Appendix J

Noise

Sportsmen's Lodge Mixed-Use Project

Noise Calculations Worksheets

Provided by Acoustical Engineering Services

Ambient Noise Measurements

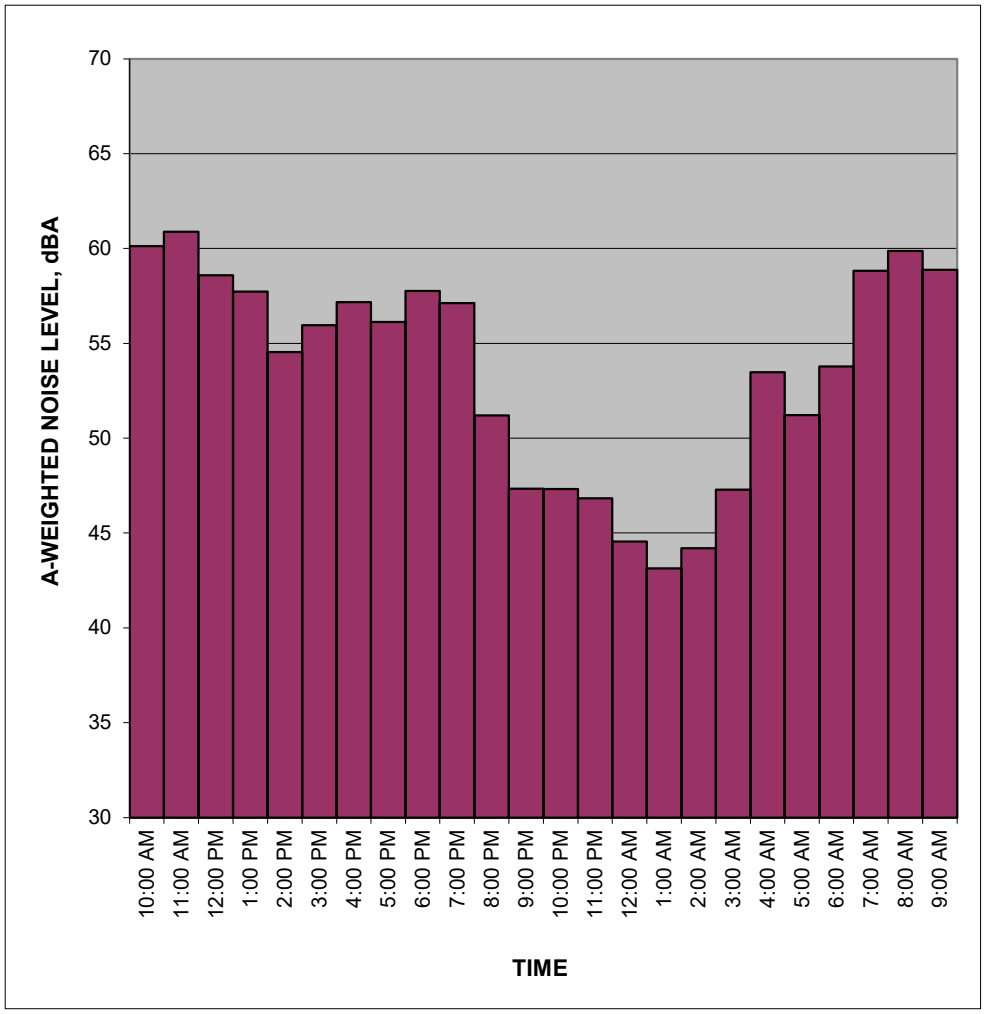
Measured Ambient Noise Levels

AES
Acoustical Engineering Services

Project: Sportsmen's Lodge
Location: R7
Sources: Ambient

Date: 6/8 - 6/9/2021

TIME	HNL, dB(A)
10:00 AM	60.1
11:00 AM	60.9
12:00 PM	58.6
1:00 PM	57.7
2:00 PM	54.5
3:00 PM	56.0
4:00 PM	57.2
5:00 PM	56.1
6:00 PM	57.8
7:00 PM	57.1
8:00 PM	51.2
9:00 PM	47.3
10:00 PM	47.3
11:00 PM	46.8
12:00 AM	44.6
1:00 AM	43.1
2:00 AM	44.2
3:00 AM	47.3
4:00 AM	53.5
5:00 AM	51.2
6:00 AM	53.8
7:00 AM	58.8
8:00 AM	59.9
9:00 AM	58.9
CNEL, dB(A):	**58.9**



NOTES:

Daytime average	57.8	dBA Leq
Nighttime average	49.6	dBA Leq

AES
ACOUSTICAL ENGINEERING SERVICES

Location: R1
Date: 6/8/2021

Time	Leq	Lmax
10:34:36 AM	68.8	69.9
10:34:46 AM	66.8	70.6
10:34:56 AM	67.4	74.4
10:35:06 AM	71.9	74.7
10:35:16 AM	68.5	69.8
10:35:26 AM	68.9	70.3
10:35:36 AM	76.6	82.3
10:35:46 AM	60.9	66.9
10:35:56 AM	69.9	78.4
10:36:06 AM	74.5	76.7
10:36:16 AM	72.7	75.5
10:36:26 AM	71	73
10:36:36 AM	66.5	69.1
10:36:46 AM	77.5	84.3
10:36:56 AM	73.8	76.8
10:37:06 AM	69.4	74
10:37:16 AM	73.2	77.4
10:37:26 AM	70.5	72.7
10:37:36 AM	71.7	76.1
10:37:46 AM	61.5	67.4
10:37:56 AM	69.3	71.4
10:38:06 AM	71.5	75.6
10:38:16 AM	73.7	76.6
10:38:26 AM	70.7	73.7
10:38:36 AM	67	69.1
10:38:46 AM	66.4	71
10:38:56 AM	70.1	73.2
10:39:06 AM	69.2	74
10:39:16 AM	69.8	73.4
10:39:26 AM	71.4	74.4
10:39:36 AM	66.8	73.6
10:39:46 AM	72.3	76
10:39:56 AM	74.6	76.5
10:40:06 AM	72.6	75.8
10:40:16 AM	66.2	71
10:40:26 AM	66.7	67.9
10:40:36 AM	63.5	64.5
10:40:46 AM	60.1	62.5
10:40:56 AM	70.8	76.4
10:41:06 AM	71.9	76.1
10:41:16 AM	68.7	72.1

10:41:26 AM	70.4	76.5
10:41:36 AM	76.8	79.8
10:41:46 AM	73.9	77.7
10:41:56 AM	77.1	81.7
10:42:06 AM	69.8	72.6
10:42:16 AM	65.6	68.1
10:42:26 AM	65.4	67.5
10:42:36 AM	69.2	72
10:42:46 AM	63	66.9
10:42:56 AM	65.8	72.6
10:43:06 AM	69.9	73.5
10:43:16 AM	74.2	77.1
10:43:26 AM	70.6	73.2
10:43:36 AM	71.4	75.4
10:43:46 AM	74.6	77.3
10:43:56 AM	70.6	76
10:44:06 AM	69.6	75.2
10:44:16 AM	74.7	77.8
10:44:26 AM	71.8	74.4
10:44:36 AM	71.2	73.6
10:44:46 AM	65.9	70.9
10:44:56 AM	69.5	74.5
10:45:06 AM	71.1	75
10:45:16 AM	66	71.2
10:45:26 AM	72.3	75.6
10:45:36 AM	64	66
10:45:46 AM	61.7	63.5
10:45:56 AM	72.6	76.5
10:46:06 AM	75.4	77
10:46:16 AM	74.7	77
10:46:26 AM	74.1	77.5
10:46:36 AM	64.9	66.7
10:46:46 AM	64.2	67.1
10:46:56 AM	62.5	65.9
10:47:06 AM	61.6	64.7
10:47:16 AM	71.8	76.7
10:47:26 AM	66	69.7
10:47:36 AM	65.7	73.7
10:47:46 AM	68.1	73.6
10:47:56 AM	63.7	69.5
10:48:06 AM	60.4	62.9
10:48:16 AM	70.5	75.6
10:48:26 AM	74.4	77.7
10:48:36 AM	73.5	77.7
10:48:46 AM	65.3	70

10:48:56 AM	69.7	76.2
10:49:06 AM	59	63
10:49:16 AM	66	70.3
10:49:26 AM	71	73.5
	71.1	

Time	Leq	Lmax
9:59:49 PM	51.8	57.6
9:59:59 PM	66.3	68.9
10:00:09 PM	65.8	68.4
10:00:19 PM	64.4	68.4
10:00:29 PM	63.8	67.9
10:00:39 PM	54.3	57.5
10:00:49 PM	65	71
10:00:59 PM	70.4	75.7
10:01:09 PM	62.9	65.1
10:01:19 PM	71.9	75.7
10:01:29 PM	72.1	76.2
10:01:39 PM	54.2	59.5
10:01:49 PM	52.5	57.2
10:01:59 PM	59.2	66.1
10:02:09 PM	73.5	77.1
10:02:19 PM	67.9	73.9
10:02:29 PM	70.2	76.4
10:02:39 PM	57.4	59.5
10:02:49 PM	67	74.1
10:02:59 PM	72.4	75.1
10:03:09 PM	72.6	75.7
10:03:19 PM	64.8	69
10:03:29 PM	61.9	64.9
10:03:39 PM	69	72.6
10:03:49 PM	66.8	70.4
10:03:59 PM	65.8	72.5
10:04:09 PM	69.8	73.7
10:04:19 PM	74.4	78.1
10:04:29 PM	68.4	75.7
10:04:39 PM	61.5	65.2
10:04:49 PM	71.8	79
10:04:59 PM	77.1	81.7
10:05:09 PM	63.6	68.7
10:05:19 PM	52.6	55.8
10:05:29 PM	52.6	54.7
10:05:39 PM	62.3	70
10:05:49 PM	70.9	76.1
10:05:59 PM	66.9	71.5

10:06:09 PM	69.1	71.9
10:06:19 PM	71.1	75.5
10:06:29 PM	70.8	73.7
10:06:39 PM	72.7	76.8
10:06:49 PM	71.7	74.4
10:06:59 PM	68	71.1
10:07:09 PM	69.7	74.6
10:07:19 PM	63.4	65.8
10:07:29 PM	63.8	69.2
10:07:39 PM	68.3	71.4
10:07:49 PM	56.5	61.9
10:07:59 PM	74	80.9
10:08:09 PM	67.3	75.4
10:08:19 PM	67.6	74.3
10:08:29 PM	73.7	76.2
10:08:39 PM	72	75.7
10:08:49 PM	70.8	77.2
10:08:59 PM	65.9	70.8
10:09:09 PM	65.7	68.4
10:09:19 PM	68.6	76.9
10:09:29 PM	72.4	77
10:09:39 PM	75.1	80.1
10:09:49 PM	67.8	73.1
10:09:59 PM	61.5	66.7
10:10:09 PM	72.9	77
10:10:19 PM	68.3	72.6
10:10:29 PM	73.9	79
10:10:39 PM	62.6	70.9
10:10:49 PM	66.7	73.2
10:10:59 PM	72.5	75.1
10:11:09 PM	69.2	75.5
10:11:19 PM	73.2	75.1
10:11:29 PM	70	74.2
10:11:39 PM	64.2	67.5
10:11:49 PM	61.4	68.6
10:11:59 PM	68.9	74.2
10:12:09 PM	69	70.8
10:12:19 PM	71.1	74.4
10:12:29 PM	70.4	73.2
10:12:39 PM	68.7	73.9
10:12:49 PM	66.8	72.2
10:12:59 PM	69	72.4
10:13:09 PM	69.9	72.9
10:13:19 PM	65	70.8
10:13:29 PM	69.6	73.4

10:13:39 PM	66.4	73.1
10:13:49 PM	58.6	66.6
10:13:59 PM	74.1	78.1
10:14:09 PM	74	75.6
10:14:19 PM	70.8	75.2
10:14:29 PM	69.7	74.8
10:14:39 PM	55.3	58.6
	69.6	

AES
Acoustical Engineering Services

Location: R2
Date: 6/8/2021

Time	Leq	Lmax
10:54:07 AM	60.6	63.8
10:54:17 AM	67.4	72.5
10:54:27 AM	62.9	66.6
10:54:37 AM	60.9	66.3
10:54:47 AM	60.4	64.6
10:54:57 AM	62.7	66.7
10:55:07 AM	64.3	66.1
10:55:17 AM	59.4	64.1
10:55:27 AM	60.2	63.8
10:55:37 AM	58.6	60.8
10:55:47 AM	62.6	65.9
10:55:57 AM	61.8	68.7
10:56:07 AM	67.1	69.1
10:56:17 AM	64.1	69.3
10:56:27 AM	68.3	73.2
10:56:37 AM	61	65
10:56:47 AM	61.4	64.6
10:56:57 AM	59.3	61.2
10:57:07 AM	61.5	64.1
10:57:17 AM	65.3	69.4
10:57:27 AM	64.6	66.8
10:57:37 AM	62	66.9
10:57:47 AM	59.8	63.5
10:57:57 AM	63.9	65.6
10:58:07 AM	65.2	70.1
10:58:17 AM	61.6	65.2
10:58:27 AM	59.6	64.6
10:58:37 AM	59.8	62.3
10:58:47 AM	58.4	61.5
10:58:57 AM	58	60.4
10:59:07 AM	57.6	60.1
10:59:17 AM	61.5	66.1
10:59:27 AM	61.5	63.9
10:59:37 AM	58.8	62.7
10:59:47 AM	58.2	62.9
10:59:57 AM	64	66.8
11:00:07 AM	62.7	64.1
11:00:17 AM	62	65.2
11:00:27 AM	54.8	57.9
11:00:37 AM	56.6	60.2
11:00:47 AM	61.3	65.2

11:00:57 AM	61.5	64.7
11:01:07 AM	57.3	61.8
11:01:17 AM	58.9	60.9
11:01:27 AM	60.3	62.2
11:01:37 AM	56.9	61.1
11:01:47 AM	59.6	62.4
11:01:57 AM	65	68.9
11:02:07 AM	65.9	68
11:02:17 AM	65.5	67.2
11:02:27 AM	64.5	67.8
11:02:37 AM	57.9	60.3
11:02:47 AM	57.2	59.1
11:02:57 AM	59.8	63.6
11:03:07 AM	60.1	62.3
11:03:17 AM	58.1	60
11:03:27 AM	60	65
11:03:37 AM	60.8	65
11:03:47 AM	58.9	62.4
11:03:57 AM	65.8	68.9
11:04:07 AM	59.8	67.4
11:04:17 AM	61.6	63.8
11:04:27 AM	63.6	65.9
11:04:37 AM	60.3	63
11:04:47 AM	60.5	62.7
11:04:57 AM	60.8	65.4
11:05:07 AM	62.8	67.2
11:05:17 AM	60.5	62.7
11:05:27 AM	59.8	64.4
11:05:37 AM	64	66.2
11:05:47 AM	62.9	68
11:05:57 AM	58.3	61.8
11:06:07 AM	65.2	68.2
11:06:17 AM	65.8	71.1
11:06:27 AM	63.8	67.2
11:06:37 AM	61.6	66.3
11:06:47 AM	57.8	59.8
11:06:57 AM	59.9	64
11:07:07 AM	61.5	68.2
11:07:17 AM	66.2	68.6
11:07:27 AM	64.4	68
11:07:37 AM	62.1	67.8
11:07:47 AM	66.2	68.8
11:07:57 AM	65.6	69.5
11:08:07 AM	65.3	67.9
11:08:17 AM	63.8	67

11:08:27 AM	67.9	70.7
11:08:37 AM	70.4	73.6
11:08:47 AM	63.8	67.1
11:08:57 AM	62.3	64.9
	62.9	

Time	Leq	Lmax
10:37:07 PM	63	70.4
10:37:17 PM	62.4	66.6
10:37:27 PM	62.9	65.5
10:37:37 PM	60.9	66.7
10:37:47 PM	60.6	64.5
10:37:57 PM	60.5	65.1
10:38:07 PM	64.7	67.6
10:38:17 PM	64.3	69.5
10:38:27 PM	60.6	68.2
10:38:37 PM	49.4	57.8
10:38:47 PM	42.5	43.5
10:38:57 PM	54	63.1
10:39:07 PM	62	65.8
10:39:17 PM	60.2	66
10:39:27 PM	56.9	63
10:39:37 PM	60.1	64
10:39:47 PM	56.8	61.8
10:39:57 PM	47.4	50.7
10:40:07 PM	62.7	69.3
10:40:17 PM	66.7	70.4
10:40:27 PM	65.7	69.3
10:40:37 PM	61.5	65.8
10:40:47 PM	58.5	62.2
10:40:57 PM	59	63.9
10:41:07 PM	57.4	63.1
10:41:17 PM	58.3	66.5
10:41:27 PM	59.1	66.4
10:41:37 PM	44.3	45.9
10:41:47 PM	45	48.9
10:41:57 PM	55.8	65.4
10:42:07 PM	68.5	73.2
10:42:17 PM	64.8	73.5
10:42:27 PM	65.1	73.1
10:42:37 PM	58.2	63.1
10:42:47 PM	51	54.3
10:42:57 PM	49.5	52.2
10:43:07 PM	63.7	67.4
10:43:17 PM	58.7	62.7

