

# Appendix C

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Noise Measurements and Analyses

Figure C-1 Noise Measurement Locations



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Fig 3 Noise Measurement Locations

Freq Weight : A  
Time Weight : FAST  
Level Range : 50-110  
Max dB : 82.2 - 2017/01/10 17: 45: 53  
Level Range : 50-110  
SEL : 91.2  
Leq : 61.7

No. s	Date Time	(dB)
1	2017/01/10 17: 33: 30	48.9
2	2017/01/10 17: 33: 32	49.1
3	2017/01/10 17: 33: 34	48.6
4	2017/01/10 17: 33: 36	48.5
5	2017/01/10 17: 33: 38	49.7
6	2017/01/10 17: 33: 40	49.2
7	2017/01/10 17: 33: 42	49.4
8	2017/01/10 17: 33: 44	51.5
9	2017/01/10 17: 33: 46	51.6
10	2017/01/10 17: 33: 48	51.7
11	2017/01/10 17: 33: 50	53.6
12	2017/01/10 17: 33: 52	57.1
13	2017/01/10 17: 33: 54	67.9
14	2017/01/10 17: 33: 56	63.4
15	2017/01/10 17: 33: 58	56.5
16	2017/01/10 17: 34: 00	56.0
17	2017/01/10 17: 34: 02	60.5
18	2017/01/10 17: 34: 04	68.3
19	2017/01/10 17: 34: 06	64.1
20	2017/01/10 17: 34: 08	57.7
21	2017/01/10 17: 34: 10	59.8
22	2017/01/10 17: 34: 12	68.5
23	2017/01/10 17: 34: 14	60.0
24	2017/01/10 17: 34: 16	55.9
25	2017/01/10 17: 34: 18	54.7
26	2017/01/10 17: 34: 20	57.5
27	2017/01/10 17: 34: 22	65.8
28	2017/01/10 17: 34: 24	61.9
29	2017/01/10 17: 34: 26	58.0
30	2017/01/10 17: 34: 28	62.9
31	2017/01/10 17: 34: 30	57.1
32	2017/01/10 17: 34: 32	58.4
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34	2017/01/10 17: 34: 36	56.0
35	2017/01/10 17: 34: 38	53.5
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39	2017/01/10 17: 34: 46	60.5
40	2017/01/10 17: 34: 48	62.8
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48	2017/01/10 17: 35: 04	59.7
49	2017/01/10 17: 35: 06	60.7
50	2017/01/10 17: 35: 08	69.4
51	2017/01/10 17: 35: 10	65.3
52	2017/01/10 17: 35: 12	57.5
53	2017/01/10 17: 35: 14	54.3
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404	2017/01/10	17: 46: 56	55. 8
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410	2017/01/10	18:04:18	69.2
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414	2017/01/10	18:04:26	49.4
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421	2017/01/10	18:04:40	64.3
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423	2017/01/10	18:04:44	70.2
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447	2017/01/10	18:05:32	50.7
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450	2017/01/10	18:05:38	56.2

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Time Weight : FAST  
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Max dB : 65.3 - 2017/01/10 18: 13: 28  
Level Range : 50-110  
SEL : 75.7  
Leq : 46.2

