BASELINE NOISE MEASUREMENTS

Site Number: 1									
Recorded By: Lindsay Liegle	r								
Job Number: 2017-276.009	Job Number: 2017-276.009								
Date: 2/11/2022 – 2/15/2022									
Time: 11:04 a.m. – 5:46 a.m.	Time: 11:04 a.m. – 5:46 a.m.								
Location: Near the southern	portion of the Project Site appr	oximately 50 feet from Elden V	Vay.						
Source of Peak Noise: Land	scaping/ gardening (leaf blowe	rs)							
	Noise Data								
LA _{eq} (dB)	L _{min} (dB)	L _{max} (dB)	CNEL						
45.7	24.1	83.1	49.4						

	Equipment										
Category	Туре	Vendor		Model	Serial No.	Cert. Date	Note				
Sound	Sound Level Meter	Larson Dav	vis	LxT SE	0005120	11/29/2021					
	Microphone	Larson Davis		377B02	334361	11/30/2021					
	Preamp	Larson Davis		PRMLxT1L	042852	11/30/2021					
	Calibrator	Larson Davis		CAL200	14105	11/10/2021					
			١	Neather Data							
	Duration: 90 hour	S			Sky: Clear						
	Note: dBA Offset :	= -0.01			Sensor Height (ft): 3.5						
Est.	Wind Ave Spe	nd Ave Speed (mph) Te			rees Fahrenheit)	Barometer Pressure (hPa)					
	5	5				30.03					

Photo of Measurement Location



Measurement Report

			Mucubul		cport		
port Summar	У						
Meter's File Name	LxT_Data.		Computer's File Name	LxT_0006	133-20220211 110412-Lx	T_Data.098.ldbin	
Meter	LxT1	0006133					
Firmware	2.404						
User				Location			
Job Description							
Note							
	02-11 11:04:12		Duration 90:42:12.0				
End Time 2022-	02-15 05:46:24		Run Time 90:42:12.0	Pause Time	0:00:00.0		
sults							
Overall Metric	S						
LA _{eq}	45.7 dB						
LAE	100.9 dB		SEA	130.2 dB			
EA	1.4 mPa ² h						
EA8	120.1 µPa²h						
EA40	600.7 µPa²h						
LZS peak	120.2 dB		2022-02-11 11:04:59				
LASmax	83.1 dB		2022-02-11 11:04:59				
LAS min	28.1 dB		2022-02-15 01:48:09				
LA _{eq}	45.7 dB						
LC _{eq}	59.6 dB		LC _{eq} - LA _{eq}	13.8 dB			
LAIeq	50.4 dB		LAI _{eq} - LA _{eq}	4.7 dB			
Exceedances		Count	Duration				
LAS > 85.0	dB	0	0:00:00.0				
LAS > 85.0 LAS > 115.0		0	0:00:00.0				
LZSpeak >	135.0 dB	0	0:00:00.0				
LZSpeak >	137.0 dB	0	0:00:00.0				
LZSpeak >	140.0 dB	0	0:00:00.0				
Community No	oise	LDN	LDay		LNight		
		48.9 dB	47.3 dB		0.0 dB		
		LDEN	l LDay		LEve	LNight	
		49.4 dB	47.7 dB		45.2 dB	40.7 dB	
Any Data		А		С		Ζ	
	Leve	el	Time Stamp	Level	Time Stamp	Level	Time Stamp
L _{eq}	45.7 d	В		dB		dB	
Ls (max)	83.1 d	В	2022-02-11 11:04:59	dB		dB	
LS (min)	28.1 d	В	2022-02-15 01:48:09	dB		dB	
L _{Peak(max)}	d	В		dB		120.2 dB	2022-02-11 11:04:5
Overloads		Count	Duration				
		0	0:00:00.0				
Statistics							
		48.6 dB					
LAS 5.0		45.9 dB					
LAS 10.0							
LAS 10.0 LAS 33.3		42.4 dB					
LAS 10.0 LAS 33.3 LAS 50.0		42.4 dB 40.7 dB					
LAS 10.0 LAS 33.3		42.4 dB					