10:43:27 PM	60.5	66.9
10:43:37 PM	46.7	51.9
10:43:47 PM	55.8	62.1
10:43:57 PM	53.7	59.7
10:44:07 PM	53.1	57
10:44:17 PM	55.4	62.7
10:44:27 PM	61.4	65.9
10:44:37 PM	60.8	65.7
10:44:47 PM	47	52.5
10:44:57 PM	45.4	46.9
10:45:07 PM	44.9	46.5
10:45:17 PM	66.9	73.5
10:45:27 PM	59.6	64.4
10:45:37 PM	60	63.9
10:45:47 PM	55.5	60.8
10:45:57 PM	52.4	60
10:46:07 PM	57.9	62.6
10:46:17 PM	51.8	55.6
10:46:27 PM	64	69.8
10:46:37 PM	60.2	66.4
10:46:47 PM	60.1	66
10:46:57 PM	63.9	67.9
10:47:07 PM	67.2	72.4
10:47:17 PM	60.7	64.9
10:47:27 PM	61.3	65.7
10:47:37 PM	54	61.2
10:47:47 PM	60	65.7
10:47:57 PM	60.7	64.9
10:48:07 PM	65.7	71.8
10:48:17 PM	63.4	66.8
10:48:27 PM	47.9	53.9
10:48:37 PM	63.2	68.9
10:48:47 PM	61.9	64.9
10:48:57 PM	59	64.8
10:49:07 PM	64.8	69.7
10:49:17 PM	61.3	68.5
10:49:27 PM	49.8	55.5
10:49:37 PM	58	64.5
10:49:47 PM	58.6	63.4
10:49:57 PM	61.2	65.9
10:50:07 PM	46.3	50.7
10:50:17 PM	42.7	43.4
10:50:27 PM	57.9	64
10:50:37 PM	58.1	63.7
10:50:47 PM	58.7	63.5

10:50:57 PM	56.7	69.7
10:51:07 PM	63.5	69.9
10:51:17 PM	61.2	67.4
10:51:27 PM	50.5	56
10:51:37 PM	63.7	68.4
10:51:47 PM	63	68.2
10:51:57 PM	51.1	59.7
	61.0	

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge
Location: R3
Date: 6/8/2021

Time	Leq	Lmax
11:23:31 AM	69.4	72.4
11:23:41 AM	71.6	75.4
11:23:51 AM	67.8	72.7
11:24:01 AM	66.7	71.8
11:24:11 AM	57.8	62.7
11:24:21 AM	60.8	65.3
11:24:31 AM	66.9	70.6
11:24:41 AM	70.4	74.3
11:24:51 AM	79.6	84.7
11:25:01 AM	67.6	72
11:25:11 AM	71	73.1
11:25:21 AM	68.8	70.9
11:25:31 AM	71.5	72.3
11:25:41 AM	67.8	69.4
11:25:51 AM	62.9	66.6
11:26:01 AM	60	63.8
11:26:11 AM	63.1	66.4
11:26:21 AM	63.3	65.4
11:26:31 AM	65.9	69.7
11:26:41 AM	69	72.9
11:26:51 AM	70.7	73.1
11:27:01 AM	66.3	71.4
11:27:11 AM	63.1	64.1
11:27:21 AM	65.7	68.3
11:27:31 AM	72.5	74.2
11:27:41 AM	68	69.9
11:27:51 AM	68.8	71.5
11:28:01 AM	68.5	69.8
11:28:11 AM	65.7	69.1
11:28:21 AM	59.1	61.1
11:28:31 AM	66.5	70.1
11:28:41 AM	60.2	64
11:28:51 AM	55.2	56.4
11:29:01 AM	55.4	59.2
11:29:11 AM	71.1	74.3
11:29:21 AM	71.9	74.6
11:29:31 AM	72.3	74.8
11:29:41 AM	77.7	85.8
11:29:51 AM	73.6	81.4
11:30:01 AM	65.2	66.8

11:30:11 AM	68.8	72.2
11:30:21 AM	63	65.9
11:30:31 AM	69.3	75.5
11:30:41 AM	65.9	71.6
11:30:51 AM	69.8	73.4
11:31:01 AM	59	62.1
11:31:11 AM	59.5	65.1
11:31:21 AM	66.8	68.9
11:31:31 AM	68.3	70.4
11:31:41 AM	72	73.7
11:31:51 AM	72	73.8
11:32:01 AM	68.1	70.9
11:32:11 AM	69.7	74.8
11:32:21 AM	64.5	69.1
11:32:31 AM	68.3	77
11:32:41 AM	70.6	77.3
11:32:51 AM	64.9	69.6
11:33:01 AM	71.5	74.4
11:33:11 AM	68.6	72.2
11:33:21 AM	59.8	61.1
11:33:31 AM	61	63.9
11:33:41 AM	72	74.3
11:33:51 AM	73.9	77.6
11:34:01 AM	71.3	72.4
11:34:11 AM	70	72.3
11:34:21 AM	70.5	73
11:34:31 AM	64.4	65.5
11:34:41 AM	59.7	63.9
11:34:51 AM	60.5	62.6
11:35:01 AM	63.3	71.5
11:35:11 AM	69	73.6
11:35:21 AM	65.9	67.7
11:35:31 AM	67.2	70.4
11:35:41 AM	67	70.2
11:35:51 AM	65.4	67.8
11:36:01 AM	69.1	71.6
11:36:11 AM	72	75.3
11:36:21 AM	71.9	75.9
11:36:31 AM	60.1	63.5
11:36:41 AM	58.8	64.2
11:36:51 AM	78.8	85.5
11:37:01 AM	69.1	71.9
11:37:11 AM	67.2	69.6
11:37:21 AM	70.7	72.7
11:37:31 AM	67.8	71.1

11:37:41 AM	62.2	63.3
11:37:51 AM	62.6	68.6
11:38:01 AM	71.7	79.6
11:38:11 AM	71.7	78.7
11:38:21 AM	71.4	74.3
	69.8	

Time	Leq	Lmax
10:57:26 PM	60.5	64.9
10:57:36 PM	54.5	60
10:57:46 PM	61.5	65.1
10:57:56 PM	49.7	53.7
10:58:06 PM	60.9	67.7
10:58:16 PM	69.4	71.6
10:58:26 PM	69.2	72.8
10:58:36 PM	65.4	70.7
10:58:46 PM	65.2	69
10:58:56 PM	66.1	71.5
10:59:06 PM	62.1	70
10:59:16 PM	53	54.8
10:59:26 PM	59	64.6
10:59:36 PM	60.1	65.2
10:59:46 PM	59.9	62.6
10:59:56 PM	59.2	64.8
11:00:06 PM	70	77.3
11:00:16 PM	62.1	65
11:00:26 PM	66.7	70.2
11:00:36 PM	59.5	64.7
11:00:46 PM	63.7	67.8
11:00:56 PM	74.9	79.8
11:01:06 PM	72.4	75.3
11:01:16 PM	67.2	70.8
11:01:26 PM	58.4	60.4
11:01:36 PM	70.2	74.4
11:01:46 PM	67.9	73
11:01:56 PM	66	70.2
11:02:06 PM	53.4	59.3
11:02:16 PM	68.3	72.8
11:02:26 PM	53.1	60.1
11:02:36 PM	51.9	55.8
11:02:46 PM	63.9	69.8
11:02:56 PM	66.5	68.3
11:03:06 PM	70.8	73.7
11:03:16 PM	68.3	70.9
11:03:26 PM	65.1	67.7

11:03:36 PM	68	71
11:03:46 PM	62.9	66.5
11:03:56 PM	60.5	64.4
11:04:06 PM	63.8	69.4
11:04:16 PM	64.2	69.7
11:04:26 PM	51.5	52.5
11:04:36 PM	51.3	56
11:04:46 PM	72.2	76
11:04:56 PM	60.5	68.8
11:05:06 PM	57.1	66.7
11:05:16 PM	68.6	72.8
11:05:26 PM	65.4	68.8
11:05:36 PM	66	71.4
11:05:46 PM	65.1	71.4
11:05:56 PM	67.8	72
11:06:06 PM	60.9	64.5
11:06:16 PM	61.1	64.7
11:06:26 PM	57.3	61.5
11:06:36 PM	62.6	63.5
11:06:46 PM	67.5	73.6
11:06:56 PM	69.1	73.7
11:07:06 PM	61.2	64.9
11:07:16 PM	59.8	65
11:07:26 PM	66.6	69.8
11:07:36 PM	64.2	68
11:07:46 PM	64.6	66.6
11:07:56 PM	65.7	70.1
11:08:06 PM	57.9	63.9
11:08:16 PM	61.4	64.7
11:08:26 PM	66.6	71.1
11:08:36 PM	69.7	75.5
11:08:46 PM	75.5	78.7
11:08:56 PM	71.2	75.1
11:09:06 PM	61.2	65.8
11:09:16 PM	63.1	67.8
11:09:26 PM	54.3	58.7
11:09:36 PM	60.9	63.4
11:09:46 PM	59.5	63.4
11:09:56 PM	64.4	68
11:10:06 PM	59.9	65.2
11:10:16 PM	66.1	69.5
11:10:26 PM	63.7	72.3
11:10:36 PM	65.9	72.1
11:10:46 PM	64.6	66.2
11:10:56 PM	65.7	70.2

11:11:06 PM	66.5	71
11:11:16 PM	62.7	68.2
11:11:26 PM	64.5	71.8
11:11:36 PM	69.4	71.2
11:11:46 PM	64.5	69.5
11:11:56 PM	68.9	70.4
11:12:06 PM	68	73.2
11:12:16 PM	71.5	74.8
	66.5	

AES
Acoustical Engineering Services

Project: Sportsmen's Lodge
Location: R4
Date: 6/8/2021

Time	Leq	Lmax
11:46:42 AM	71	73.9
11:46:52 AM	65.6	69.5
11:47:02 AM	65.5	73.4
11:47:12 AM	68.5	73.5
11:47:22 AM	61.7	67.9
11:47:32 AM	70	71.5
11:47:42 AM	70	71.1
11:47:52 AM	71.4	72.3
11:48:02 AM	75	79.2
11:48:12 AM	74.9	81.4
11:48:22 AM	78.2	82.6
11:48:32 AM	68.6	77.1
11:48:42 AM	66.1	69.4
11:48:52 AM	71.6	74.3
11:49:02 AM	75.5	78.8
11:49:12 AM	71.4	76.4
11:49:22 AM	64.8	70.7
11:49:32 AM	72.3	76
11:49:42 AM	71.7	73.8
11:49:52 AM	70.2	73.6
11:50:02 AM	76.4	81.9
11:50:12 AM	73.2	79.3
11:50:22 AM	66.8	70.3
11:50:32 AM	64.7	66.9
11:50:42 AM	68	72.4
11:50:52 AM	65.4	68.3
11:51:02 AM	61.8	63.6
11:51:12 AM	64.9	68.2
11:51:22 AM	64.7	67.6
11:51:32 AM	70.7	74.3
11:51:42 AM	73.1	76.1
11:51:52 AM	82.7	91.3
11:52:02 AM		
11:52:12 AM	70.4	77.9
11:52:22 AM	61.7	67.1
11:52:32 AM	67.5	72.3
11:52:42 AM	64.7	68.6
11:52:52 AM	64.6	67.1
11:53:02 AM	59.3	62.1
11:53:12 AM	64.9	70.1

11:53:22 AM	64.7	69.6
11:53:32 AM	55.5	56.4
11:53:42 AM	68.4	71.7
11:53:52 AM	73.5	75.9
11:54:02 AM	67	71.1
11:54:12 AM	71.1	73.3
11:54:22 AM	67.1	71.1
11:54:32 AM	65.1	67.2
11:54:42 AM	66.8	69.4
11:54:52 AM	66.5	71.7
11:55:02 AM	62	64.6
11:55:12 AM	65.7	72.1
11:55:22 AM	70.3	72.8
11:55:32 AM	62.8	67.8
11:55:42 AM	64.2	68.6
11:55:52 AM	60.2	62.8
11:56:02 AM	69.3	71.6
11:56:12 AM	71.1	73.4
11:56:22 AM	67.9	70.4
11:56:32 AM	68.1	70.4
11:56:42 AM	66	71
11:56:52 AM	59.5	63.6
11:57:02 AM	60.9	68.2
11:57:12 AM	68.6	70.9
11:57:22 AM	66	71.9
11:57:32 AM	67.9	72.6
11:57:42 AM	65.7	68.3
11:57:52 AM	69.3	72.4
11:58:02 AM	61.8	63.4
11:58:12 AM	69.3	72.4
11:58:22 AM	69.2	71
11:58:32 AM	71.3	73.3
11:58:42 AM	72.3	74.6
11:58:52 AM	69.7	75.5
11:59:02 AM	66.4	69.8
11:59:12 AM	68.6	71.8
11:59:22 AM	63.6	66.6
11:59:32 AM	59.2	64.6
11:59:42 AM	60	61.6
11:59:52 AM	57.6	59.1
12:00:02 PM	56.3	57.6
12:00:12 PM	57.8	60.9
12:00:22 PM	69.8	75.2
12:00:32 PM	64	71
12:00:42 PM	68.7	71.5

12:00:52 PM	71.4	73.7
12:01:02 PM	70.5	72.1
12:01:12 PM	71	72.8
12:01:22 PM	67	72.2
12:01:32 PM	60.1	61.6
	70.3	

Time	Leq	Lmax
11:15:55 PM	49.9	54.8
11:16:05 PM	51.4	55.2
11:16:15 PM	51	53.3
11:16:25 PM	58.7	64.3
11:16:35 PM	62.2	65.8
11:16:45 PM	63.1	67
11:16:55 PM	60	66.7
11:17:05 PM	53.4	56
11:17:15 PM	52.3	55
11:17:25 PM	62.4	67.3
11:17:35 PM	57.9	62.7
11:17:45 PM	62.5	65.4
11:17:55 PM	56.8	59
11:18:05 PM	53.8	55.8
11:18:15 PM	53.3	54
11:18:25 PM	55	55.7
11:18:35 PM	58.4	65
11:18:45 PM	59	62.4
11:18:55 PM	58.7	65.2
11:19:05 PM	67.1	71.3
11:19:15 PM	53.4	55
11:19:25 PM	62.7	67.9
11:19:35 PM	66.4	69.9
11:19:45 PM	63.4	65.3
11:19:55 PM	58.2	61.4
11:20:05 PM	55.7	61
11:20:15 PM	57.7	60.2
11:20:25 PM	53.6	55.2
11:20:35 PM	54.5	60.3
11:20:45 PM	64.8	67.4
11:20:55 PM	64.2	67.5
11:21:05 PM	62	65.1
11:21:15 PM	59.1	66.1
11:21:25 PM	64	70.4
11:21:35 PM	55.4	57.6
11:21:45 PM	64.4	68.5
11:21:55 PM	60.8	64

11:22:05 PM	57.4	63.8
11:22:15 PM	60.3	64.5
11:22:25 PM	53.2	55
11:22:35 PM	63.6	67.6
11:22:45 PM	55.8	59.3
11:22:55 PM	56.2	63.5
11:23:05 PM	55.1	59.9
11:23:15 PM	53.3	54.8
11:23:25 PM	53.8	57.1
11:23:35 PM	54.2	57.2
11:23:45 PM	65.1	72
11:23:55 PM	67.2	72
11:24:05 PM	63.6	67.3
11:24:15 PM	66.5	69.1
11:24:25 PM	60.5	66.5
11:24:35 PM	72.8	78
11:24:45 PM	57.5	65.5
11:24:55 PM	62.5	65.6
11:25:05 PM	55	57.8
11:25:15 PM	51.2	52.7
11:25:25 PM	62.4	70
11:25:35 PM	61.4	69.6
11:25:45 PM	62.3	67.6
11:25:55 PM	56.9	63.2
11:26:05 PM	53.2	53.9
11:26:15 PM	56.1	62.8
11:26:25 PM	60.2	65
11:26:35 PM	52.6	59.6
11:26:45 PM	58.2	59.6
11:26:55 PM	62.2	67.4
11:27:05 PM	50.4	52
11:27:15 PM	62.7	67.9
11:27:25 PM	67.8	70.9
11:27:35 PM	58.2	62.3
11:27:45 PM	59.2	64.7
11:27:55 PM	53	55.7
11:28:05 PM	55.6	58.2
11:28:15 PM	53.9	60.1
11:28:25 PM	61.5	66.8
11:28:35 PM	64	69
11:28:45 PM	51	52.2
11:28:55 PM	54.5	56.7
11:29:05 PM	59.8	63.9
11:29:15 PM	55.5	60.3
11:29:25 PM	57.6	61.9

11:29:35 PM	58.4	61.4
11:29:45 PM	60.5	64.6
11:29:55 PM	66	70.2
11:30:05 PM	51.7	54
11:30:15 PM	58	60.9
11:30:25 PM	55.5	57.3
11:30:35 PM	53.2	54.8
11:30:45 PM	51.7	52.2
	61.3	

