35	No	--
han Oaks, CA 91411		MFR	2	90	182.4	203.6	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	90	180.4	201.8	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	94	177.5	200.6	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	72	175.6	189.9	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	77	173.6	190.0	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411	**Magnolia Blvd to Burbank Blvd**	MFR	2	56	171.0	179.8	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	79	169.7	187.1	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	80	168.9	186.8	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	52	168.7	176.5	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
han Oaks, CA 91411		MFR	2	80	167.2	185.3	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
aks, CA 91411		MFR	2	78	159.9	177.9	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
an Oaks, CA 91411		Church	3	126	159.4	203.2	70	70				70	75	No	35	40	No	--
an Oaks, CA 91411		MFR	2	36	156.0	160.2	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
logy/Skyline Urology an Oaks, CA 91411		Medical	3	122	155.0	197.3	70	70				70	75	No	35	40	No	--
an Oaks, CA 91411		Hotel	2	61	150.2	162.2	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
CA 91411		MFR	2	185	138.4	231.3	70	69				69	72	No	34	35	No	--
uys, CA 91411		Hotel	2	33	135.4	139.3	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Kinetix Surgery uys, CA 91411		Medical	3	70	133.5	150.6	70	71				71	75	No	36	40	No	--
uys, CA 91411		Hospice Care	2	36	130.0	135.0	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR/Mixed	2	40	125.6	131.9	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411	**Burbank Blvd to Metro G-Line/Sepulveda Station**	MFR	2	44	123.2	130.7	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	46	121.1	129.4	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	46	119.5	128.1	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		Motel	2	43	118.2	125.8	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		Motel	2	51	114.3	125.1	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
STATION																		
hool Van Nuys, CA 91406	**Metro G-Line/Sepulveda Station to Victory Blvd**	Institutional	3	52	87.2	101.3	51	69				69	75	No	34	40	No	--
uys, CA 91406		Motel	2	46	87.1	98.7	53	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
uys, CA 91411		Motel	2	103	78.2	129.5	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	56	79.1	96.8	65	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	103	79.1	130.1	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	103	78.4	129.7	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	103	78.0	129.5	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	59	78.0	97.6	66	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	61	77.7	99.0	67	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	103	78.3	129.6	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
ngeles, CA 91411		SFR	2	57	79.0	97.1	67	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	104	78.6	130.0	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	59	78.6	98.1	67	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	103	78.3	129.6	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	104	77.9	129.9	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
s, CA 91405		MFR	2	56	77.9	96.2	68	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
Van Nuys, CA 91411		MFR	2	104	78.6	130.3	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
Van Nuys, CA 91411	**Victory Blvd to Vanowen St**	MFR	2	103	78.2	129.5	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	65	80.5	103.8	69	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	107	76.5	131.6	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	63	79.8	101.5	69	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	103	77.4	129.2	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	103	78.1	129.6	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
uys, CA 91411		MFR	2	103	77.5	128.9	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	63	79.3	101.3	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	103	77.1	128.6	70	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
CA 91411		MFR	2	45	77.4	89.5	70	73				73	72	**Yes**	38	35	**Yes**	High-resilien Fasteners
uys, CA 91411		MFR	2	45	77.8	89.8	70	73				73	72	**Yes**	38	35	**Yes**	High-resilien Fasteners
uys, CA 91411		Hospital	2	64	77.7	100.7	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
ys, CA 91411		MFR	2	45	78.8	90.9	70	73				73	72	**Yes**	38	35	**Yes**	High-resilien Fasteners
s, CA 91405		Medical Lab	3	134	79.3	155.9	70	71				71	75	No	36	40	No	--
uys, CA 91405		MFR	2	43	77.8	88.9	64	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	55	79.1	96.2	63	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		Hospital	2	151	80.4	171.3	70	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	55	78.1	95.4	61	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	49	77.7	91.8	60	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	50	78.6	93.1	58	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	64	77.9	101.0	57	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	88	77.5	116.9	70	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91405	**Vanowen St to Sepulveda/Sherman Way Station**	MFR	2	62	79.2	100.7	56	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	69	78.5	104.7	54	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
uys, CA 91405		Motel	2	69	78.2	104.5	53	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
ngeles, CA 91405		MFR	2	68	77.6	102.8	64	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	66	79.1	103.3	50	69				69	72	No	34	35	No	--
uys, CA 91405		MFR	2	66	78.4	102.7	60	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	55	77.7	95.3	46	69				69	72	No	34	35	No	--
uys, CA 91405		MFR	2	64	78.6	101.2	54	70		Y		75	72	**Yes**	40	35	**Yes**	Resiliently Supported Ti
uys, CA 91405		MFR	2	65	78.6	102.2	42	68		Y		73	72	**Yes**	38	35	**Yes**	Spring Frog
uys, CA 91405		Hotel	2	63	79.8	101.6	38	67	Y			77	72	**Yes**	42	35	**Yes**	Resiliently Supported Ti
uys, CA 91405		MFR	2	64	79.3	101.7	36	66	Y			76	72	**Yes**	41	35	**Yes**	Spring Frog
Y STATION																		
CA 91405		SFR	2	185	80.4	201.7	32	63				63	72	No	28	35	No	--
CA 91405		SFR	2	189	80.3	204.9	36	64				64	72	No	29	35	No	--
CA 91405		MFR	2	94	80.3	123.5	36	66				66	72	No	31	35	No	--
uys, CA 91405		SFR	2	187	81.3	204.3	40	65				65	72	No	30	35	No	--
uys, CA 91405		Medical	3	46	80.2	92.6	57	71				71	75	No	36	40	No	--
uys, CA 91405		SFR	2	246	79.9	258.7	44	65				65	72	No	30	35	No	--
uys, CA 91405		MFR	2	48	81.1	94.2	60	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	95	80.3	124.4	63	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	70	79.7	106.2	65	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	70	78.7	105.4	68	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
Angeles, CA 91405		MFR	2	101	79.2	128.2	54	69				69	72	No	34	35	No	--
ngeles, CA 90045	**Sepulveda/Sherman Way Station to Saticoy St**	MFR	2	50	77.8	92.4	68	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	103	77.4	128.5	58	70				70	72	No	35	35	**Yes**	High-resilien Fasteners
uys, CA 91405		Nursing Home	2	54	78.0	94.6	67	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
s, CA 91405		SFR	2	176	77.8	192.0	60	68				68	72	No	33	35	No	--

Address/Description	City Blocks	Land Use Type	FTA Category	Lateral Distance (ft)	Vertical Distance (ft)	Distance to Track (ft)	Vehicle Speed (mph)	Vibration Level Adjusted for Speed (VdB)	Distance to Crossover Point		Behind Station Structure?	Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Groundborne Vibration Impact?	Groundborne Noise Level (dBA)	GBN Criterion (dBA)	Groundborne Noise Impact?	Track Treatment Mitigation
									<100'	100-200'								
uys, CA 91405		MFR/School	2	68	78.0	103.6	61	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	46	77.2	90.0	63	72				72	72	**Yes**	37	35	**Yes**	High-resilien Fasteners
CA 91405		SFR	2	178	78.3	194.7	63	69				69	72	No	34	35	No	--
, CA 91405		MFR	2	165	78.0	182.6	60	69				69	72	No	34	35	No	--
uys, CA 91405		Hotel	2	46	77.1	89.8	57	71				71	72	No	36	35	**Yes**	High-resilien Fasteners
uys, CA 91405		MFR	2	40	76.0	85.9	40	68				68	72	No	33	35	No	--
uys, CA 91405		Medical/ Animal Hospital	1	83	76.3	113.1	40	67				67	65	**Yes**	32	25	**Yes**	Resiliently Supported Ti
uys, CA 91406	**Saticoy St to Metrolink/Van Nuys Station**	Dance School	3	56.3	75.9	94.5	40	68				68	75	No	33	40	No	--
- Stagg A 91405		Recording Studio	1	0	71.9	71.9	40	69				69	65	**Yes**	34	25	**Yes**	Resiliently Supported Ti
A 91406		Recording Studio	1	388	51.3	391.8	40	62				62	65	No	27	25	**Yes**	High-resilien Fasteners
ny CA 91405		Recording Studio	1	249	27.09	250.8	40	64			Y	59	65	No	24	25	No	--

Attachment 14. Alternative 6: Off-Road Construction Equipment Noise Levels

Sepulveda Transit Corridor
Alternative 6
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Segment 1-Westside-Ground Improvements	Bore/Drill Rigs	2	90	40%	89	89
	Pumps	2	77	50%	77	
Segment 1-Westside-Tunnel Boring Setup/Assembly	Cranes	2	83	20%	79	83
	Aerial Lifts	2	77	40%	76	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 1-Westside-Tunnel Boring/Tunneling	Tunnel Boring Machine (TBM)	2	--	--	--	81
	Cranes	1	83	20%	76	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 1-Westside-TBM Retrieval/Tunnel Prep	Cranes	2	83	20%	79	81
	Aerial Lifts	2	77	40%	76	
Segment 1-Westside-Annular Grouting	Bore/Drill Rigs	2	90	20%	86	87
	Pumps	2	77	50%	77	
Segment 1-Westside-Invert Construction	Pumps	2	77	40%	76	76
Segment 1-Westside-Cross Passage	Excavators	2	85	40%	84	87
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Air Compressors	2	80	50%	80	
Segment 1-Westside-Rail and Plinth	Pumps	1	77	50%	74	74
Segment 1-Westside-Systems, Testing, Commissioning	Aerial Lifts	8	77	40%	82	86
	Rough Terrain Forklifts	2	80	40%	79	
	Generator Sets	1	82	40%	78	
	Aerial Lifts	4	77	40%	79	
Segment 2-Mountain-Ground Improvements	Bore/Drill Rigs	2	90	40%	89	89
	Pumps	2	77	40%	76	
Segment 2-Mountain-Tunnel Boring Setup/Assembly	Cranes	2	83	20%	79	81
	Aerial Lifts	2	77	40%	76	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 2-Mountain-Tunnel Boring/Tunneling	Tunnel Boring Machine (TBM)	2	--	--	--	81
	Cranes	1	83	20%	76	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 2-Mountain-TBM Retrieval/Tunnel Prep	Cranes	2	83	20%	79	81
	Aerial Lifts	2	77	40%	76	
Segment 2-Mountain-Annular Grouting	Bore/Drill Rigs	2	90	40%	89	89
	Pumps	2	77	50%	77	
Segment 2-Mountain-Invert Construction	Pumps	2	77	50%	77	77
Segment 2-Mountain-Cross Passage	Excavators	2	85	40%	84	86
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	20%	76	
	Air Compressors	2	80	50%	80	
Segment 2-Mountain-Rail and Plinth	Pumps	1	77	50%	74	74
Segment 2-Mountain-Systems, Testing, Commissioning	Aerial Lifts	8	77	40%	82	86
	Rough Terrain Forklifts	2	80	40%	79	
	Generator Sets	1	82	40%	78	
	Aerial Lifts	4	77	40%	79	
Segment 3-Valley-Ground Improvements	Bore/Drill Rigs	2	90	40%	89	89
	Pumps	2	77	40%	76	
Segment 3-Valley-Tunnel Boring Setup/Assembly	Cranes	2	83	20%	79	81
	Aerial Lifts	2	77	40%	76	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 3-Valley-Tunnel Boring/Tunneling	Tunnel Boring Machine (TBM)	2	--	--	--	81
	Cranes	1	83	20%	76	
	Rough Terrain Forklifts	2	80	40%	79	
Segment 3-Valley-TBM Retrieval/Tunnel Prep	Cranes	2	83	20%	79	81
	Aerial Lifts	2	77	40%	76	
Segment 3-Valley-Annular Grouting	Bore/Drill Rigs	2	90	40%	89	89
	Pumps	2	77	50%	77	
Segment 3-Valley-Invert Construction	Pumps	2	77	50%	77	77
Segment 3-Valley-Cross Passage	Excavators	2	85	40%	84	86
	Pumps	2	77	50%	77	
	Tractors/Loaders/Backhoes	2	80	20%	76	
	Air Compressors	2	80	50%	80	
Segment 3-Valley-Rail and Plinth	Pumps	1	77	50%	74	74
Segment 3-Valley-Systems, Testing, Commissioning	Aerial Lifts	8	77	40%	82	86
	Rough Terrain Forklifts	2	80	40%	79	
	Generator Sets	1	82	40%	78	
	Aerial Lifts	4	77	40%	79	
Mid Mountain Shaft-Site Preparation/Demolition	Tractors/Loaders/Backhoes	2	80	40%	79	83
	Excavators	1	85	40%	81	
Mid Mountain Shaft-Access Road	Tractors/Loaders/Backhoes	2	80	40%	79	88
	Pavers	1	85	40%	81	
	Rollers	1	85	40%	81	
	Excavators	1	85	40%	81	
	Scrapers	1	85	40%	81	
	Crawler Tractors	2	80	40%	79	
Mid Mountain Shaft-Drainage/Utilities	Excavators	1	85	40%	81	84
	Pumps	1	77	50%	74	
	Rollers	1	85	40%	81	
Mid Mountain Shaft-Shaft Drilling	Bore/Drill Rigs	1	90	40%	86	87
	Cranes	1	83	20%	76	
	Tractors/Loaders/Backhoes	1	80	40%	76	
Mid Mountain Shaft-Cavern and Adit	Excavators	2	85	40%	84	85
	Pumps	2	77	50%	77	
Van Nuys Metrolink Station-Utility Relocation	Concrete/Industrial Saws	2	90	20%	86	92
	Cranes	1	83	20%	76	
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Trenchers	1	82	40%	78	
	Rollers	2	85	40%	84	
	Cement and Mortar Mixers	1	85	40%	81	
	Pavers	1	85	40%	81	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
Van Nuys Metrolink Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	80	40%	82	90
	Excavators	2	85	40%	84	
	Concrete/Industrial Saws	2	90	20%	86	
	Skid Steer Loaders	2	80	40%	79	
Van Nuys Metrolink Station-Grading	Crawler Tractors	2	80	40%	79	85
	Excavators	2	85	40%	84	
Van Nuys Metrolink Station-Drainage	Excavators	2	85	40%	84	86
	Pumps	2	77	50%	77	
	Rollers	1	85	40%	81	
Van Nuys Metrolink Station-SOE	Bore/Drill Rigs	2	90	40%	89	92
	Excavators	4	85	40%	87	
	Rough Terrain Forklifts	2	80	40%	79	
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
Van Nuys Metrolink Station-Station Excavation	Cranes	2	83	20%	79	90
	Excavators	6	85	40%	89	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	2	77	40%	76	
Van Nuys Metrolink Station-Station Construction	Cranes	2	83	20%	79	87
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	3	77	40%	78	
	Air Compressors	2	80	50%	80	
	Welders	2	73	40%	72	
	Generator Sets	2	82	40%	81	
Van Nuys Metrolink Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	80	40%	79	89
	Skid Steer Loaders	1	80	40%	76	
	Pavers	2	85	40%	84	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	

