

APPENDIX E

NOISE DATA

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Residences at 4440 Von Karman
Project Number: 094698009
Scenario: Existing
Ldn/CNEL: CNEL

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%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour			
										70 CNEL	65 CNEL	60 CNEL	55 CNEL	
1	Campus Drive	Airport Way to MacArthur Boulevard	4	12	32,100	45	0	2.0%	1.0%	68.3	67	213	674	2,133
2	Campus Drive	MacArthur Boulevard to Von Karman	4	12	15,500	45	0	2.0%	1.0%	65.1	-	103	326	1,030
3	Campus Drive	Von Karman Avenue to Teller Avenue	4	12	13,100	45	0	2.0%	1.0%	64.4	-	87	275	870
4	Campus Drive	Teller Avenue to Jamboree Road	4	12	12,300	45	0	2.0%	1.0%	64.1	-	82	258	817
5	Campus Drive	Jamboree Road to Carlson Avenue	4	24	20,000	45	0	2.0%	1.0%	66.3	-	135	428	1,352
6	Campus Drive	Carlson Avenue to University Drive	2	0	18,900	55	0	2.0%	1.0%	68.0	62	198	625	1,976
7	Campus Drive	University Drive to Bridge Road	4	12	23,900	45	0	2.0%	1.0%	67.0	50	159	502	1,588
8	Jamboree Road	North of Barranca Parkway	8	24	62,500	50	0	2.0%	1.0%	72.9	194	615	1,944	6,149
9	Jamboree Road	Main Street to Barranca Parkway	8	24	68,400	50	0	2.0%	1.0%	73.3	213	673	2,128	6,729
10	Jamboree Road	Main Street to I-405 NB Ramps	8	24	73,300	50	0	2.0%	1.0%	73.6	228	721	2,280	7,211
11	Jamboree Road	I-405 SB Ramps to Michelson Drive	8	24	84,100	50	0	2.0%	1.0%	74.2	262	827	2,616	8,273
12	Jamboree Road	Michelson Drive to Dupont Drive	6	24	59,200	50	0	2.0%	1.0%	72.3	171	540	1,708	5,401
13	Jamboree Road	Dupont Drive to Campus Drive	6	24	45,900	50	0	2.0%	1.0%	71.2	132	419	1,324	4,187
14	Jamboree Road	Campus Drive to Birch Street	6	24	43,800	50	0	2.0%	1.0%	71.0	126	400	1,264	3,996
15	Jamboree Road	Birch Street to Fairchild Road	6	12	43,100	55	0	2.0%	1.0%	71.8	152	482	1,525	4,821
16	Jamboree Road	MacArthur Boulevard to Fairchild Road	6	12	37,800	55	0	2.0%	1.0%	71.3	134	423	1,337	4,228
17	MacArthur Boulevard	Main Street to Red Hill Avenue	6	12	33,300	45	0	2.0%	1.0%	68.6	73	230	728	2,302
18	MacArthur Boulevard	Main Street to I-405 NB Ramps	6	12	51,800	45	0	2.0%	1.0%	70.5	113	358	1,133	3,581
19	MacArthur Boulevard	I-405 NB Ramps to I-405 SB Ramps	8	12	53,100	45	0	2.0%	1.0%	70.9	123	390	1,235	3,905
20	MacArthur Boulevard	I-405 SB Ramps to Michelson Drive	8	12	57,000	45	0	2.0%	1.0%	71.2	133	419	1,325	4,191
21	MacArthur Boulevard	Michelson Drive to Campus Drive	8	12	37,400	45	0	2.0%	1.0%	69.4	87	275	870	2,750
22	MacArthur Boulevard	Campus Drive to Jamboree Road	8	12	20,800	45	0	2.0%	1.0%	66.8	-	153	484	1,529
23	Von Karman Aven	North of Main Street	4	45	25,700	12	0	2.0%	1.0%	58.0	-	-	-	201
24	Von Karman Aven	Main Street to Michelson Drive	4	45	27,200	12	0	2.0%	1.0%	58.3	-	-	67	213
25	Von Karman Aven	Michelson Drive to Campus Drive	4	45	18,600	12	0	2.0%	1.0%	56.6	-	-	-	146