AES
Acoustical Engineering Services

Project: Sportsmen's Lodge
Location: R5
Date: 6/8/2021

Time	Leq	Lmax
12:09:54 PM	55	62.4
12:10:04 PM	54.2	56.1
12:10:14 PM	53	54.9
12:10:24 PM	53.8	55.5
12:10:34 PM	53.7	57.7
12:10:44 PM	56.6	58
12:10:54 PM	57.2	58.6
12:11:04 PM	63.4	70.5
12:11:14 PM	62.3	68.9
12:11:24 PM	58	61.7
12:11:34 PM	62.1	66.1
12:11:44 PM	53.5	56
12:11:54 PM	53.3	55.2
12:12:04 PM	55.1	58.9
12:12:14 PM	53.9	54.7
12:12:24 PM	52.3	54.5
12:12:34 PM	58	61.2
12:12:44 PM	65.9	71.2
12:12:54 PM	59.3	65.9
12:13:04 PM	54.8	56.5
12:13:14 PM	55	56.4
12:13:24 PM	56	57.5
12:13:34 PM	56.8	60
12:13:44 PM	60.4	63.2
12:13:54 PM	62.7	66.2
12:14:04 PM	62.8	65.2
12:14:14 PM	62.8	64.8
12:14:24 PM	61.1	63
12:14:34 PM	54.9	57.3
12:14:44 PM	59.6	63.5
12:14:54 PM	68.1	75.7
12:15:04 PM	65.1	72.9
12:15:14 PM	57.1	57.7
12:15:24 PM	61.2	62.3
12:15:34 PM	62.8	64.6
12:15:44 PM	63.4	64.2
12:15:54 PM	61.6	63.3
12:16:04 PM	60	60.8
12:16:14 PM	58.6	59.3
12:16:24 PM	59.3	60

12:16:34 PM	62.5	67.3
12:16:44 PM	75.1	78
12:16:54 PM	72	76.9
12:17:04 PM	69	75
12:17:14 PM	63	65.9
12:17:24 PM	66.8	73.6
12:17:34 PM	63.1	65.1
12:17:44 PM	65.9	66.9
12:17:54 PM	71.4	75.6
12:18:04 PM	67.9	72.9
12:18:14 PM	60	63
12:18:24 PM	62.2	66.2
12:18:34 PM	61.3	64.7
12:18:44 PM	64.4	66.6
12:18:54 PM	63.3	67.2
12:19:04 PM	61.7	63.1
12:19:14 PM	61.1	64.2
12:19:24 PM	58.6	60.8
12:19:34 PM	58.3	61.2
12:19:44 PM	57.6	59.8
12:19:54 PM	59.8	63.9
12:20:04 PM	58	61
12:20:14 PM	55.1	56.6
12:20:24 PM	57.1	59.1
12:20:34 PM	59.2	62.6
12:20:44 PM	57.7	59.3
12:20:54 PM	57.1	61
12:21:04 PM	56.4	61.1
12:21:14 PM	54.3	56.5
12:21:24 PM	54.8	57.5
12:21:34 PM	55.9	58.1
12:21:44 PM	57.5	59.8
12:21:54 PM	55	55.7
12:22:04 PM	60.8	64.5
12:22:14 PM	60.5	62.6
12:22:24 PM	63.7	67.4
12:22:34 PM	67.9	71.2
12:22:44 PM	70.4	71.7
12:22:54 PM	68.3	72.7
12:23:04 PM	66.8	72.7
12:23:14 PM	59.6	61.2
12:23:24 PM	57.9	61.3
12:23:34 PM	55.4	58.5
12:23:44 PM	60.4	66
12:23:54 PM	57.7	62.5

12:24:04 PM	56.3	61.5
12:24:14 PM	53.8	54.8
12:24:24 PM	55.9	57.7
12:24:34 PM	55.3	56.5
12:24:44 PM	55	57.5
	63.4	

Time	Leq	Lmax
11:35:49 PM	50.7	52.9
11:35:59 PM	51.7	55.8
11:36:09 PM	52.9	56.3
11:36:19 PM	55.8	58.6
11:36:29 PM	55.2	57.6
11:36:39 PM	48.3	54.8
11:36:49 PM	50.1	54.5
11:36:59 PM	46.2	46.8
11:37:09 PM	45.2	48.3
11:37:19 PM	46.5	51.2
11:37:29 PM	49.9	51.2
11:37:39 PM	44.5	46.8
11:37:49 PM	52.1	57.1
11:37:59 PM	46.1	51.2
11:38:09 PM	45	45.6
11:38:19 PM	50.9	57.8
11:38:29 PM	54.3	58.7
11:38:39 PM	54.6	57
11:38:49 PM	52.5	55.5
11:38:59 PM	54.2	55.7
11:39:09 PM	53.1	55.2
11:39:19 PM	50.1	51.6
11:39:29 PM	45.5	47.5
11:39:39 PM	50.2	52.1
11:39:49 PM	53.3	56.5
11:39:59 PM	48.3	52.2
11:40:09 PM	48.6	52.1
11:40:19 PM	46.8	51.4
11:40:29 PM	49.9	54
11:40:39 PM	44.2	46.3
11:40:49 PM	48.8	52.7
11:40:59 PM	49.1	50.9
11:41:09 PM	57.2	58.9
11:41:19 PM	53.3	55
11:41:29 PM	50.2	53.3
11:41:39 PM	59	62
11:41:49 PM	49.3	56.7

11:41:59 PM	46.2	47.6
11:42:09 PM	52.8	54.7
11:42:19 PM	51.5	54.4
11:42:29 PM	56.3	61.5
11:42:39 PM	59.9	65.5
11:42:49 PM	55.3	58.3
11:42:59 PM	59.4	63.6
11:43:09 PM	53.6	55.8
11:43:19 PM	51.1	55.5
11:43:29 PM	46.3	48.2
11:43:39 PM	48.1	51
11:43:49 PM	46.3	47.7
11:43:59 PM	43.8	45
11:44:09 PM	43.1	43.7
11:44:19 PM	44.7	45.4
11:44:29 PM	48.2	51.5
11:44:39 PM	50.9	55.4
11:44:49 PM	52.7	57.1
11:44:59 PM	47.3	49.3
11:45:09 PM	47.6	48.3
11:45:19 PM	50.2	51.9
11:45:29 PM	51.5	55.3
11:45:39 PM	50.1	52.6
11:45:49 PM	50	53
11:45:59 PM	50.7	51.7
11:46:09 PM	55.6	58.8
11:46:19 PM	54.7	58.4
11:46:29 PM	50.6	53.5
11:46:39 PM	49	53.2
11:46:49 PM	49.7	54
11:46:59 PM	46.5	49.5
11:47:09 PM	53.2	56.5
11:47:19 PM	49.8	51.9
11:47:29 PM	50.6	54.8
11:47:39 PM	49	54.5
11:47:49 PM	50.7	54.9
11:47:59 PM	52.4	55.9
11:48:09 PM	48.2	51.9
11:48:19 PM	51.1	53.9
11:48:29 PM	51.2	54.2
11:48:39 PM	48.5	50.3
11:48:49 PM	52.1	57
11:48:59 PM	51.3	59.1
11:49:09 PM	56.8	61
11:49:19 PM	50.8	54.9

11:49:29 PM	45.8	50
11:49:39 PM	53	56.4
11:49:49 PM	45.5	46.2
11:49:59 PM	45.3	46.8
11:50:09 PM	44.5	46.3
11:50:19 PM	49.8	51
11:50:29 PM	49.3	52
11:50:39 PM	45.1	45.6
	51.9	

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge
Location: R6
Date: 6/8/2021

Time	Leq	Lmax
12:32:20 PM	62	67.2
12:32:30 PM	55.5	56.6
12:32:40 PM	56.1	58.3
12:32:50 PM	56.4	58.8
12:33:00 PM	59.9	61.6
12:33:10 PM	54.9	61.2
12:33:20 PM	49.2	51.1
12:33:30 PM	55.6	58.2
12:33:40 PM	55.1	55.6
12:33:50 PM	55	55.5
12:34:00 PM	54	55
12:34:10 PM	56.5	63.5
12:34:20 PM	56.1	63.2
12:34:30 PM	51.3	53.6
12:34:40 PM	52.5	54.6
12:34:50 PM	53.5	56
12:35:00 PM	55.9	58.1
12:35:10 PM	60	62.8
12:35:20 PM	57.8	60.5
12:35:30 PM	53	54.3
12:35:40 PM	53.3	55.1
12:35:50 PM	55.5	56.5
12:36:00 PM	58.2	59.4
12:36:10 PM	57.5	59.9
12:36:20 PM	51.3	54.8
12:36:30 PM	48.6	50
12:36:40 PM	51.1	55.8
12:36:50 PM	61.5	67.1
12:37:00 PM	60.6	67.5
12:37:10 PM	64.5	72.5
12:37:20 PM	59.4	65.6
12:37:30 PM	56.4	57.6
12:37:40 PM	55.9	58.1
12:37:50 PM	65.4	69.3
12:38:00 PM	56.6	59
12:38:10 PM	57.4	60.8
12:38:20 PM	54.3	56
12:38:30 PM	51.2	53.8
12:38:40 PM	51.7	55.4
12:38:50 PM	56.6	58.5

12:39:00 PM	54.7	58.5
12:39:10 PM	55.9	57.1
12:39:20 PM	57.2	57.5
12:39:30 PM	57.7	59
12:39:40 PM	58.5	61
12:39:50 PM	61.2	65.9
12:40:00 PM	56.1	62.8
12:40:10 PM	57.4	63.1
12:40:20 PM	58.2	59
12:40:30 PM	58.2	59.4
12:40:40 PM	56	58.2
12:40:50 PM	53.6	55.2
12:41:00 PM	54.3	56.2
12:41:10 PM	52.8	55.7
12:41:20 PM	52.4	53.6
12:41:30 PM	53.6	54.5
12:41:40 PM	54.4	55.8
12:41:50 PM	56.2	57.4
12:42:00 PM	60.1	65.2
12:42:10 PM	66.9	69.7
12:42:20 PM		
12:42:30 PM		
12:42:40 PM		
12:42:50 PM	62.5	63.9
12:43:00 PM	56.2	59.8
12:43:10 PM	52	53.7
12:43:20 PM	54.5	56.8
12:43:30 PM	56.1	58
12:43:40 PM	55	57.7
12:43:50 PM	55.1	58.3
12:44:00 PM	55.2	58.5
12:44:10 PM	56.6	59.7
12:44:20 PM	58.9	61.1
12:44:30 PM	67.2	72.3
12:44:40 PM	57	59.7
12:44:50 PM	53.8	56.1
12:45:00 PM	49.8	51.2
12:45:10 PM	50.4	52
12:45:20 PM	52.7	53.7
12:45:30 PM	54.2	57.1
12:45:40 PM	56.6	59.1
12:45:50 PM	54.6	55.4
12:46:00 PM	53.6	57.3
12:46:10 PM	52.5	54.4
12:46:20 PM	53.9	55.6

12:46:30 PM	56.2	57.5
12:46:40 PM	57.2	57.7
12:46:50 PM	57	58
12:47:00 PM	55.5	57.5
12:47:10 PM	58.6	64.3
	57.9	

Time	Leq	Lmax
11:56:12 PM	48.8	50.5
11:56:22 PM	49.6	52.4
11:56:32 PM	42.3	42.9
11:56:42 PM	51.5	55.2
11:56:52 PM	56.8	58.6
11:57:02 PM	52.5	56.8
11:57:12 PM	53.5	56.6
11:57:22 PM	50.3	52.7
11:57:32 PM	47	50.1
11:57:42 PM	46.7	47.5
11:57:52 PM	50.1	55.6
11:58:02 PM	51.5	55.5
11:58:12 PM	42.8	44.9
11:58:22 PM	49.7	54.2
11:58:32 PM	50	54.1
11:58:42 PM	44.4	44.8
11:58:52 PM	44.4	45
11:59:02 PM	46.4	50.8
11:59:12 PM	56.7	58.9
11:59:22 PM	49.9	53.7
11:59:32 PM	45.1	45.9
11:59:42 PM	45.1	46.2
11:59:52 PM	46.6	47.5
12:00:02 AM	50.3	55.5
12:00:12 AM	59.8	64.1
12:00:22 AM	49.5	52.8
12:00:32 AM	45.3	48
12:00:42 AM	55.1	56.7
12:00:52 AM	53.1	56.3
12:01:02 AM	63.9	69.1
12:01:12 AM	48.9	54.7
12:01:22 AM	56.7	62
12:01:32 AM	64.3	66.2
12:01:42 AM	54.2	60.1
12:01:52 AM	46.7	49.4
12:02:02 AM	51.8	56
12:02:12 AM	58	59.6

12:02:22 AM	57	60.2
12:02:32 AM	49.7	53.9
12:02:42 AM	43.7	45
12:02:52 AM	46.1	49.8
12:03:02 AM	53.9	55.9
12:03:12 AM	56.1	59.2
12:03:22 AM	47	49.8
12:03:32 AM	49.1	52.7
12:03:42 AM	56.6	58.5
12:03:52 AM	55.1	57.5
12:04:02 AM	54.1	57.7
12:04:12 AM	47.8	48.4
12:04:22 AM	61.8	67.5
12:04:32 AM	56.6	62.8
12:04:42 AM	47.1	48.2
12:04:52 AM	60.7	65.2
12:05:02 AM	59.5	64.2
12:05:12 AM	50.4	52.5
12:05:22 AM	53.2	54.8
12:05:32 AM	48.2	52.5
12:05:42 AM	47.5	49.6
12:05:52 AM	46	47.8
12:06:02 AM	52.2	54.8
12:06:12 AM	52.5	55.5
12:06:22 AM	54	56.2
12:06:32 AM	47	49.6
12:06:42 AM	44.4	45.3
12:06:52 AM	46	47
12:07:02 AM	47.2	48.6
12:07:12 AM	51.3	53.4
12:07:22 AM	45.8	47.5
12:07:32 AM	48.4	50.2
12:07:42 AM	54.7	57.6
12:07:52 AM	54.1	59.2
12:08:02 AM	57.3	60.2
12:08:12 AM	49	51.7
12:08:22 AM	48.5	50
12:08:32 AM	47	48.2
12:08:42 AM	45.4	46.3
12:08:52 AM	47.6	51.2
12:09:02 AM	50.8	53.1
12:09:12 AM	53.9	56.5
12:09:22 AM	55.3	57.4
12:09:32 AM	49	52.8
12:09:42 AM	45.9	47.9

12:09:52 AM	48.5	51
12:10:02 AM	56.8	59.9
12:10:12 AM	55	58.8
12:10:22 AM	47.6	50
12:10:32 AM	43.8	44.4
12:10:42 AM	43.5	44
12:10:52 AM	45.8	50.3
12:11:02 AM	45.9	47.2
	54.0	

Construction Noise & Vibration Calculations

AES
Acoustical Engineering Services

Project: Sportsmen's Lodge
Construction Noise Calculations - Summary

By Phase Estimated Construction Noise Levels, dBA Leq - WITHOUT MITIGATION

Rec.	Phase 0A: Demolition	Phase 0B: Utility Relocation & Temp Parking Stackers	Phase 1a: Grading	Phase 1a: Foundation	Phase 1a: Structure	Phase 1a: Interior Building	Phase 1b: Structure	Phase 1b: Interior Building	Phase 2: Structure	Phase 2: Interior Building	Phase 3: Demolition	Phase 3: AQMD Cleanup	Phase 3: Grading	Phase 3: Structure	Phase 3: Interior Building	Site: Landscape/Hardscape
1	70.6	78.7	71.3	67.8	69.0	64.2	69.0	64.2	66.7	62.0	78.0	72.6	77.8	76.9	72.9	78.0
2	59.3	76.8	60.1	56.4	57.6	52.9	57.6	52.9	55.6	50.8	76.1	70.6	76.0	75.2	71.2	76.1
3	56.4	58.1	57.3	53.3	54.7	49.9	55.1	50.3	53.6	48.8	58.4	51.1	57.5	58.4	53.0	57.2
4	58.6	54.5	59.4	55.7	57.0	52.2	56.9	52.1	54.3	51.3	54.8	47.2	53.9	54.3	49.5	66.0
5	63.3	55.5	63.8	60.7	61.6	56.8	61.6	56.8	56.8	56.2	54.6	47.0	53.7	54.1	49.3	71.1
6	66.5	59.7	69.7	66.9	67.6	62.9	66.2	61.4	62.5	62.4	60.7	53.1	59.8	60.2	55.4	72.2
7	72.9	75.2	73.4	70.3	71.2	66.4	71.3	66.6	70.5	65.8	75.6	68.9	74.6	74.6	69.9	74.5
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

By Months Estimated Construction Noise Levels, dBA Leq - OVERLAPPING CONSTRUCTION

Rec.	Months 1-4	Months 5-12	Months 13-19	Months 20-24	Months 25-26	Months 27-28:	Months 29-31	Months 32-36	Months 37-40	Months 41-43
1	78.7	71.3	69.0	72.6	71.8	78.8	79.6	78.2	77.3	81.2
2	76.8	60.1	57.6	61.3	60.6	76.2	77.2	75.4	75.2	79.4
3	58.1	57.3	54.7	58.6	58.1	61.0	61.0	61.5	59.4	61.5
4	58.6	59.4	57.0	60.6	59.6	60.2	60.2	61.2	57.5	66.4
5	63.3	63.8	61.6	65.3	63.8	63.4	63.4	64.9	60.7	71.2
6	66.5	69.7	67.6	70.7	68.9	68.5	68.5	70.0	66.2	72.6
7	75.2	73.4	71.2	74.9	74.7	77.8	77.9	77.9	75.7	78.3

Overlapping Construction by Months
- Months 1-4: Phase 0a Demolition of Existing Hotel; Phase 0b Utility Relocation, and Temp Parking-Parking Stackers.
- Months 5-12: Phase 1a Grading/Export/Shoring for Area 1 (Parking Garage Area); Phase 1a Mat Foundation.
- Months 13-19: Phase 1a Garage to Podium Deck Structure.
- Months 20-24: Phase 1a Garage to Podium Deck Structure, Phase 1a Garage to Podium Deck Interior Build, and Phase 1b Structure.
- Months 25-26: Phase 1a Garage to Podium Deck Interior Build, Phase 1b Structure, and Phase 2 Structure.
- Months 27-28: Phase 1b Structure, Phase 2 Structure, Phase 3 Demolition, Relocate Parking Stackers to Garage
- Months 29-31: Phase 1b Structure, Phase 2 Structure, Phase 3 AQMD Cleanup, and Phase 3 Grading/Export/Shoring.
- Months 32-36: Phase 1b Structure, Phase 1b Interior Build, Phase 2 Structure, Phase 2 Interior Build, and Phase 3 Structure.
- Months 37-40: Phase 1b Interior Build, Phase 2 Interior Build, and Phase 3 Structure.
- Months 41-43: Phase 3 Structure, Phase 3 Interior Build, Landscape/Hardscape.