Sepulveda Transit Corridor
Alternative 6
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA	Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Van Nuys Metrolink Station-Station Finishes and Testing	Aerial Lifts	4	77	40%	79	84	Ventura Blvd Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	80	40%	82	90
	Generator Sets	1	82	40%	78			Excavators	2	85	40%	84	
	Forklifts	2	75	40%	74			Concrete/Industrial Saws	2	90	20%	86	
	Air Compressors	2	80	50%	80			Skid Steer Loaders	2	80	40%	79	
Metro G Line Station-Utility Relocation	Concrete/Industrial Saws	2	90	20%	86	92	Ventura Blvd Station-Grading	Crawler Tractors	2	80	40%	79	85
	Cranes	1	83	20%	76			Excavators	2	85	40%	84	
	Excavators	2	85	40%	84		Ventura Blvd Station-Drainage	Excavators	2	85	40%	84	86
	Rough Terrain Forklifts	2	80	40%	79			Pumps	2	77	50%	77	
	Trenchers	1	82	40%	78			Rollers	1	85	40%	81	
	Rollers	2	85	40%	84		Ventura Blvd Station-SOE	Bore/Drill Rigs	2	90	40%	89	92
	Cement and Mortar Mixers	1	85	40%	81			Excavators	4	85	40%	87	
	Pavers	1	85	40%	81			Rough Terrain Forklifts	2	80	40%	79	
	Surfacing Equipment	1	80	40%	76			Cranes	2	83	20%	79	
	Sweepers/Scrubbers	1	85	40%	81			Pumps	2	77	50%	77	
Metro G Line Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	80	40%	82	90	Ventura Blvd Station-Station Excavation	Cranes	2	83	20%	79	90
	Excavators	2	85	40%	84			Excavators	6	85	40%	89	
	Concrete/Industrial Saws	2	90	20%	86			Tractors/Loaders/Backhoes	2	80	40%	79	
	Skid Steer Loaders	2	80	40%	79			Rough Terrain Forklifts	2	80	40%	79	
Metro G Line Station-Grading	Crawler Tractors	2	80	40%	79	85		Aerial Lifts	2	77	40%	76	
	Excavators	2	85	40%	84		Ventura Blvd Station-Station Construction	Cranes	2	83	20%	79	87
Metro G Line Station-Drainage	Excavators	2	85	40%	84	86		Pumps	3	77	50%	79	
	Pumps	2	77	50%	77			Rough Terrain Forklifts	2	80	40%	79	
	Rollers	1	85	40%	81			Aerial Lifts	3	77	40%	78	
Metro G Line Station-SOE	Bore/Drill Rigs	2	90	40%	89	92		Air Compressors	2	80	50%	80	
	Excavators	4	85	40%	87			Welders	2	73	40%	72	
	Rough Terrain Forklifts	2	80	40%	79			Generator Sets	2	82	40%	81	
	Cranes	2	83	20%	79		Ventura Blvd Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	80	40%	79	89
	Pumps	2	77	50%	77			Skid Steer Loaders	1	80	40%	76	
Metro G Line Station-Station Excavation	Cranes	2	83	20%	79	90		Pavers	2	85	40%	84	
	Excavators	6	85	40%	89			Surfacing Equipment	1	80	40%	76	
	Tractors/Loaders/Backhoes	2	80	40%	79			Sweepers/Scrubbers	1	85	40%	81	
	Rough Terrain Forklifts	2	80	40%	79			Rollers	2	85	40%	84	
	Aerial Lifts	2	77	40%	76		Ventura Blvd Station-Station Finishes and Testing	Aerial Lifts	4	77	40%	79	84
Metro G Line Station-Station Construction	Cranes	2	83	20%	79	87		Generator Sets	1	82	40%	78	
	Pumps	3	77	50%	79			Forklifts	2	75	40%	74	
	Rough Terrain Forklifts	2	80	40%	79			Air Compressors	2	80	50%	80	
	Aerial Lifts	3	77	40%	78		UCLA Station-Utility Relocation	Concrete/Industrial Saws	2	90	20%	86	92
	Air Compressors	2	80	50%	80			Cranes	1	83	20%	76	
	Welders	2	73	40%	72			Excavators	2	85	40%	84	
	Generator Sets	2	82	40%	81			Rough Terrain Forklifts	2	80	40%	79	
Metro G Line Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	80	40%	79	89	UCLA Station-Utility Relocation	Trenchers	1	82	40%	78	
	Skid Steer Loaders	1	80	40%	76			Rollers	2	85	40%	84	
	Pavers	2	85	40%	84			Cement and Mortar Mixers	1	85	40%	81	
	Surfacing Equipment	1	80	40%	76			Pavers	1	85	40%	81	
	Sweepers/Scrubbers	1	85	40%	81			Surfacing Equipment	1	80	40%	76	
	Rollers	2	85	40%	84			Sweepers/Scrubbers	1	85	40%	81	
Metro G Line Station-Station Finishes and Testing	Aerial Lifts	4	77	40%	79	84	UCLA Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	80	40%	82	90
	Generator Sets	1	82	40%	78			Excavators	2	85	40%	84	
	Forklifts	2	75	40%	74			Concrete/Industrial Saws	2	90	20%	86	
	Air Compressors	2	80	50%	80			Skid Steer Loaders	2	80	40%	79	
Ventura Blvd Station-Utility Relocation	Concrete/Industrial Saws	2	90	20%	86	92	UCLA Station-Grading	Crawler Tractors	2	80	40%	79	85
	Cranes	1	83	20%	76			Excavators	2	85	40%	84	
	Excavators	2	85	40%	84		UCLA Station-Drainage	Excavators	2	85	40%	84	86
	Rough Terrain Forklifts	2	80	40%	79			Pumps	2	77	50%	77	
	Trenchers	1	82	40%	78			Rollers	1	85	40%	81	
	Rollers	2	85	40%	84		UCLA Station-SOE	Bore/Drill Rigs	2	90	40%	89	92
	Cement and Mortar Mixers	1	85	40%	81			Excavators	4	85	40%	87	
	Pavers	1	85	40%	81			Rough Terrain Forklifts	2	80	40%	79	
	Surfacing Equipment	1	80	40%	76			Cranes	2	83	20%	79	
	Sweepers/Scrubbers	1	85	40%	81			Pumps	2	77	50%	77	

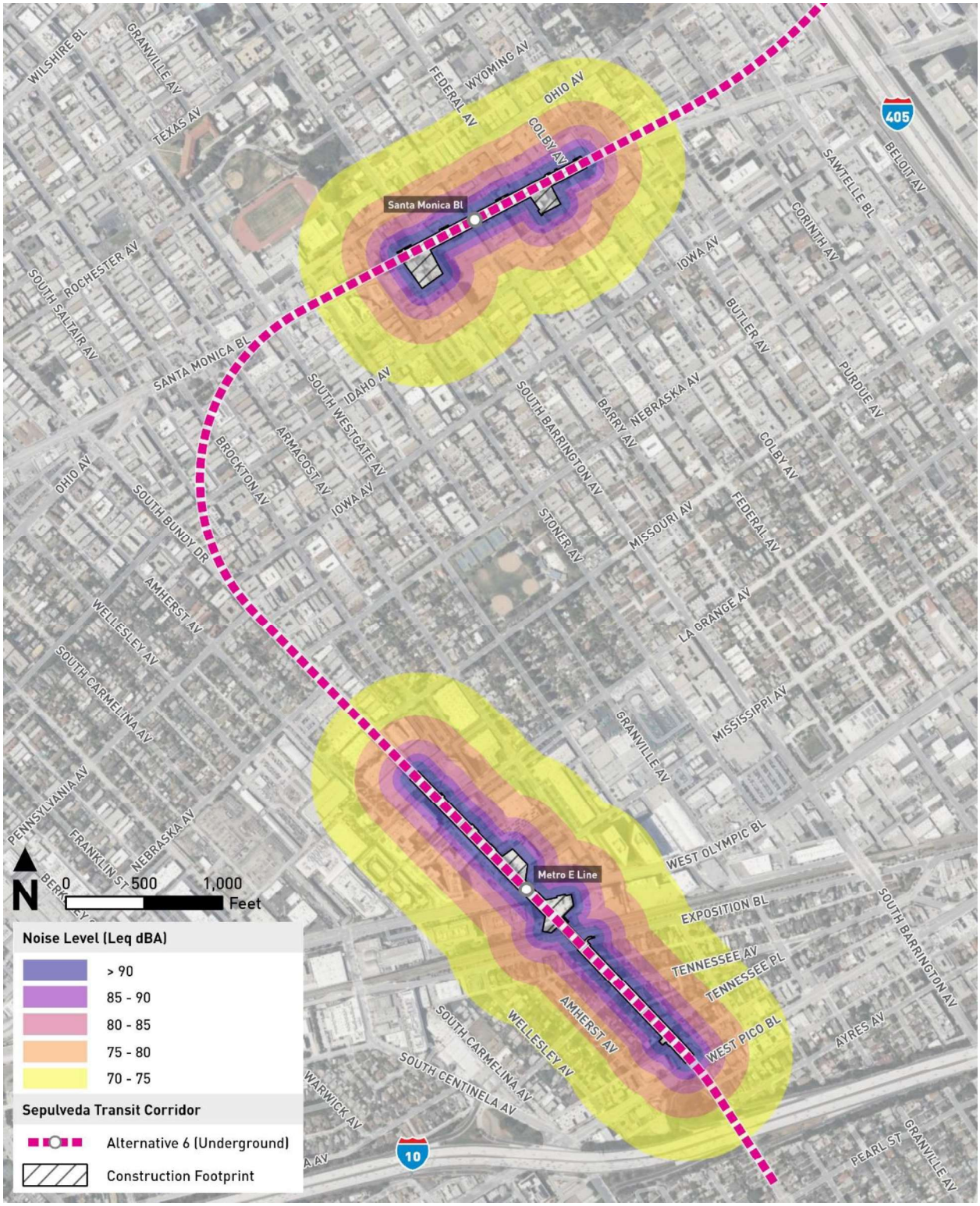
Sepulveda Transit Corridor
Alternative 6
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
UCLA Station-Station Excavation	Cranes	2	83	20%	79	90
	Excavators	6	85	40%	89	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	2	77	40%	76	
UCLA Station-Station Construction	Cranes	2	83	20%	79	87
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	3	77	40%	78	
	Air Compressors	2	80	50%	80	
	Welders	2	73	40%	72	
	Generator Sets	2	82	40%	81	
UCLA Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	80	40%	79	89
	Skid Steer Loaders	1	80	40%	76	
	Pavers	2	85	40%	84	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
	Rollers	2	85	40%	84	
UCLA Station-Station Finishes and Testing	Aerial Lifts	4	77	40%	79	84
	Generator Sets	1	82	40%	78	
	Forklifts	2	75	40%	74	
	Air Compressors	2	80	50%	80	
Wilshire Blvd (Metro D Line) Station-Utility Relocation	Concrete/Industrial Saws	2	90	20%	86	92
	Cranes	1	83	20%	76	
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Trenchers	1	82	40%	78	
	Rollers	2	85	40%	84	
	Cement and Mortar Mixers	1	85	40%	81	
	Pavers	1	85	40%	81	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
Wilshire Blvd (Metro D Line) Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	80	40%	82	90
	Excavators	2	85	40%	84	
	Concrete/Industrial Saws	2	90	20%	86	
	Skid Steer Loaders	2	80	40%	79	
Wilshire Blvd (Metro D Line) Station-Grading	Crawler Tractors	2	80	40%	79	85
	Excavators	2	85	40%	84	
Wilshire Blvd (Metro D Line) Station-Drainage	Excavators	2	85	40%	84	86
	Pumps	2	77	50%	77	
	Rollers	1	85	40%	81	
Wilshire Blvd (Metro D Line) Station-SOE	Bore/Drill Rigs	2	90	40%	89	92
	Excavators	4	85	40%	87	
	Rough Terrain Forklifts	2	80	40%	79	
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
Wilshire Blvd (Metro D Line) Station-Station Excavation	Cranes	2	83	20%	79	90
	Excavators	6	85	40%	89	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	2	77	40%	76	
Wilshire Blvd (Metro D Line) Station-Station Construction	Cranes	2	83	20%	79	87
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	3	77	40%	78	
	Air Compressors	2	80	50%	80	
	Welders	2	73	40%	72	
	Generator Sets	2	82	40%	81	
Wilshire Blvd (Metro D Line) Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	80	40%	79	89
	Skid Steer Loaders	1	80	40%	76	
	Pavers	2	85	40%	84	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
	Rollers	2	85	40%	84	
Wilshire Blvd (Metro D Line) Station-Station Finishes and Testing	Aerial Lifts	4	77	40%	79	84
	Generator Sets	1	82	40%	78	
	Forklifts	2	75	40%	74	
	Air Compressors	2	80	50%	80	
Santa Monica Blvd Station-Utility Relocation	Concrete/Industrial Saws	2	90	20%	86	92
	Cranes	1	83	20%	76	
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Trenchers	1	82	40%	78	
	Rollers	2	85	40%	84	
	Cement and Mortar Mixers	1	85	40%	81	
	Pavers	1	85	40%	81	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
Santa Monica Blvd Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	80	40%	82	90
	Excavators	2	85	40%	84	
	Concrete/Industrial Saws	2	90	20%	86	
	Skid Steer Loaders	2	80	40%	79	
Santa Monica Blvd Station-Grading	Crawler Tractors	2	80	40%	79	85
	Excavators	2	85	40%	84	
Santa Monica Blvd Station-Drainage	Excavators	2	85	40%	84	86
	Pumps	2	77	50%	77	
	Rollers	1	85	40%	81	
Santa Monica Blvd Station-SOE	Bore/Drill Rigs	2	90	40%	89	92
	Excavators	4	85	40%	87	
	Rough Terrain Forklifts	2	80	40%	79	
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
Santa Monica Blvd Station-Station Excavation	Cranes	2	83	20%	79	90
	Excavators	6	85	40%	89	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	2	77	40%	76	
Santa Monica Blvd Station-Station Construction	Cranes	2	83	20%	79	87
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	3	77	40%	78	
	Air Compressors	2	80	50%	80	
	Welders	2	73	40%	72	
	Generator Sets	2	82	40%	81	
Santa Monica Blvd Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	80	40%	79	89
	Skid Steer Loaders	1	80	40%	76	
	Pavers	2	85	40%	84	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
	Rollers	2	85	40%	84	
Santa Monica Blvd Station-Station Finishes and Testing	Aerial Lifts	4	77	40%	79	84
	Generator Sets	1	82	40%	78	
	Forklifts	2	75	40%	74	
	Air Compressors	2	80	50%	80	