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3	2017/01/10 18: 13: 13	49.4
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9	2017/01/10 18: 13: 25	44.4
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385	2017/01/10	18:25:57	41.9
386	2017/01/10	18:25:59	42.2
387	2017/01/10	18:26:01	49.9
388	2017/01/10	18:26:03	55.4
389	2017/01/10	18:26:05	46.2
390	2017/01/10	18:26:07	44.2
391	2017/01/10	18:26:09	44.2
392	2017/01/10	18:26:11	42.6
393	2017/01/10	18:26:13	42.2
394	2017/01/10	18:26:15	45.5
395	2017/01/10	18:26:17	45.0
396	2017/01/10	18:26:19	42.4
397	2017/01/10	18:26:21	41.3
398	2017/01/10	18:26:23	41.9
399	2017/01/10	18:26:25	43.4
400	2017/01/10	18:26:27	44.0
401	2017/01/10	18:26:29	46.1
402	2017/01/10	18:26:31	43.5
403	2017/01/10	18:26:33	45.5
404	2017/01/10	18:26:35	46.2
405	2017/01/10	18:26:37	47.2
406	2017/01/10	18:26:39	43.1
407	2017/01/10	18:26:41	42.7
408	2017/01/10	18:26:43	43.9
409	2017/01/10	18:26:45	47.2
410	2017/01/10	18:26:47	44.6
411	2017/01/10	18:26:49	44.2
412	2017/01/10	18:26:51	45.2
413	2017/01/10	18:26:53	43.6
414	2017/01/10	18:26:55	45.6
415	2017/01/10	18:26:57	50.1
416	2017/01/10	18:26:59	42.6
417	2017/01/10	18:27:01	41.8
418	2017/01/10	18:27:03	42.3
419	2017/01/10	18:27:05	44.8
420	2017/01/10	18:27:07	43.7
421	2017/01/10	18:27:09	44.1
422	2017/01/10	18:27:11	46.0
423	2017/01/10	18:27:13	44.9
424	2017/01/10	18:27:15	44.0
425	2017/01/10	18:27:17	44.8
426	2017/01/10	18:27:19	44.2
427	2017/01/10	18:27:21	46.7
428	2017/01/10	18:27:23	46.0
429	2017/01/10	18:27:25	47.4
430	2017/01/10	18:27:27	47.9
431	2017/01/10	18:27:29	45.1
432	2017/01/10	18:27:31	42.6
433	2017/01/10	18:27:33	42.5
434	2017/01/10	18:27:35	42.2
435	2017/01/10	18:27:37	44.5
436	2017/01/10	18:27:39	42.4
437	2017/01/10	18:27:41	42.1
438	2017/01/10	18:27:43	43.1
439	2017/01/10	18:27:45	47.2
440	2017/01/10	18:27:47	46.5
441	2017/01/10	18:27:49	44.7
442	2017/01/10	18:27:51	46.1
443	2017/01/10	18:27:53	43.2
444	2017/01/10	18:27:55	47.0
445	2017/01/10	18:27:57	43.5
446	2017/01/10	18:27:59	43.3
447	2017/01/10	18:28:01	43.1
448	2017/01/10	18:28:03	43.5
449	2017/01/10	18:28:05	42.8
450	2017/01/10	18:28:07	45.8

**Table C-1 Typical Noise Levels Generated by Construction Equipment During Different Phases of Construction**

<b>Equipment</b>	<b>Type</b>	<b>Typical Lmax (dBA) 100 feet from the Source</b>
<b>Demolition</b>		
Backhoe	Mobile	68
Front End Loader	Mobile	67
Saw	Stationary	58
Dozer	Mobile	73
<b>Site Preparation</b>		
Grader	Mobile	68
Front End Loader	Mobile	76
Backhoe	Mobile	67
<b>Grading</b>		
Saw	Mobile	69
Front End Loader	Mobile	67
Dozer	Stationary	73
Backhoe	Mobile	68
<b>Building Construction</b>		
Crane	Mobile	68
Forklift	Mobile	67
Front End Loader	Mobile	68
Backhoe	Mobile	67
<b>Architectural Coating</b>		
Air Compressor	Stationary	69
Source: FHWA, Highway Construction Noise Handbook, 2006.		

**HEAVY EQUIPMENT NOISE IMPACT ESTIMATION 923-931 Palm Ave. Congregate Care Facility Project**

Scenario: Demolition  
 Nearest Sensitive Receptor-50 feet

Noise Source- At Residential Receptor	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of		Distance, Ft.	Leq, dBA
			Workday Hours In Use	Effective Use Factor*		
Concrete Saw	90	1	1	0.2	50	83
Dozer	82	1	1	0.4	50	78
Backhoe	78	3	1	0.4	50	79

<b>TOTAL Leq DURING NORMAL OPERATIONS:</b>	<b>85</b>	<b>dBA</b>
Daytime Ambient without Equipment Operation:	63	dBA
Nighttime Ambient without Equipment Operation	45	dBA
Daytime Hours Operating:	8	
Evening Hours Operating:	0	
Nighttime Hours Operating:	0	
<i>Combined Daytime Hourly Leq-Receptor:</i>	<i>85</i>	<i>dBA</i>
<i>Combined Nighttime Hourly Leq:</i>	<i>45</i>	<i>dBA</i>
<b>ESTIMATED Ldn:</b>	<b>81</b>	<b>dBA</b>
<b>ESTIMATED CNEL:</b>	<b>81</b>	<b>dBA</b>