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0A: Demolition Months 1-2***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	370	0
Excavator	1	81	40%	370	0
Tractor/Loader/Backhoes	1	81	40%	395	0
Air Compressor	1	78	40%	395	0
Paving Equipment	1	77	50%	420	0
Water Truck	1	82	10%	420	0
Trenches	1	50	80%	445	0
Rubber-tired Dozers	1	82	40%	445	0
Air Compressor	1	78	40%	470	0
Concrete Saw	1	90	20%	470	0
Excavator	1	81	40%	495	0
Air Compressor	1	78	40%	495	0
Paving Equipment	1	78	40%	520	0
Excavator	1	81	40%	520	0
Air Compressor	1	78	40%	545	0
Air Compressor	1	78	40%	545	0
			40%		
Total # of equipment:	16				

Receptor: ***R1***

Results:

1-hour Leq: 70.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0B: Utility Relocation & Temp Parking Stackers Month 3***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	110	0
Forklifts	1	75	20%	460	10
Concrete Saw	1	90	20%	135	0
Air Compressor	1	78	40%	135	0
Forklifts	1	75	20%	460	10
Air Compressor	1	78	40%	160	0
Forklifts	1	75	20%	460	10
Forklifts	1	75	20%	460	10
Total # of equipment:	8				

Receptor: ***R1***

Results:

1-hour Leq: 78.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Grading***
Months 5-9

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	370	0
Excavator	1	81	40%	370	0
Water Truck	1	82	10%	395	0
Graders	1	85	40%	395	0
Tractor/Loader/Backhoes	1	81	40%	420	0
Welders	1	74	40%	420	0
Signal Boards	1	73	50%	445	0
Scrapers	1	84	40%	445	0
Rubber-tired Dozers	1	82	40%	470	0
Rubber-tired Loaders	1	79	40%	470	0
Bore/Dril Rig	1	84	20%	495	0
Excavator	3	81	40%	495	0
Graders	2	85	40%	520	0
Welders	1	74	40%	520	0
Scrapers	1	84	40%	545	0
Dozers	1	82	40%	545	0
Loaders	1	79	40%	570	0
Total # of equipment:	20				

Receptor: ***R1***

Results:

1-hour Leq: 71.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Foundation Months 9-12***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Graders	1	85	40%	370	0
Dozers	1	82	40%	370	0
Air Compressor	1	78	40%	395	0
Loaders	1	79	40%	395	0
Signal Boards	1	73	50%	420	0
Air Compressor	1	78	40%	420	0
Air Compressor	1	78	40%	445	0
Air Compressor	1	78	40%	445	0
Air Compressor	1	78	40%	470	0
Air Compressor	1	78	40%	470	0
Total # of equipment:	10				

Receptor: ***R1***

Results:

1-hour Leq: 67.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Structure***
Montha 12-21

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	370	0
Mixer	1	79	40%	370	0
Concrete Saw	1	90	20%	395	0
Cranes (tower)	1	81	16%	395	0
Cranes (mobile)	1	81	16%	420	0
Forklifts	1	75	20%	420	0
Plate Compactors	1	83	20%	445	0
Signal Boards	1	73	50%	445	0
Welders	1	74	40%	470	0
Air Compressor	1	78	40%	470	0
Mixer	1	79	40%	495	0
Forklifts	1	75	20%	495	0
Plate Compactors	1	83	20%	520	0
Welders	1	74	40%	520	0
Air Compressor	2	78	40%	545	0
Mixer	1	79	40%	545	0
Forklifts	1	75	20%	570	0
Plate Compactors	1	83	20%	570	0
Total # of equipment:	19				

Receptor: ***R1***

Results:

1-hour Leq: 69.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Interior Building***
Months 21-25

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	370	0
Aerial Lift	1	75	20%	370	0
Cranes (tower)	1	81	16%	395	0
Cranes (mobile)	1	81	16%	395	0
Forklifts	1	75	20%	420	0
Signal Boards	1	73	50%	420	0
Air Compressor	1	78	40%	445	0
Aerial Lift	1	75	20%	445	0
Forklifts	1	75	20%	470	0
Air Compressor	1	78	40%	470	0
Aerial Lift	1	75	20%	495	0
Forklifts	1	75	20%	495	0
Air Compressor	1	78	40%	520	0
Aerial Lift	1	75	20%	520	0
Total # of equipment:	14				

Receptor: ***R1***

Results:

1-hour Leq: 64.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Structure***
Months 20-33

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	370	0
Mixer	1	79	40%	370	0
Concrete Saw	1	90	20%	395	0
Cranes (tower)	1	81	16%	395	0
Cranes (mobile)	1	81	16%	420	0
Forklifts	1	75	20%	420	0
Plate Compactors	1	83	20%	445	0
Signal Boards	1	73	50%	445	0
Welders	1	74	40%	470	0
Air Compressor	1	78	40%	470	0
Mixer	1	79	40%	495	0
Forklifts	1	75	20%	495	0
Plate Compactors	1	83	20%	520	0
Welders	1	74	40%	520	0
Air Compressor	2	78	40%	545	0
Mixer	1	79	40%	545	0
Forklifts	1	75	20%	570	0
Plate Compactors	1	83	20%	570	0
Total # of equipment:	19				

Receptor: ***R1***

Results:

1-hour Leq: 69.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	370	0
Aerial Lift	1	75	20%	370	0
Cranes (tower)	1	81	16%	395	0
Cranes (mobile)	1	81	16%	395	0
Forklifts	1	75	20%	420	0
Signal Boards	1	73	50%	420	0
Air Compressor	1	78	40%	445	0
Aerial Lift	1	75	20%	445	0
Forklifts	1	75	20%	470	0
Air Compressor	1	78	40%	470	0
Aerial Lift	1	75	20%	495	0
Forklifts	1	75	20%	495	0
Air Compressor	1	78	40%	520	0
Aerial Lift	1	75	20%	520	0
Total # of equipment:	14				

Receptor: ***R1***

Results:

1-hour Leq: 64.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Structure***
Months 25-36

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	495	0
Mixer	1	79	40%	495	0
Concrete Saw	1	90	20%	520	0
Cranes (tower)	1	81	16%	520	0
Cranes (mobile)	1	81	16%	545	0
Forklifts	1	75	20%	545	0
Plate Compactors	1	83	20%	570	0
Signal Boards	1	73	50%	570	0
Welders	1	74	40%	595	0
Air Compressor	1	78	40%	595	0
Mixer	1	79	40%	620	0
Forklifts	1	75	20%	620	0
Plate Compactors	1	83	20%	645	0
Welders	1	74	40%	645	0
Air Compressor	2	78	40%	670	0
Mixer	1	79	40%	670	0
Forklifts	1	75	20%	695	0
Plate Compactors	1	83	20%	695	0
Total # of equipment:	19				

Receptor: ***R1***

Results:

1-hour Leq: 66.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Interior Building Months 32-37***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	495	0
Aerial Lift	1	75	20%	495	0
Cranes (tower)	1	81	16%	520	0
Cranes (mobile)	1	81	16%	520	0
Forklifts	1	75	20%	545	0
Signal Boards	1	73	50%	545	0
Air Compressor	1	78	40%	570	0
Aerial Lift	1	75	20%	570	0
Forklifts	1	75	20%	595	0
Air Compressor	1	78	40%	595	0
Aerial Lift	1	75	20%	620	0
Forklifts	1	75	20%	620	0
Air Compressor	1	78	40%	645	0
Aerial Lift	1	75	20%	645	0
Total # of equipment:	14				

Receptor: ***R1***

Results:

1-hour Leq: 62.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Demolition***
Months 27-28

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	110	0
Concrete Saw	1	90	20%	110	0
Excavator	1	81	40%	135	0
Water Truck	1	82	10%	135	0
Loaders	1	79	40%	160	0
Signal Boards	1	73	50%	160	0
Loaders	1	79	40%	185	0
Tractor/Loader/Backhoes	1	81	40%	860	0
Trenches	1	50	80%	815	0
Air Compressor	1	78	40%	815	0
Concrete Saw	1	90	20%	840	0
Total # of equipment:	11				

Receptor: ***R1***

Results:

1-hour Leq: 78.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: AQMD Cleanup Months 30-31***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	110	0
Water Truck	1	82	10%	110	0
Rubber Tired Loaders	1	79	40%	135	0
Total # of equipment:	3				

Receptor: ***R1***

Results:

1-hour Leq: 72.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Grading***
Months 29-31

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	110	0
Excavator	1	81	40%	110	0
Graders	1	85	40%	135	0
Water Truck	1	82	10%	135	0
Dozers	1	82	40%	160	0
Loaders	1	79	40%	160	0
Signal Boards	1	73	50%	185	0
Tractor/Loader/Backhoes	1	81	40%	185	0
Welders	1	74	40%	210	0
Bore/Dril Rig	1	84	20%	210	0
Excavator	1	81	40%	235	0
Total # of equipment:	11				

Receptor: ***R1***

Results:

1-hour Leq: 77.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Structure***
Months 32-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	110	0
Mixer	1	79	40%	110	0
Concrete Saw	1	90	20%	135	0
Cranes (tower)	1	81	16%	135	0
Cranes (mobile)	1	81	16%	160	0
Forklifts	2	75	20%	160	0
Plate Compactors	1	83	20%	185	0
Signal Boards	1	73	50%	900	0
Welders	1	74	40%	770	0
Air Compressor	1	78	40%	770	0
Mixer	1	79	40%	795	0
Forklifts	1	75	20%	795	0
Plate Compactors	1	83	20%	820	0
Welders	1	74	40%	820	0
Air Compressor	1	78	40%	845	0
Mixer	1	79	40%	845	0
Plate Compactors	1	83	20%	870	0
Air Compressor	1	78	40%	870	0
Total # of equipment:	19				

Receptor: ***R1***

Results:

1-hour Leq: **76.9**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Interior Building***
Months 41 - 43

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	110	0
Aerial Lift	1	75	20%	110	0
Cranes (tower)	1	81	16%	135	0
Cranes (mobile)	1	81	16%	135	0
Forklifts	1	75	20%	160	0
Signal Boards	1	73	50%	160	0
Air Compressor	1	78	40%	185	0
Aerial Lift	1	75	20%	185	0
Forklifts	1	75	20%	210	0
Air Compressor	1	78	40%	210	0
Aerial Lift	1	75	20%	235	0
Forklifts	1	75	20%	235	0
Air Compressor	1	78	40%	260	0
Aerial Lift	1	75	20%	260	0
Total # of equipment:	14				

Receptor: ***R1***

Results:

1-hour Leq: 72.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Site: Landscape/Hardscape***
Months 41-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Mixer	1	79	40%	110	0
Concrete Saw	1	90	20%	110	0
Forklifts	1	75	20%	135	0
Water Truck	1	82	10%	135	0
Plate Compactors	1	83	20%	160	0
Rollers	1	80	20%	160	0
Tractor/Loader/Backhoes	1	81	40%	185	0
Signal Boards	1	73	50%	185	0
Loaders	1	79	40%	210	0
Trenches	1	50	80%	210	0
Total # of equipment:	10				

Receptor: ***R1***

Results:

1-hour Leq: 78.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0A: Demolition Months 1-2***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	440	10
Excavator	1	81	40%	440	10
Tractor/Loader/Backhoes	1	81	40%	465	10
Air Compressor	1	78	40%	465	10
Paving Equipment	1	77	50%	490	10
Water Truck	1	82	10%	490	10
Trenches	1	50	80%	515	10
Rubber-tired Dozers	1	82	40%	515	10
Air Compressor	1	78	40%	540	10
Concrete Saw	1	90	20%	540	10
Excavator	1	81	40%	565	10
Air Compressor	1	78	40%	565	10
Paving Equipment	1	78	40%	590	10
Excavator	1	81	40%	590	10
Air Compressor	1	78	40%	615	10
Air Compressor	1	78	40%	615	10
			40%		
Total # of equipment:	16				

Receptor: ***R2***

Results:

1-hour Leq: 59.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0B: Utility Relocation & Temp Parking Stackers Month 3***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	140	0
Forklifts	1	75	20%	460	10
Concrete Saw	1	90	20%	165	0
Air Compressor	1	78	40%	165	0
Forklifts	1	75	20%	460	10
Air Compressor	1	78	40%	190	0
Forklifts	1	75	20%	460	10
Forklifts	1	75	20%	460	10
Total # of equipment:	8				

Receptor: ***R2***

Results:

1-hour Leq: 76.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Grading***
Months 5-9

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	440	10
Excavator	1	81	40%	440	10
Water Truck	1	82	10%	465	10
Graders	1	85	40%	465	10
Tractor/Loader/Backhoes	1	81	40%	490	10
Welders	1	74	40%	490	10
Signal Boards	1	73	50%	515	10
Scrapers	1	84	40%	515	10
Rubber-tired Dozers	1	82	40%	540	10
Rubber-tired Loaders	1	79	40%	540	10
Bore/Dril Rig	1	84	20%	565	10
Excavator	3	81	40%	565	10
Graders	2	85	40%	590	10
Welders	1	74	40%	590	10
Scrapers	1	84	40%	615	10
Dozers	1	82	40%	615	10
Loaders	1	79	40%	640	10
Total # of equipment:	20				

Receptor: ***R2***

Results:

1-hour Leq: **60.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Foundation Months 9-12***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Graders	1	85	40%	440	10
Dozers	1	82	40%	440	10
Air Compressor	1	78	40%	465	10
Loaders	1	79	40%	465	10
Signal Boards	1	73	50%	490	10
Air Compressor	1	78	40%	490	10
Air Compressor	1	78	40%	515	10
Air Compressor	1	78	40%	515	10
Air Compressor	1	78	40%	540	10
Air Compressor	1	78	40%	540	10
Total # of equipment:	10				

Receptor: ***R2***

Results:

1-hour Leq: 56.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Structure***
Montha 12-21

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	440	10
Mixer	1	79	40%	440	10
Concrete Saw	1	90	20%	465	10
Cranes (tower)	1	81	16%	465	10
Cranes (mobile)	1	81	16%	490	10
Forklifts	1	75	20%	490	10
Plate Compactors	1	83	20%	515	10
Signal Boards	1	73	50%	515	10
Welders	1	74	40%	540	10
Air Compressor	1	78	40%	540	10
Mixer	1	79	40%	565	10
Forklifts	1	75	20%	565	10
Plate Compactors	1	83	20%	590	10
Welders	1	74	40%	590	10
Air Compressor	2	78	40%	615	10
Mixer	1	79	40%	615	10
Forklifts	1	75	20%	640	10
Plate Compactors	1	83	20%	640	10
Total # of equipment:	19				

Receptor: ***R2***

Results:

1-hour Leq: **57.6**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Interior Building***
Months 21-25

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	440	10
Aerial Lift	1	75	20%	440	10
Cranes (tower)	1	81	16%	465	10
Cranes (mobile)	1	81	16%	465	10
Forklifts	1	75	20%	490	10
Signal Boards	1	73	50%	490	10
Air Compressor	1	78	40%	515	10
Aerial Lift	1	75	20%	515	10
Forklifts	1	75	20%	540	10
Air Compressor	1	78	40%	540	10
Aerial Lift	1	75	20%	565	10
Forklifts	1	75	20%	565	10
Air Compressor	1	78	40%	590	10
Aerial Lift	1	75	20%	590	10
Total # of equipment:	14				

Receptor: ***R2***

Results:

1-hour Leq: 52.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Structure***
Months 20-33

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	440	10
Mixer	1	79	40%	440	10
Concrete Saw	1	90	20%	465	10
Cranes (tower)	1	81	16%	465	10
Cranes (mobile)	1	81	16%	490	10
Forklifts	1	75	20%	490	10
Plate Compactors	1	83	20%	515	10
Signal Boards	1	73	50%	515	10
Welders	1	74	40%	540	10
Air Compressor	1	78	40%	540	10
Mixer	1	79	40%	565	10
Forklifts	1	75	20%	565	10
Plate Compactors	1	83	20%	590	10
Welders	1	74	40%	590	10
Air Compressor	2	78	40%	615	10
Mixer	1	79	40%	615	10
Forklifts	1	75	20%	640	10
Plate Compactors	1	83	20%	640	10
Total # of equipment:	19				

Receptor: ***R2***

Results:

1-hour Leq: **57.6**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	440	10
Aerial Lift	1	75	20%	440	10
Cranes (tower)	1	81	16%	465	10
Cranes (mobile)	1	81	16%	465	10
Forklifts	1	75	20%	490	10
Signal Boards	1	73	50%	490	10
Air Compressor	1	78	40%	515	10
Aerial Lift	1	75	20%	515	10
Forklifts	1	75	20%	540	10
Air Compressor	1	78	40%	540	10
Aerial Lift	1	75	20%	565	10
Forklifts	1	75	20%	565	10
Air Compressor	1	78	40%	590	10
Aerial Lift	1	75	20%	590	10
Total # of equipment:	14				