¹ Distance is from the centerline of the roadway segment to the receptor location.
 "-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Residences at 4440 Von Karman
Project Number: 094698009
Scenario: Existing Plus Project
Ldn/CNEL: CNEL

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%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour			
										70 CNEL	65 CNEL	60 CNEL	55 CNEL	
1	Campus Drive	Airport Way to MacArthur Boulevard	4	12	32,185	45	0	2.0%	1.0%	68.3	68	214	676	2,138
2	Campus Drive	MacArthur Boulevard to Von Karman	4	12	15,585	45	0	2.0%	1.0%	65.2	-	104	327	1,035
3	Campus Drive	Von Karman Avenue to Teller Avenue	4	12	13,185	45	0	2.0%	1.0%	64.4	-	88	277	876
4	Campus Drive	Teller Avenue to Jamboree Road	4	12	12,385	45	0	2.0%	1.0%	64.2	-	82	260	823
5	Campus Drive	Jamboree Road to Carlson Avenue	4	24	20,085	45	0	2.0%	1.0%	66.3	-	136	429	1,358
6	Campus Drive	Carlson Avenue to University Drive	2	0	18,985	55	0	2.0%	1.0%	68.0	63	198	628	1,985
7	Campus Drive	University Drive to Bridge Road	4	12	23,985	45	0	2.0%	1.0%	67.0	50	159	504	1,594
8	Jamboree Road	North of Barranca Parkway	8	24	62,670	50	0	2.0%	1.0%	72.9	195	617	1,950	6,165
9	Jamboree Road	Main Street to Barranca Parkway	8	24	68,570	50	0	2.0%	1.0%	73.3	213	675	2,133	6,746
10	Jamboree Road	Main Street to I-405 NB Ramps	8	24	73,470	50	0	2.0%	1.0%	73.6	229	723	2,286	7,228
11	Jamboree Road	I-405 SB Ramps to Michelson Drive	8	24	84,270	50	0	2.0%	1.0%	74.2	262	829	2,622	8,290
12	Jamboree Road	Michelson Drive to Dupont Drive	6	24	59,370	50	0	2.0%	1.0%	72.3	171	542	1,713	5,416
13	Jamboree Road	Dupont Drive to Campus Drive	6	24	46,070	50	0	2.0%	1.0%	71.2	133	420	1,329	4,203
14	Jamboree Road	Campus Drive to Birch Street	6	24	43,970	50	0	2.0%	1.0%	71.0	127	401	1,268	4,011
15	Jamboree Road	Birch Street to Fairchild Road	6	12	43,270	55	0	2.0%	1.0%	71.8	153	484	1,531	4,840
16	Jamboree Road	MacArthur Boulevard to Fairchild Road	6	12	37,970	55	0	2.0%	1.0%	71.3	134	425	1,343	4,247
17	MacArthur Boulevard	Main Street to Red Hill Avenue	6	12	33,470	45	0	2.0%	1.0%	68.6	73	231	732	2,314
18	MacArthur Boulevard	Main Street to I-405 NB Ramps	6	12	51,970	45	0	2.0%	1.0%	70.6	114	359	1,136	3,593
19	MacArthur Boulevard	I-405 NB Ramps to I-405 SB Ramps	8	12	53,270	45	0	2.0%	1.0%	70.9	124	392	1,239	3,917
20	MacArthur Boulevard	I-405 SB Ramps to Michelson Drive	8	12	57,170	45	0	2.0%	1.0%	71.2	133	420	1,329	4,204
21	MacArthur Boulevard	Michelson Drive to Campus Drive	8	12	37,570	45	0	2.0%	1.0%	69.4	87	276	874	2,763
22	MacArthur Boulevard	Campus Drive to Jamboree Road	8	12	20,970	45	0	2.0%	1.0%	66.9	-	154	488	1,542
23	Von Karman Aven	North of Main Street	4	45	25,785	12	0	2.0%	1.0%	58.1	-	-	-	202
24	Von Karman Aven	Main Street to Michelson Drive	4	45	27,285	12	0	2.0%	1.0%	58.3	-	-	68	214
25	Von Karman Aven	Michelson Drive to Campus Drive	4	45	18,685	12	0	2.0%	1.0%	56.7	-	-	-	146

