

Appendix E

Noise Modeling Results and Noise Measurement Data

Freq Weight : A
Time Weight : FAST
Level Range : 40-100
Max dB : 87.5 - 2018/09/10 08:59:53
Level Range : 40-100
SEL : 99.5
Leq : 70.0

No. s	Date Time	(dB)
1	2018/09/10 08:47:06	73.4
2	2018/09/10 08:47:07	73.5
3	2018/09/10 08:47:08	72.7
4	2018/09/10 08:47:09	74.0
5	2018/09/10 08:47:10	73.0
6	2018/09/10 08:47:11	75.5
7	2018/09/10 08:47:12	74.9
8	2018/09/10 08:47:13	73.7
9	2018/09/10 08:47:14	71.6
10	2018/09/10 08:47:15	70.7
11	2018/09/10 08:47:16	72.5
12	2018/09/10 08:47:17	71.6
13	2018/09/10 08:47:18	73.3
14	2018/09/10 08:47:19	72.1
15	2018/09/10 08:47:20	69.5
16	2018/09/10 08:47:21	68.3
17	2018/09/10 08:47:22	68.7
18	2018/09/10 08:47:23	68.7
19	2018/09/10 08:47:24	68.1
20	2018/09/10 08:47:25	67.9
21	2018/09/10 08:47:26	70.3
22	2018/09/10 08:47:27	69.8
23	2018/09/10 08:47:28	69.3
24	2018/09/10 08:47:29	69.2
25	2018/09/10 08:47:30	68.8
26	2018/09/10 08:47:31	66.1
27	2018/09/10 08:47:32	63.4
28	2018/09/10 08:47:33	63.3
29	2018/09/10 08:47:34	62.3
30	2018/09/10 08:47:35	61.1
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32	2018/09/10 08:47:37	60.7
33	2018/09/10 08:47:38	61.8
34	2018/09/10 08:47:39	66.0
35	2018/09/10 08:47:40	67.8
36	2018/09/10 08:47:41	69.0
37	2018/09/10 08:47:42	68.0
38	2018/09/10 08:47:43	73.1
39	2018/09/10 08:47:44	74.7
40	2018/09/10 08:47:45	69.6
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44	2018/09/10 08:47:49	64.2
45	2018/09/10 08:47:50	64.1
46	2018/09/10 08:47:51	64.6
47	2018/09/10 08:47:52	64.8
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49	2018/09/10 08:47:54	63.2
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51	2018/09/10 08:47:56	60.4
52	2018/09/10 08:47:57	59.0
53	2018/09/10 08:47:58	60.5
54	2018/09/10 08:47:59	61.3
55	2018/09/10 08:48:00	59.9
56	2018/09/10 08:48:01	59.3
57	2018/09/10 08:48:02	60.5
58	2018/09/10 08:48:03	59.4
59	2018/09/10 08:48:04	60.8
60	2018/09/10 08:48:05	60.6
61	2018/09/10 08:48:06	59.9
62	2018/09/10 08:48:07	60.5
63	2018/09/10 08:48:08	61.5
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69	2018/09/10 08:48:14	62.2
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71	2018/09/10 08:48:16	62.0
72	2018/09/10 08:48:17	60.8
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74	2018/09/10 08:48:19	64.5
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94	2018/09/10	08:48:39	63.8
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96	2018/09/10	08:48:41	64.6
97	2018/09/10	08:48:42	64.7
98	2018/09/10	08:48:43	68.5
99	2018/09/10	08:48:44	68.1
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101	2018/09/10	08:48:46	67.5
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854	2018/09/10	09:01:19	72.5
855	2018/09/10	09:01:20	70.6
856	2018/09/10	09:01:21	69.0
857	2018/09/10	09:01:22	68.4
858	2018/09/10	09:01:23	70.7
859	2018/09/10	09:01:24	71.6
860	2018/09/10	09:01:25	70.5
861	2018/09/10	09:01:26	70.0
862	2018/09/10	09:01:27	70.4
863	2018/09/10	09:01:28	70.5
864	2018/09/10	09:01:29	69.7
865	2018/09/10	09:01:30	69.4
866	2018/09/10	09:01:31	69.5
867	2018/09/10	09:01:32	69.5
868	2018/09/10	09:01:33	69.2
869	2018/09/10	09:01:34	69.6
870	2018/09/10	09:01:35	68.5
871	2018/09/10	09:01:36	68.5
872	2018/09/10	09:01:37	67.7
873	2018/09/10	09:01:38	65.2
874	2018/09/10	09:01:39	63.7
875	2018/09/10	09:01:40	63.6
876	2018/09/10	09:01:41	63.1
877	2018/09/10	09:01:42	62.6

