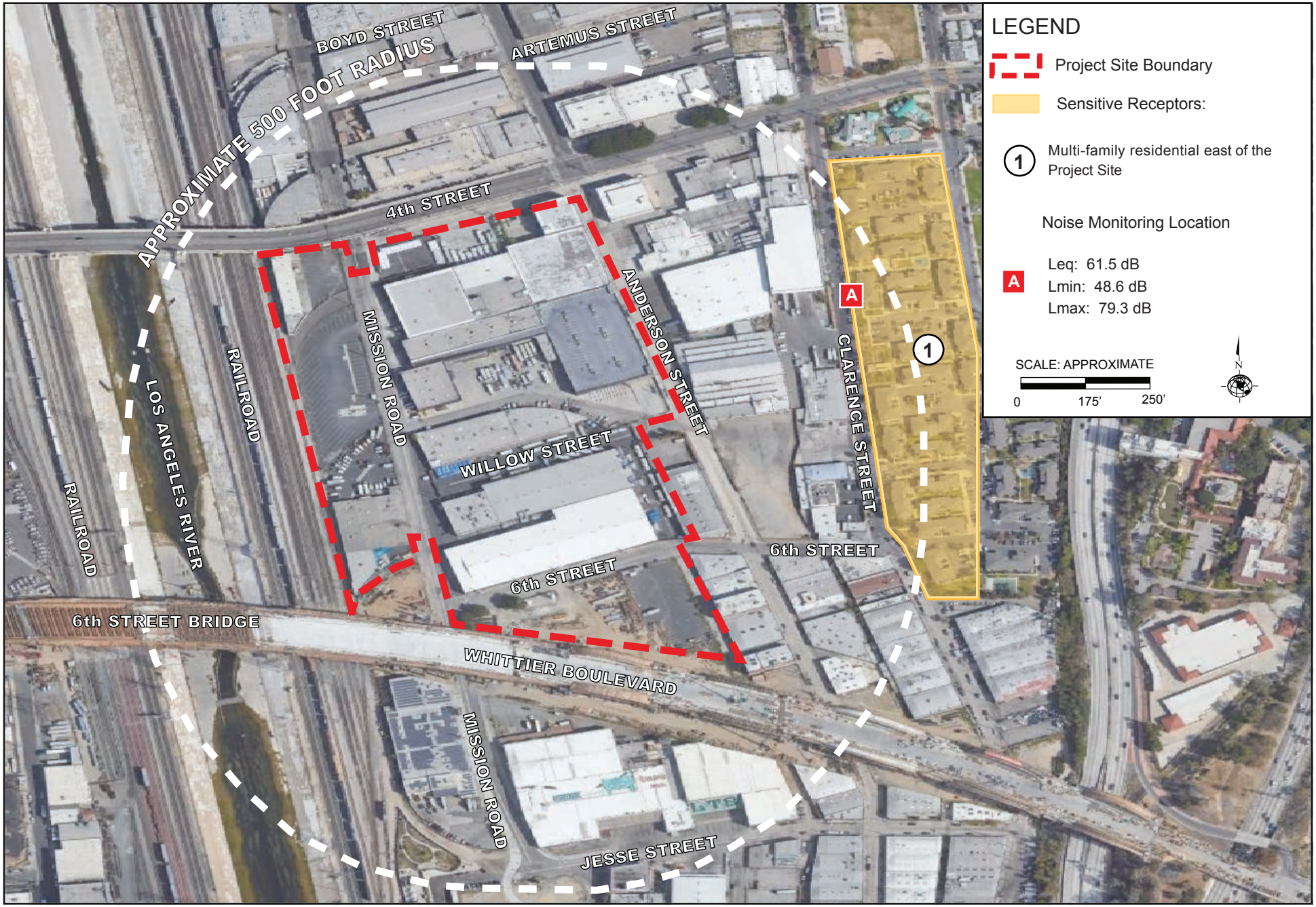
Appendix G

Noise Monitoring Data and Calculation Worksheets



Source: Google Earth, Aerial View, 2020.

Figure 4-2
Noise Monitoring and Sensitive Receptor Location Map

Measurement Report

Report Summary

Meter's File Name	831_Data.125.s	Computer's File Name	831C_10304-20230216 120553-831_Data.125.ldbin
Meter	831C 10304		
Firmware	04.5.1R0		
User	Adrianna Gjonaj	Location A:	Clarence St and 6th Street
Job Description	Ace Mission Studios		
Note			
Start Time	2023-02-16 12:05:53	Duration	0:15:00.0
End Time	2023-02-16 12:20:53	Run Time	0:15:00.0
		Pause Time	0:00:00.0

Results

Overall Metrics

LA_{eq}	61.5 dB		
LAE	91.0 dB	SEA	--- dB
EA	140.5 µPa²h	LAFTM5	66.3 dB
LZ_{peak}	104.8 dB	2023-02-16 12:08:31	
LAS_{max}	79.3 dB	2023-02-16 12:17:45	
LAS_{min}	48.6 dB	2023-02-16 12:20:08	
LA_{eq}	61.5 dB		
LC_{eq}	77.1 dB	LC_{eq} - LA_{eq}	15.6 dB
LAI_{eq}	63.8 dB	LAI_{eq} - LA_{eq}	2.4 dB