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

\* Assumed percentage of time that equipment is operating at near maximum sound level.  
 Equipment type per CalEEMod supplied information

Equipment Use and Noise Level Source:

Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*. Accessed at [https://www.fhwa.dot.gov/environment/noise/construction\\_noise/handbook/](https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/)

**HEAVY EQUIPMENT NOISE IMPACT ESTIMATION 923-931 Palm Ave. Congregate Care Facility Project**

Scenario: Site Prep  
 Nearest Sensitive Receptor-50 feet

Noise Source- At Residential Receptor	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday Hours In Use	Effective Use Factor *	Distance, Ft.	Leq, dBA
Graders	85	1	1	0.4	50	81
Dozer	82	1	1	0.4	50	78
Backhoe	78	1	1	0.4	50	74

**TOTAL Leq DURING NORMAL OPERATION: 83 dBA**

Daytime Ambient without Equipment Operation: 63 dBA  
 Nighttime Ambient without Equipment Operation: 45 dBA  
 Daytime Hours Operating: 8  
 Evening Hours Operating: 0  
 Nighttime Hours Operating: 0  
 Combined Daytime Hourly Leq-Receptor: 83 dBA  
 Combined Nighttime Hourly Leq: 45 dBA  
**ESTIMATED Ldn: 79 dBA**  
**ESTIMATED CNEL: 79 dBA**

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

\* Assumed percentage of time that equipment is operating at near maximum sound level. Equipment type per CalEEMod supplied information

Equipment Use and Noise Level Source:  
 Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*. Accessed at [https://www.fhwa.dot.gov/environment/noise/construction\\_noise/handbook/](https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/)

**HEAVY EQUIPMENT NOISE IMPACT ESTIMATION 923-931 Palm Ave. Congregate Care Facility Project**

Scenario: Grading  
 Nearest Sensitive Receptor-50 feet

Noise Source- At Residential Receptor	Ave. Maximum	Number	Percentage of		Distance, Ft.	Leq, dBA
	SPL @ 50 ft., dBA		Workday Hours In Use	Effective Use Factor *		
Graders	85	1	1	0.4	50	81
Backhoe	78	2	0.75	0.4	50	76
Concrete/Industrial saws	90	1	1	0.2	50	83
Dozer	82	1	1	0.4	50	78
<b>TOTAL Leq DURING NORMAL OPERATION</b>	<b>86</b>	<b>dBA</b>				
Daytime Ambient without Equipment Operation	63	dBA				
Nighttime Ambient without Equipment Operation	45	dBA				
Daytime Hours Operating:	8					
Evening Hours Operating:	0					
Nighttime Hours Operating:	0					
Combined Daytime Hourly Leq-Receptor:	86	dBA				
Combined Nighttime Hourly Leq:	45	dBA				
<b>ESTIMATED Ldn:</b>	<b>82</b>	<b>dBA</b>				
<b>ESTIMATED CNEL:</b>	<b>82</b>	<b>dBA</b>				

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

\* Assumed percentage of time that equipment is operating at near maximum sound level.  
 Equipment type per CalEEMod supplied information

Equipment Use and Noise Level Source:

Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*. Accessed at [https://www.fhwa.dot.gov/environment/noise/construction\\_noise/handbook/](https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/)

**HEAVY EQUIPMENT NOISE IMPACT ESTIMATION 923-931 Palm Ave. Congregate Care Facility Project**

Scenario: Building Construction  
 Nearest Sensitive Receptor-50 feet

Noise Source- At Residential Receptor	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of Workday		Effective Use Factor *	Distance, Ft.	Leq, dBA
			Hours In Use	Use			
Cranes [1]	81	1	0.5	0.16		50	70
Forklifts [2]	83	2	0.75	0.5		50	82
Backhoe [1]	78	2	1	0.4		50	77