¹ Distance is from the centerline of the roadway segment to the receptor location.
 "-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Residences at 4440 Von Karman
Project Number: 094698009
Scenario: Opening Year
Ldn/CNEL: CNEL

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%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour			
										70 CNEL	65 CNEL	60 CNEL	55 CNEL	
1	Campus Drive	Airport Way to MacArthur Boulevard	4	12	33,737	45	0	2.0%	1.0%	68.5	71	224	709	2,242
2	Campus Drive	MacArthur Boulevard to Von Karman	4	12	16,291	45	0	2.0%	1.0%	65.3	-	108	342	1,082
3	Campus Drive	Von Karman Avenue to Teller Avenue	4	12	13,768	45	0	2.0%	1.0%	64.6	-	91	289	915
4	Campus Drive	Teller Avenue to Jamboree Road	4	12	12,927	45	0	2.0%	1.0%	64.3	-	86	272	859
5	Campus Drive	Jamboree Road to Carlson Avenue	4	24	22,082	45	0	2.0%	1.0%	66.7	-	149	472	1,493
6	Campus Drive	Carlson Avenue to University Drive	2	0	20,867	55	0	2.0%	1.0%	68.4	69	218	690	2,182
7	Campus Drive	University Drive to Bridge Road	4	12	26,388	45	0	2.0%	1.0%	67.4	55	175	554	1,753
8	Jamboree Road	North of Barranca Parkway	8	24	69,005	50	0	2.0%	1.0%	73.3	215	679	2,147	6,788
9	Jamboree Road	Main Street to Barranca Parkway	8	24	75,519	50	0	2.0%	1.0%	73.7	235	743	2,349	7,429
10	Jamboree Road	Main Street to I-405 NB Ramps	8	24	80,929	50	0	2.0%	1.0%	74.0	252	796	2,518	7,962
11	Jamboree Road	I-405 SB Ramps to Michelson Drive	8	24	92,853	50	0	2.0%	1.0%	74.6	289	913	2,889	9,135
12	Jamboree Road	Michelson Drive to Dupont Drive	6	24	65,362	50	0	2.0%	1.0%	72.8	189	596	1,886	5,963
13	Jamboree Road	Dupont Drive to Campus Drive	6	24	50,677	50	0	2.0%	1.0%	71.6	146	462	1,462	4,623
14	Jamboree Road	Campus Drive to Birch Street	6	24	48,359	50	0	2.0%	1.0%	71.4	140	441	1,395	4,412
15	Jamboree Road	Birch Street to Fairchild Road	6	12	47,586	55	0	2.0%	1.0%	72.3	168	532	1,683	5,323
16	Jamboree Road	MacArthur Boulevard to Fairchild Road	6	12	41,734	55	0	2.0%	1.0%	71.7	148	467	1,476	4,669
17	MacArthur Boulevard	Main Street to Red Hill Avenue	6	12	36,766	45	0	2.0%	1.0%	69.1	80	254	804	2,542
18	MacArthur Boulevard	Main Street to I-405 NB Ramps	6	12	57,191	45	0	2.0%	1.0%	71.0	125	395	1,250	3,954
19	MacArthur Boulevard	I-405 NB Ramps to I-405 SB Ramps	8	12	58,627	45	0	2.0%	1.0%	71.3	136	431	1,363	4,311
20	MacArthur Boulevard	I-405 SB Ramps to Michelson Drive	8	12	62,933	45	0	2.0%	1.0%	71.7	146	463	1,463	4,628
21	MacArthur Boulevard	Michelson Drive to Campus Drive	8	12	41,293	45	0	2.0%	1.0%	69.8	96	304	960	3,036
22	MacArthur Boulevard	Campus Drive to Jamboree Road	8	12	22,965	45	0	2.0%	1.0%	67.3	-	169	534	1,689
23	Von Karman Aven	North of Main Street	4	45	28,375	12	0	2.0%	1.0%	58.5	-	-	70	222
24	Von Karman Aven	Main Street to Michelson Drive	4	45	30,031	12	0	2.0%	1.0%	58.7	-	-	74	235
25	Von Karman Aven	Michelson Drive to Campus Drive	4	45	20,536	12	0	2.0%	1.0%	57.1	-	-	-	161