TRAFFIC NOISE MODELING OUTPUTS

TRAFFIC NOISE LEVELS

Project Number: 2017-276.009 Project Name: VRG

Background Information

Model Description:	FHWA Highway No	oise Prediction Model (FHWA-RD-7	7-108) wit
Analysis Scenario(s):	Existing			
Source of Traffic Volumes:	KOA 2022			
Community Noise Descriptor:		L _{dn} :	CNEL:	Х
Assumed 24-Hour Traffic Distribution:		Day	Evening	Night
Total ADT Volumes		77.70%	12.70%	9.60%
Medium-Duty Trucks		87.43%	5.05%	7.52%
Heavy-Duty Trucks		89.10%	2.84%	8.06%

Traffic Noise Levels

				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hour
Analysis Condition			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume	(mph)	Receptor	Factor	dB(A)	Trucks	Trucks	L _{eq}	CNEL
Analysis Condition													
Analysis Condition													
North Beverly Drive													
North of Lexington Road	Residential	2	0	0	5,868	35	100	0	0	1.8%	0.7%	0.0	59.4
South of Lexington Road	Residential	2	0	0	4,203	35	100	0	0	1.8%	0.7%	0.0	58.0
North Crescent Drive													
South of Lexington Road	Residential	2	0	0	783	35	100	0	0	1.8%	0.7%	0.0	50.7
Between Lexington Road and Elden Way	Residential	2	0	0	103	35	100	0	0	1.8%	0.7%	0.0	41.9
Elden Way													
North of North Crescent Drive	Residential	2	0	0	54	35	100	0	0	1.8%	0.7%	0.0	39.1
Lexington Road													
East of North Beverly Drive	Residential	2	0	0	1,206	35	100	0	0	1.8%	0.7%	0.0	52.5
Between North Beverly Drive and Crescent D	Residential	2	0	0	1,939	35	100	0	0	1.8%	0.7%	0.0	54.6
Between Crescent Drive and Oxford Way	Residential	2	0	0	2,497	35	100	0	0	1.8%	0.7%	0.0	55.7
Between Oxford Way and Hartford Way	Residential	2	0	0	2,466	35	100	0	0	1.8%	0.7%	0.0	55.7
Between Hartford Way and Benedict Canyon	Residential	2	0	0	1,179	35	100	0	0	1.8%	0.7%	0.0	52.5
West of Benedict Canyon Drive	Residential	2	0	0	1,638	35	100	0	0	1.8%	0.7%	0.0	53.9
Oxford Way													
South of Lexington Road	Residential	2	0	0	90	35	100	0	0	1.8%	0.7%	0.0	41.3
Hartford Way													
South of Lexington Road	Residential	2	0	0	108	35	100	0	0	1.8%	0.7%	0.0	42.1
Between Lexington Road and Cove Way	Residential	2	0	0	1,683	35	100	0	0	1.8%	0.7%	0.0	54.0
Between Cove Way and Benedict Canyon Ro	Residential	2	0	0	702	35	100	0	0	1.8%	0.7%	0.0	50.2
West of Benedict Canyon Road	Residential	2	0	0	288	35	100	0	0	1.8%	0.7%	0.0	46.3
Cove Way													
North of Hartford Way	Residential	2	0	0	2,349	35	100	0	0	1.8%	0.7%	0.0	55.4
Benedict Canyon Drive													
South of Lexington Road	Residential	2	0	0	3,420	35	100	0	0	1.8%	0.7%	0.0	57.1
Between Lexington Road and North Roxbury	Residential	2	0	0	5,436	35	100	0	0	1.8%	0.7%	0.0	59.1
North of Hartford Way	Residential	2	0	0	8,793	35	100	0	0	1.8%	0.7%	0.0	61.2

TRAFFIC NOISE LEVELS

Project Number: 2017-276.009 Project Name: VRG

Background Information

FHWA Highway Noise	Prediction Model (FHWA-RD-7	7-108) with
Existing + Project			
KOA 2022			
	L _{dn} :	CNEL:	Х
	Day	Evening	Night
	77.70%	12.70%	9.60%
	87.43%	5.05%	7.52%
	80 10%	2.84%	8.06%
_	Existing + Project	Existing + Project KOA 2022 L _{dn} : Day 77.70%	KOA 2022 L _{dn} : CNEL: Day Evening 77.70% 12.70% 87.43% 5.05%