Receptor: ***R2***

Results:

1-hour Leq: **52.9**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Structure***
Months 25-36

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	575	10
Mixer	1	79	40%	575	10
Concrete Saw	1	90	20%	600	10
Cranes (tower)	1	81	16%	600	10
Cranes (mobile)	1	81	16%	625	10
Forklifts	1	75	20%	625	10
Plate Compactors	1	83	20%	650	10
Signal Boards	1	73	50%	650	10
Welders	1	74	40%	675	10
Air Compressor	1	78	40%	675	10
Mixer	1	79	40%	700	10
Forklifts	1	75	20%	700	10
Plate Compactors	1	83	20%	725	10
Welders	1	74	40%	725	10
Air Compressor	2	78	40%	750	10
Mixer	1	79	40%	750	10
Forklifts	1	75	20%	775	10
Plate Compactors	1	83	20%	775	10
Total # of equipment:	19				

Receptor: ***R2***

Results:

1-hour Leq: **55.6**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	575	10
Aerial Lift	1	75	20%	575	10
Cranes (tower)	1	81	16%	600	10
Cranes (mobile)	1	81	16%	600	10
Forklifts	1	75	20%	625	10
Signal Boards	1	73	50%	625	10
Air Compressor	1	78	40%	650	10
Aerial Lift	1	75	20%	650	10
Forklifts	1	75	20%	675	10
Air Compressor	1	78	40%	675	10
Aerial Lift	1	75	20%	700	10
Forklifts	1	75	20%	700	10
Air Compressor	1	78	40%	725	10
Aerial Lift	1	75	20%	725	10
Total # of equipment:	14				

Receptor: ***R2***

Results:

1-hour Leq: 50.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Demolition***
Months 27-28

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	140	0
Concrete Saw	1	90	20%	140	0
Excavator	1	81	40%	165	0
Water Truck	1	82	10%	165	0
Loaders	1	79	40%	190	0
Signal Boards	1	73	50%	190	0
Loaders	1	79	40%	215	0
Tractor/Loader/Backhoes	1	81	40%	795	0
Trenches	1	50	80%	805	0
Air Compressor	1	78	40%	805	0
Concrete Saw	1	90	20%	830	0
Total # of equipment:	11				

Receptor: ***R2***

Results:

1-hour Leq: 76.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: AQMD Cleanup Months 30-31***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	140	0
Water Truck	1	82	10%	140	0
Rubber Tired Loaders	1	79	40%	165	0
Total # of equipment:	3				

Receptor: ***R2***

Results:

1-hour Leq: 70.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Grading***
Months 29-31

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	140	0
Excavator	1	81	40%	140	0
Graders	1	85	40%	165	0
Water Truck	1	82	10%	165	0
Dozers	1	82	40%	190	0
Loaders	1	79	40%	190	0
Signal Boards	1	73	50%	215	0
Tractor/Loader/Backhoes	1	81	40%	215	0
Welders	1	74	40%	240	0
Bore/Dril Rig	1	84	20%	240	0
Excavator	1	81	40%	265	0
Total # of equipment:	11				

Receptor: ***R2***

Results:

1-hour Leq: **76.0**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Structure***
Months 32-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	140	0
Mixer	1	79	40%	140	0
Concrete Saw	1	90	20%	165	0
Cranes (tower)	1	81	16%	165	0
Cranes (mobile)	1	81	16%	190	0
Forklifts	2	75	20%	190	0
Plate Compactors	1	83	20%	215	0
Signal Boards	1	73	50%	800	0
Welders	1	74	40%	655	0
Air Compressor	1	78	40%	655	0
Mixer	1	79	40%	680	0
Forklifts	1	75	20%	680	0
Plate Compactors	1	83	20%	705	0
Welders	1	74	40%	705	0
Air Compressor	1	78	40%	730	0
Mixer	1	79	40%	730	0
Plate Compactors	1	83	20%	755	0
Air Compressor	1	78	40%	755	0
Total # of equipment:	19				

Receptor: ***R2***

Results:

1-hour Leq: **75.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Interior Building***
Months 41 - 43

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	140	0
Aerial Lift	1	75	20%	140	0
Cranes (tower)	1	81	16%	165	0
Cranes (mobile)	1	81	16%	165	0
Forklifts	1	75	20%	190	0
Signal Boards	1	73	50%	190	0
Air Compressor	1	78	40%	215	0
Aerial Lift	1	75	20%	215	0
Forklifts	1	75	20%	240	0
Air Compressor	1	78	40%	240	0
Aerial Lift	1	75	20%	265	0
Forklifts	1	75	20%	265	0
Air Compressor	1	78	40%	290	0
Aerial Lift	1	75	20%	290	0
Total # of equipment:	14				

Receptor: ***R2***

Results:

1-hour Leq: 71.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Site: Landscape/Hardscape***
Months 41-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Mixer	1	79	40%	140	0
Concrete Saw	1	90	20%	140	0
Forklifts	1	75	20%	165	0
Water Truck	1	82	10%	165	0
Plate Compactors	1	83	20%	190	0
Rollers	1	80	20%	190	0
Tractor/Loader/Backhoes	1	81	40%	215	0
Signal Boards	1	73	50%	215	0
Loaders	1	79	40%	240	0
Trenches	1	50	80%	240	0
Total # of equipment:	10				

Receptor: ***R2***

Results:

1-hour Leq: 76.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0A: Demolition Months 1-2***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	640	10
Excavator	1	81	40%	640	10
Tractor/Loader/Backhoes	1	81	40%	665	10
Air Compressor	1	78	40%	665	10
Paving Equipment	1	77	50%	690	10
Water Truck	1	82	10%	690	10
Trenches	1	50	80%	715	10
Rubber-tired Dozers	1	82	40%	715	10
Air Compressor	1	78	40%	740	10
Concrete Saw	1	90	20%	740	10
Excavator	1	81	40%	765	10
Air Compressor	1	78	40%	765	10
Paving Equipment	1	78	40%	790	10
Excavator	1	81	40%	790	10
Air Compressor	1	78	40%	815	10
Air Compressor	1	78	40%	815	10
			40%		
Total # of equipment:	16				

Receptor: ***R3***

Results:

1-hour Leq: 56.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0B: Utility Relocation & Temp Parking Stackers Month 3***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	415	10
Forklifts	1	75	20%	460	10
Concrete Saw	1	90	20%	440	10
Air Compressor	1	78	40%	440	10
Forklifts	1	75	20%	460	10
Air Compressor	1	78	40%	465	10
Forklifts	1	75	20%	460	10
Forklifts	1	75	20%	460	10
Total # of equipment:	8				

Receptor: ***R3***

Results:

1-hour Leq: 58.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Grading***
Months 5-9

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	640	10
Excavator	1	81	40%	640	10
Water Truck	1	82	10%	665	10
Graders	1	85	40%	665	10
Tractor/Loader/Backhoes	1	81	40%	690	10
Welders	1	74	40%	690	10
Signal Boards	1	73	50%	715	10
Scrapers	1	84	40%	715	10
Rubber-tired Dozers	1	82	40%	740	10
Rubber-tired Loaders	1	79	40%	740	10
Bore/Dril Rig	1	84	20%	765	10
Excavator	3	81	40%	765	10
Graders	2	85	40%	790	10
Welders	1	74	40%	790	10
Scrapers	1	84	40%	815	10
Dozers	1	82	40%	815	10
Loaders	1	79	40%	840	10
Total # of equipment:	20				

Receptor: ***R3***

Results:

1-hour Leq: **57.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Foundation Months 9-12***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Graders	1	85	40%	640	10
Dozers	1	82	40%	640	10
Air Compressor	1	78	40%	665	10
Loaders	1	79	40%	665	10
Signal Boards	1	73	50%	690	10
Air Compressor	1	78	40%	690	10
Air Compressor	1	78	40%	715	10
Air Compressor	1	78	40%	715	10
Air Compressor	1	78	40%	740	10
Air Compressor	1	78	40%	740	10
Total # of equipment:	10				

Receptor: ***R3***

Results:

1-hour Leq: 53.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Structure***
Montha 12-21

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	640	10
Mixer	1	79	40%	640	10
Concrete Saw	1	90	20%	665	10
Cranes (tower)	1	81	16%	665	10
Cranes (mobile)	1	81	16%	690	10
Forklifts	1	75	20%	690	10
Plate Compactors	1	83	20%	715	10
Signal Boards	1	73	50%	715	10
Welders	1	74	40%	740	10
Air Compressor	1	78	40%	740	10
Mixer	1	79	40%	765	10
Forklifts	1	75	20%	765	10
Plate Compactors	1	83	20%	790	10
Welders	1	74	40%	790	10
Air Compressor	2	78	40%	815	10
Mixer	1	79	40%	815	10
Forklifts	1	75	20%	840	10
Plate Compactors	1	83	20%	840	10
Total # of equipment:	19				

Receptor: ***R3***

Results:

1-hour Leq: **54.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Interior Building***
Months 21-25

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	640	10
Aerial Lift	1	75	20%	640	10
Cranes (tower)	1	81	16%	665	10
Cranes (mobile)	1	81	16%	665	10
Forklifts	1	75	20%	690	10
Signal Boards	1	73	50%	690	10
Air Compressor	1	78	40%	715	10
Aerial Lift	1	75	20%	715	10
Forklifts	1	75	20%	740	10
Air Compressor	1	78	40%	740	10
Aerial Lift	1	75	20%	765	10
Forklifts	1	75	20%	765	10
Air Compressor	1	78	40%	790	10
Aerial Lift	1	75	20%	790	10
Total # of equipment:	14				

Receptor: ***R3***

Results:

1-hour Leq: 49.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Structure***
Months 20-33

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	610	10
Mixer	1	79	40%	610	10
Concrete Saw	1	90	20%	635	10
Cranes (tower)	1	81	16%	635	10
Cranes (mobile)	1	81	16%	660	10
Forklifts	1	75	20%	660	10
Plate Compactors	1	83	20%	685	10
Signal Boards	1	73	50%	685	10
Welders	1	74	40%	710	10
Air Compressor	1	78	40%	710	10
Mixer	1	79	40%	735	10
Forklifts	1	75	20%	735	10
Plate Compactors	1	83	20%	760	10
Welders	1	74	40%	760	10
Air Compressor	2	78	40%	785	10
Mixer	1	79	40%	785	10
Forklifts	1	75	20%	810	10
Plate Compactors	1	83	20%	810	10
Total # of equipment:	19				

Receptor: ***R3***

Results:

1-hour Leq: **55.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	610	10
Aerial Lift	1	75	20%	610	10
Cranes (tower)	1	81	16%	635	10
Cranes (mobile)	1	81	16%	635	10
Forklifts	1	75	20%	660	10
Signal Boards	1	73	50%	660	10
Air Compressor	1	78	40%	685	10
Aerial Lift	1	75	20%	685	10
Forklifts	1	75	20%	710	10
Air Compressor	1	78	40%	710	10
Aerial Lift	1	75	20%	735	10
Forklifts	1	75	20%	735	10
Air Compressor	1	78	40%	760	10
Aerial Lift	1	75	20%	760	10
Total # of equipment:	14				

Receptor: ***R3***

Results:

1-hour Leq: 50.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Structure***
Months 25-36

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	740	10
Mixer	1	79	40%	740	10
Concrete Saw	1	90	20%	765	10
Cranes (tower)	1	81	16%	765	10
Cranes (mobile)	1	81	16%	790	10
Forklifts	1	75	20%	790	10
Plate Compactors	1	83	20%	815	10
Signal Boards	1	73	50%	815	10
Welders	1	74	40%	840	10
Air Compressor	1	78	40%	840	10
Mixer	1	79	40%	865	10
Forklifts	1	75	20%	865	10
Plate Compactors	1	83	20%	890	10
Welders	1	74	40%	890	10
Air Compressor	2	78	40%	915	10
Mixer	1	79	40%	915	10
Forklifts	1	75	20%	940	10
Plate Compactors	1	83	20%	940	10
Total # of equipment:	19				

Receptor: ***R3***

Results:

1-hour Leq: 53.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	740	10
Aerial Lift	1	75	20%	740	10
Cranes (tower)	1	81	16%	765	10
Cranes (mobile)	1	81	16%	765	10
Forklifts	1	75	20%	790	10
Signal Boards	1	73	50%	790	10
Air Compressor	1	78	40%	815	10
Aerial Lift	1	75	20%	815	10
Forklifts	1	75	20%	840	10
Air Compressor	1	78	40%	840	10
Aerial Lift	1	75	20%	865	10
Forklifts	1	75	20%	865	10
Air Compressor	1	78	40%	890	10
Aerial Lift	1	75	20%	890	10
Total # of equipment:	14				

Receptor: ***R3***

Results:

1-hour Leq: 48.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Demolition***
Months 27-28

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	430	10
Concrete Saw	1	90	20%	430	10
Excavator	1	81	40%	455	10
Water Truck	1	82	10%	455	10
Loaders	1	79	40%	480	10
Signal Boards	1	73	50%	480	10
Loaders	1	79	40%	505	10
Tractor/Loader/Backhoes	1	81	40%	505	10
Trenches	1	50	80%	530	10
Air Compressor	1	78	40%	530	10
Concrete Saw	1	90	20%	555	10
Total # of equipment:	11				

Receptor: ***R3***

Results:

1-hour Leq: 58.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: AQMD Cleanup Months 30-31***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	430	10
Water Truck	1	82	10%	430	10
Rubber Tired Loaders	1	79	40%	455	10
Total # of equipment:	3				

Receptor: ***R3***

Results:

1-hour Leq: 51.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Grading***
Months 29-31

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	430	10
Excavator	1	81	40%	430	10
Graders	1	85	40%	455	10
Water Truck	1	82	10%	455	10
Dozers	1	82	40%	480	10
Loaders	1	79	40%	480	10
Signal Boards	1	73	50%	505	10
Tractor/Loader/Backhoes	1	81	40%	505	10
Welders	1	74	40%	530	10
Bore/Dril Rig	1	84	20%	530	10
Excavator	1	81	40%	555	10
Total # of equipment:	11				

Receptor: ***R3***

Results:

1-hour Leq: **57.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Structure***
Months 32-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	430	10
Mixer	1	79	40%	430	10
Concrete Saw	1	90	20%	455	10
Cranes (tower)	1	81	16%	455	10
Cranes (mobile)	1	81	16%	480	10
Forklifts	2	75	20%	480	10
Plate Compactors	1	83	20%	505	10
Signal Boards	1	73	50%	570	10
Welders	1	74	40%	425	10
Air Compressor	1	78	40%	425	10
Mixer	1	79	40%	450	10
Forklifts	1	75	20%	450	10
Plate Compactors	1	83	20%	475	10
Welders	1	74	40%	475	10
Air Compressor	1	78	40%	500	10
Mixer	1	79	40%	500	10
Plate Compactors	1	83	20%	525	10
Air Compressor	1	78	40%	525	10
Total # of equipment:	19				

Receptor: ***R3***

Results:

1-hour Leq: **58.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Interior Building***
Months 41 - 43

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	430	10
Aerial Lift	1	75	20%	430	10
Cranes (tower)	1	81	16%	455	10
Cranes (mobile)	1	81	16%	455	10
Forklifts	1	75	20%	480	10
Signal Boards	1	73	50%	480	10
Air Compressor	1	78	40%	505	10
Aerial Lift	1	75	20%	505	10
Forklifts	1	75	20%	530	10
Air Compressor	1	78	40%	530	10
Aerial Lift	1	75	20%	555	10
Forklifts	1	75	20%	555	10
Air Compressor	1	78	40%	580	10
Aerial Lift	1	75	20%	580	10
Total # of equipment:	14				

Receptor: ***R3***

Results:

1-hour Leq: **53.0**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Site: Landscape/Hardscape***
Months 41-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Mixer	1	79	40%	415	10
Concrete Saw	1	90	20%	415	10
Forklifts	1	75	20%	440	10
Water Truck	1	82	10%	440	10
Plate Compactors	1	83	20%	465	10
Rollers	1	80	20%	465	10
Tractor/Loader/Backhoes	1	81	40%	490	10
Signal Boards	1	73	50%	490	10
Loaders	1	79	40%	515	10
Trenches	1	50	80%	515	10
Total # of equipment:	10				

Receptor: ***R3***

Results:

1-hour Leq: 57.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0A: Demolition Months 1-2***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	480	10
Excavator	1	81	40%	480	10
Tractor/Loader/Backhoes	1	81	40%	505	10
Air Compressor	1	78	40%	505	10
Paving Equipment	1	77	50%	530	10
Water Truck	1	82	10%	530	10
Trenches	1	50	80%	555	10
Rubber-tired Dozers	1	82	40%	555	10
Air Compressor	1	78	40%	580	10
Concrete Saw	1	90	20%	580	10
Excavator	1	81	40%	605	10
Air Compressor	1	78	40%	605	10
Paving Equipment	1	78	40%	630	10
Excavator	1	81	40%	630	10
Air Compressor	1	78	40%	655	10
Air Compressor	1	78	40%	655	10
			40%		
Total # of equipment:	16				

Receptor: ***R4***

Results:

1-hour Leq: 58.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0B: Utility Relocation & Temp Parking Stackers Month 3***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	655	10
Forklifts	1	75	20%	460	10
Concrete Saw	1	90	20%	680	10
Air Compressor	1	78	40%	680	10
Forklifts	1	75	20%	460	10
Air Compressor	1	78	40%	705	10
Forklifts	1	75	20%	460	10
Forklifts	1	75	20%	460	10
Total # of equipment:	8				