Sepulveda Transit Corridor
Alternative 6
Off-Road Construction Equipment Noise Levels (L_{eq}, dBA)

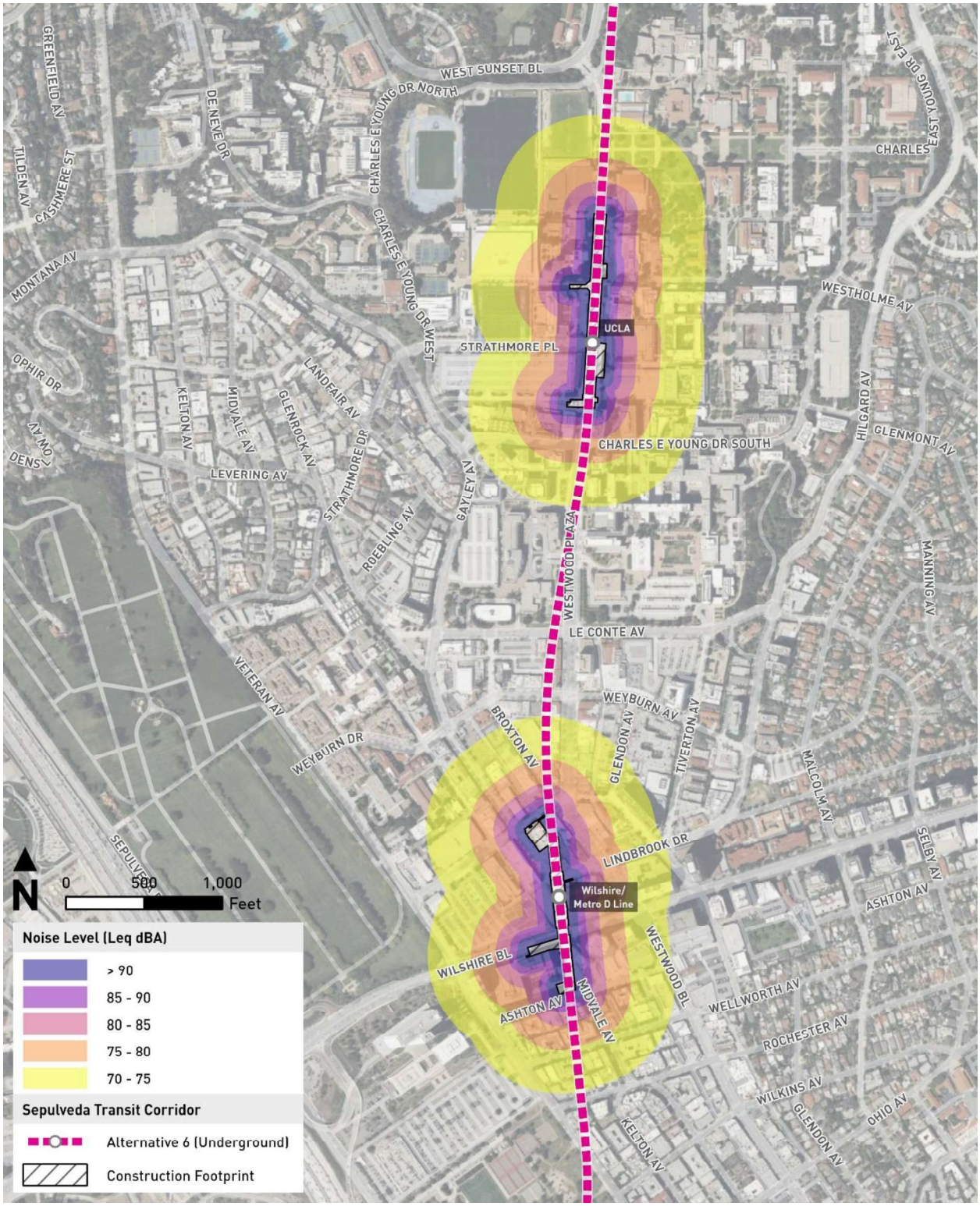
Phase Name	Equipment Type	Number of Equipment	Noise Level at 50 ft	Utilization Rate	Expected Leq at 50 ft	Calculated Composite Leq, dBA
Metro E Line (Expo)/Bundy Station-Utility Relocation	Concrete/Industrial Saws	2	90	20%	86	92
	Cranes	1	83	20%	76	
	Excavators	2	85	40%	84	
	Rough Terrain Forklifts	2	80	40%	79	
	Trenchers	1	82	40%	78	
	Rollers	2	85	40%	84	
	Cement and Mortar Mixers	1	85	40%	81	
	Pavers	1	85	40%	81	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
Metro E Line (Expo)/Bundy Station-Site Preparation/Demolition	Tractors/Loaders/Backhoes	4	80	40%	82	90
	Excavators	2	85	40%	84	
	Concrete/Industrial Saws	2	90	20%	86	
	Skid Steer Loaders	2	80	40%	79	
Metro E Line (Expo)/Bundy Station-Grading	Crawler Tractors	2	80	40%	79	85
	Excavators	2	85	40%	84	
Metro E Line (Expo)/Bundy Station-Drainage	Excavators	2	85	40%	84	86
	Pumps	2	77	50%	77	
	Rollers	1	85	40%	81	
Metro E Line (Expo)/Bundy Station-SOE	Bore/Drill Rigs	2	90	40%	89	92
	Excavators	4	85	40%	87	
	Rough Terrain Forklifts	2	80	40%	79	
	Cranes	2	83	20%	79	
	Pumps	2	77	50%	77	
Metro E Line (Expo)/Bundy Station-Station Excavation	Cranes	2	83	20%	79	90
	Excavators	6	85	40%	89	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	2	77	40%	76	
Metro E Line (Expo)/Bundy Station-Station Construction	Cranes	2	83	20%	79	87
	Pumps	3	77	50%	79	
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	3	77	40%	78	
	Air Compressors	2	80	50%	80	
	Welders	2	73	40%	72	
	Generator Sets	2	82	40%	81	
Metro E Line (Expo)/Bundy Station-Final Roadway Construction	Tractors/Loaders/Backhoes	2	80	40%	79	89
	Skid Steer Loaders	1	80	40%	76	
	Pavers	2	85	40%	84	
	Surfacing Equipment	1	80	40%	76	
	Sweepers/Scrubbers	1	85	40%	81	
	Rollers	2	85	40%	84	
Metro E Line (Expo)/Bundy Station-Station Finishes and Testing	Aerial Lifts	4	77	40%	79	84
	Generator Sets	1	82	40%	78	
	Forklifts	2	75	40%	74	
	Air Compressors	2	80	50%	80	
Vanowen St/Van Nuys Blvd TPSS-Site Preparation/Demolition	Tractors/Loaders/Backhoes	1	80	40%	76	84
	Trenchers	1	82	40%	78	
	Rollers	1	85	40%	81	
Vanowen St/Van Nuys Blvd TPSS-Foundation Construction	Pumps	1	77	50%	74	78
	Skid Steer Loaders	1	80	40%	76	
Vanowen St/Van Nuys Blvd TPSS-TPSS Installation	Cranes	1	83	50%	80	80
Magnolia TPSS-Site Preparation/Demolition	Tractors/Loaders/Backhoes	1	80	40%	76	84
	Trenchers	1	82	40%	78	
	Rollers	1	85	40%	81	
Magnolia TPSS-Foundation Construction	Pumps	1	77	50%	74	78
	Skid Steer Loaders	1	80	40%	76	
Magnolia TPSS-TPSS Installation	Cranes	1	83	50%	80	80
Mid Mountain Shaft TPSS-Site Preparation/Demolition	Tractors/Loaders/Backhoes	1	80	40%	76	84
	Trenchers	1	82	40%	78	
	Rollers	1	85	40%	81	
Mid Mountain Shaft TPSS-Foundation Construction	Pumps	1	77	50%	74	78
	Skid Steer Loaders	1	80	40%	76	
Mid Mountain Shaft TPSS-TPSS Installation	Cranes	1	83	50%	80	80
OMSF-Site Preparation/Demolition	Excavators	2	85	40%	84	87
	Cranes	1	83	20%	76	
	Rough Terrain Forklifts	1	80	40%	76	
	Rollers	1	85	40%	81	
	Pumps	2	77	50%	77	
OMSF-Grading	Excavators	2	85	40%	84	87
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Rollers	1	85	40%	81	
OMSF-Building Construction	Cranes	2	83	20%	79	90
	Rough Terrain Forklifts	2	80	40%	79	
	Aerial Lifts	6	77	40%	81	
	Generator Sets	2	82	40%	81	
	Air Compressors	4	80	50%	83	
	Welders	4	73	40%	75	
	Pumps	4	77	50%	80	
	Skid Steer Loaders	2	80	40%	79	
	Excavators	1	85	40%	81	
	Tractors/Loaders/Backhoes	1	80	40%	76	
OMSF-Pavements	Pavers	2	85	40%	84	88
	Rollers	2	85	40%	84	
	Sweepers/Scrubbers	1	85	40%	81	
	Pumps	2	77	50%	77	
OMSF-Drainage/Utilties	Excavators	2	85	40%	84	86
	Rollers	1	85	40%	81	
	Rough Terrain Forklifts	1	80	40%	76	
Precast Yard-Concrete Activity	Cranes	2	83	40%	82	85
	Rough Terrain Forklifts	2	80	40%	79	
	Tractors/Loaders/Backhoes	2	80	40%	79	
	Welders	2	73	40%	72	

