

Appendix G

Noise Data



Noise Measurement Field Data

Project:	2323 Broadway	Job Number:	094556043
Site No.:	1	Date:	2/25/2021
Analyst:	Alex Howard	Time:	1:21-1:31 PM
Location:	2331 W Transit Ave, Anaheim		

Noise Sources: Dogs barking, cars on transit ave.

Comments:

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 1:	55.2	39.2	72.5	92.3

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	73°
Wind (mph):	6.2
Sky:	Clear
Bar. Pressure:	30.03"
Humidity:	7%

Photo:



Summary

File Name on Meter	Ont.001
File Name on PC	SLM_0005586_Ont_001.00.ldbin
Serial Number	0005586
Model	SoundExpert® LxT
Firmware Version	2.402
User	
Location	
Job Description	
Note	

Measurement

Description

Start	2021-02-24 13:21:46
Stop	2021-02-24 13:31:46
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0

Pre Calibration	2021-02-24 08:39:25
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting	
Peak Weight	A Weighting	
Detector	Slow	
Preamp	PRMLxT1L	
Microphone Correction	Off	
Integration Method	Linear	
OBA Range	Low	
OBA Bandwidth	1/1 and 1/3	
OBA Freq. Weighting	A Weighting	
OBA Max Spectrum	At LMax	
Overload	122.2 dB	
	A	C
Under Range Peak	78.7	75.7
Under Range Limit	24.1	25.1
Noise Floor	15.0	16.0

Results

LAeq	55.2	
LAE	83.0	
EA	22.089 $\mu\text{Pa}^2\text{h}$	
LApeak (max)	2021-02-24 13:31:11	92.3
LASmax	2021-02-24 13:31:16	72.5
LASmin	2021-02-24 13:23:59	39.2

SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0

Community Noise	Ldn	LDay 07:00-22:00
	55.2	55.2

LC _{eq}	61.9 dB
LA _{eq}	55.2 dB
LC _{eq} - LA _{eq}	6.7 dB
LA _{eq}	64.8 dB
LA _{eq}	55.2 dB
LA _{eq} - LA _{eq}	9.6 dB

A	
dB	Time Stamp
55.2	
72.5	2021/02/24 13:31:16
39.2	2021/02/24 13:23:59
92.3	2021/02/24 13:31:11

Leq	
LS(max)	
LS(min)	
LPeak(max)	

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	5
OBA Overload Duration	11.7 s

Statistics	
LAI5.00	61.6 dB
LAI10.00	56.0 dB
LAI33.30	47.6 dB
LAI50.00	45.7 dB
LAI66.60	43.7 dB
LAI90.00	40.9 dB

Calibration History		
Preamp	Date	dB re. 1V/Pa
Direct	2019-10-29 12:18:45	-28.39
PRMLxT1L	2021-02-24 08:39:22	-28.42
PRMLxT1L	2021-02-05 15:07:05	-28.69
PRMLxT1L	2021-02-02 10:46:27	-28.45
PRMLxT1L	2021-02-02 10:46:06	-28.46
PRMLxT1L	2020-12-08 07:55:17	-28.48
PRMLxT1L	2020-11-05 08:56:58	-28.41
PRMLxT1L	2020-10-15 07:45:08	-28.35

Noise Measurement Field Data

Project:	2323 Broadway	Job Number:	094556043
Site No.:	2	Date:	2/25/2021
Analyst:	Alex Howard	Time:	1:41-1:51 PM
Location:	2341 W Mall Ave		

Noise Sources: Cars on Mall Ave

Comments:

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 2:	50.7	42.5	64.6	79.2

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	73°
Wind (mph):	6.2
Sky:	Clear
Bar. Pressure:	30.03"
Humidity:	7%

Photo:



Summary

File Name on Meter	Ont.002
File Name on PC	SLM_0005586_Ont_002.00.ldbin
Serial Number	0005586
Model	SoundExpert® LxT
Firmware Version	2.402
User	
Location	
Job Description	
Note	