878	2018/09/10	09:01:43	62.6
879	2018/09/10	09:01:44	62.6
880	2018/09/10	09:01:45	75.2
881	2018/09/10	09:01:46	79.5
882	2018/09/10	09:01:47	65.8
883	2018/09/10	09:01:48	67.0
884	2018/09/10	09:01:49	68.8
885	2018/09/10	09:01:50	70.0
886	2018/09/10	09:01:51	71.6
887	2018/09/10	09:01:52	71.4
888	2018/09/10	09:01:53	71.3
889	2018/09/10	09:01:54	68.0
890	2018/09/10	09:01:55	67.6
891	2018/09/10	09:01:56	66.2
892	2018/09/10	09:01:57	65.6
893	2018/09/10	09:01:58	64.5
894	2018/09/10	09:01:59	72.1
895	2018/09/10	09:02:00	69.3
896	2018/09/10	09:02:01	69.3
897	2018/09/10	09:02:02	68.1
898	2018/09/10	09:02:03	66.5
899	2018/09/10	09:02:04	67.3
900	2018/09/10	09:02:05	66.5

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 12/6/2018
 Case Description: Auto Dealership - Demolition

---- Receptor #1 ----

Description Land Use
 Hope Technology School Commercial

Baselines (dBA)		
Daytime	Evening	Night
70	70	70

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Excavator	No	40		80.7	370	0
Excavator	No	40		80.7	370	0
Excavator	No	40		80.7	370	0
Concrete Saw	No	20		89.6	370	0
Dozer	No	40		81.7	370	0
Dozer	No	40		81.7	370	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		
Excavator	63.3	59.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	63.3	59.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	63.3	59.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Saw	72.2	65.2	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	64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	72.2	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

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/12/2018
 Case Description: Auto Dealership - Site Preparation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Hope Technology School	Commercial	70	70	70

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dozer	No	40		81.7	370	0
Dozer	No	40		81.7	370	0
Dozer	No	40		81.7	370	0
Tractor	No	40	84		370	0
Tractor	No	40	84		370	0
Backhoe	No	40		77.6	370	0
Backhoe	No	40		77.6	370	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	64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	66.6	62.6	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	66.6	62.6	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	60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	60.2	56.2	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	66.6	68.9	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
		0	0	0

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

Tractor	No	40	84	0	0
Backhoe	No	40		77.6	0
Backhoe	No	40		77.6	0

Equipment	Results													
	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq
Dozer			0		0		0		0		0		0	
Dozer			0		0		0		0		0		0	
Dozer			0		0		0		0		0		0	
Tractor			0		0		0		0		0		0	
Tractor			0		0		0		0		0		0	
Backhoe			0		0		0		0		0		0	
Backhoe			0		0		0		0		0		0	
Total		0	0		0		0		0		0		0	

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/12/2018
 Case Description: Auto Dealership - Grading

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Hope Technology School	Commercial	70	70	70