Figure N-1. Alternative 6: Construction Equipment Noise Contours – View 1



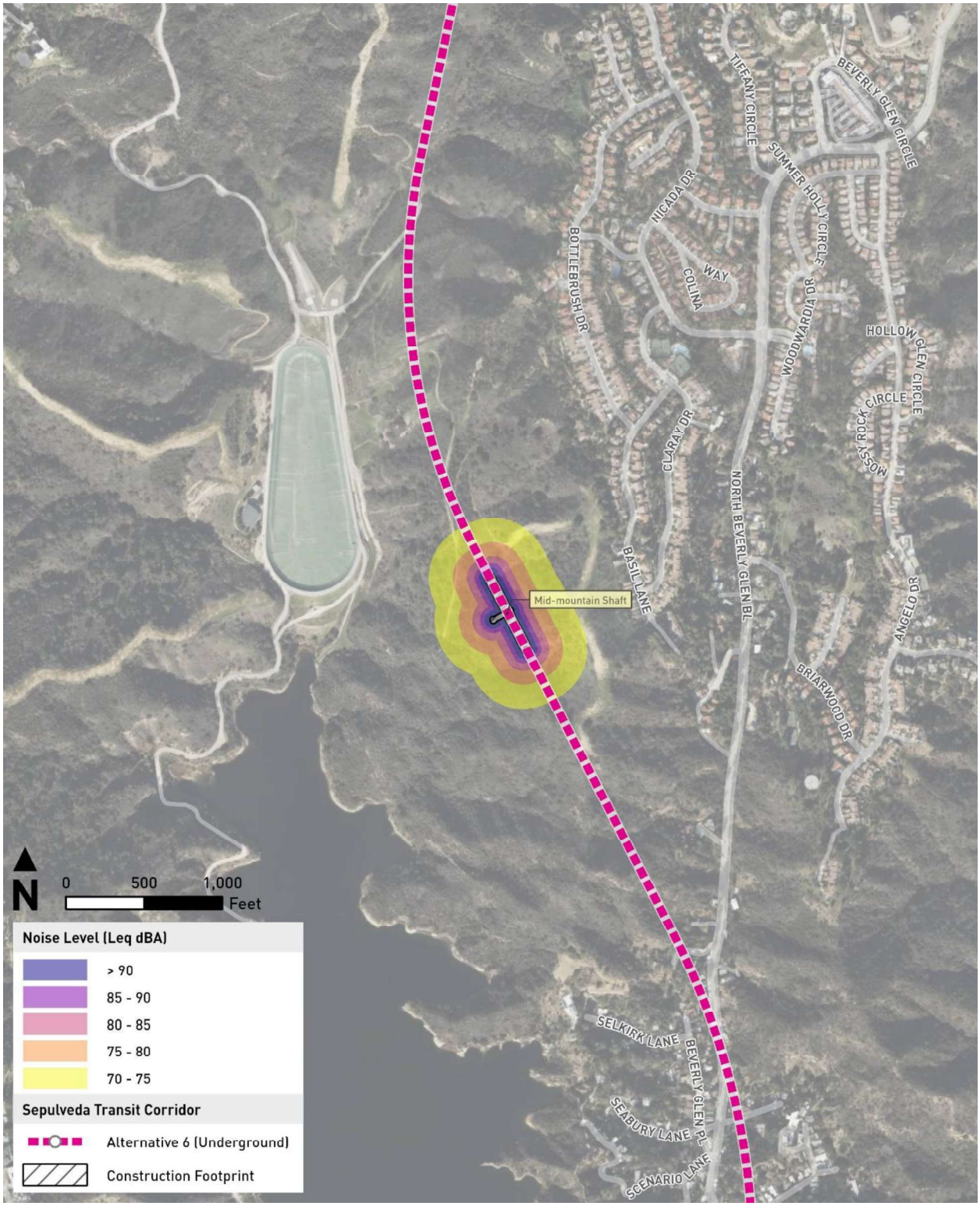
Source: HTA, 2024

Figure N-2. Alternative 6: Construction Equipment Noise Contours – View 2



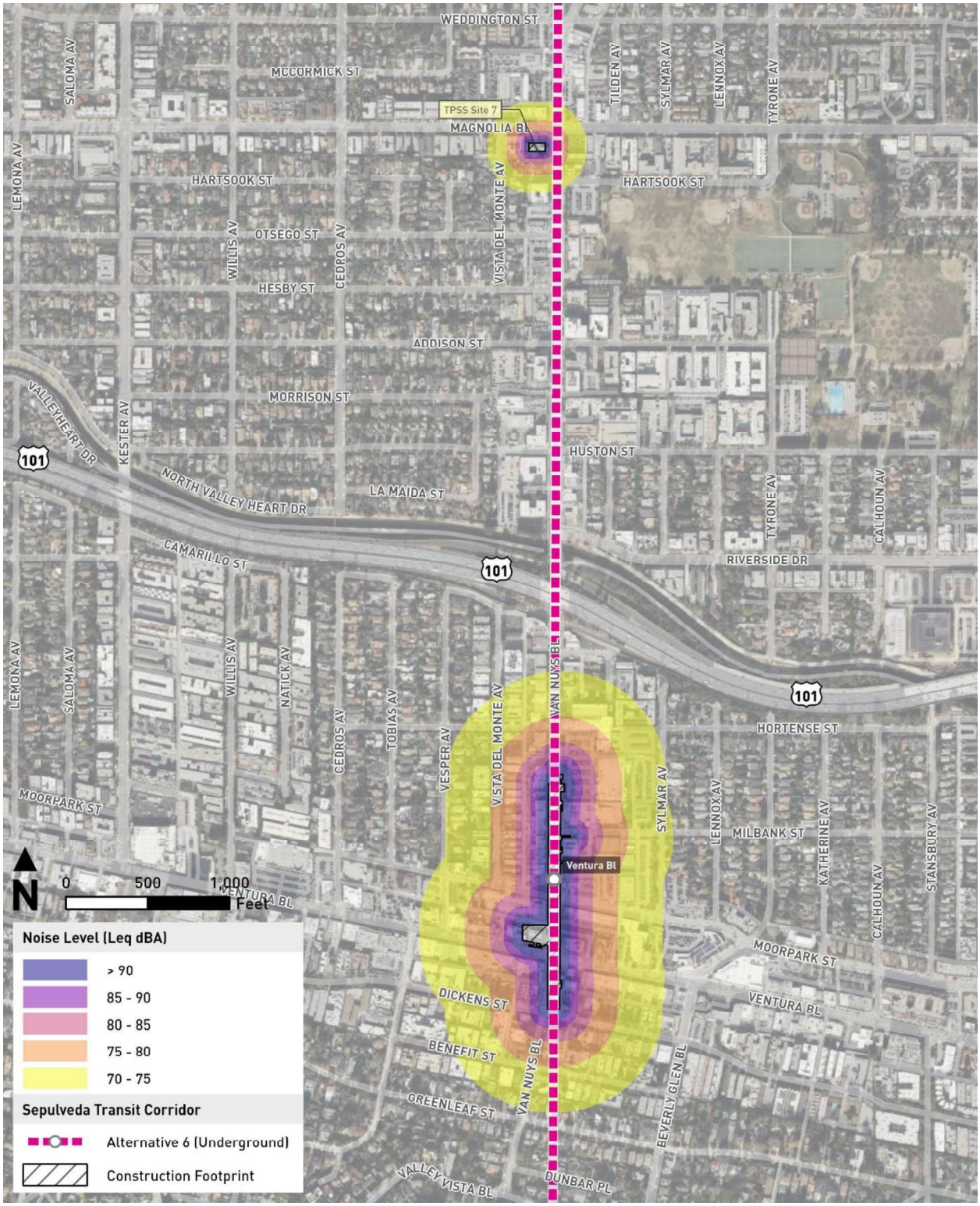
Source: HTA, 2024

Figure N-3. Alternative 6: Construction Equipment Noise Contours – View 3



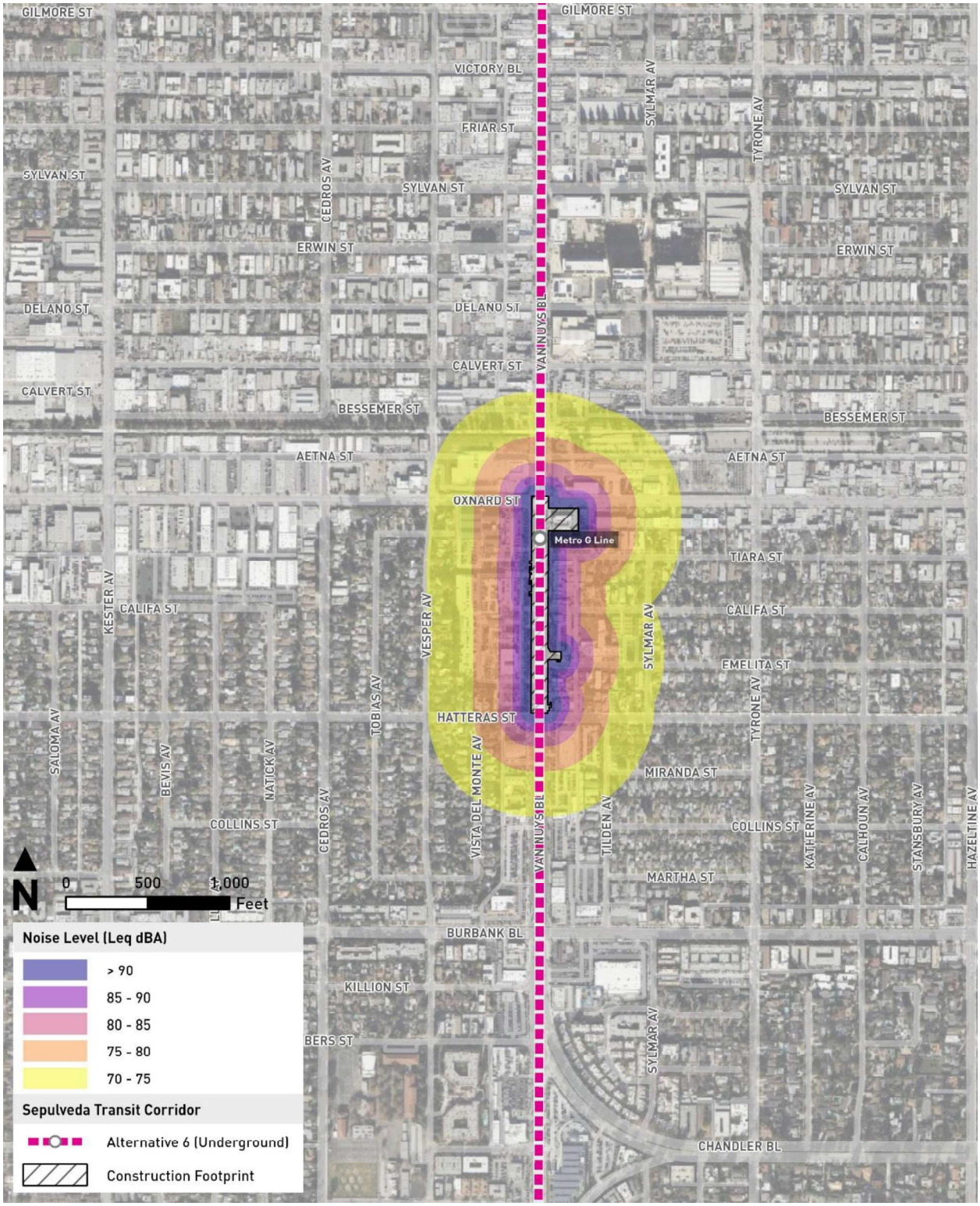
Source: HTA, 2024

Figure N-4. Alternative 6: Construction Equipment Noise Contours – View 4



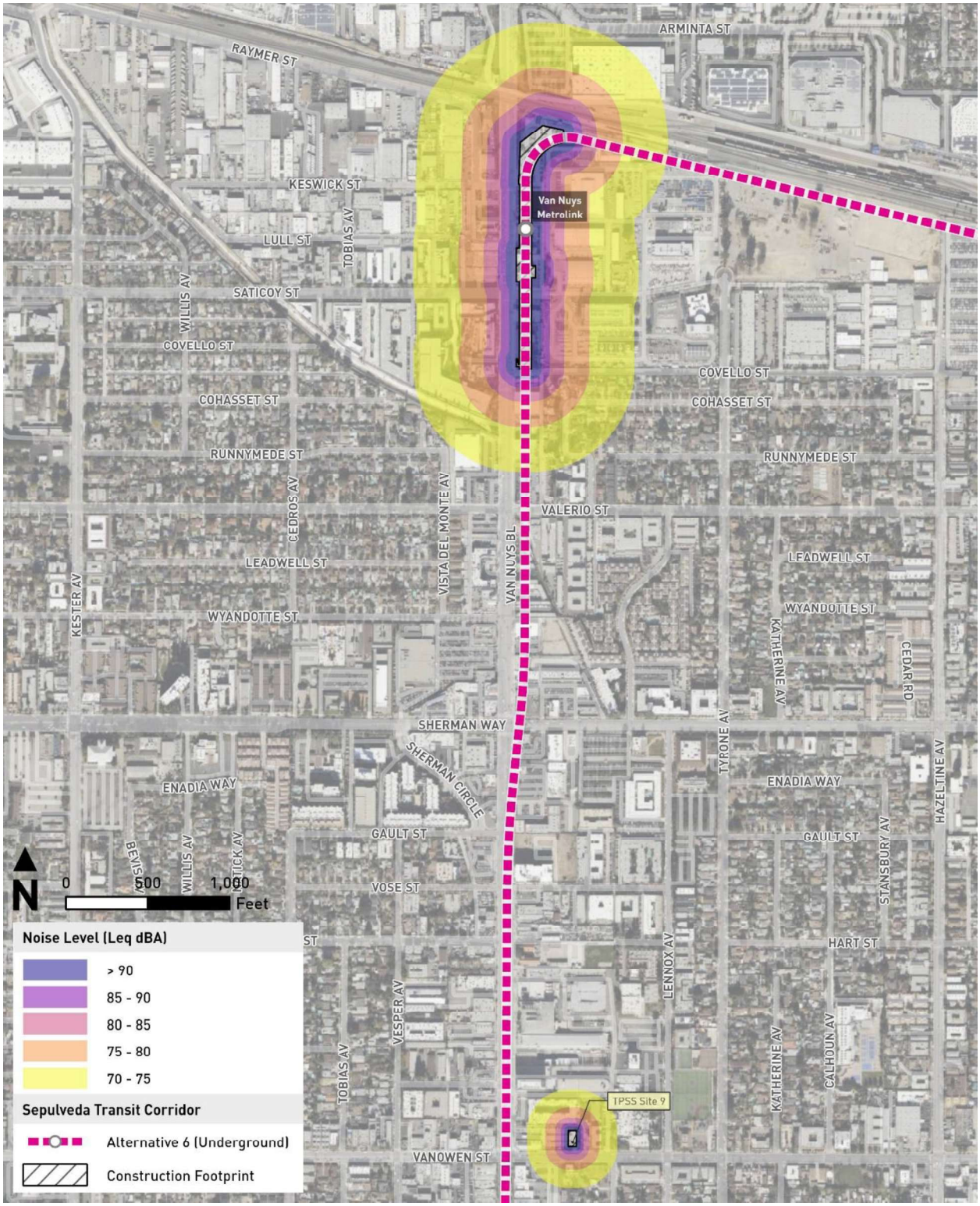
Source: HTA, 2024

Figure N-5. Alternative 6: Construction Equipment Noise Contours – View 5



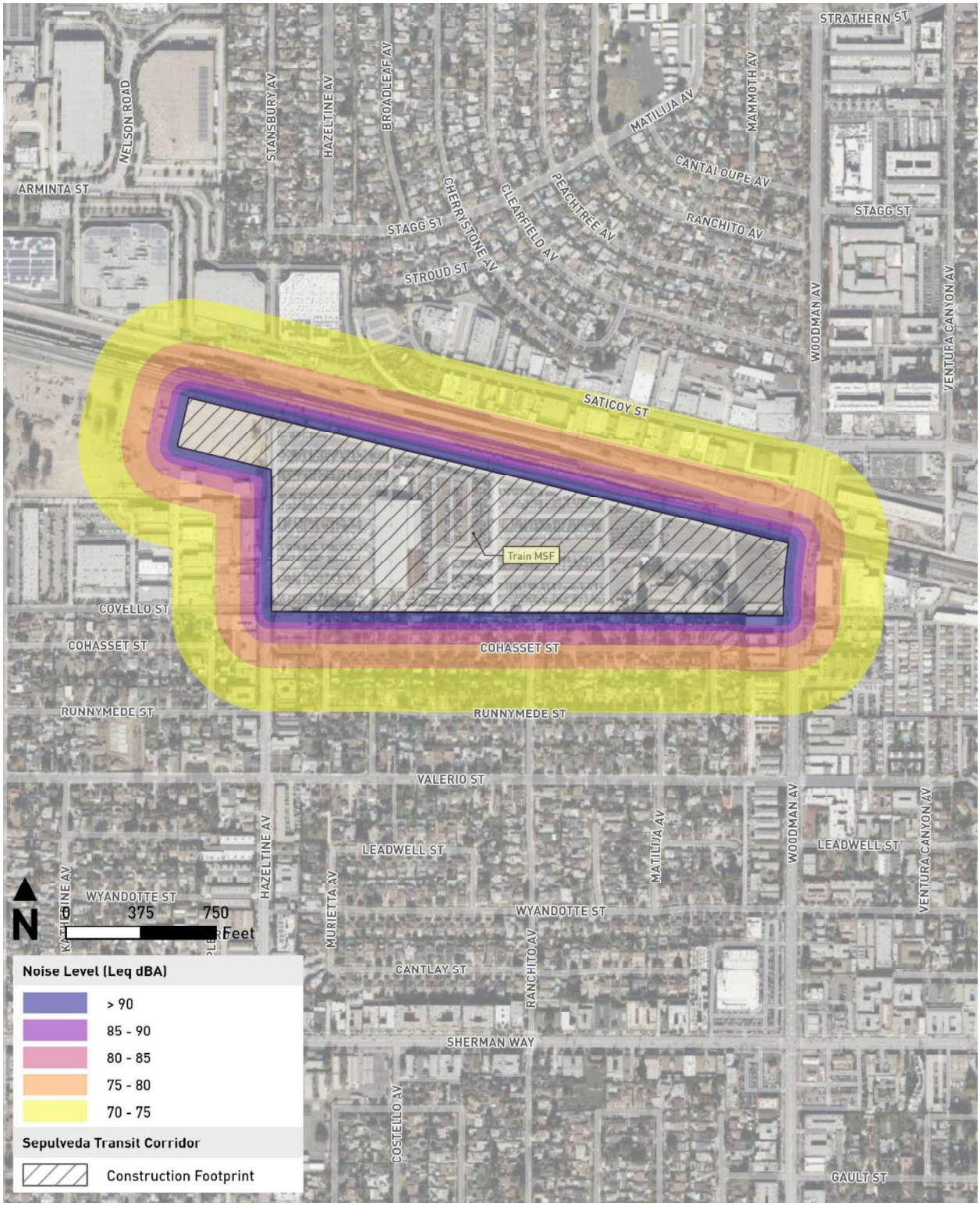
Source: HTA, 2024

Figure N-6. Alternative 6: Construction Equipment Noise Contours – View 6



Source: HTA, 2024

Figure N-7. Alternative 6: Construction Equipment Noise Contours – Proposed MSF



Source: HTA, 2024

Attachment 15. Alternative 6: Groundborne Vibration and Noise Assessment

/Description	City Block	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Crossover		Behind Station Structure?	Vibration Dampening Application				Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Ground Vibra Imp
						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
	East of Bundy - Pico Blvd to Exposition Blvd	SFR	2	71.5	10.0			Y					51	72	N
Pl		SFR	2	94.4	10.0			Y					50	72	N
Pl		SFR	2	131.8	10.0			Y					49	72	N
Pl		SFR	2	180.3	10.0			Y					48	72	N
		SFR	2	71.2	10.0		Y	Y					57	72	N
Pl		SFR	2	87.7	10.0		Y	Y					56	72	N
Pl		SFR	2	117.6	10.0		Y	Y					55	72	N
Pl		SFR	2	159.3	10.0			Y					49	72	N
		SFR	2	68.6	10.0	Y		Y					62	72	N
Ave		SFR	2	88.9	10.0	Y		Y					61	72	N
Ave		SFR	2	104.2	10.0		Y	Y					55	72	N
Ave		SFR	2	162.6	10.0		Y	Y					54	72	N
		SFR	2	68.9	10.0		Y	Y					57	72	N
Ave		SFR	2	88.3	10.0		Y	Y					56	72	N
Ave		SFR	2	116.3	10.0		Y	Y					55	72	N
Ave		SFR	2	159.8	10.0		Y	Y					54	72	N
		SFR	2	70.3	10.0			Y					52	72	N
Blvd		SFR	2	68.6	10.0		Y	Y					57	72	N
Blvd		SFR	2	91.3	10.0		Y	Y					56	72	N
Blvd		SFR	2	117.0	10.0		Y	Y					55	72	N
Blvd		SFR	2	145.6	10.0			Y					49	72	N
	West of Bundy - Pico Blvd to Exposition Blvd	MFR	2	76.1	10.0			Y					51	72	N
		SFR	2	158.5	10.0			Y					49	72	N
		SFR	2	74.7	10.0			Y					51	72	N
		SFR	2	156.3	10.0			Y					49	72	N
		SFR	2	75.4	10.0		Y	Y					56	72	N
		SFR	2	76.8	10.0		Y	Y					56	72	N
		SFR	2	155.3	10.0		Y	Y					54	72	N
		SFR	2	76.2	10.0	Y		Y					61	72	N
		SFR	2	158.0	10.0		Y	Y					54	72	N
		SFR	2	76.4	10.0	Y		Y					61	72	N
		SFR	2	77.4	10.0	Y		Y					61	72	N
		SFR	2	76.6	10.0		Y	Y					56	72	N
		SFR	2	164.4	10.0		Y	Y					53	72	N
		SFR	2	76.9	10.0		Y	Y					56	72	N
		SFR	2	179.8	10.0			Y					48	72	N
		SFR	2	76.7	10.0			Y					51	72	N
		SFR	2	76.9	10.0		Y	Y					56	72	N
		SFR	2	77.1	10.0		Y	Y					56	72	N
		SFR	2	70.4	10.0	Y		Y					62	72	N
Blvd		SFR	2	87.6	10.0	Y		Y					61	72	N
Blvd		SFR	2	114.6	10.0		Y	Y					55	72	N
Blvd		SFR	2	173.9	10.0		Y	Y					53	72	N
on															
e	East of Bundy - Exposition Blvd to Missouri Ave	TV Station	Special Bldg	539.8	25.0			Y					52	65	N
		Institutional	3	125.0	37.5			Y					61	75	N
c e		News Service	Special Bldg	579.9	37.5			Y					55	65	N
		TV Station	Special Bldg	82.2	42.5	Y		Y				Y	59	65	N
ve		MFR	2	85.0	42.5		Y				Y		63	72	N
Blvd	West of Bundy - Exposition Blvd to Nebraska Ave	MFR	2	80.4	22.5	Y		Y					68	72	N
Blvd		MFR	2	80.4	22.5		Y	Y					63	72	N
ctions Blvd #170		Film Production	Special Bldg	565.0	22.5			Y					51	65	N
Station		TV Station	Special Bldg	85.9	36.0		Y	Y			Y		57	65	N

/Description	City Block	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Crossover		Behind Station Structure?	Vibration Dampening Application				Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Ground Vibra Imp
						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
		MFR	2	80.3	37.5								68	72	N
ve	East of Bundy - Missouri Ave to Nebraska Ave	MFR	2	90.9	42.5								68	72	N
		MFR	2	90.7	42.5								68	72	N
		MFR	2	91.7	42.5								68	72	N
		MFR	2	89.2	42.5								68	72	N
e		SFR	2	192.2	42.5								65	72	N
		MFR	2	90.0	42.5								68	72	N
		MFR	2	91.1	42.5								68	72	N
		MFR	2	89.1	42.5								68	72	N
		MFR	2	89.6	42.5								68	72	N
		MFR	2	89.5	42.5								68	72	N
		MFR	2	90.7	42.5								68	72	N
		MFR	2	91.6	42.5								68	72	N
	West of Bundy - Nebraska Ave to Iowa Ave	SFR	2	85.1	37.5								67	72	N
		SFR	2	84.4	37.5								67	72	N
		SFR	2	83.7	37.5								67	72	N