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FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

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Project Number: 094698009
Scenario: Opening Year
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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%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Campus Drive	Airport Way to MacArthur Boulevard	4	12	33,822	45	0	2.0%	1.0%	68.5	71	225	711	2,247
2	Campus Drive	MacArthur Boulevard to Von Karman	4	12	16,376	45	0	2.0%	1.0%	65.4	-	109	344	1,088
3	Campus Drive	Von Karman Avenue to Teller Avenue	4	12	13,853	45	0	2.0%	1.0%	64.6	-	92	291	920
4	Campus Drive	Teller Avenue to Jamboree Road	4	12	13,012	45	0	2.0%	1.0%	64.4	-	86	273	865
5	Campus Drive	Jamboree Road to Carlson Avenue	4	24	22,166	45	0	2.0%	1.0%	66.8	-	150	474	1,499
6	Campus Drive	Carlson Avenue to University Drive	2	0	20,952	55	0	2.0%	1.0%	68.4	69	219	693	2,190
7	Campus Drive	University Drive to Bridge Road	4	12	26,472	45	0	2.0%	1.0%	67.5	56	176	556	1,759
8	Jamboree Road	North of Barranca Parkway	8	24	69,175	50	0	2.0%	1.0%	73.3	215	681	2,152	6,805
9	Jamboree Road	Main Street to Barranca Parkway	8	24	75,689	50	0	2.0%	1.0%	73.7	235	745	2,355	7,446
10	Jamboree Road	Main Street to I-405 NB Ramps	8	24	81,099	50	0	2.0%	1.0%	74.0	252	798	2,523	7,978
11	Jamboree Road	I-405 SB Ramps to Michelson Drive	8	24	93,023	50	0	2.0%	1.0%	74.6	289	915	2,894	9,151
12	Jamboree Road	Michelson Drive to Dupont Drive	6	24	65,531	50	0	2.0%	1.0%	72.8	189	598	1,890	5,978
13	Jamboree Road	Dupont Drive to Campus Drive	6	24	50,847	50	0	2.0%	1.0%	71.7	147	464	1,467	4,639
14	Jamboree Road	Campus Drive to Birch Street	6	24	48,528	50	0	2.0%	1.0%	71.5	140	443	1,400	4,427
15	Jamboree Road	Birch Street to Fairchild Road	6	12	47,756	55	0	2.0%	1.0%	72.3	169	534	1,689	5,342
16	Jamboree Road	MacArthur Boulevard to Fairchild Road	6	12	41,904	55	0	2.0%	1.0%	71.7	148	469	1,482	4,688
17	MacArthur Boulevard	Main Street to Red Hill Avenue	6	12	36,936	45	0	2.0%	1.0%	69.1	81	255	808	2,554
18	MacArthur Boulevard	Main Street to I-405 NB Ramps	6	12	57,361	45	0	2.0%	1.0%	71.0	125	397	1,254	3,966
19	MacArthur Boulevard	I-405 NB Ramps to I-405 SB Ramps	8	12	58,796	45	0	2.0%	1.0%	71.4	137	432	1,367	4,324
20	MacArthur Boulevard	I-405 SB Ramps to Michelson Drive	8	12	63,102	45	0	2.0%	1.0%	71.7	147	464	1,467	4,640
21	MacArthur Boulevard	Michelson Drive to Campus Drive	8	12	41,462	45	0	2.0%	1.0%	69.8	96	305	964	3,049
22	MacArthur Boulevard	Campus Drive to Jamboree Road	8	12	23,135	45	0	2.0%	1.0%	67.3	-	170	538	1,701
23	Von Karman Aven	North of Main Street	4	45	28,460	12	0	2.0%	1.0%	58.5	-	-	70	223
24	Von Karman Aven	Main Street to Michelson Drive	4	45	30,116	12	0	2.0%	1.0%	58.7	-	-	75	236
25	Von Karman Aven	Michelson Drive to Campus Drive	4	45	20,621	12	0	2.0%	1.0%	57.1	-	-	-	162