Exceedances	Count	Duration
LAS > 65.0 dB	9	0:01:00.8
LAS > 85.0 dB	0	0:00:00.0
LZpeak > 135.0 dB	0	0:00:00.0
LZpeak > 137.0 dB	0	0:00:00.0
LZpeak > 140.0 dB	0	0:00:00.0

Community Noise	LDN	LDay	LNight
	61.5 dB	61.5 dB	0.0 dB

	LDEN	LDay	LEve	LNight
	61.5 dB	61.5 dB	--- dB	--- dB

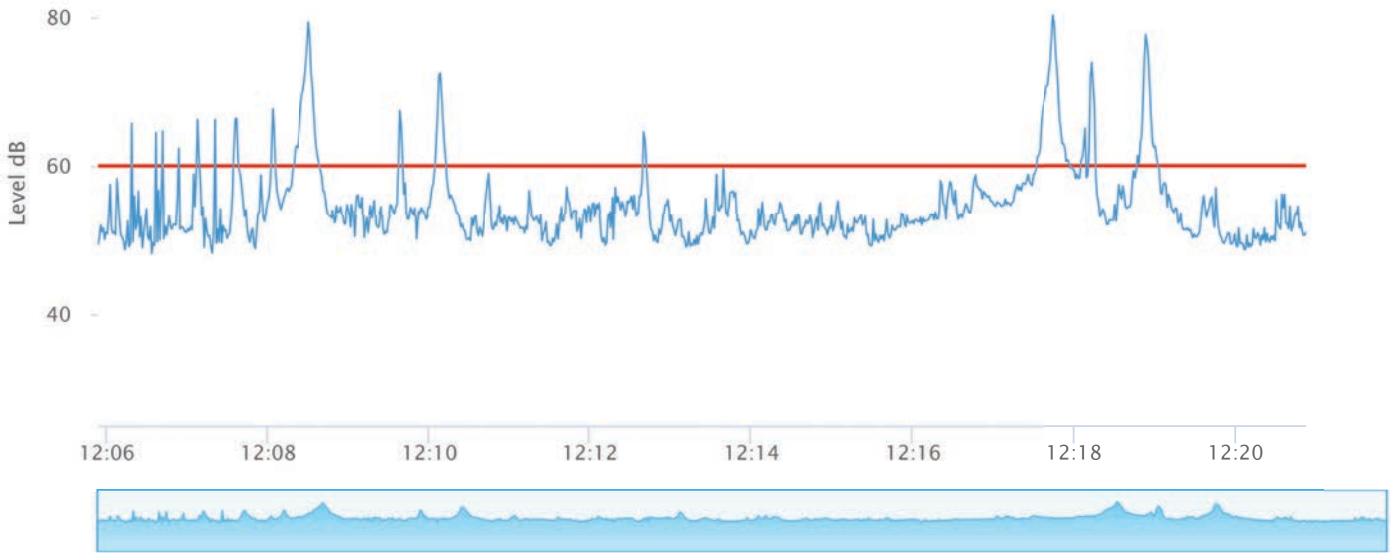
Any Data	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	61.5 dB		77.1 dB		78.7 dB	
$Ls_{(max)}$	79.3 dB	2023-02-16 12:17:45	95.6 dB	2023-02-16 12:08:32	97.1 dB	2023-02-16 12:08:32
$LF_{(max)}$	80.7 dB	2023-02-16 12:17:45	97.1 dB	2023-02-16 12:08:31	98.6 dB	2023-02-16 12:08:31
$LI_{(max)}$	81.7 dB	2023-02-16 12:08:31	97.7 dB	2023-02-16 12:08:31	99.4 dB	2023-02-16 12:08:31
$LS_{(min)}$	48.6 dB	2023-02-16 12:20:08	62.4 dB	2023-02-16 12:06:15	67.6 dB	2023-02-16 12:05:54
$LF_{(min)}$	47.0 dB	2023-02-16 12:06:17	60.5 dB	2023-02-16 12:05:53	65.3 dB	2023-02-16 12:06:16
$LI_{(min)}$	48.7 dB	2023-02-16 12:20:07	62.9 dB	2023-02-16 12:05:59	68.8 dB	2023-02-16 12:07:12
$L_{Peak(max)}$	98.7 dB	2023-02-16 12:06:18	103.3 dB	2023-02-16 12:08:30	104.8 dB	2023-02-16 12:08:31

Overloads	Count	Duration
	0	0:00:00.0

Statistics

LAS 5.0	66.0 dB
LAS 10.0	61.1 dB
LAS 33.3	54.7 dB
LAS 50.0	53.3 dB
LAS 66.6	52.3 dB
LAS 90.0	50.4 dB