Measurement

Description

Start	2021-02-24 13:41:49
Stop	2021-02-24 13:51:49
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre Calibration	2021-02-24 08:39:22
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting	
Peak Weight	A Weighting	
Detector	Slow	
Preamp	PRMLxT1L	
Microphone Correction	Off	
Integration Method	Linear	
OBA Range	Low	
OBA Bandwidth	1/1 and 1/3	
OBA Freq. Weighting	A Weighting	
OBA Max Spectrum	At LMax	
Overload	122.2 dB	
	A	C
Under Range Peak	78.7	75.7
Under Range Limit	24.1	25.1
Noise Floor	15.0	16.0

Results

LAeq	50.7	
LAE	78.4	
EA	7.773 $\mu\text{Pa}^2\text{h}$	
LApeak (max)	2021-02-24 13:51:46	79.2
LASmax	2021-02-24 13:45:01	64.6
LASmin	2021-02-24 13:49:28	42.5

SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0

Community Noise	Ldn	LDay 07:00-22:00
	50.7	50.7

LC _{eq}	62.9 dB
LA _{eq}	50.7 dB
LC _{eq} - LA _{eq}	12.2 dB
LA _{eq}	51.6 dB
LA _{eq}	50.7 dB
LA _{eq} - LA _{eq}	1.0 dB

A	
dB	Time Stamp
50.7	
64.6	2021/02/24 13:45:01
42.5	2021/02/24 13:49:28
79.2	2021/02/24 13:51:46

Leq	
LS(max)	
LS(min)	
LPeak(max)	

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	1
OBA Overload Duration	2.1 s

Statistics	
LAI5.00	55.0 dB
LAI10.00	53.4 dB
LAI33.30	49.6 dB
LAI50.00	48.2 dB
LAI66.60	47.5 dB
LAI90.00	44.6 dB

Calibration History		
Preamp	Date	dB re. 1V/Pa
Direct	2019-10-29 12:18:45	-28.39
PRMLxT1L	2021-02-24 08:39:22	-28.42
PRMLxT1L	2021-02-05 15:07:05	-28.69
PRMLxT1L	2021-02-02 10:46:27	-28.45
PRMLxT1L	2021-02-02 10:46:06	-28.46
PRMLxT1L	2020-12-08 07:55:17	-28.48
PRMLxT1L	2020-11-05 08:56:58	-28.41
PRMLxT1L	2020-10-15 07:45:08	-28.35

Noise Measurement Field Data

Project:	2323 Broadway	Job Number:	094556043
Site No.:	3	Date:	2/25/2021
Analyst:	Alex Howard	Time:	1:58-2:08 PM
Location:	1301 S Rosebay St, Anaheim		

Noise Sources: Cars and trucks on W Broadway

Comments:

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 3:	56.2	41.3	66.2	90.6

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	73°
Wind (mph):	6.2
Sky:	Clear
Bar. Pressure:	30.03"
Humidity:	7%

Photo:



Summary

File Name on Meter	Ont.003
File Name on PC	SLM_0005586_Ont_003.00.ldbin
Serial Number	0005586
Model	SoundExpert® LxT
Firmware Version	2.402
User	
Location	
Job Description	
Note	

Measurement

Description

Start	2021-02-24 13:58:00
Stop	2021-02-24 14:08:00
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0

Pre Calibration	2021-02-24 08:39:22
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting	
Peak Weight	A Weighting	
Detector	Slow	
Preamp	PRMLxT1L	
Microphone Correction	Off	
Integration Method	Linear	
OBA Range	Low	
OBA Bandwidth	1/1 and 1/3	
OBA Freq. Weighting	A Weighting	
OBA Max Spectrum	At LMax	
Overload	122.2 dB	
	A	C
Under Range Peak	78.7	75.7
Under Range Limit	24.1	25.1
Noise Floor	15.0	16.0