		SFR	2	83.9	37.5								67	72	N
		SFR	2	178.2	37.5								65	72	N
		SFR	2	84.3	37.5								67	72	N
		SFR	2	83.1	37.5								67	72	N
		SFR	2	83.7	37.5								67	72	N
		SFR	2	82.5	38.0								68	72	N
	West of Bundy - Nebraska Ave to Iowa Ave	SFR	2	81.4	39.5								68	72	N
		SFR	2	82.7	40.0								68	72	N
		SFR	2	82.6	41.0								68	72	N
		SFR	2	81.9	42.0								68	72	N
		SFR	2	81.8	42.5								69	72	N
		SFR	2	120.2	42.5								67	72	N
ve	East of Bundy - Nebraska Ave to Iowa Ave	MFR	2	173.6	42.5								66	72	N
ve		MFR	2	108.5	42.5								68	72	N
ve		MFR	2	81.4	42.5								69	72	N
		MFR	2	82.6	42.5								69	72	N
		MFR	2	164.6	42.5								66	72	N
		MFR	2	181.4	42.5								66	72	N
		MFR	2	149.6	42.5								66	72	N
		MFR	2	115.8	42.5								67	72	N
		MFR	2	82.3	42.5								69	72	N
		MFR	2	155.5	42.5								66	72	N
e		MFR	2	83.7	42.5								68	72	N
		MFR	2	81.5	42.5								69	72	N
	West of Bundy - Iowa Ave to Idaho Ave	SFR	2	166.0	42.5								66	72	N
		MFR	2	79.4	42.5								69	72	N
		MFR	2	80.5	42.5								69	72	N
		MFR	2	101.1	42.5								68	72	N
		MFR	2	128.4	42.5								67	72	N
		MFR	2	134.8	42.5								67	72	N
		MFR	2	148.9	42.5								66	72	N
		MFR	2	181.3	42.5								66	72	N
	East of Bundy - Iowa Ave to Idaho Ave	MFR	2	78.2	42.5								69	72	N
		MFR	2	77.7	42.5								69	72	N
		MFR	2	94.3	42.5								68	72	N
		MFR	2	127.3	42.5								67	72	N
		MFR	2	79.7	42.5								69	72	N
		MFR	2	80.5	42.5								69	72	N
reschool		Institutional	3	81.1	42.5								69	75	N
		MFR	2	81.5	42.5								69	72	N
		MFR	2	81.8	42.5								69	72	N
		MFR	2	82.6	42.5								69	72	N
		MFR	2	82.3	42.5								69	72	N

/Description	City Block	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Crossover		Behind Station Structure?	Vibration Dampening Application				Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Ground Vibra Imp
						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
	Idaho Ave to Santa Monica Blvd	MFR	2	105.5	42.5								68	72	N
	West of Brockton Ave - Idaho Ave to Santa Monica Blvd	MFR	2	134.1	42.5								67	72	N
		MFR	2	157.1	42.5								66	72	N
		SFR	2	193.1	42.5								65	72	N
		MFR	2	83.6	42.5								68	72	N
		MFR	2	83.9	42.5								68	72	N
		MFR	2	83.8	42.5								68	72	N
		MFR	2	89.3	42.5								68	72	N
		MFR	2	108.2	42.5								68	72	N
		MFR	2	120.9	42.5								67	72	N
e		MFR	2	114.7	42.5								67	72	N
e		MFR	2	112.9	42.5								67	72	N
e		MFR	2	85.5	42.5								68	72	N
e		MFR	2	83.7	42.5								68	72	N
e		MFR	2	83.3	42.5								69	72	N
e		MFR	2	82.9	42.5								69	72	N
e		MFR	2	84.1	42.5								68	72	N
e		MFR	2	93.2	42.5								68	72	N
e		MFR	2	119.7	42.5								67	72	N
e	Brockton Ave to Westgate Ave- Idaho Ave to Santa Monica Blvd	MFR	2	198.3	42.5								65	72	N
e		MFR	2	171.5	42.5								66	72	N
e		MFR	2	123.5	42.5								67	72	N
e		MFR	2	99.7	42.5								68	72	N
e		MFR	2	82.9	42.5								69	72	N
e		MFR	2	80.1	42.5								69	72	N
e		MFR	2	92.0	42.5								68	72	N
e		MFR	2	170.0	42.5								66	72	N
e		MFR	2	126.2	42.5								67	72	N
e		MFR	2	97.9	42.5								68	72	N
e		MFR	2	83.9	42.5								68	72	N
e		MFR	2	79.5	42.5								69	72	N
e		MFR	2	161.4	42.5								66	72	N
Ave		MFR	2	201.0	42.5								65	72	N
ca Blvd	South of Santa Monica Blvd - Westgate Ave to Barrington Ave	MFR/Mixed	2	74.0	42.5								69	72	N
Ave		MFR	2	73.9	42.5								69	72	N
c Blvd		MFR/Mixed	2	73.9	42.5								69	72	N
e		MFR	2	150.2	42.5								66	72	N
e		MFR	2	73.9	42.5								69	72	N
ca Blvd		MFR/Mixed	2	74.4	42.5								69	72	N
tal Association ca blvd	North of Santa Monica Blvd - Westgate Ave to Barrington Ave	Medical	3	77.2	42.5								69	75	N
		MFR	2	141.8	42.5								67	72	N
ca Blvd		MFR	2	82.6	42.5			Y					64	72	N
tion															
Ave	North of Santa Monica Blvd - Barrington Ave to Butler Ave	MFR	2	183.6	42.5			Y					61	72	N
Ave		MFR	2	140.6	41.0			Y					61	72	N
		MFR	2	159.4	25.0			Y					57	72	N
		MFR	2	179.5	5.0			Y					42	72	N
		MFR	2	158.0	10.0		Y	Y					54	72	N
		MFR	2	133.6	24.0		Y	Y					62	72	N
ca Blvd		MFR/Mixed	2	94.1	25.0		Y	Y					63	72	N
		MFR	2	162.6	32.0		Y	Y					64	72	N
		MFR/Mixed	2	97.1	38.0		Y	Y					67	72	N
ca Blvd		Movie Theater	Special Bldg	98.4	57.0		Y				Y		65	72	N
ca Blvd	South of Santa Monica Blvd - Barrington Ave to Butler Ave	MFR/Mixed	2	85.4	38.0		Y	Y					67	72	N
		MFR	2	200.9	44.0			Y					61	72	N
h Medical Center ca Blvd		Medical	3	96.5	55.0		Y			Y			70	75	N
Ave		MFR	2	212.2	56.0								68	72	N