¹ Distance is from the centerline of the roadway segment to the receptor location.
 "-" = contour is located within the roadway right-of-way.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 10/1/2020
 Case Description: Parking Structure - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	100	0
Dozer	No	40		81.7	100	0
Tractor	No	40	84		100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Concrete Saw	83.6	76.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	83.6	79.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Office	Commercial	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	200	0
Dozer	No	40		81.7	200	0
Tractor	No	40	84		200	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Concrete Saw	77.5	70.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	77.5	73.3	N/A	N/A	N/A	N/A	N/A	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: 10/1/2020
 Case Description: Parking Structure - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec (dBA)	Actual (dBA)		
Dozer	No		40		81.7	0
Grader	No		40	85	100	0
Tractor	No		40	84	100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	79	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	79	78.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Office	Commercial	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec (dBA)	Actual (dBA)		
Dozer	No		40		81.7	0
Grader	No		40	85	200	0
Tractor	No		40	84	200	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	77.5	70.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	69.6	65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	77.5	73.3	N/A	N/A	N/A	N/A	N/A	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: 10/1/2020
 Case Description: Parking Structure - Building

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	
			Spec (dBA)	Actual (dBA)			
Crane	No		16		80.6	100	0
Generator	No		50		80.6	100	0
Tractor	No		40	84		100	0
Welder / Torch	No		40		74	100	0
All Other Equipment > 5 HP	No		50	85		100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	74.5		66.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	74.6		71.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	78		74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	68		64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	79		76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	79		79.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Office	Commercial	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)	
			Spec (dBA)	Actual (dBA)			
Crane	No		16		80.6	200	0
Generator	No		50		80.6	200	0
Tractor	No		40	84		200	0
Welder / Torch	No		40		74	200	0
All Other Equipment > 5 HP	No		50	85		200	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	68.5		60.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	68.6		65.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	72		68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	62		58	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	73		69.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	73		73.3	N/A	N/A	N/A	N/A	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: 10/1/2020
 Case Description: Parking Structure - Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Mixer Truck	No	40	78.8	78.8	100	0
Paver	No	50	77.2	77.2	100	0
Roller	No	20	80	80	100	0
Pavement Scarafier	No	20	89.5	89.5	100	0
Tractor	No	40	84	84	100	0

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	72.8	68.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	71.2	68.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	74	67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	83.5	76.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	83.5	79.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Office	Commercial	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Mixer Truck	No	40	78.8	78.8	200	0
Paver	No	50	77.2	77.2	200	0
Roller	No	20	80	80	200	0
Pavement Scarafier	No	20	89.5	89.5	200	0
Tractor	No	40	84	84	200	0

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Concrete Mixer Truck	66.8	62.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	65.2	62.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	68	61	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	77.5	70.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	72	68	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	77.5	73.5	N/A	N/A	N/A	N/A	N/A	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: 10/1/2020
 Case Description: Residential Structure - Demolition

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	550	0
Dozer	No	40		81.7	550	0
Tractor	No	40	84		550	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Concrete Saw	68.8	61.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	60.8	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	63.2	59.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	68.8	64.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Office	Commercial	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	100	0
Dozer	No	40		81.7	100	0
Tractor	No	40	84		100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Concrete Saw	83.6	76.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	83.6	79.3	N/A	N/A	N/A	N/A	N/A	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: 10/1/2020
 Case Description: Residential Structure - Site Prep