Results

LAeq	56.2	
LAE	84.0	
EA	27.881 $\mu\text{Pa}^2\text{h}$	
LApeak (max)	2021-02-24 13:58:28	90.6
LASmax	2021-02-24 14:06:55	66.2
LASmin	2021-02-24 13:58:59	41.3

SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0
L _{Apeak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0
L _{Apeak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0
L _{Apeak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0

Community Noise	Ldn	LDay 07:00-22:00
	56.2	56.2

LC _{eq}	67.3 dB
LA _{eq}	56.2 dB
LC _{eq} - LA _{eq}	11.1 dB
LA _{eq}	58.8 dB
LA _{eq}	56.2 dB
LA _{eq} - LA _{eq}	2.5 dB

A	
dB	Time Stamp
56.2	
66.2	2021/02/24 14:06:55
41.3	2021/02/24 13:58:59
90.6	2021/02/24 13:58:28

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	38
OBA Overload Duration	210.9 s

Statistics

LAI5.00	61.7 dB
LAI10.00	59.9 dB
LAI33.30	56.5 dB
LAI50.00	54.0 dB
LAI66.60	50.6 dB
LAI90.00	46.5 dB

Calibration History

Preamp	Date	dB re. 1V/Pa
Direct	2019-10-29 12:18:45	-28.39
PRMLxT1L	2021-02-24 08:39:22	-28.42
PRMLxT1L	2021-02-05 15:07:05	-28.69
PRMLxT1L	2021-02-02 10:46:27	-28.45
PRMLxT1L	2021-02-02 10:46:06	-28.46
PRMLxT1L	2020-12-08 07:55:17	-28.48
PRMLxT1L	2020-11-05 08:56:58	-28.41
PRMLxT1L	2020-10-15 07:45:08	-28.35

Noise Measurement Field Data

Project:	2323 Broadway	Job Number:	094556043
Site No.:	4	Date:	2/25/2021
Analyst:	Alex Howard	Time:	2:19-2:29 PM
Location:	2235 W Broadway, Anaheim		

Noise Sources:	Music, Cars
Comments:	People playing music loudly in their apartments

Results (dBA):				
	Leq:	Lmin:	Lmax:	Peak:
Measurement 4:	64.1	46.9	80.8	95.4

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	73°
Wind (mph):	6.2
Sky:	Clear
Bar. Pressure:	30.03"
Humidity:	7%

Photo:



Summary

File Name on Meter	Ont.004
File Name on PC	SLM_0005586_Ont_004.00.ldbin
Serial Number	0005586
Model	SoundExpert® LxT
Firmware Version	2.402
User	
Location	
Job Description	
Note	

Measurement

Description

Start	2021-02-24 14:19:19
Stop	2021-02-24 14:29:19
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre Calibration	2021-02-24 08:39:22
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting	
Peak Weight	A Weighting	
Detector	Slow	
Preamp	PRMLxT1L	
Microphone Correction	Off	
Integration Method	Linear	
OBA Range	Low	
OBA Bandwidth	1/1 and 1/3	
OBA Freq. Weighting	A Weighting	
OBA Max Spectrum	At LMax	
Overload	122.2 dB	
	A	C
Under Range Peak	78.7	75.7
Under Range Limit	24.1	25.1
Noise Floor	15.0	16.0

Results

LAeq	64.1	
LAE	91.9	
EA	170.441 $\mu\text{Pa}^2\text{h}$	
LApeak (max)	2021-02-24 14:28:42	95.4
LASmax	2021-02-24 14:28:42	80.8
LASmin	2021-02-24 14:22:21	46.9

SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0
LA _{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0

Community Noise	Ldn	LDay 07:00-22:00
	64.1	64.1

LC _{eq}	72.3 dB
LA _{eq}	64.1 dB
LC _{eq} - LA _{eq}	8.2 dB
LA _{eq}	65.9 dB
LA _{eq}	64.1 dB
LA _{eq} - LA _{eq}	1.8 dB