/Description	City Block	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Crossover		Behind Station Structure?	Vibration Dampening Application				Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Ground Vibra Imp
						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
ca Blvd	South of Santa Monica Blvd - Butler Ave to I-405	Film Production	Special Bldg	252.2	67.5						Y		59	65	N
op ca Blvd	North of Santa Monica Blvd - Butler Ave to I-405	Commercial	3	98.0	42.5								68	75	N
Piercing ca Blvd		Commercial	3	98.0	42.5								68	75	N
ca Blvd		MFR/Mixed	2	99.0	42.5								68	72	N
ssage ca Blvd		Commercial	3	102.7	67.0								72	75	N
ic ca Blvd		Medical	1	104.0	67.5						Y		62	65	N
		MFR	2	132.2	42.5								67	72	N
Ear ca Blvd		Medical	1	104.0	67.5						Y		62	65	N
ms		Recreational	3	104.0	67.5								72	75	N
e etts Ave		Medical	3	115.9	42.5								67	75	N
d		Institutional	3	106.8	67.5								72	75	N
		MFR	2	116.2	67.5				Y				66	72	N
		MFR	2	112.4	67.5				Y				66	72	N
		MFR	2	106.0	67.5				Y				67	72	N
etts Ave	I-405 to Sepulveda Blvd	MFR	2	194.2	67.5								69	72	N
ystems		Commercial	3	112.2	59.0								70	75	N
		MFR	2	180.3	67.5						Y		60	72	N
l hospital vd		Medical	1	111.2	67.5						Y		61	65	N
nting Company Blvd		Commercial	3	112.6	67.5								71	75	N
Blvd	Sepulveda Blvd to Veteran Ave	TV Station	Special Bldg	200.4	67.5						Y		59	65	N
		MFR	2	169.9	67.5				Y				65	72	N
e		MFR	2	152.3	67.5				Y				65	72	N
e		MFR	2	113.5	67.5				Y				66	72	N
e		MFR	2	113.3	67.5				Y				66	72	N
e		MFR	2	113.0	67.5				Y				66	72	N
e		MFR	2	169.9	67.5				Y				65	72	N
e		MFR	2	172.0	67.5				Y				65	72	N
e		MFR	2	114.0	67.5				Y				66	72	N
e		MFR	2	114.5	67.5				Y				66	72	N
e		MFR	2	120.0	67.5				Y				66	72	N
e		MFR	2	140.1	67.5				Y				66	72	N
e		MFR	2	163.2	67.5				Y				65	72	N
e		MFR	2	193.7	67.5								69	72	N
		MFR	2	114.3	67.5				Y				66	72	N
		MFR	2	114.3	65.0				Y				66	72	N
		MFR	2	162.7	67.5				Y				65	72	N
		MFR	2	114.8	67.5				Y				66	72	N
		MFR	2	115.1	67.5				Y				66	72	N
		MFR	2	120.0	67.5				Y				66	72	N
		MFR	2	114.9	60.0				Y				65	72	N
		MFR	2	114.6	67.5				Y				66	72	N
		MFR	2	115.5	67.5				Y				66	72	N
		MFR	2	116.0	67.5				Y				66	72	N
		MFR	2	126.0	67.5				Y				66	72	N
ve		MFR	2	122.9	67.5				Y				66	72	N
ve		MFR	2	126.2	67.5				Y				66	72	N
ve		MFR	2	142.3	67.5				Y				66	72	N

/Description	City Block	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Crossover		Behind Station Structure?	Vibration Dampening Application				Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Ground Vibra Imp
						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
	Veteran Ave to Wilshire/Metro D Line/Gayley Station	MFR	2	254.5	67.5								68	72	N
		MFR	2	199.3	67.5								69	72	N
		MFR	2	150.7	66.0				Y				65	72	N
		MFR	2	122.2	65.0				Y				66	72	N
		MFR	2	188.7	65.0								69	72	N
		MFR	2	161.1	65.0				Y				65	72	N
Ave		MFR	2	122.5	64.5				Y				66	72	N
Ave		MFR	2	142.5	64.0				Y				65	72	N
Ave		MFR	2	122.7	64.0				Y				66	72	N
Ave		MFR	2	122.7	64.0				Y				66	72	N
Ave		MFR	2	162.9	64.0				Y				65	72	N
Ave		MFR	2	201.6	64.0								69	72	N
Ave		MFR	2	204.4	64.0								69	72	N
Ave		MFR	2	161.8	64.0				Y				65	72	N
Ave		MFR	2	125.0	63.0				Y				65	72	N
Ave		MFR	2	133.6	63.0				Y				65	72	N
		MFR	2	163.9	63.0								69	72	N
Ave		MFR	2	123.0	57.0				Y				65	72	N
Ave		MFR	2	130.9	42.5								67	72	N
		MFR	2	196.0	57.0								68	72	N
		MFR	2	130.6	57.0								69	72	N
		MFR	2	124.8	57.0				Y				65	72	N
		MFR	2	230.0	42.5								65	72	N
		MFR	2	197.4	42.5								65	72	N
		MFR	2	125.0	57.0				Y				65	72	N
Line/Gayley Station															
	Wilshire/Metro D Line/Gayley Station to Le Conte Ave	Institutional	3	160.2	6.0			Y					44	75	N
		MFR/Mixed	2	145.2	38.0			Y					61	72	N
gement , #2000		Recording Studio	Special Bldg	470.4	43.0				Y				57	65	N
, #1100		Video Production	Special Bldg	470.4	43.0				Y				57	65	N
on		Institutional	3	146.2	39.0								66	75	N
, #1100		Video Production	Special Bldg	508.1	51.0				Y				59	65	N
stwood , #2803		Movie Theater	Special Bldg	215.5	42.5								65	72	N
lvd		Institutional	3	140.5	52.0								68	75	N
od - Isolation Spa lvd		Spa	3	137.1	52.5								69	75	N
g, Admissions & Review vd		Institutional	3	125.6	52.5								69	75	N
oldberg Medical Building r	Le Conte Ave to UCLA Station	Medical	1	119.7	42.5						Y		57	65	N
, Oculoplastics Division iveway		Institutional	1	130.3	42.5						Y		57	65	N
Manoukian Medical Building r		Hospital	1	114.7	42.5						Y		57	65	N
ute for Neuroscience aza		Institutional	1	123.2	42.5						Y		57	65	N
Research Center aza		Institutional	1	107.5	42.5						Y		58	65	N
CLA Medical Center aza		Hospital	1	139.0	42.5						Y		57	65	N
eid) Center ng Dr S		Institutional	1	105.5	42.5						Y		58	65	N

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						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
VI aza	UCLA Station to Sunset Blvd	Institutional	1	133.7	42.5		Y	Y			Y		57	65	N
aza		Institutional	3	127.9	38.0			Y					61	75	N
aza		Institutional	3	132.7	42.5								67	75	N
aza		Theater	3	143.4	52.5								68	72	N
aza		Institutional	3	135.9	52.5								69	75	N
ng Dr		Institutional	3	137.1	52.5								69	75	N
ng Dr		Institutional	3	136.2	52.5								69	75	N
	Sunset Blvd to Bellagio Rd	SFR	2	157.6	52.5								68	72	N
		SFR	2	162.0	52.5								68	72	N
Rd		SFR	2	168.9	52.5								68	72	N
		SFR	2	191.1	52.5								67	72	N
		SFR	2	189.0	59.0								68	72	N
		SFR	2	239.0	52.5								67	72	N
	Bellagio Rd to Bel Air Rd	SFR	2	181.1	62.0								69	72	N
Rd		SFR	2	219.2	67.5								69	72	N
Rd		SFR	2	198.3	67.5								69	72	N
Rd		SFR	2	177.1	67.5								70	72	N
Rd		SFR	2	221.6	67.5								69	72	N
Rd		SFR	2	241.1	67.5								69	72	N
		SFR	2	358.1	67.5								67	72	N
		SFR	2	372.9	67.5								67	72	N
a Rd		SFR	2	391.0	67.5								67	72	N
a Rd		SFR	2	438.5	67.5								67	72	N
a		SFR	2	446.0	67.5								66	72	N
a		SFR	2	521.5	67.5								66	72	N
		SFR	2	372.4	67.5								67	72	N
		SFR	2	330.0	67.5								68	72	N
		SFR	2	309.9	67.5								68	72	N
		SFR	2	358.1	67.5								67	72	N
		SFR	2	431.5	67.5								67	72	N
		SFR	2	405.0	67.5								67	72	N
		SFR	2	508.0	67.5								66	72	N
		SFR	2	596.0	67.5								65	72	N
		SFR	2	624.6	67.5								65	72	N
		SFR	2	625.0	67.5								65	72	N
		SFR	2	630.0	67.5								65	72	N
		SFR	2	600.8	67.5								65	72	N
		SFR	2	570.7	67.5								66	72	N
	Bel Air Rd to Corfu Lane	SFR	2	619.6	67.5								65	72	N
		SFR	2	597.3	67.5								65	72	N
		SFR	2	504.3	67.5								66	72	N
		SFR	2	534.9	67.5								66	72	N
		SFR	2	460.0	67.5								66	72	N
		SFR	2	404.3	67.5								67	72	N
		SFR	2	450.2	67.5								66	72	N
		SFR	2	456.1	67.5								66	72	N
		SFR	2	374.8	67.5								67	72	N
		SFR	2	356.9	67.5								67	72	N
		SFR	2	388.2	67.5								67	72	N
		SFR	2	390.0	67.5								67	72	N
		SFR	2	409.3	67.5								67	72	N
lal Ln		SFR	2	433.8	67.5								67	72	N
		SFR	2	394.9	67.5								67	72	N
		SFR	2	371.6	67.5								67	72	N
		SFR	2	404.7	67.5								67	72	N
		SFR	2	419.0	67.5								67	72	N
		SFR	2	432.3	67.5								67	72	N
		SFR	2	449.1	67.5								66	72	N
		SFR	2	415.0	67.5								67	72	N

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						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
en Blvd	Bel Air Rd to Corfu Lane	SFR	2	241.8	67.5								69	72	N
en Blvd		SFR	2	220.0	67.5								69	72	N
en Blvd		SFR	2	222.1	67.5								69	72	N
en Blvd		SFR	2	226.5	67.5								69	72	N
en Blvd		SFR	2	232.8	67.5								69	72	N
en Blvd		SFR	2	236.0	67.5								69	72	N
en Blvd		SFR	2	236.8	67.5								69	72	N
en Blvd		SFR	2	278.4	67.5								68	72	N
en Blvd		SFR	2	289.8	67.5								68	72	N
en Blvd		SFR	2	253.3	67.5								69	72	N
en Blvd		SFR	2	240.9	67.5								69	72	N
en Blvd		SFR	2	232.2	67.5								69	72	N
en Blvd		SFR	2	229.0	67.5								69	72	N
en Blvd		SFR	2	229.4	67.5								69	72	N
en Blvd		SFR	2	237.9	67.5								69	72	N
en Blvd		SFR	2	231.1	67.5								69	72	N
		SFR	2	253.4	67.5								69	72	N
en Blvd		SFR	2	287.3	67.5								68	72	N
en Blvd		SFR	2	251.2	67.5								69	72	N
en Blvd		SFR	2	229.5	67.5								69	72	N
en Blvd	Corfu Lane to Hebron Lane	SFR	2	230.1	67.5								69	72	N
en Blvd		SFR	2	271.4	67.5								68	72	N
		SFR	2	271.4	67.5								68	72	N
		SFR	2	286.9	67.5								68	72	N
en Blvd		SFR	2	256.2	67.5								68	72	N
en Blvd		SFR	2	231.0	67.5								69	72	N
en Blvd		SFR	2	231.4	67.5								69	72	N
en Blvd		SFR	2	231.0	67.5								69	72	N
en Blvd		SFR	2	230.1	67.5								69	72	N
en Blvd		SFR	2	232.4	67.5								69	72	N
en Blvd		SFR	2	229.0	67.5								69	72	N
en Blvd		SFR	2	228.0	67.5								69	72	N
en Blvd		SFR	2	253.7	67.5								69	72	N
en Blvd		SFR	2	238.6	67.5								69	72	N
en Blvd		SFR	2	234.7	67.5								69	72	N
en Blvd		SFR	2	234.2	67.5								69	72	N
en Blvd		SFR	2	237.0	67.5								69	72	N
en Blvd		SFR	2	230.7	67.5								69	72	N
en Blvd		SFR	2	242.6	67.5								69	72	N
en Blvd		SFR	2	230.6	67.5								69	72	N
en Blvd		SFR	2	231.6	67.5								69	72	N
en Blvd		SFR	2	245.0	67.5								69	72	N
		SFR	2	306.8	67.5								68	72	N
en Blvd		SFR	2	232.0	67.5								69	72	N
en Blvd		SFR	2	229.1	67.5								69	72	N
		SFR	2	268.5	67.5								68	72	N
en Blvd		SFR	2	230.0	67.5								69	72	N
en Blvd		SFR	2	243.0	67.5								69	72	N
en Blvd		SFR	2	247.1	67.5								69	72	N
		SFR	2	279.7	67.5								68	72	N
en Blvd		SFR	2	260.5	67.5								68	72	N
en Blvd		SFR	2	233.0	67.5								69	72	N
en Blvd		SFR	2	235.8	67.5								69	72	N
	Hebron Lane to Oletha Lane	SFR	2	380.3	67.5								67	72	N
		SFR	2	345.7	67.5								67	72	N
en Blvd		SFR	2	234.0	67.5								69	72	N
		SFR	2	270.8	67.5								68	72	N
en Blvd		SFR	2	235.1	67.5								69	72	N
en Blvd		SFR	2	276.8	67.5								68	72	N
en Blvd		SFR	2	236.2	67.5								69	72	N