Traffic Noise Levels

				Peak		Design	Dist. from		Barrier	Vehic	le Mix	Peak Hour	24-Hour
Analysis Condition			Median	Hour	ADT	Speed	Center to	Alpha	Attn.	Medium	Heavy	dB(A)	dB(A)
Roadway Segment	Land Use	Lanes	Width	Volume	Volume	(mph)	Receptor	Factor	dB(A)	Trucks	Trucks	L _{eq}	CNEL
Analysis Condition													
Analysis Condition													
North Beverly Drive													
North of Lexington Road	Residential	2	0	0	5,886	35	100	0	0	1.8%	0.7%	0.0	59.4
South of Lexington Road	Residential	2	0	0	4,266	35	100	0	0	1.8%	0.7%	0.0	58.0
North Crescent Drive													
South of Lexington Road	Residential	2	0	0	801	35	100	0	0	1.8%	0.7%	0.0	50.8
Between Lexington Road and Elden Way	Residential	2	0	0	323	35	100	0	0	1.8%	0.7%	0.0	46.8
Elden Way													
North of North Crescent Drive	Residential	2	0	0	252	35	100	0	0	1.8%	0.7%	0.0	45.7
Lexington Road													
East of North Beverly Drive	Residential	2	0	0	1,224	35	100	0	0	1.8%	0.7%	0.0	52.6
Between North Beverly Drive and Crescent D	Residential	2	0	0	2,006	35	100	0	0	1.8%	0.7%	0.0	54.8
Between Crescent Drive and Oxford Way	Residential	2	0	0	2,497	35	100	0	0	1.8%	0.7%	0.0	55.7
Between Oxford Way and Hartford Way	Residential	2	0	0	2,556	35	100	0	0	1.8%	0.7%	0.0	55.8
Between Hartford Way and Benedict Canyon	Residential	2	0	0	1,260	35	100	0	0	1.8%	0.7%	0.0	52.7
West of Benedict Canyon Drive	Residential	2	0	0	1,638	35	100	0	0	1.8%	0.7%	0.0	53.9
Oxford Way													
South of Lexington Road	Residential	2	0	0	90	35	100	0	0	1.8%	0.7%	0.0	41.3
Hartford Way													
South of Lexington Road	Residential	2	0	0	108	35	100	0	0	1.8%	0.7%	0.0	42.1
Between Lexington Road and Cove Way	Residential	2	0	0	1,692	35	100	0	0	1.8%	0.7%	0.0	54.0
Between Cove Way and Benedict Canyon Ro		2	0	0	711	35	100	0	0	1.8%	0.7%	0.0	50.3
West of Benedict Canyon Road	Residential	2	0	0	288	35	100	0	0	1.8%	0.7%	0.0	46.3
Cove Way													
North of Hartford Way	Residential	2	0	0	2,358	35	100	0	0	1.8%	0.7%	0.0	55.5
Benedict Canyon Drive													
South of Lexington Road	Residential	2	0	0	3,510	35	100	0	0	1.8%	0.7%	0.0	57.2
Between Lexington Road and North Roxbury		2	0	0	5,436	35	100	0	0	1.8%	0.7%	0.0	59.1
North of Hartford Way	Residential	2	0	0	8,802	35	100	0	0	1.8%	0.7%	0.0	61.2