Receptor: ***R4***

Results:

1-hour Leq: **54.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Grading***
Months 5-9

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	480	10
Excavator	1	81	40%	480	10
Water Truck	1	82	10%	505	10
Graders	1	85	40%	505	10
Tractor/Loader/Backhoes	1	81	40%	530	10
Welders	1	74	40%	530	10
Signal Boards	1	73	50%	555	10
Scrapers	1	84	40%	555	10
Rubber-tired Dozers	1	82	40%	580	10
Rubber-tired Loaders	1	79	40%	580	10
Bore/Dril Rig	1	84	20%	605	10
Excavator	3	81	40%	605	10
Graders	2	85	40%	630	10
Welders	1	74	40%	630	10
Scrapers	1	84	40%	655	10
Dozers	1	82	40%	655	10
Loaders	1	79	40%	680	10
Total # of equipment:	20				

Receptor: ***R4***

Results:

1-hour Leq: **59.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Foundation Months 9-12***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Graders	1	85	40%	480	10
Dozers	1	82	40%	480	10
Air Compressor	1	78	40%	505	10
Loaders	1	79	40%	505	10
Signal Boards	1	73	50%	530	10
Air Compressor	1	78	40%	530	10
Air Compressor	1	78	40%	555	10
Air Compressor	1	78	40%	555	10
Air Compressor	1	78	40%	580	10
Air Compressor	1	78	40%	580	10
Total # of equipment:	10				

Receptor: ***R4***

Results:

1-hour Leq: 55.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Structure***
Montha 12-21

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	480	10
Mixer	1	79	40%	480	10
Concrete Saw	1	90	20%	505	10
Cranes (tower)	1	81	16%	505	10
Cranes (mobile)	1	81	16%	530	10
Forklifts	1	75	20%	530	10
Plate Compactors	1	83	20%	555	10
Signal Boards	1	73	50%	555	10
Welders	1	74	40%	580	10
Air Compressor	1	78	40%	580	10
Mixer	1	79	40%	605	10
Forklifts	1	75	20%	605	10
Plate Compactors	1	83	20%	630	10
Welders	1	74	40%	630	10
Air Compressor	2	78	40%	655	10
Mixer	1	79	40%	655	10
Forklifts	1	75	20%	680	10
Plate Compactors	1	83	20%	680	10
Total # of equipment:	19				

Receptor: ***R4***

Results:

1-hour Leq: 57.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Interior Building***
Months 21-25

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	480	10
Aerial Lift	1	75	20%	480	10
Cranes (tower)	1	81	16%	505	10
Cranes (mobile)	1	81	16%	505	10
Forklifts	1	75	20%	530	10
Signal Boards	1	73	50%	530	10
Air Compressor	1	78	40%	555	10
Aerial Lift	1	75	20%	555	10
Forklifts	1	75	20%	580	10
Air Compressor	1	78	40%	580	10
Aerial Lift	1	75	20%	605	10
Forklifts	1	75	20%	605	10
Air Compressor	1	78	40%	630	10
Aerial Lift	1	75	20%	630	10
Total # of equipment:	14				

Receptor: ***R4***

Results:

1-hour Leq: **52.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Structure***
Months 20-33

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	485	10
Mixer	1	79	40%	485	10
Concrete Saw	1	90	20%	510	10
Cranes (tower)	1	81	16%	510	10
Cranes (mobile)	1	81	16%	535	10
Forklifts	1	75	20%	535	10
Plate Compactors	1	83	20%	560	10
Signal Boards	1	73	50%	560	10
Welders	1	74	40%	585	10
Air Compressor	1	78	40%	585	10
Mixer	1	79	40%	610	10
Forklifts	1	75	20%	610	10
Plate Compactors	1	83	20%	635	10
Welders	1	74	40%	635	10
Air Compressor	2	78	40%	660	10
Mixer	1	79	40%	660	10
Forklifts	1	75	20%	685	10
Plate Compactors	1	83	20%	685	10
Total # of equipment:	19				

Receptor: ***R4***

Results:

1-hour Leq: 56.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	485	10
Aerial Lift	1	75	20%	485	10
Cranes (tower)	1	81	16%	510	10
Cranes (mobile)	1	81	16%	510	10
Forklifts	1	75	20%	535	10
Signal Boards	1	73	50%	535	10
Air Compressor	1	78	40%	560	10
Aerial Lift	1	75	20%	560	10
Forklifts	1	75	20%	585	10
Air Compressor	1	78	40%	585	10
Aerial Lift	1	75	20%	610	10
Forklifts	1	75	20%	610	10
Air Compressor	1	78	40%	635	10
Aerial Lift	1	75	20%	635	10
Total # of equipment:	14				

Receptor: ***R4***

Results:

1-hour Leq: 52.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Structure***
Months 25-36

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	680	10
Mixer	1	79	40%	680	10
Concrete Saw	1	90	20%	705	10
Cranes (tower)	1	81	16%	705	10
Cranes (mobile)	1	81	16%	730	10
Forklifts	1	75	20%	730	10
Plate Compactors	1	83	20%	755	10
Signal Boards	1	73	50%	755	10
Welders	1	74	40%	780	10
Air Compressor	1	78	40%	780	10
Mixer	1	79	40%	805	10
Forklifts	1	75	20%	805	10
Plate Compactors	1	83	20%	830	10
Welders	1	74	40%	830	10
Air Compressor	2	78	40%	855	10
Mixer	1	79	40%	855	10
Forklifts	1	75	20%	880	10
Plate Compactors	1	83	20%	880	10
Total # of equipment:	19				

Receptor: ***R4***

Results:

1-hour Leq: 54.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	680	10
Aerial Lift	1	75	20%	680	10
Cranes (tower)	1	81	16%	705	10
Cranes (mobile)	1	81	16%	705	10
Forklifts	1	75	20%	730	10
Signal Boards	1	73	50%	730	10
Air Compressor	1	78	40%	755	10
Aerial Lift	1	75	20%	500	10
Forklifts	1	75	20%	485	10
Air Compressor	1	78	40%	485	10
Aerial Lift	1	75	20%	510	10
Forklifts	1	75	20%	510	10
Air Compressor	1	78	40%	535	10
Aerial Lift	1	75	20%	535	10
Total # of equipment:	14				

Receptor: ***R4***

Results:

1-hour Leq: **51.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Demolition***
Months 27-28

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	675	10
Concrete Saw	1	90	20%	675	10
Excavator	1	81	40%	700	10
Water Truck	1	82	10%	700	10
Loaders	1	79	40%	725	10
Signal Boards	1	73	50%	725	10
Loaders	1	79	40%	750	10
Tractor/Loader/Backhoes	1	81	40%	750	10
Trenches	1	50	80%	775	10
Air Compressor	1	78	40%	775	10
Concrete Saw	1	90	20%	800	10
Total # of equipment:	11				

Receptor: ***R4***

Results:

1-hour Leq: **54.8**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: AQMD Cleanup Months 30-31***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	675	10
Water Truck	1	82	10%	675	10
Rubber Tired Loaders	1	79	40%	700	10
Total # of equipment:	3				

Receptor: ***R4***

Results:

1-hour Leq: 47.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Grading***
Months 29-31

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	675	10
Excavator	1	81	40%	675	10
Graders	1	85	40%	700	10
Water Truck	1	82	10%	700	10
Dozers	1	82	40%	725	10
Loaders	1	79	40%	725	10
Signal Boards	1	73	50%	750	10
Tractor/Loader/Backhoes	1	81	40%	750	10
Welders	1	74	40%	775	10
Bore/Dril Rig	1	84	20%	775	10
Excavator	1	81	40%	800	10
Total # of equipment:	11				

Receptor: ***R4***

Results:

1-hour Leq: **53.9**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Structure***
Months 32-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	675	10
Mixer	1	79	40%	675	10
Concrete Saw	1	90	20%	700	10
Cranes (tower)	1	81	16%	700	10
Cranes (mobile)	1	81	16%	725	10
Forklifts	2	75	20%	725	10
Plate Compactors	1	83	20%	750	10
Signal Boards	1	73	50%	750	10
Welders	1	74	40%	775	10
Air Compressor	1	78	40%	775	10
Mixer	1	79	40%	800	10
Forklifts	1	75	20%	800	10
Plate Compactors	1	83	20%	825	10
Welders	1	74	40%	825	10
Air Compressor	1	78	40%	850	10
Mixer	1	79	40%	850	10
Plate Compactors	1	83	20%	875	10
Air Compressor	1	78	40%	875	10
Total # of equipment:	19				

Receptor: ***R4***

Results:

1-hour Leq: 54.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Interior Building***
Months 41 - 43

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	675	10
Aerial Lift	1	75	20%	675	10
Cranes (tower)	1	81	16%	700	10
Cranes (mobile)	1	81	16%	700	10
Forklifts	1	75	20%	725	10
Signal Boards	1	73	50%	725	10
Air Compressor	1	78	40%	750	10
Aerial Lift	1	75	20%	750	10
Forklifts	1	75	20%	775	10
Air Compressor	1	78	40%	775	10
Aerial Lift	1	75	20%	800	10
Forklifts	1	75	20%	800	10
Air Compressor	1	78	40%	825	10
Aerial Lift	1	75	20%	825	10
Total # of equipment:	14				

Receptor: ***R4***

Results:

1-hour Leq: 49.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Site: Landscape/Hardscape***
Months 41-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Mixer	1	79	40%	480	0
Concrete Saw	1	90	20%	480	0
Forklifts	1	75	20%	505	0
Water Truck	1	82	10%	505	0
Plate Compactors	1	83	20%	530	0
Rollers	1	80	20%	530	0
Tractor/Loader/Backhoes	1	81	40%	555	0
Signal Boards	1	73	50%	555	0
Loaders	1	79	40%	580	0
Trenches	1	50	80%	580	0
Total # of equipment:	10				

Receptor: ***R4***

Results:

1-hour Leq: 66.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0A: Demolition Months 1-2***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	260	10
Excavator	1	81	40%	260	10
Tractor/Loader/Backhoes	1	81	40%	285	10
Air Compressor	1	78	40%	285	10
Paving Equipment	1	77	50%	310	10
Water Truck	1	82	10%	310	10
Trenches	1	50	80%	335	10
Rubber-tired Dozers	1	82	40%	335	10
Air Compressor	1	78	40%	360	10
Concrete Saw	1	90	20%	360	10
Excavator	1	81	40%	385	10
Air Compressor	1	78	40%	385	10
Paving Equipment	1	78	40%	410	10
Excavator	1	81	40%	410	10
Air Compressor	1	78	40%	435	10
Air Compressor	1	78	40%	435	10
			40%		
Total # of equipment:	16				

Receptor: ***R5***

Results:

1-hour Leq: 63.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0B: Utility Relocation & Temp Parking Stackers Month 3***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	575	10
Forklifts	1	75	20%	460	10
Concrete Saw	1	90	20%	600	10
Air Compressor	1	78	40%	600	10
Forklifts	1	75	20%	460	10
Air Compressor	1	78	40%	625	10
Forklifts	1	75	20%	460	10
Forklifts	1	75	20%	460	10
Total # of equipment:	8				

Receptor: ***R5***

Results:

1-hour Leq: **55.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Grading***
Months 5-9

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	260	10
Excavator	1	81	40%	260	10
Water Truck	1	82	10%	285	10
Graders	1	85	40%	285	10
Tractor/Loader/Backhoes	1	81	40%	310	10
Welders	1	74	40%	310	10
Signal Boards	1	73	50%	335	10
Scrapers	1	84	40%	335	10
Rubber-tired Dozers	1	82	40%	360	10
Rubber-tired Loaders	1	79	40%	360	10
Bore/Dril Rig	1	84	20%	385	10
Excavator	3	81	40%	385	10
Graders	2	85	40%	410	10
Welders	1	74	40%	410	10
Scrapers	1	84	40%	435	10
Dozers	1	82	40%	435	10
Loaders	1	79	40%	460	10
Total # of equipment:	20				

Receptor: ***R5***

Results:

1-hour Leq: 63.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Foundation Months 9-12***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Graders	1	85	40%	260	10
Dozers	1	82	40%	260	10
Air Compressor	1	78	40%	285	10
Loaders	1	79	40%	285	10
Signal Boards	1	73	50%	310	10
Air Compressor	1	78	40%	310	10
Air Compressor	1	78	40%	335	10
Air Compressor	1	78	40%	335	10
Air Compressor	1	78	40%	360	10
Air Compressor	1	78	40%	360	10
Total # of equipment:	10				

Receptor: ***R5***

Results:

1-hour Leq: 60.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Structure***
Montha 12-21

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	260	10
Mixer	1	79	40%	260	10
Concrete Saw	1	90	20%	285	10
Cranes (tower)	1	81	16%	285	10
Cranes (mobile)	1	81	16%	310	10
Forklifts	1	75	20%	310	10
Plate Compactors	1	83	20%	335	10
Signal Boards	1	73	50%	335	10
Welders	1	74	40%	360	10
Air Compressor	1	78	40%	360	10
Mixer	1	79	40%	385	10
Forklifts	1	75	20%	385	10
Plate Compactors	1	83	20%	410	10
Welders	1	74	40%	410	10
Air Compressor	2	78	40%	435	10
Mixer	1	79	40%	435	10
Forklifts	1	75	20%	460	10
Plate Compactors	1	83	20%	460	10
Total # of equipment:	19				

Receptor: ***R5***

Results:

1-hour Leq: 61.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Interior Building***
Months 21-25

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	260	10
Aerial Lift	1	75	20%	260	10
Cranes (tower)	1	81	16%	285	10
Cranes (mobile)	1	81	16%	285	10
Forklifts	1	75	20%	310	10
Signal Boards	1	73	50%	310	10
Air Compressor	1	78	40%	335	10
Aerial Lift	1	75	20%	335	10
Forklifts	1	75	20%	360	10
Air Compressor	1	78	40%	360	10
Aerial Lift	1	75	20%	385	10
Forklifts	1	75	20%	385	10
Air Compressor	1	78	40%	410	10
Aerial Lift	1	75	20%	410	10
Total # of equipment:	14				

Receptor: ***R5***

Results:

1-hour Leq: 56.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Structure***
Months 20-33

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	260	10
Mixer	1	79	40%	260	10
Concrete Saw	1	90	20%	285	10
Cranes (tower)	1	81	16%	285	10
Cranes (mobile)	1	81	16%	310	10
Forklifts	1	75	20%	310	10
Plate Compactors	1	83	20%	335	10
Signal Boards	1	73	50%	335	10
Welders	1	74	40%	360	10
Air Compressor	1	78	40%	360	10
Mixer	1	79	40%	385	10
Forklifts	1	75	20%	385	10
Plate Compactors	1	83	20%	410	10
Welders	1	74	40%	410	10
Air Compressor	2	78	40%	435	10
Mixer	1	79	40%	435	10
Forklifts	1	75	20%	460	10
Plate Compactors	1	83	20%	460	10
Total # of equipment:	19				

Receptor: ***R5***

Results:

1-hour Leq: 61.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	260	10
Aerial Lift	1	75	20%	260	10
Cranes (tower)	1	81	16%	285	10
Cranes (mobile)	1	81	16%	285	10
Forklifts	1	75	20%	310	10
Signal Boards	1	73	50%	310	10
Air Compressor	1	78	40%	335	10
Aerial Lift	1	75	20%	335	10
Forklifts	1	75	20%	360	10
Air Compressor	1	78	40%	360	10
Aerial Lift	1	75	20%	385	10
Forklifts	1	75	20%	385	10
Air Compressor	1	78	40%	410	10
Aerial Lift	1	75	20%	410	10
Total # of equipment:	14				

Receptor: ***R5***

Results:

1-hour Leq: 56.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Structure***
Months 25-36

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	490	10
Mixer	1	79	40%	490	10
Concrete Saw	1	90	20%	515	10
Cranes (tower)	1	81	16%	515	10
Cranes (mobile)	1	81	16%	540	10
Forklifts	1	75	20%	540	10
Plate Compactors	1	83	20%	565	10
Signal Boards	1	73	50%	565	10
Welders	1	74	40%	590	10
Air Compressor	1	78	40%	590	10
Mixer	1	79	40%	615	10
Forklifts	1	75	20%	615	10
Plate Compactors	1	83	20%	640	10
Welders	1	74	40%	640	10
Air Compressor	2	78	40%	665	10
Mixer	1	79	40%	665	10
Forklifts	1	75	20%	690	10
Plate Compactors	1	83	20%	690	10
Total # of equipment:	19				

Receptor: ***R5***

Results:

1-hour Leq: **56.8**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	490	10
Aerial Lift	1	75	20%	490	10
Cranes (tower)	1	81	16%	515	10
Cranes (mobile)	1	81	16%	515	10
Forklifts	1	75	20%	540	10
Signal Boards	1	73	50%	540	10
Air Compressor	1	78	40%	565	10
Aerial Lift	1	75	20%	535	10
Forklifts	1	75	20%	225	10
Air Compressor	1	78	40%	225	10
Aerial Lift	1	75	20%	250	10
Forklifts	1	75	20%	250	10
Air Compressor	1	78	40%	275	10
Aerial Lift	1	75	20%	275	10
Total # of equipment:	14				

Receptor: ***R5***

Results:

1-hour Leq: 56.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Demolition***
Months 27-28

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	690	10
Concrete Saw	1	90	20%	690	10
Excavator	1	81	40%	715	10
Water Truck	1	82	10%	715	10
Loaders	1	79	40%	740	10
Signal Boards	1	73	50%	740	10
Loaders	1	79	40%	765	10
Tractor/Loader/Backhoes	1	81	40%	765	10
Trenches	1	50	80%	790	10
Air Compressor	1	78	40%	790	10
Concrete Saw	1	90	20%	815	10
Total # of equipment:	11				