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						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
		SFR	2	278.2	67.5								68	72	N
en Blvd		SFR	2	280.4	67.5								68	72	N
en Blvd		SFR	2	248.9	67.5								69	72	N
en Blvd		SFR	2	251.3	67.5								69	72	N
		SFR	2	254.6	67.5								68	72	N
en Blvd		SFR	2	238.3	67.5								69	72	N
en Blvd		SFR	2	267.1	67.5								68	72	N
		SFR	2	299.5	67.5								68	72	N
		SFR	2	319.3	67.5								68	72	N
en Blvd		SFR	2	262.5	67.5								68	72	N
en Blvd		SFR	2	258.1	67.5								68	72	N
en Blvd		SFR	2	255.8	67.5								68	72	N
en Blvd		SFR	2	262.8	67.5								68	72	N
en Blvd		SFR	2	248.0	67.5								69	72	N
en Blvd		SFR	2	251.7	67.5								69	72	N
en Blvd		SFR	2	250.0	67.5								69	72	N
en Blvd		SFR	2	254.2	67.5								68	72	N
en Blvd		SFR	2	249.0	67.5								69	72	N
		SFR	2	349.9	67.5								67	72	N
		SFR	2	297.0	67.5								68	72	N
en Blvd		SFR	2	249.1	67.5								69	72	N
en Blvd		SFR	2	253.2	67.5								69	72	N
en Blvd		SFR	2	282.2	67.5								68	72	N
en Blvd		SFR	2	254.0	67.5								69	72	N
en Blvd		SFR	2	254.3	67.5								68	72	N
		SFR	2	329.7	67.5								68	72	N
		SFR	2	284.0	67.5								68	72	N
		SFR	2	268.0	67.5								68	72	N
		SFR	2	327.4	67.5								68	72	N
en Blvd		SFR	2	259.7	67.5								68	72	N
mum Ln	**Hebron Lane to Oletha Lane**	SFR	2	314.2	67.5								68	72	N
mum Ln		SFR	2	270.0	67.5								68	72	N
mum Ln		SFR	2	319.8	67.5								68	72	N
en Blvd		SFR	2	254.0	67.5								69	72	N
en Blvd		SFR	2	294.4	67.5								68	72	N
en Blvd		SFR	2	289.6	67.5								68	72	N
en Blvd		SFR	2	253.2	67.5								69	72	N
en Blvd		SFR	2	269.2	67.5								68	72	N
en Blvd		SFR	2	251.6	67.5								69	72	N
en Blvd		SFR	2	248.0	67.5								69	72	N
mum Ln		SFR	2	269.7	67.5								68	72	N
mum Ln		SFR	2	299.3	67.5								68	72	N
en Blvd		SFR	2	245.5	67.5								69	72	N
en Blvd		SFR	2	245.4	67.5								69	72	N
en Blvd		SFR	2	248.6	67.5								69	72	N
en Blvd		SFR	2	258.1	67.5								68	72	N
en Blvd		SFR	2	249.3	67.5								69	72	N
		SFR	2	371.8	67.5								67	72	N
en Blvd		SFR	2	266.1	67.5								68	72	N
en Blvd		SFR	2	255.1	67.5								68	72	N
		SFR	2	261.2	67.5								68	72	N
		SFR	2	335.1	67.5								68	72	N
en Blvd		SFR	2	260.1	67.5								68	72	N
		SFR	2	274.7	67.5								68	72	N
en Blvd		SFR	2	258.0	67.5								68	72	N
		SFR	2	270.3	67.5								68	72	N
		SFR	2	286.7	67.5								68	72	N
en Blvd		SFR	2	261.0	67.5								68	72	N
		SFR	2	274.6	67.5								68	72	N
		SFR	2	278.2	67.5								68	72	N

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						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
en Blvd	Oletha Ln to Seabury Ln	SFR	2	276.0	67.5								68	72	N
		SFR	2	262.3	67.5								68	72	N
	Oletha Ln to Seabury Ln	SFR	2	264.2	67.5								68	72	N
en Blvd		SFR	2	280.0	67.5								68	72	N
		SFR	2	265.4	67.5								68	72	N
		SFR	2	270.8	67.5								68	72	N
		SFR	2	282.4	67.5								68	72	N
		SFR	2	296.5	67.5								68	72	N
		SFR	2	309.6	67.5								68	72	N
		SFR	2	330.0	67.5								68	72	N
en Blvd		SFR	2	302.5	67.5								68	72	N
en Blvd		SFR	2	319.9	67.5								68	72	N
en Blvd		SFR	2	312.8	67.5								68	72	N
en Blvd		SFR	2	310.7	67.5								68	72	N
en Blvd		SFR	2	289.7	67.5								68	72	N
en Blvd		SFR	2	285.6	67.5								68	72	N
en Blvd		SFR	2	283.6	67.5								68	72	N
en Blvd		SFR	2	274.2	67.5								68	72	N
en Blvd		SFR	2	298.4	67.5								68	72	N
Pl		SFR	2	316.1	67.5								68	72	N
en Blvd		SFR	2	283.2	67.5								68	72	N
en Blvd		SFR	2	284.1	67.5								68	72	N
		SFR	2	346.3	67.5								67	72	N
		SFR	2	284.7	67.5								68	72	N
		SFR	2	284.0	67.5								68	72	N
		SFR	2	295.6	67.5								68	72	N
	Seabury Ln to Ruthven Ln	SFR	2	296.2	67.5								68	72	N
		SFR	2	313.2	67.5								68	72	N
		SFR	2	378.5	67.5								67	72	N
Pl		SFR	2	304.9	67.5								68	72	N
Pl		SFR	2	303.6	67.5								68	72	N
		SFR	2	288.2	67.5								68	72	N
Pl		SFR	2	292.2	67.5								68	72	N
		SFR	2	295.2	67.5								68	72	N
Pl		SFR	2	303.4	67.5								68	72	N
en Blvd		SFR	2	288.7	67.5								68	72	N
Pl		SFR	2	281.4	67.5								68	72	N
Pl		SFR	2	289.8	67.5								68	72	N
Pl		SFR	2	288.1	67.5								68	72	N
en Blvd		SFR	2	312.0	67.5								68	72	N
Pl		SFR	2	283.2	67.5								68	72	N
en Blvd		SFR	2	320.1	67.5								68	72	N
en Blvd		SFR	2	320.9	67.5								68	72	N
Pl		SFR	2	288.2	67.5								68	72	N
Pl		SFR	2	284.7	67.5								68	72	N
Pl		SFR	2	283.0	67.5								68	72	N
Pl		SFR	2	332.3	67.5								68	72	N
Pl		SFR	2	286.2	67.5								68	72	N
		SFR	2	330.5	67.5								68	72	N
		SFR	2	304.8	67.5								68	72	N
en Blvd		SFR	2	308.3	67.5								68	72	N
en Blvd		SFR	2	309.4	67.5								68	72	N
en Blvd		SFR	2	306.8	67.5								68	72	N
en Blvd		SFR	2	399.2	67.5								67	72	N
en Blvd		SFR	2	305.8	67.5								68	72	N
en Blvd		SFR	2	376.0	67.5								67	72	N
en Blvd		SFR	2	324.9	67.5								68	72	N
		SFR	2	349.7	67.5								67	72	N
en Blvd		SFR	2	343.6	67.5								67	72	N
		SFR	2	411.4	67.5								67	72	N

Description	City Block	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Crossover		Behind Station Structure?	Vibration Dampening Application				Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Ground Vibra Imp
						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
Dr	Ruthven Ln to Mulholland Drive	SFR	2	753.3	67.5								65	72	N
Dr	Mulholland Drive To Beverly Glen Blvd	SFR	2	677.2	67.5								65	72	N
Dr		SFR	2	702.4	67.5								65	72	N
Dr		SFR	2	666.8	67.5								65	72	N
Dr		SFR	2	651.6	67.5								65	72	N
Terrace		SFR	2	539.0	67.5								66	72	N
Terrace		SFR	2	523.3	67.5								66	72	N
Terrace		SFR	2	509.2	67.5								66	72	N
Blvd		SFR	2	460.1	67.5								66	72	N
Blvd		SFR	2	479.8	67.5								66	72	N
Blvd		SFR	2	435.9	67.5								67	72	N
Dr		SFR	2	399.6	67.5								67	72	N
Dr		SFR	2	376.1	67.5								67	72	N
Dr		SFR	2	398.4	67.5								67	72	N
Dr		SFR	2	396.6	67.5								67	72	N
Dr		SFR	2	376.5	67.5								67	72	N
Dr		SFR	2	360.5	67.5								67	72	N
Dr		SFR	2	363.9	67.5								67	72	N
Dr		SFR	2	360.1	67.5								67	72	N
Dr		SFR	2	362.7	67.5								67	72	N
		SFR	2	377.0	67.5								67	72	N
Dr		SFR	2	352.8	67.5								67	72	N
Dr		SFR	2	336.9	67.5								67	72	N
Dr	Mulholland Drive To Beverly Glen Blvd	SFR	2	331.2	67.5								68	72	N
		SFR	2	349.0	67.5								67	72	N
		SFR	2	330.6	67.5								68	72	N
		SFR	2	318.8	67.5								68	72	N
		SFR	2	311.9	67.5								68	72	N
		SFR	2	308.2	67.5								68	72	N
lley Rd		SFR	2	287.9	67.5								68	72	N
lley Rd		SFR	2	275.9	67.5								68	72	N
lley Rd		SFR	2	324.9	67.5								68	72	N
lley Rd		SFR	2	271.9	67.5								68	72	N
lley Rd		SFR	2	303.9	67.5								68	72	N
lley Rd		SFR	2	269.6	67.5								68	72	N
lley Rd		SFR	2	296.1	67.5								68	72	N
lley Rd		SFR	2	266.2	67.5								68	72	N
lley Rd		SFR	2	287.7	67.5								68	72	N
lley Rd		SFR	2	258.3	67.5								68	72	N
lley Rd		SFR	2	252.1	67.5								69	72	N
lley Rd		SFR	2	272.2	67.5								68	72	N
lley Rd		SFR	2	258.1	67.5								68	72	N
lley Rd		SFR	2	251.1	67.5								69	72	N
lley Rd		SFR	2	252.4	67.5								69	72	N
lley Rd		SFR	2	249.3	67.5								69	72	N
lley Rd		SFR	2	249.8	67.5								69	72	N
lley Rd		SFR	2	239.9	67.5								69	72	N
lley Rd		SFR	2	240.1	67.5								69	72	N
lley Rd		SFR	2	240.6	67.5								69	72	N
lley Rd		SFR	2	236.1	67.5								69	72	N
lley Rd		SFR	2	243.5	67.5								69	72	N
lley Rd		SFR	2	230.6	67.5								69	72	N
lley Rd		SFR	2	226.4	67.5								69	72	N
lley Rd		SFR	2	223.6	67.5								69	72	N
lley Rd		SFR	2	226.8	67.5								69	72	N
lley Rd		SFR	2	230.2	67.5								69	72	N
lley Rd		SFR	2	223.5	67.5								69	72	N
lley Rd		SFR	2	230.1	67.5								69	72	N
lley Rd		SFR	2	285.9	67.5								68	72	N
lley Rd		SFR	2	224.0	67.5								69	72	N

Description	City Block	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Crossover		Behind Station Structure?	Vibration Dampening Application				Calculated Vibration Level (VdB)	Vibration Impact Criterion (VdB)	Ground Vibra Imp
						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
lley Rd	Mulholland Drive To Beverly Glen Blvd	SFR	2	271.3	67.5								68	72	N
lley Rd		SFR	2	221.7	67.5								69	72	N
lley Rd		SFR	2	224.5	67.5								69	72	N
lley Rd		SFR	2	232.8	67.5								69	72	N
lley Rd		SFR	2	224.4	67.5								69	72	N
lley Rd		SFR	2	279.7	67.5								68	72	N
lley Rd		SFR	2	280.2	67.5								68	72	N
lley Rd		SFR	2	277.3	67.5								68	72	N
lley Rd		SFR	2	297.3	67.5								68	72	N
Blvd	Beverly Glen Blvd to Valley Vista Blvd	SFR	2	247.1	67.5								69	72	N
		SFR	2	221.2	67.5								69	72	N
		SFR	2	229.8	67.5								69	72	N
		SFR	2	208.1	67.5								69	72	N
		SFR	2	269.9	67.5								68	72	N
Blvd		SFR	2	208.3	67.5								69	72	N
		SFR	2	248.2	67.5								69	72	N
		SFR	2	256.2	67.5								68	72	N
		SFR	2	218.8	67.5								69	72	N
Blvd, Sherman Oaks		SFR	2	193.1	67.5								69	72	N
Blvd, Sherman Oaks		SFR	2	201.0	67.5								69	72	N
		SFR	2	260.4	67.5								68	72	N
		SFR	2	266.4	67.5								68	72	N
		SFR	2	243.9	67.5								69	72	N
		SFR	2	253.3	67.5								69	72	N
		SFR	2	263.5	67.5								68	72	N
		SFR	2	275.4	67.5								68	72	N
		SFR	2	289.5	67.5								68	72	N
		SFR	2	303.5	67.5								68	72	N
		SFR	2	299.0	67.5								68	72	N
		SFR	2	277.3	67.5								68	72	N
		SFR	2	249.7	67.5								69	72	N
		SFR	2	241.1	67.5								69	72	N
		SFR	2	279.5	67.5								68	72	N
		SFR	2	240.4	67.5								69	72	N
		SFR	2	235.7	67.5								69	72	N
		SFR	2	234.5	67.5								69	72	N
Blvd, Sherman Oaks		SFR	2	194.7	67.5								69	72	N
		SFR	2	168.2	67.5				Y				65	72	N
		SFR	2	182.3	67.5				Y				65	72	N
		SFR	2	188.0	67.5				Y				65	72	N
		SFR	2	172.7	67.5				Y				65	72	N
		SFR	2	179.1	67.0				Y				65	72	N
		SFR	2	184.9	67.0				Y				65	72	N
		SFR	2	181.3	66.0				Y				65	72	N
		SFR	2	181.6	65.5								69	72	N
		SFR	2	304.3	67.5								68	72	N
		SFR	2	188.1	67.5				Y				65	72	N
		SFR	2	188.7	67.5				Y				65	72	N
		SFR	2	184.1	62.0								69	72	N
		SFR	2	189.0	62.0								69	72	N
		SFR	2	199.6	60.0								68	72	N
		SFR	2	194.6	61.0								69	72	N
		SFR	2	190.8	58.0								68	72	N
		SFR	2	217.5	59.0								68	72	N
		SFR	2	223.7	57.0								67	72	N
		SFR	2	192.6	56.5								68	72	N
		SFR	2	248.4	54.0								67	72	N
		SFR	2	198.7	54.0								67	72	N
		SFR	2	230.8	51.0								66	72	N
		SFR	2	212.9	48.0								66	72	N