ONSITE NOISE MODELING OUTPUTS

SoundPLAN Output Source Information

Number	Reciever Name	Location	Level at Ground Floor
1	Residential	House 1025 (south of Project Site)	19.9 dBA
2	Residential	House 1006 (south of Project Site)	27.9 dBA
3	Residential	House 1005 (south of Project Site)	27.1 dBA
4	Residential	House 1024 (south of Project Site)	37.4 dBA
5	Residential	House 1027 (west of Project Site)	34.7 dBA
6	Residential	House 1031 (west of Project Site)	33.1 dBA
7	Residential	House 1032 (west of Project Site)	30.4 dBA
8	Residential	House 1034 (north of Project Site)	30.8 dBA
9	Residential	House 1036 (north of Project Site)	31.5 dBA
10	Residential	House 1055 (north of Project Site)	35.1 dBA
11	Residential	House 1045 (north of Project Site)	41.3 dBA
12	Residential	House 1035 (north of Project Site)	31.2 dBA
13	Residential	House 1028 (northeast of Project Site)	16.1 dBA
14	Residential	House 1019 (east of Project Site)	14.7 dBA
15	Residential	House 1017 (southeast of Project Site)	14.5 dBA
16	Residential	House 1015 (southeast of Project Site)	13.6 dBA
Number	Noise Source Information	Citation	Level at Source
1	Crowd Noise	M.J. Hayne, et al, Prediction of Crowd Noise, Acoustics, November 2006.	62.0 dBA

SoundPLAN Output Source Information

Number	Reciever Name	Location	Level at Ground Floor
1	Residential	House 1025 (south of Project Site)	52.4 dBA
2	Residential	House 1006 (south of Project Site)	58 dBA
3	Residential	House 1005 (south of Project Site)	57.5 dBA
4	Residential	House 1024 (south of Project Site)	52.2 dBA
5	Residential	House 1027 (west of Project Site)	66.1 dBA
6	Residential	House 1031 (west of Project Site)	69.4 dBA
7	Residential	House 1032 (west of Project Site)	63.4 dBA
8	Residential	House 1034 (north of Project Site)	59.7 dBA
9	Residential	House 1036 (north of Project Site)	61.6 dBA
10	Residential	House 1055 (north of Project Site)	66.5 dBA
11	Residential	House 1045 (north of Project Site)	72.1 dBA
12	Residential	House 1035 (north of Project Site)	55.4 dBA
13	Residential	House 1028 (northeast of Project Site)	46.8 dBA
14	Residential	House 1019 (east of Project Site)	43.3 dBA
15	Residential	House 1017 (southeast of Project Site)	46 dBA
16	Residential	House 1015 (southeast of Project Site)	47.5 dBA
Number	Noise Source Information	Citation	Level at Source
1	High Intensity Amplified Music	ECORP Consultinjg, Inc. Refrence Noise Measurment (Rock/ Reggae Concert)	108.1 dBA
2	Crowd Noise	M.J. Hayne, et al, Prediction of Crowd Noise, Acoustics, November 2006.	62.0 dBA

SoundPLAN **Output Source Information**

Number	Reciever Name	Location	Level at Ground Floor
1	Residential	House 1025 (south of Project Site)	45.8 dBA
2	Residential	House 1006 (south of Project Site)	45.8 dBA
3	Residential	House 1005 (south of Project Site)	51 dBA
4	Residential	House 1024 (south of Project Site)	46.1 dBA
5	Residential	House 1027 (west of Project Site)	59.5 dBA
6	Residential	House 1031 (west of Project Site)	62.9 dBA
7	Residential	House 1032 (west of Project Site)	56.8 dBA
8	Residential	House 1034 (north of Project Site)	53.1 dBA
9	Residential	House 1036 (north of Project Site)	55.0 dBA
10	Residential	House 1055 (north of Project Site)	59.9 dBA
11	Residential	House 1045 (north of Project Site)	65.5 dBA
12	Residential	House 1035 (north of Project Site)	48.9 dBA
13	Residential	House 1028 (northeast of Project Site)	40.2 dBA
14	Residential	House 1019 (east of Project Site)	36.7 dBA
15	Residential	House 1017 (southeast of Project Site)	39.4 dBA
16	Residential	House 1015 (southeast of Project Site)	40.9 dBA
Number	Noise Source Information	Citation	Level at Source
1	Moderate Intensity Amplified Music	ECORP Consultinig, Inc. Refrence Noise Measurment (Small Country Band)	101.5 dBA
2	Crowd Noise	M.J. Hayne, et al, Prediction of Crowd Noise, Acoustics, November 2006.	62.0 dBA