Receptor: ***R5***

Results:

1-hour Leq: **54.6**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: AQMD Cleanup Months 30-31***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	690	10
Water Truck	1	82	10%	690	10
Rubber Tired Loaders	1	79	40%	715	10
Total # of equipment:	3				

Receptor: ***R5***

Results:

1-hour Leq: 47.0

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Grading***
Months 29-31

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	690	10
Excavator	1	81	40%	690	10
Graders	1	85	40%	715	10
Water Truck	1	82	10%	715	10
Dozers	1	82	40%	740	10
Loaders	1	79	40%	740	10
Signal Boards	1	73	50%	765	10
Tractor/Loader/Backhoes	1	81	40%	765	10
Welders	1	74	40%	790	10
Bore/Dril Rig	1	84	20%	790	10
Excavator	1	81	40%	815	10
Total # of equipment:	11				

Receptor: ***R5***

Results:

1-hour Leq: 53.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Structure***
Months 32-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	690	10
Mixer	1	79	40%	690	10
Concrete Saw	1	90	20%	715	10
Cranes (tower)	1	81	16%	715	10
Cranes (mobile)	1	81	16%	740	10
Forklifts	2	75	20%	740	10
Plate Compactors	1	83	20%	765	10
Signal Boards	1	73	50%	765	10
Welders	1	74	40%	790	10
Air Compressor	1	78	40%	790	10
Mixer	1	79	40%	815	10
Forklifts	1	75	20%	815	10
Plate Compactors	1	83	20%	840	10
Welders	1	74	40%	840	10
Air Compressor	1	78	40%	865	10
Mixer	1	79	40%	865	10
Plate Compactors	1	83	20%	890	10
Air Compressor	1	78	40%	890	10
Total # of equipment:	19				

Receptor: ***R5***

Results:

1-hour Leq: **54.1**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Interior Building***
Months 41 - 43

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	690	10
Aerial Lift	1	75	20%	690	10
Cranes (tower)	1	81	16%	715	10
Cranes (mobile)	1	81	16%	715	10
Forklifts	1	75	20%	740	10
Signal Boards	1	73	50%	740	10
Air Compressor	1	78	40%	765	10
Aerial Lift	1	75	20%	765	10
Forklifts	1	75	20%	790	10
Air Compressor	1	78	40%	790	10
Aerial Lift	1	75	20%	815	10
Forklifts	1	75	20%	815	10
Air Compressor	1	78	40%	840	10
Aerial Lift	1	75	20%	840	10
Total # of equipment:	14				

Receptor: ***R5***

Results:

1-hour Leq: **49.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Site: Landscape/Hardscape***
Months 41-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Mixer	1	79	40%	260	0
Concrete Saw	1	90	20%	260	0
Forklifts	1	75	20%	285	0
Water Truck	1	82	10%	285	0
Plate Compactors	1	83	20%	310	0
Rollers	1	80	20%	310	0
Tractor/Loader/Backhoes	1	81	40%	335	0
Signal Boards	1	73	50%	335	0
Loaders	1	79	40%	360	0
Trenches	1	50	80%	360	0
Total # of equipment:	10				

Receptor: ***R5***

Results:

1-hour Leq: 71.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0A: Demolition Months 1-2***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	330	5
Excavator	1	81	40%	330	5
Tractor/Loader/Backhoes	1	81	40%	355	5
Air Compressor	1	78	40%	355	5
Paving Equipment	1	77	50%	380	5
Water Truck	1	82	10%	380	5
Trenches	1	50	80%	405	5
Rubber-tired Dozers	1	82	40%	405	5
Air Compressor	1	78	40%	430	5
Concrete Saw	1	90	20%	430	5
Excavator	1	81	40%	455	5
Air Compressor	1	78	40%	455	5
Paving Equipment	1	78	40%	480	5
Excavator	1	81	40%	480	5
Air Compressor	1	78	40%	505	5
Air Compressor	1	78	40%	505	5
			40%		
Total # of equipment:	16				

Receptor: ***R6***

Results:

1-hour Leq: 66.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0B: Utility Relocation & Temp Parking Stackers Month 3***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	610	5
Forklifts	1	75	20%	460	10
Concrete Saw	1	90	20%	635	5
Air Compressor	1	78	40%	635	5
Forklifts	1	75	20%	460	10
Air Compressor	1	78	40%	660	5
Forklifts	1	75	20%	460	10
Forklifts	1	75	20%	460	10
Total # of equipment:	8				

Receptor: ***R6***

Results:

1-hour Leq: 59.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Grading***
Months 5-9

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	225	5
Excavator	1	81	40%	225	5
Water Truck	1	82	10%	250	5
Graders	1	85	40%	250	5
Tractor/Loader/Backhoes	1	81	40%	275	5
Welders	1	74	40%	275	5
Signal Boards	1	73	50%	300	5
Scrapers	1	84	40%	300	5
Rubber-tired Dozers	1	82	40%	325	5
Rubber-tired Loaders	1	79	40%	325	5
Bore/Dril Rig	1	84	20%	350	5
Excavator	3	81	40%	350	5
Graders	2	85	40%	375	5
Welders	1	74	40%	375	5
Scrapers	1	84	40%	400	5
Dozers	1	82	40%	400	5
Loaders	1	79	40%	425	5
Total # of equipment:	20				

Receptor: ***R6***

Results:

1-hour Leq: **69.7**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Foundation Months 9-12***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Graders	1	85	40%	225	5
Dozers	1	82	40%	225	5
Air Compressor	1	78	40%	250	5
Loaders	1	79	40%	250	5
Signal Boards	1	73	50%	275	5
Air Compressor	1	78	40%	275	5
Air Compressor	1	78	40%	300	5
Air Compressor	1	78	40%	300	5
Air Compressor	1	78	40%	325	5
Air Compressor	1	78	40%	325	5
Total # of equipment:	10				

Receptor: ***R6***

Results:

1-hour Leq: 66.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Structure***
Montha 12-21

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	225	5
Mixer	1	79	40%	225	5
Concrete Saw	1	90	20%	250	5
Cranes (tower)	1	81	16%	250	5
Cranes (mobile)	1	81	16%	275	5
Forklifts	1	75	20%	275	5
Plate Compactors	1	83	20%	300	5
Signal Boards	1	73	50%	300	5
Welders	1	74	40%	325	5
Air Compressor	1	78	40%	325	5
Mixer	1	79	40%	350	5
Forklifts	1	75	20%	350	5
Plate Compactors	1	83	20%	375	5
Welders	1	74	40%	375	5
Air Compressor	2	78	40%	400	5
Mixer	1	79	40%	400	5
Forklifts	1	75	20%	425	5
Plate Compactors	1	83	20%	425	5
Total # of equipment:	19				

Receptor: ***R6***

Results:

1-hour Leq: 67.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Interior Building***
Months 21-25

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	225	5
Aerial Lift	1	75	20%	225	5
Cranes (tower)	1	81	16%	250	5
Cranes (mobile)	1	81	16%	250	5
Forklifts	1	75	20%	275	5
Signal Boards	1	73	50%	275	5
Air Compressor	1	78	40%	300	5
Aerial Lift	1	75	20%	300	5
Forklifts	1	75	20%	325	5
Air Compressor	1	78	40%	325	5
Aerial Lift	1	75	20%	350	5
Forklifts	1	75	20%	350	5
Air Compressor	1	78	40%	375	5
Aerial Lift	1	75	20%	375	5
Total # of equipment:	14				

Receptor: ***R6***

Results:

1-hour Leq: 62.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Structure***
Months 20-33

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	275	5
Mixer	1	79	40%	275	5
Concrete Saw	1	90	20%	300	5
Cranes (tower)	1	81	16%	300	5
Cranes (mobile)	1	81	16%	325	5
Forklifts	1	75	20%	325	5
Plate Compactors	1	83	20%	350	5
Signal Boards	1	73	50%	350	5
Welders	1	74	40%	375	5
Air Compressor	1	78	40%	375	5
Mixer	1	79	40%	400	5
Forklifts	1	75	20%	400	5
Plate Compactors	1	83	20%	425	5
Welders	1	74	40%	425	5
Air Compressor	2	78	40%	450	5
Mixer	1	79	40%	450	5
Forklifts	1	75	20%	475	5
Plate Compactors	1	83	20%	475	5
Total # of equipment:	19				

Receptor: ***R6***

Results:

1-hour Leq: 66.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	275	5
Aerial Lift	1	75	20%	275	5
Cranes (tower)	1	81	16%	300	5
Cranes (mobile)	1	81	16%	300	5
Forklifts	1	75	20%	325	5
Signal Boards	1	73	50%	325	5
Air Compressor	1	78	40%	350	5
Aerial Lift	1	75	20%	350	5
Forklifts	1	75	20%	375	5
Air Compressor	1	78	40%	375	5
Aerial Lift	1	75	20%	400	5
Forklifts	1	75	20%	400	5
Air Compressor	1	78	40%	425	5
Aerial Lift	1	75	20%	425	5
Total # of equipment:	14				

Receptor: ***R6***

Results:

1-hour Leq: 61.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Structure***
Months 25-36

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	450	5
Mixer	1	79	40%	450	5
Concrete Saw	1	90	20%	475	5
Cranes (tower)	1	81	16%	475	5
Cranes (mobile)	1	81	16%	500	5
Forklifts	1	75	20%	500	5
Plate Compactors	1	83	20%	525	5
Signal Boards	1	73	50%	525	5
Welders	1	74	40%	550	5
Air Compressor	1	78	40%	550	5
Mixer	1	79	40%	575	5
Forklifts	1	75	20%	575	5
Plate Compactors	1	83	20%	600	5
Welders	1	74	40%	600	5
Air Compressor	2	78	40%	625	5
Mixer	1	79	40%	625	5
Forklifts	1	75	20%	650	5
Plate Compactors	1	83	20%	650	5
Total # of equipment:	19				

Receptor: ***R6***

Results:

1-hour Leq: 62.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	450	5
Aerial Lift	1	75	20%	450	5
Cranes (tower)	1	81	16%	475	5
Cranes (mobile)	1	81	16%	475	5
Forklifts	1	75	20%	500	5
Signal Boards	1	73	50%	500	5
Air Compressor	1	78	40%	525	5
Aerial Lift	1	75	20%	475	5
Forklifts	1	75	20%	190	5
Air Compressor	1	78	40%	190	5
Aerial Lift	1	75	20%	215	5
Forklifts	1	75	20%	215	5
Air Compressor	1	78	40%	240	5
Aerial Lift	1	75	20%	240	5
Total # of equipment:	14				

Receptor: ***R6***

Results:

1-hour Leq: 62.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Demolition***
Months 27-28

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	605	5
Concrete Saw	1	90	20%	605	5
Excavator	1	81	40%	630	5
Water Truck	1	82	10%	630	5
Loaders	1	79	40%	655	5
Signal Boards	1	73	50%	655	5
Loaders	1	79	40%	680	5
Tractor/Loader/Backhoes	1	81	40%	680	5
Trenches	1	50	80%	705	5
Air Compressor	1	78	40%	705	5
Concrete Saw	1	90	20%	730	5
Total # of equipment:	11				

Receptor: ***R6***

Results:

1-hour Leq: 60.7

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: AQMD Cleanup Months 30-31***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	605	5
Water Truck	1	82	10%	605	5
Rubber Tired Loaders	1	79	40%	630	5
Total # of equipment:	3				

Receptor: ***R6***

Results:

1-hour Leq: 53.1

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Grading***
Months 29-31

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	605	5
Excavator	1	81	40%	605	5
Graders	1	85	40%	630	5
Water Truck	1	82	10%	630	5
Dozers	1	82	40%	655	5
Loaders	1	79	40%	655	5
Signal Boards	1	73	50%	680	5
Tractor/Loader/Backhoes	1	81	40%	680	5
Welders	1	74	40%	705	5
Bore/Dril Rig	1	84	20%	705	5
Excavator	1	81	40%	730	5
Total # of equipment:	11				

Receptor: ***R6***

Results:

1-hour Leq: 59.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Structure***
Months 32-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	605	5
Mixer	1	79	40%	605	5
Concrete Saw	1	90	20%	630	5
Cranes (tower)	1	81	16%	630	5
Cranes (mobile)	1	81	16%	655	5
Forklifts	2	75	20%	655	5
Plate Compactors	1	83	20%	680	5
Signal Boards	1	73	50%	680	5
Welders	1	74	40%	705	5
Air Compressor	1	78	40%	705	5
Mixer	1	79	40%	730	5
Forklifts	1	75	20%	730	5
Plate Compactors	1	83	20%	755	5
Welders	1	74	40%	755	5
Air Compressor	1	78	40%	780	5
Mixer	1	79	40%	780	5
Plate Compactors	1	83	20%	805	5
Air Compressor	1	78	40%	805	5
Total # of equipment:	19				

Receptor: ***R6***

Results:

1-hour Leq: 60.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Interior Building***
Months 41 - 43

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	605	5
Aerial Lift	1	75	20%	605	5
Cranes (tower)	1	81	16%	630	5
Cranes (mobile)	1	81	16%	630	5
Forklifts	1	75	20%	655	5
Signal Boards	1	73	50%	655	5
Air Compressor	1	78	40%	680	5
Aerial Lift	1	75	20%	680	5
Forklifts	1	75	20%	705	5
Air Compressor	1	78	40%	705	5
Aerial Lift	1	75	20%	730	5
Forklifts	1	75	20%	730	5
Air Compressor	1	78	40%	755	5
Aerial Lift	1	75	20%	755	5
Total # of equipment:	14				

Receptor: ***R6***

Results:

1-hour Leq: 55.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Site: Landscape/Hardscape***
Months 41-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Mixer	1	79	40%	225	0
Concrete Saw	1	90	20%	225	0
Forklifts	1	75	20%	250	0
Water Truck	1	82	10%	250	0
Plate Compactors	1	83	20%	275	0
Rollers	1	80	20%	275	0
Tractor/Loader/Backhoes	1	81	40%	300	0
Signal Boards	1	73	50%	300	0
Loaders	1	79	40%	325	0
Trenches	1	50	80%	325	0
Total # of equipment:	10				

Receptor: ***R6***

Results:

1-hour Leq: 72.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0A: Demolition Months 1-2***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	275	0
Excavator	1	81	40%	275	0
Tractor/Loader/Backhoes	1	81	40%	300	0
Air Compressor	1	78	40%	300	0
Paving Equipment	1	77	50%	325	0
Water Truck	1	82	10%	325	0
Trenches	1	50	80%	350	0
Rubber-tired Dozers	1	82	40%	350	0
Air Compressor	1	78	40%	375	0
Concrete Saw	1	90	20%	375	0
Excavator	1	81	40%	400	0
Air Compressor	1	78	40%	400	0
Paving Equipment	1	78	40%	425	0
Excavator	1	81	40%	425	0
Air Compressor	1	78	40%	450	0
Air Compressor	1	78	40%	450	0
			40%		
Total # of equipment:	16				

Receptor: ***R7***

Results:

1-hour Leq: 72.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 0B: Utility Relocation & Temp Parking Stackers Month 3***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Concrete Saw	1	90	20%	170	0
Forklifts	1	75	20%	460	10
Concrete Saw	1	90	20%	195	0
Air Compressor	1	78	40%	195	0
Forklifts	1	75	20%	460	10
Air Compressor	1	78	40%	220	0
Forklifts	1	75	20%	460	10
Forklifts	1	75	20%	460	10
Total # of equipment:	8				

Receptor: ***R7***

Results:

1-hour Leq: 75.2

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Grading***
Months 5-9

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	275	0
Excavator	1	81	40%	275	0
Water Truck	1	82	10%	300	0
Graders	1	85	40%	300	0
Tractor/Loader/Backhoes	1	81	40%	325	0
Welders	1	74	40%	325	0
Signal Boards	1	73	50%	350	0
Scrapers	1	84	40%	350	0
Rubber-tired Dozers	1	82	40%	375	0
Rubber-tired Loaders	1	79	40%	375	0
Bore/Dril Rig	1	84	20%	400	0
Excavator	3	81	40%	400	0
Graders	2	85	40%	425	0
Welders	1	74	40%	425	0
Scrapers	1	84	40%	450	0
Dozers	1	82	40%	450	0
Loaders	1	79	40%	475	0
Total # of equipment:	20				

Receptor: ***R7***

Results:

1-hour Leq: **73.4**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Foundation Months 9-12***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Graders	1	85	40%	275	0
Dozers	1	82	40%	275	0
Air Compressor	1	78	40%	300	0
Loaders	1	79	40%	300	0
Signal Boards	1	73	50%	325	0
Air Compressor	1	78	40%	325	0
Air Compressor	1	78	40%	350	0
Air Compressor	1	78	40%	350	0
Air Compressor	1	78	40%	375	0
Air Compressor	1	78	40%	375	0
Total # of equipment:	10				

Receptor: ***R7***

Results:

1-hour Leq: 70.3

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Structure***
Montha 12-21

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	275	0
Mixer	1	79	40%	275	0
Concrete Saw	1	90	20%	300	0
Cranes (tower)	1	81	16%	300	0
Cranes (mobile)	1	81	16%	325	0
Forklifts	1	75	20%	325	0
Plate Compactors	1	83	20%	350	0
Signal Boards	1	73	50%	350	0
Welders	1	74	40%	375	0
Air Compressor	1	78	40%	375	0
Mixer	1	79	40%	400	0
Forklifts	1	75	20%	400	0
Plate Compactors	1	83	20%	425	0
Welders	1	74	40%	425	0
Air Compressor	2	78	40%	450	0
Mixer	1	79	40%	450	0
Forklifts	1	75	20%	475	0
Plate Compactors	1	83	20%	475	0
Total # of equipment:	19				