/Description	City Block	Land Use Type	FTA Category	Distance to Track (ft)	Vehicle Speed (mph)	Crossover		Behind Station Structure?	Vibration Dampening Application				Calculated Vibration Level (VdB)	Impact Criterion (VdB)	Ground Vibra Imp
						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
ey Dr	Beverly Glen Blvd to Valley Vista Blvd	SFR	2	230.3	67.5								69	72	N
		SFR	2	209.6	67.5								69	72	N
		SFR	2	184.3	67.5				Y				65	72	N
		SFR	2	163.5	67.5				Y				65	72	N
		SFR	2	149.4	67.5				Y				65	72	N
		SFR	2	185.9	67.5				Y				65	72	N
		SFR	2	141.8	67.5				Y				66	72	N
		SFR	2	155.6	67.5				Y				65	72	N
		SFR	2	245.8	47.5								66	72	N
		SFR	2	198.1	47.5								66	72	N
		SFR	2	142.1	67.5				Y				66	72	N
		SFR	2	152.4	67.5				Y				65	72	N
		SFR	2	136.2	67.5				Y				66	72	N
Blvd, Sherman Oaks		SFR	2	181.5	47.5								67	72	N
Blvd, Sherman Oaks		SFR	2	159.6	67.5				Y				65	72	N
Blvd, Sherman Oaks		SFR	2	128.7	67.5				Y				66	72	N
Blvd, Sherman Oaks		SFR	2	128.9	67.5				Y				66	72	N
Blvd, Sherman Oaks		SFR	2	149.7	67.5				Y				65	72	N
Blvd, Sherman Oaks		SFR	2	181.3	67.5				Y				65	72	N
Blvd, Sherman Oaks		SFR	2	117.2	67.5				Y				66	72	N
Sherman Oaks		SFR	2	210.4	47.0								66	72	N
Sherman Oaks		SFR	2	183.0	67.5				Y				65	72	N
Sherman Oaks		SFR	2	130.2	67.5				Y				66	72	N
Sherman Oaks		SFR	2	103.9	67.5				Y				67	72	N
Sherman Oaks		SFR	2	106.1	67.5				Y				67	72	N
Sherman Oaks		SFR	2	130.0	67.5				Y				66	72	N
Sherman Oaks		SFR	2	173.4	67.5				Y				65	72	N
Sherman Oaks		SFR	2	207.2	67.5								69	72	N
Sherman Oaks		SFR	2	146.8	67.5				Y				65	72	N
Sherman Oaks		SFR	2	109.0	67.5				Y				67	72	N
Sherman Oaks		SFR	2	98.3	67.5				Y				67	72	N
Sherman Oaks		SFR	2	102.4	67.5				Y				67	72	N
Sherman Oaks		SFR	2	155.3	67.5				Y				65	72	N
t, Sherman Oaks		SFR	2	213.3	42.5								65	72	N
t, Sherman Oaks		SFR	2	176.0	42.5								66	72	N
t, Sherman Oaks		SFR	2	165.9	67.5				Y				65	72	N
t, Sherman Oaks		SFR	2	127.4	67.5				Y				66	72	N
t, Sherman Oaks		SFR	2	101.3	67.5				Y				67	72	N
t, Sherman Oaks		SFR	2	92.5	67.5				Y				67	72	N
t, Sherman Oaks		SFR	2	90.6	67.0				Y				67	72	N
t, Sherman Oaks	Valley Vista Blvd to	SFR	2	104.9	67.0				Y				67	72	N
d, Sherman Oaks	Ventura Blvd/Van Nuys Blvd Station Entrance	SFR	2	140.9	66.5				Y				65	72	N
t, Sherman Oaks		SFR	2	201.5	42.5								65	72	N
t, Sherman Oaks		SFR	2	158.4	42.5								66	72	N
t, Sherman Oaks		Recording Studio	Special Bldg.	149.4	65.5						Y		60	65	N
t, Sherman Oaks		SFR	2	114.1	65.5				Y				66	72	N
t, Sherman Oaks		SFR	2	91.1	65.5				Y				67	72	N
t, Sherman Oaks		SFR	2	88.5	65.5				Y				67	72	N
t, Sherman Oaks		SFR	2	91.8	65.5				Y				67	72	N
t, Sherman Oaks		SFR	2	113.5	64.5				Y				66	72	N
m Children's Center d, Sherman Oaks		Institutional	3	84.5	63.0								72	75	N
d, Sherman Oaks		MFR	2	191.1	61.5								69	72	N
Sherman Oaks		MFR	2	84.5	64.5				Y				67	72	N
Sherman Oaks		MFR	2	100.1	64.5				Y				66	72	N
Sherman Oaks		MFR	2	130.3	64.5				Y				66	72	N
Sherman Oaks		MFR	2	169.6	64.5				Y				65	72	N
Sherman Oaks		MFR	2	175.7	42.5								66	72	N
Sherman Oaks		MFR	2	221.0	42.5								65	72	N

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						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
m vd, Sherman Oaks	**Valley Vista Blvd to Ventura Blvd/Van Nuys Blvd Station Entrance**	Religious	3	80.5	58.5								71	75	N
ys Blvd, Sherman Oaks		MFR	2	162.3	58.0								69	72	N
vd, Sherman Oaks		MFR	2	150.4	57.0								69	72	N
vd, Sherman Oaks		MFR	2	132.1	54.0		Y		Y				69	72	N
vd, Sherman Oaks		MFR	2	76.5	57.0		Y				Y		66	72	N
vd, Sherman Oaks		Medical	3	76.5	54.0		Y		Y				71	75	N
Sherman Oaks		MFR	2	106.3	42.5								68	72	N
Sherman Oaks		MFR	2	110.8	42.5								67	72	N
Sherman Oaks		MFR	2	152.5	42.5								66	72	N
Sherman Oaks		MFR	2	193.7	42.5								65	72	N
Sherman Oaks		MFR	2	177.5	42.5		Y		Y				66	72	N
Sherman Oaks		MFR	2	133.7	42.5		Y		Y				67	72	N
Sherman Oaks		MFR/Mixed	2	92.0	48.0		Y	Y					69	72	N
Nuys Blvd Station															
nte Ave, Sherman Oaks	**Ventura Blvd/Van Nuys Blvd Station Entrance to State Route 101**	MFR	2	192.1	20.0			Y					54	72	N
vd, Sherman Oaks		Film Production	Special Bldg.	75.9	38.0			Y	Y				58	65	N
nte Ave, Sherman Oaks		MFR	2	191.5	36.0			Y					59	72	N
nte Ave, Sherman Oaks		MFR	2	190.2	42.5								66	72	N
lios vd, Sherman Oaks		Recording Studio	Special Bldg.	78.6	42.5						Y		59	65	N
College vd, Sherman Oaks		Institutional	3	79.8	62.0								72	75	N
nce Studio vd, Sherman Oaks		Dance School	3	80.4	42.5								69	75	N
dios + Joe Anthony Studios vd, Sherman Oaks		Acting Schools	3	81.6	63.0								72	75	N
herman Oaks		MFR	2	174.3	60.0								69	72	N
herman Oaks		MFR	2	172.0	64.0								69	72	N
nte Ave, Sherman Oaks		MFR	2	192.1	42.5								65	72	N
nte Ave, Sherman Oaks		MFR	2	194.4	42.5								65	72	N
nte Ave, Sherman Oaks		MFR	2	204.0	42.5								65	72	N
vd, Sherman Oaks	**State Route 101 to Magnolia Blvd**	Medical	3	95.3	67.5								72	75	N
vd, Sherman Oaks		Medical	3	95.5	67.5								72	75	N
r, Sherman Oaks		SFR	2	197.2	67.5								69	72	N
herman Oaks		SFR	2	195.5	67.5								69	72	N
herman Oaks		SFR	2	223.0	67.5								69	72	N
herman Oaks		SFR	2	205.6	67.5								69	72	N
vd, Sherman Oaks		Medical	3	98.6	53.0								70	75	N
vd, Sherman Oaks		Medical	3	98.7	58.0								71	75	N
vd, Sherman Oaks		Medical	3	97.2	67.5								72	75	N
vd, Sherman Oaks		Hospital	2	96.4	64.0				Y				67	72	N
vd, Sherman Oaks		MFR	2	97.4	67.5				Y				67	72	N
vd, Sherman Oaks		Medical	3	94.7	67.5								72	75	N
vd, Sherman Oaks		Medical	3	95.3	67.5								72	75	N
vd, Sherman Oaks		Medical	3	92.4	67.5								72	75	N
herman Oaks		MFR	2	199.7	67.5								69	72	N
herman Oaks		MFR	2	199.6	67.5								69	72	N
Sherman Oaks		SFR	2	198.2	67.5								69	72	N
herman Oaks		MFR	2	232.9	67.5								69	72	N
herman Oaks		SFR	2	201.5	67.5								69	72	N
Sherman Oaks		SFR	2	200.6	67.5								69	72	N
t Valley Adult Center vd, Sherman Oaks		Institutional	3	96.3	67.5								72	75	N
nte Ave, Sherman Oaks		SFR	2	214.7	67.5								69	72	N
nte Ave, Sherman Oaks		SFR	2	214.3	67.5								69	72	N
lvd, Sherman Oaks		MFR	2	195.3	67.5								69	72	N
herman Oaks		MFR	2	187.2	67.5				Y				65	72	N
herman Oaks		MFR	2	197.6	67.5								69	72	N

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						<100'	100-200'		HRDF	Spring Frogs	Resiliently Supported Ties/Mats	Floating Slab			
erman Oaks	Magnolia Blvd to Burbank Blvd	MFR	2	145.5	67.5				Y				66	72	N
Sherman Oaks		MFR	2	194.0	67.5								69	72	N
Sherman Oaks		MFR	2	118.0	52.5								69	72	N
nte Ave, Sherman Oaks	Burbank Blvd to Oxnard St	SFR	2	222.5	67.5								69	72	N
nte Ave, Sherman Oaks		SFR	2	214.4	67.5								69	72	N
nte Ave, Sherman Oaks		SFR	2	206.0	62.0								69	72	N
vd, Sherman Oaks		Medical	3	78.4	42.5		Y	Y					69	75	N
sic School vd, Sherman Oaks		Institutional	3	83.9	23.0		Y	Y					63	75	N
el Van Nuys vd, Sherman Oaks		Mortuary	3	84.1	17.0			Y					56	75	N
ulveda Station															
vd, Van Nuys	Oxnard St to Victory Blvd	Medical	3	77.1	42.5								69	75	N
ng Chpel vd, Van Nuys		Religious	3	79.1	42.5								69	75	N
an Nuys		MFR	2	203.8	42.5								65	72	N
n Nuys		Film Production	Special Bldg.	456.0	42.5				Y				57	65	N
Jacob vd, Van Nuys	Victory Blvd to Vanowen St	Religious	3	78.7	67.5								73	75	N
Pain Specialists vd, Van Nuys		Medical	3	81.6	67.5								73	75	N
osts vd, Van Nuys		Religious	3	79.5	67.5								73	75	N
Academy vd, Van Nuys		Institutional	3	79.3	67.5								73	75	N
vd, Van Nuys	Vanowen St to Sherman Way	Medical	3	121.7	52.5								69	75	N
, Van Nuys		MFR	2	179.1	59.0								69	72	N
High School of the Arts vd, Van Nuys		Institutional	3	79.8	52.5								70	75	N
vd, Van Nuys		Religious	3	80.9	52.5								70	75	N
Center vd, Van Nuys		Medical	3	84.2	62.0								72	75	N
vd, Van Nuys		MFR	2	86.8	52.5				Y				65	72	N
vd, Van Nuys		MFR	2	143.6	52.5								68	72	N
rch vd, Van Nuys		Religious	3	86.5	52.5								70	75	N
n Nuys		SFR	2	168.9	52.5								68	72	N
vd, Van Nuys		MFR	2	75.6	52.5				Y				66	72	N
n Nuys		SFR	2	216.0	52.5								67	72	N
r, Van Nuys		MFR	2	233.1	52.5								67	72	N
's Care Clinic vd, Van Nuys	Sherman Way to End of Corridor	Medical	3	67.3	52.5								71	75	N
vd, Van Nuys		Medical	3	164.5	52.5								68	75	N
Van Nuys		MFR	2	105.8	22.5								62	72	N
Van Nuys		MFR	2	192.1	22.5								60	72	N
Van Nuys		MFR	2	110.1	17.5								60	72	N
Van Nuys		MFR	2	182.4	17.5								58	72	N
Van Nuys		SFR	2	111.7	17.5								60	72	N
Van Nuys		SFR	2	110.4	17.5								60	72	N
, Van Nuys		SFR	2	132.3	17.5								59	72	N
nk Station															