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	370	0
Dozer	No	40		81.7	370	0
Grader	No	40	85		370	0
Tractor	No	40	84		370	0
Backhoe	No	40		77.6	370	0
Backhoe	No	40		77.6	370	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
Excavator	63.3	59.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer	64.3	60.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Grader	67.6	63.6	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	66.6	62.6	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	60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	60.2	56.2	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	67.6	68.4	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.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
		0	0	0

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	0	0
Dozer	No	40		81.7	0	0
Grader	No	40	85		0	0
Tractor	No	40	84		0	0
Backhoe	No	40		77.6	0	0
Backhoe	No	40		77.6	0	0

Results

Calculated (dBA)	Noise Limits (dBA)			Noise Limit Exceedance (dBA)		
	Day	Evening	Night	Day	Evening	Night

Equipment	*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Excavator			0		0		0		0		0		0		0
Dozer			0		0		0		0		0		0		0
Grader			0		0		0		0		0		0		0
Tractor			0		0		0		0		0		0		0
Backhoe			0		0		0		0		0		0		0
Backhoe			0		0		0		0		0		0		0
Total		0	0		0		0		0		0		0		0

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 12/5/2018
 Case Description: Auto Dealership - Building Construction

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Hope Technology School	Commercial	70	70	70

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Tractor	No	40	84		370	0
Backhoe	No	40		77.6	370	0
Backhoe	No	40		77.6	370	0
Crane	No	16		80.6	370	0
Man Lift	No	20		74.7	370	0
Man Lift	No	20		74.7	370	0
Man Lift	No	20		74.7	370	0
Generator	No	50		80.6	370	0
Welder / Torch	No	40		74	370	0
Auger Drill Rig	No	20		84.4	370	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
Tractor	66.6	62.6	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	60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	60.2	56.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane	63.2	55.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	57.3	50.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	57.3	50.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift	57.3	50.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Generator	63.2	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
Welder / Torch	56.6	52.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Auger Drill Rig	67	60	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	67	67.4	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: 10/12/2018
 Case Description: Auto Dealership - Paving

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Hope Technology School	Commercial	70	70	70

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Pavement Scarafier	No	20	89.5	89.5	370	0
Pavement Scarafier	No	20	89.5	89.5	370	0
Roller	No	20	80	80	370	0
Paver	No	50	77.2	77.2	370	0
Paver	No	50	77.2	77.2	370	0
Roller	No	20	80	80	370	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	
Pavement Scarafier	72.1	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Pavement Scarafier	72.1	65.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	62.6	55.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	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	N/A
Paver	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	N/A
Roller	62.6	55.6	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	72.1	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	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
		0	0	0

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

Paver	No	50	77.2	0	0
Roller	No	20	80	0	0

Equipment	Results													
	Calculated (dBA)		Noise Limits (dBA)						Noise Limit Exceedance (dBA)					
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax	Leq
Pavement Scarafier			0		0		0		0		0		0	
Pavement Scarafier			0		0		0		0		0		0	
Roller			0		0		0		0		0		0	
Paver			0		0		0		0		0		0	
Paver			0		0		0		0		0		0	
Roller			0		0		0		0		0		0	
Total		0	0		0		0		0		0		0	

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/12/2018

Case Description: Auto Dealership - Architectural Coating

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Hope Technology School	Commercial	70	70	70

Description	Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Compressor (air)	No	40		77.7	370	0

Equipment	Calculated (dBA)	Noise Limits (dBA)								Noise Limit Exceedance (dBA)				
		Day		Evening		Night		Day		Evening		Night		
		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Compressor (air)	60.3	56.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	60.3	56.3	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
		0	0	0

Description	Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Compressor (air)	No	40		77.7	0	0

Equipment	Calculated (dBA)	Noise Limits (dBA)								Noise Limit Exceedance (dBA)				
		Day		Evening		Night		Day		Evening		Night		
		*Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Compressor (air)	0	0	0	0	0	0	0	0	0	0	0	0	0	
Total	0	0	0	0	0	0	0	0	0	0	0	0	0	

*Calculated Lmax is the Loudest value.