Time History



Report date: 10/25/25
Project: Ace Mission Studios
Phase: Grading

RECEPTOR #1		
		Ambient/Baseline (dBA)
Description	Land Use	Daytime
Multi-family residential east of the Project Site	Residential	61.5

Equipment						Without Attenuation			With Attenuation		
						Estimated Shielding	Calculated (dBA)		Estimated Shielding	Calculated (dBA)	
Description	Impact Device	Usage(%)	Spec. Max (dBA)	Actual Max (dBA)	Receptor Distance to Project Site (Feet)	(dBA)	*Lmax	Leq	(dBA)	*Lmax	Leq
Excavator	No	40	85	81	1000	10	45.0	41.0	0	45.0	41.0
Excavator	No	40	85	81	1000	10	45.0	41.0	0	45.0	41.0
Grader	No	40	85	NA	1000	10	49.0	45.0	0	49.0	45.0
Rubber Tired Dozer	No	40	85	82	1000	10	46.0	42.0	0	46.0	42.0
Scraper	No	40	85	84	1000	10	48.0	44.0	0	48.0	44.0
Scraper	No	40	85	84	1000	10	48.0	44.0	0	48.0	44.0
Tractor/Loader/Backhoe	No	80	85	NA	1000	10	49.0	48.0	0	49.0	48.0
Tractor/Loader/Backhoe	No	80	85	NA	1000	10	49.0	48.0	0	49.0	48.0
					Construction Noise Level (dBA Leq)			54.0		Results	54.0
					Noise Level Above Ambient			-7.5	Noise Level Above Ambient		-7.5

Notes:
1. Daytime noise levels are based on actual noise measurements taken at the Project Site vicinity.
2. An attenuation factor was applied for Sensitive Receptor #1 as buildings separate the Project Site and the associated senstive receptor.

Source: Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/23/25
Project: Ace Mission Studios
Phase: Paving

RECEPTOR #1		
		Ambient/Baseline (dBA)
Description	Land Use	Daytime
Multi-family residential east of the Project Site	Residential	61.5

Equipment						Without Attenuation			With Attenuation		
						Estimated Shielding	Calculated (dBA)		Estimated Shielding	Calculated (dBA)	
Description	Impact Device	Usage(%)	Spec. Max (dBA)	Actual Max (dBA)	Receptor Distance to Project Site (Feet)	(dBA)	*Lmax	Leq	(dBA)	*Lmax	Leq
Paver	No	50	85	75	400	10	46.9	43.9	0	46.9	43.9
Paver	No	50	85	75	400	10	46.9	43.9	0	46.9	43.9
Paving Equipment	No	50	85	75	400	10	46.9	43.9	0	46.9	43.9
Paving Equipment	No	50	85	75	400	10	46.9	43.9	0	46.9	43.9
Roller	No	20	85	80	400	10	51.9	44.9	0	51.9	44.9
Roller	No	20	85	80	400	10	51.9	44.9	0	51.9	44.9
Cement and Mortar Mixer	No	40	85	79	400	10	50.9	47.0	0	50.9	47.0
Cement and Mortar Mixer	No	40	85	79	400	10	50.9	47.0	0	50.9	47.0
					Construction Noise Level (dBA Leq)			54.2		Results	54.2
					Noise Level Above Ambient			-7.3		Noise Level Above Ambient	-7.3

Notes:
1. Daytime noise levels are based on actual noise measurements taken at the Project Site vicinity.
2. An attenuation factor was applied for Sensitive Receptor #1 as buildings separate the Project Site and the associated senstive receptor.

Source: Roadway Construction Noise Model (RCNM),Version 1.1

Construction Noise Impact Summary Without Project Design Features

Receptor #	Land Use	Ambient Noise (dBA Leq)	Noise Level Impact (dBA Leq) by Phase		Construction Noise Threshold (dBA Leq)**	Noise Impact Above Threshold
			Grading	Paving		
#REF!	Multi-family residential east of the Project Site	61.5	54.0	54.2	66.5	0.0

** Significance criteria is based on a 5- dBA noise increase above ambient threshold .

Construction Noise Impact Summary With Project Design Features

Receptor #	Land Use	Ambient Noise (dBA Leq)	Noise Level Impact (dBA Leq) by Phase		Construction Noise Threshold (dBA Leq)**	Noise Impact Above Threshold
			Grading	Paving		
#REF!	Multi-family residential east of the Project Site	61.5	54.0	54.2	66.5	0.0

** Significance criteria is based on a 5- dBA noise increase above ambient threshold .

Project: Ace Mission Studios Project
Date: September 2025
Analyst: Adrianna Gjonaj

Potential Construction Vibration Calculations

Structures		Distance to Construction (feet)	PPV at 25 Feet (in./Sec.)	Maximum Vibration Levels during Construction
6th Street Bridge	Loaded trucks	18	0.076	0.109
	Small Bulldozer	18	0.003	0.004
4th Street Bridge	Loaded trucks	30	0.076	0.062
	Small Bulldozer	30	0.003	0.002