A	
dB	Time Stamp
64.1	
80.8	2021/02/24 14:28:42
46.9	2021/02/24 14:22:21
95.4	2021/02/24 14:28:42

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	8
OBA Overload Duration	21.7 s

Statistics

LAI5.00	68.6 dB
LAI10.00	67.0 dB
LAI33.30	63.7 dB
LAI50.00	60.3 dB
LAI66.60	57.0 dB
LAI90.00	48.4 dB

Calibration History

Preamp	Date	dB re. 1V/Pa
Direct	2019-10-29 12:18:45	-28.39
PRMLxT1L	2021-02-24 08:39:22	-28.42
PRMLxT1L	2021-02-05 15:07:05	-28.69
PRMLxT1L	2021-02-02 10:46:27	-28.45
PRMLxT1L	2021-02-02 10:46:06	-28.46
PRMLxT1L	2020-12-08 07:55:17	-28.48
PRMLxT1L	2020-11-05 08:56:58	-28.41
PRMLxT1L	2020-10-15 07:45:08	-28.35

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/8/2021
 Case Description: Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Sensitive Receptor	Residential	55.2	50.2	45.2

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	250	0
Dozer	No	40		81.7	250	0
Dozer	No	40		81.7	250	0
Tractor	No	40	84		250	0
Tractor	No	40	84		250	0
Tractor	No	40	84		250	0
Tractor	No	40	84		250	0

Equipment	Results							
	Calculated (dBA)				Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	
Dozer	67.7	63.7	N/A	N/A	N/A	N/A	N/A	
Dozer	67.7	63.7	N/A	N/A	N/A	N/A	N/A	
Dozer	67.7	63.7	N/A	N/A	N/A	N/A	N/A	
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	
Total	70	73.6	N/A	N/A	N/A	N/A	N/A	

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat 4/8/2021

Case Descr Grading

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Sensitive R	Residential	55.2	50.2	45.2

Equipment

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dozer	No	40		81.7	250	0
Excavator	No	40		80.7	250	0
Grader	No	40	85		250	0
Tractor	No	40	84		250	0
Tractor	No	40	84		250	0
Tractor	No	40	84		250	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)					
	*Lmax	Leq	Day Lmax	Day		Evening		Night	
				Leq	Leq	Leq	Leq	Lmax	Leq
Dozer	67.7	63.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	66.7	62.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	71	67	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	71	73.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date 4/8/2021

Case Description Paving

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Sensitive R	Residential	55.2	50.2	45.2

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Paver	No	50		77.2	250	0
Paver	No	50		77.2	250	0
Pavement Scarafier	No	20		89.5	250	0
Pavement Scarafier	No	20		89.5	250	0
Roller	No	20		80	250	0
Roller	No	20		80	250	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)					
	*Lmax	Leq	Day	Evening		Night		Lmax	Leq
			Lmax	Leq	Lmax	Leq	Lmax		
Paver	63.2	60.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	63.2	60.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	75.5	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	75.5	68.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	66	59	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	66	59	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	75.5	72.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date 4/8/2021

Case Description Building Construction

---- Receptor #1 ----

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Sensitive R	Residential	55.2	50.2	45.2

Equipment

Description	Impact Device	Usage (%)	Equipment Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Crane	No	16		80.6	250	0
All Other Equipment :	No	50	85		250	0
All Other Equipment :	No	50	85		250	0
All Other Equipment :	No	50	85		250	0
Generator	No	50		80.6	250	0
Tractor	No	40	84		250	0
Tractor	No	40	84		250	0
Tractor	No	40	84		250	0
Welder / Torch	No	40		74	250	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)				
	*Lmax	Leq	Day	Leq	Evening		Night	
			Lmax		Lmax	Leq	Lmax	Leq
Crane	66.6	58.6	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment :	71	68	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment :	71	68	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment :	71	68	N/A	N/A	N/A	N/A	N/A	N/A
Generator	66.7	63.6	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	70	66	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	60	56	N/A	N/A	N/A	N/A	N/A	N/A
Total	71	75.4	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.