**TOTAL Leq DURING NORMAL OPERATION: 83 dBA**

Daytime Ambient without Equipment Operation	63	dBA
Nighttime Ambient without Equipment Operation	45	dBA
Daytime Hours Operating:	8	
Evening Hours Operating:	0	
Nighttime Hours Operating:	0	
Combined Daytime Hourly Leq- Receptor:	83	dBA
Combined Nighttime Hourly Leq:	45	dBA
<b>ESTIMATED Ldn:</b>	<b>79</b>	<b>dBA</b>
<b>ESTIMATED CNEL:</b>	<b>79</b>	<b>dBA</b>

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

\* Assumed percentage of time that equipment is operating at near maximum sound level. Equipment type per CalEEMod supplied information

Equipment Use and Noise Level Source:

[1] Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*. Accessed at [https://www.fhwa.dot.gov/environment/noise/construction\\_noise/handbook/](https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/)

[2] Federal Transit Administration (FTA) (2006), *Transit Noise and Vibration Assessment*

**HEAVY EQUIPMENT NOISE IMPACT ESTIMATION 923-931 Palm Ave. Congregate Care Facility Project**

Scenario: Paving  
 Nearest Sensitive Receptor-50 feet

Noise Source- At Residential Receptor	Ave. Maximum	Number	Percentage of		Distance, Ft.	Leq, dBA
	SPL @ 50 ft., dBA		Workday Hours In Use	Effective Use Factor *		
Cement Mixers	79	4	0.75	0.4	50	80
Pavers	77	1	0.875	0.5	50	73
Rollers	80	1	0.875	0.4	50	75
Backhoe	78	1	0.875	0.4	50	73

**TOTAL Leq DURING NORMAL OPERATION: 82 dBA**

Daytime Ambient without Equipment Operation: 63 dBA  
 Nighttime Ambient without Equipment Operation: 45 dBA  
 Daytime Hours Operating: 8  
 Evening Hours Operating: 0  
 Nighttime Hours Operating: 0  
 Combined Daytime Hourly Leq: 82 dBA  
 Combined Nighttime Hourly Leq: 45 dBA  
**ESTIMATED Ldn: 78 dBA**  
**ESTIMATED CNEL: 78 dBA**

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable

\* Assumed percentage of time that equipment is operating at near maximum sound level.  
 Equipment type per CalEEMod supplied information

Equipment Use and Noise Level Source:  
 Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*. Accessed at  
[https://www.fhwa.dot.gov/environment/noise/construction\\_noise/handbook/](https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/)

**HEAVY EQUIPMENT NOISE IMPACT ESTIMATION 923-931 Palm Ave. Congregate Care Facility Project**

Scenario: Architectural Coating  
 Nearest Sensitive Receptor-50 feet

Noise Source- At Residential Receptor	Ave. Maximum SPL @ 50 ft., dBA	Number	Percentage of		Distance, Ft.	Leq, dBA
			Workday Hours In Use	Effective Use Factor		
Air Compressor	78	1	0.75	0.4	50	73
<b>TOTAL Leq DURING NORMAL OPERATIOI</b>	<b>73</b>					<b>dBA</b>
Daytime Ambient without Equipment Operatic	63					dBA
Nighttime Ambient without Equipment Operat	45					dBA
Daytime Hours Operating:	8					
Evening Hours Operating:	0					
Nighttime Hours Operating:	0					
Combined Daytime Hourly Leq:	73					dBA
Combined Nighttime Hourly Leq:	45					dBA
<b>ESTIMATED Ldn:</b>	<b>69</b>					<b>dBA</b>
<b>ESTIMATED CNEL:</b>	<b>69</b>					<b>dBA</b>

Distance attenuation assumed at: 6 dBA per doubling of distance

Notes: #N/A = Not Applicable  
 \* Assumed percentage of time that equipment is operating at near maximum sound level.  
 Equipment type per CalEEMod supplied information

Equipment Use and Noise Level Source:  
 Federal Highway Administration (FHWA) (2006), *Construction Noise Handbook*. Accessed at  
[https://www.fhwa.dot.gov/environment/noise/construction\\_noise/handbook/](https://www.fhwa.dot.gov/environment/noise/construction_noise/handbook/)