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
Residential	Residential	55	50	50				
Description		Impact Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	
Dozer		No		40		81.7	550	0
Dozer		No		40		81.7	550	0
Dozer		No		40		81.7	550	0
Tractor		No		40	84		550	0
Front End Loader		No		40		79.1	550	0
Backhoe		No		40		77.6	550	0
Backhoe		No		40		77.6	550	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
Dozer	60.8	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	60.8	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	60.8	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	63.2	59.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	58.3	54.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	56.7	52.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	56.7	52.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	63.2	64.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)			Equipment			
		Daytime	Evening	Night	Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
Office	Commercial	55	50	50				
Description		Impact Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)	
Dozer		No		40		81.7	100	0
Dozer		No		40		81.7	100	0
Dozer		No		40		81.7	100	0
Tractor		No		40	84		100	0
Front End Loader		No		40		79.1	100	0
Backhoe		No		40		77.6	100	0
Backhoe		No		40		77.6	100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	73.1	69.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	78	79.5	N/A	N/A	N/A	N/A	N/A	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: 10/1/2020
 Case Description: Residential Structure - Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dozer	No	40		81.7	550	0
Dozer	No	40		81.7	550	0
Excavator	No	40		80.7	550	0
Excavator	No	40		80.7	550	0
Grader	No	40	85		550	0
Dozer	No	40		81.7	550	0
Scraper	No	40		83.6	550	0
Backhoe	No	40		77.6	550	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	60.8	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	60.8	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	59.9	55.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	59.9	55.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	64.2	60.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	60.8	56.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	62.8	58.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	56.7	52.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	64.2	66.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Office	Commercial	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dozer	No	40		81.7	100	0
Dozer	No	40		81.7	100	0
Excavator	No	40		80.7	100	0
Excavator	No	40		80.7	100	0
Grader	No	40	85		100	0
Dozer	No	40		81.7	100	0
Scraper	No	40		83.6	100	0
Backhoe	No	40		77.6	100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	74.7	70.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	74.7	70.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	79	75	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	75.6	71.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Scraper	77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	79	81.1	N/A	N/A	N/A	N/A	N/A	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: 10/1/2020
Case Description: Residential Structure - Building

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	550	0
Generator	No	50		80.6	550	0
Tractor	No	40	84		550	0
Front End Loader	No	40		79.1	550	0
Backhoe	No	40		77.6	550	0
Welder / Torch	No	40		74	550	0
All Other Equipment > 5 HP	No	50	85		550	0
All Other Equipment > 5 HP	No	50	85		550	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	59.7	51.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	59.8	56.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	63.2	59.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	58.3	54.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	56.7	52.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	53.2	49.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	64.2	61.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	64.2	61.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	64.2	66.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Office	Commercial	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	100	0
Generator	No	50		80.6	100	0
Tractor	No	40	84		100	0
Front End Loader	No	40		79.1	100	0
Backhoe	No	40		77.6	100	0
Welder / Torch	No	40		74	100	0
All Other Equipment > 5 HP	No	50	85		100	0
All Other Equipment > 5 HP	No	50	85		100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	74.5	66.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	74.6	71.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	78	74	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	73.1	69.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	71.5	67.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Welder / Torch	68	64	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	79	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP	79	76	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	79	81.4	N/A	N/A	N/A	N/A	N/A	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: 10/1/2020
 Case Description: Residential Structure - Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Residential	Residential	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec (dBA)	Actual (dBA)		
Paver	No	50	50	77.2	550	0
Paver	No	50	50	77.2	550	0
Pavement Scarafier	No	20	20	89.5	550	0
Pavement Scarafier	No	20	20	89.5	550	0
Roller	No	20	20	80	550	0
Roller	No	20	20	80	550	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	56.4	53.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	56.4	53.4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	68.7	61.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	68.7	61.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	59.2	52.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	59.2	52.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	68.7	65.7	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Office	Commercial	55	50	50

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec (dBA)	Actual (dBA)		
Paver	No	50	50	77.2	100	0
Paver	No	50	50	77.2	100	0
Pavement Scarafier	No	20	20	89.5	100	0
Pavement Scarafier	No	20	20	89.5	100	0
Roller	No	20	20	80	100	0
Roller	No	20	20	80	100	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				Noise Limit Exceedance (dBA)							
	*Lmax	Leq	Day		Evening		Night		Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Paver	71.2	68.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	71.2	68.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	83.5	76.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	83.5	76.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	74	67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	74	67	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	83.5	80.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.