Receptor: ***R7***

Results:

1-hour Leq: **71.2**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1a: Interior Building***
Months 21-25

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	275	0
Aerial Lift	1	75	20%	275	0
Cranes (tower)	1	81	16%	300	0
Cranes (mobile)	1	81	16%	300	0
Forklifts	1	75	20%	325	0
Signal Boards	1	73	50%	325	0
Air Compressor	1	78	40%	350	0
Aerial Lift	1	75	20%	350	0
Forklifts	1	75	20%	375	0
Air Compressor	1	78	40%	375	0
Aerial Lift	1	75	20%	400	0
Forklifts	1	75	20%	400	0
Air Compressor	1	78	40%	425	0
Aerial Lift	1	75	20%	425	0
Total # of equipment:	14				

Receptor: ***R7***

Results:

1-hour Leq: 66.4

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Structure***
Months 20-33

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	270	0
Mixer	1	79	40%	270	0
Concrete Saw	1	90	20%	295	0
Cranes (tower)	1	81	16%	295	0
Cranes (mobile)	1	81	16%	320	0
Forklifts	1	75	20%	320	0
Plate Compactors	1	83	20%	345	0
Signal Boards	1	73	50%	345	0
Welders	1	74	40%	370	0
Air Compressor	1	78	40%	370	0
Mixer	1	79	40%	395	0
Forklifts	1	75	20%	395	0
Plate Compactors	1	83	20%	420	0
Welders	1	74	40%	420	0
Air Compressor	2	78	40%	445	0
Mixer	1	79	40%	445	0
Forklifts	1	75	20%	470	0
Plate Compactors	1	83	20%	470	0
Total # of equipment:	19				

Receptor: ***R7***

Results:

1-hour Leq: **71.3**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 1b: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	270	0
Aerial Lift	1	75	20%	270	0
Cranes (tower)	1	81	16%	295	0
Cranes (mobile)	1	81	16%	295	0
Forklifts	1	75	20%	320	0
Signal Boards	1	73	50%	320	0
Air Compressor	1	78	40%	345	0
Aerial Lift	1	75	20%	345	0
Forklifts	1	75	20%	370	0
Air Compressor	1	78	40%	370	0
Aerial Lift	1	75	20%	395	0
Forklifts	1	75	20%	395	0
Air Compressor	1	78	40%	420	0
Aerial Lift	1	75	20%	420	0
Total # of equipment:	14				

Receptor: ***R7***

Results:

1-hour Leq: 66.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Structure***
Months 25-36

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	300	0
Mixer	1	79	40%	300	0
Concrete Saw	1	90	20%	325	0
Cranes (tower)	1	81	16%	325	0
Cranes (mobile)	1	81	16%	350	0
Forklifts	1	75	20%	350	0
Plate Compactors	1	83	20%	375	0
Signal Boards	1	73	50%	375	0
Welders	1	74	40%	400	0
Air Compressor	1	78	40%	400	0
Mixer	1	79	40%	425	0
Forklifts	1	75	20%	425	0
Plate Compactors	1	83	20%	450	0
Welders	1	74	40%	450	0
Air Compressor	2	78	40%	475	0
Mixer	1	79	40%	475	0
Forklifts	1	75	20%	500	0
Plate Compactors	1	83	20%	500	0
Total # of equipment:	19				

Receptor: ***R7***

Results:

1-hour Leq: **70.5**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 2: Interior Building***
Months 32-37

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	300	0
Aerial Lift	1	75	20%	300	0
Cranes (tower)	1	81	16%	325	0
Cranes (mobile)	1	81	16%	325	0
Forklifts	1	75	20%	350	0
Signal Boards	1	73	50%	350	0
Air Compressor	1	78	40%	375	0
Aerial Lift	1	75	20%	375	0
Forklifts	1	75	20%	400	0
Air Compressor	1	78	40%	400	0
Aerial Lift	1	75	20%	425	0
Forklifts	1	75	20%	425	0
Air Compressor	1	78	40%	450	0
Aerial Lift	1	75	20%	450	0
Total # of equipment:	14				

Receptor: ***R7***

Results:

1-hour Leq: 65.8

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Demolition***
Months 27-28

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	170	0
Concrete Saw	1	90	20%	170	0
Excavator	1	81	40%	195	0
Water Truck	1	82	10%	195	0
Loaders	1	79	40%	220	0
Signal Boards	1	73	50%	220	0
Loaders	1	79	40%	245	0
Tractor/Loader/Backhoes	1	81	40%	245	0
Trenches	1	50	80%	270	0
Air Compressor	1	78	40%	270	0
Concrete Saw	1	90	20%	295	0
Total # of equipment:	11				

Receptor: ***R7***

Results:

1-hour Leq: **75.6**

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: AQMD Cleanup Months 30-31***

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Excavator	1	81	40%	170	0
Water Truck	1	82	10%	170	0
Rubber Tired Loaders	1	79	40%	195	0
Total # of equipment:	3				

Receptor: ***R7***

Results:

1-hour Leq: 68.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Grading***
Months 29-31

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Bore/Dril Rig	1	84	20%	170	0
Excavator	1	81	40%	170	0
Graders	1	85	40%	195	0
Water Truck	1	82	10%	195	0
Dozers	1	82	40%	220	0
Loaders	1	79	40%	220	0
Signal Boards	1	73	50%	245	0
Tractor/Loader/Backhoes	1	81	40%	245	0
Welders	1	74	40%	270	0
Bore/Dril Rig	1	84	20%	270	0
Excavator	1	81	40%	295	0
Total # of equipment:	11				

Receptor: ***R7***

Results:

1-hour Leq: 74.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Structure***
Months 32-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	170	0
Mixer	1	79	40%	170	0
Concrete Saw	1	90	20%	195	0
Cranes (tower)	1	81	16%	195	0
Cranes (mobile)	1	81	16%	220	0
Forklifts	2	75	20%	220	0
Plate Compactors	1	83	20%	245	0
Signal Boards	1	73	50%	245	0
Welders	1	74	40%	270	0
Air Compressor	1	78	40%	270	0
Mixer	1	79	40%	295	0
Forklifts	1	75	20%	295	0
Plate Compactors	1	83	20%	320	0
Welders	1	74	40%	320	0
Air Compressor	1	78	40%	345	0
Mixer	1	79	40%	345	0
Plate Compactors	1	83	20%	370	0
Air Compressor	1	78	40%	370	0
Total # of equipment:	19				

Receptor: ***R7***

Results:

1-hour Leq: 74.6

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Phase 3: Interior Building***
Months 41 - 43

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Air Compressor	1	78	40%	170	0
Aerial Lift	1	75	20%	170	0
Cranes (tower)	1	81	16%	195	0
Cranes (mobile)	1	81	16%	195	0
Forklifts	1	75	20%	220	0
Signal Boards	1	73	50%	220	0
Air Compressor	1	78	40%	245	0
Aerial Lift	1	75	20%	245	0
Forklifts	1	75	20%	270	0
Air Compressor	1	78	40%	270	0
Aerial Lift	1	75	20%	295	0
Forklifts	1	75	20%	295	0
Air Compressor	1	78	40%	320	0
Aerial Lift	1	75	20%	320	0
Total # of equipment:	14				

Receptor: ***R7***

Results:

1-hour Leq: 69.9

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Project: Sportsmen's Lodge

Construction Phase: ***Site: Landscape/Hardscape***
Months 41-42

Equipment

Description	No. of Equip.	Reference Noise Level at 50ft, Lmax	Acoustical Usage Factor	Distance to Receptor, ft	Estimated Noise Shielding, dBA
Mixer	1	79	40%	170	0
Concrete Saw	1	90	20%	170	0
Forklifts	1	75	20%	195	0
Water Truck	1	82	10%	195	0
Plate Compactors	1	83	20%	220	0
Rollers	1	80	20%	220	0
Tractor/Loader/Backhoes	1	81	40%	245	0
Signal Boards	1	73	50%	245	0
Loaders	1	79	40%	270	0
Trenches	1	50	80%	270	0
Total # of equipment:	10				

Receptor: ***R7***

Results:

1-hour Leq: 74.5

Source for Ref. Noise Levels: FHWA RCNM, 2006

AES
ACOUSTICAL ENGINEERING SERVICES

Temporary Parking (Car Stacker) Noise Calculations

Project: Sportsmen's Lodge

	Estimated Noise Levels, Leq(1-hr) from SOUNDPLAN		Hours of Operations Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	47.9	54.6	47.9	47.9	47.9
R2	42.5	49.2	42.5	42.5	42.5
R3	23.5	30.2	23.5	23.5	23.5
R4	29.7	36.4	29.7	29.7	29.7
R5	29.8	36.5	29.8	29.8	29.8
R6	32.6	39.3	32.6	32.6	32.6
R7	47.8	54.5	47.8	47.8	47.8
R8	55.2	61.9	55.2	55.2	55.2

Receptor	ambient (Leq)	Project Noise (Leq)	Ambient + Project (Leq)	Increase (Leq)	Significance Threshold (Leq)
R1	69.6	47.9	69.6	0.0	74.6
R2	61.0	42.5	61.1	0.1	66.0
R3	66.5	23.5	66.5	0.0	71.5
R4	61.3	29.7	61.3	0.0	66.3
R5	51.9	29.8	51.9	0.0	56.9
R6	54.0	32.6	54.0	0.0	59.0
R7	49.6	47.8	51.8	2.2	54.6
R8	50.3	55.2	56.4	6.1	55.3

Sportsmen's Lodge
Source Levels in dB(A) - Car Stackers

Name	Source type	Lw dB(A)	
Car Stackers (Motor) A	Area	84.8	
Car Stackers (Motor) B	Area	80.2	
Car Stackers (Motor) C	Area	80.9	
Car Stackers (Motor) D	Area	79.8	
Car Stackers (Motor) E	Area	81.2	
Car Stackers (Motor) F	Area	81.7	
Car Stackers (Motor) G	Area	83.2	
Car Stackers (Motor) H	Area	93.0	
Car Stackers (Plate) A	Area	83.9	
Car Stackers (Plate) B	Area	79.2	
Car Stackers (Plate) C	Area	79.9	
Car Stackers (Plate) D	Area	78.9	
Car Stackers (Plate) E	Area	80.2	
Car Stackers (Plate) F	Area	80.7	
Car Stackers (Plate) G	Area	82.2	
Car Stackers (Plate) H	Area	82.1	

Sportsmen's Lodge
Contribution level - Car Stackers

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 47.9 dB(A)			
Car Stackers (Motor) A	Area	38.6	
Car Stackers (Motor) B	Area	27.8	
Car Stackers (Motor) C	Area	26.7	
Car Stackers (Motor) D	Area	24.2	
Car Stackers (Motor) E	Area	25.4	
Car Stackers (Motor) G	Area	31.5	
Car Stackers (Motor) H	Area	46.2	
Car Stackers (Motor) F	Area	27.6	
Car Stackers (Plate) A	Area	36.9	
Car Stackers (Plate) B	Area	26.9	
Car Stackers (Plate) C	Area	25.5	
Car Stackers (Plate) D	Area	22.8	
Car Stackers (Plate) E	Area	23.9	
Car Stackers (Plate) G	Area	30.1	
Car Stackers (Plate) H	Area	32.9	
Car Stackers (Plate) F	Area	26.5	
Receiver R2 Leq,d 42.5 dB(A)			
Car Stackers (Motor) A	Area	30.9	
Car Stackers (Motor) B	Area	21.2	
Car Stackers (Motor) C	Area	20.3	
Car Stackers (Motor) D	Area	18.1	
Car Stackers (Motor) E	Area	13.2	
Car Stackers (Motor) G	Area	26.4	
Car Stackers (Motor) H	Area	41.6	
Car Stackers (Motor) F	Area	21.5	
Car Stackers (Plate) A	Area	26.1	
Car Stackers (Plate) B	Area	19.7	
Car Stackers (Plate) C	Area	18.6	
Car Stackers (Plate) D	Area	16.1	
Car Stackers (Plate) E	Area	8.0	
Car Stackers (Plate) G	Area	22.2	
Car Stackers (Plate) H	Area	26.9	
Car Stackers (Plate) F	Area	15.8	
Receiver R3 Leq,d 23.5 dB(A)			
Car Stackers (Motor) A	Area	19.1	
Car Stackers (Motor) B	Area	2.1	
Car Stackers (Motor) C	Area	1.9	
Car Stackers (Motor) D	Area	0.3	
Car Stackers (Motor) E	Area	1.1	

Sportsmen's Lodge
Contribution level - Car Stackers

Source	Source type	Leq,d dB(A)	
Car Stackers (Motor) G	Area	5.7	
Car Stackers (Motor) H	Area	20.2	
Car Stackers (Motor) F	Area	2.6	
Car Stackers (Plate) A	Area	11.6	
Car Stackers (Plate) B	Area	0.3	
Car Stackers (Plate) C	Area	0.1	
Car Stackers (Plate) D	Area	-1.7	
Car Stackers (Plate) E	Area	-1.3	
Car Stackers (Plate) G	Area	3.4	
Car Stackers (Plate) H	Area	6.0	
Car Stackers (Plate) F	Area	0.5	
Receiver R4 Leq,d 29.7 dB(A)			
Car Stackers (Motor) A	Area	18.5	
Car Stackers (Motor) B	Area	15.1	
Car Stackers (Motor) C	Area	16.7	
Car Stackers (Motor) D	Area	15.4	
Car Stackers (Motor) E	Area	11.8	
Car Stackers (Motor) G	Area	18.0	
Car Stackers (Motor) H	Area	27.6	
Car Stackers (Motor) F	Area	14.3	
Car Stackers (Plate) A	Area	13.9	
Car Stackers (Plate) B	Area	6.0	
Car Stackers (Plate) C	Area	7.4	
Car Stackers (Plate) D	Area	6.8	
Car Stackers (Plate) E	Area	2.6	
Car Stackers (Plate) G	Area	10.5	
Car Stackers (Plate) H	Area	12.6	
Car Stackers (Plate) F	Area	3.6	
Receiver R5 Leq,d 29.8 dB(A)			
Car Stackers (Motor) A	Area	17.7	
Car Stackers (Motor) B	Area	18.7	
Car Stackers (Motor) C	Area	13.7	
Car Stackers (Motor) D	Area	7.8	
Car Stackers (Motor) E	Area	7.2	
Car Stackers (Motor) G	Area	24.0	
Car Stackers (Motor) H	Area	25.1	
Car Stackers (Motor) F	Area	19.4	
Car Stackers (Plate) A	Area	11.3	
Car Stackers (Plate) B	Area	13.7	
Car Stackers (Plate) C	Area	8.7	

Sportsmen's Lodge
Contribution level - Car Stackers

Source	Source type	Leq,d dB(A)	
Car Stackers (Plate) D	Area	3.6	
Car Stackers (Plate) E	Area	2.6	
Car Stackers (Plate) G	Area	18.4	
Car Stackers (Plate) H	Area	8.9	
Car Stackers (Plate) F	Area	7.7	
Receiver R6 Leq,d 32.6 dB(A)			
Car Stackers (Motor) A	Area	20.8	
Car Stackers (Motor) B	Area	17.8	
Car Stackers (Motor) C	Area	19.5	
Car Stackers (Motor) D	Area	19.4	
Car Stackers (Motor) E	Area	20.7	
Car Stackers (Motor) G	Area	24.5	
Car Stackers (Motor) H	Area	28.1	
Car Stackers (Motor) F	Area	20.1	
Car Stackers (Plate) A	Area	17.8	
Car Stackers (Plate) B	Area	15.1	
Car Stackers (Plate) C	Area	16.7	
Car Stackers (Plate) D	Area	16.7	
Car Stackers (Plate) E	Area	12.1	
Car Stackers (Plate) G	Area	18.6	
Car Stackers (Plate) H	Area	12.1	
Car Stackers (Plate) F	Area	10.8	
Receiver R7 Leq,d 47.8 dB(A)			
Car Stackers (Motor) A	Area	37.4	
Car Stackers (Motor) B	Area	35.0	
Car Stackers (Motor) C	Area	33.2	
Car Stackers (Motor) D	Area	29.3	
Car Stackers (Motor) E	Area	29.9	
Car Stackers (Motor) G	Area	35.7	
Car Stackers (Motor) H	Area	44.1	
Car Stackers (Motor) F	Area	33.0	
Car Stackers (Plate) A	Area	36.0	
Car Stackers (Plate) B	Area	33.8	
Car Stackers (Plate) C	Area	32.2	
Car Stackers (Plate) D	Area	28.6	
Car Stackers (Plate) E	Area	29.1	
Car Stackers (Plate) G	Area	34.4	
Car Stackers (Plate) H	Area	32.7	
Car Stackers (Plate) F	Area	31.9	
Receiver R8 Leq,d 55.2 dB(A)			

Sportsmen's Lodge
Contribution level - Car Stackers

Source	Source type	Leq,d dB(A)	
Car Stackers (Motor) A	Area	48.5	
Car Stackers (Motor) B	Area	43.7	
Car Stackers (Motor) C	Area	36.0	
Car Stackers (Motor) D	Area	30.6	
Car Stackers (Motor) E	Area	31.6	
Car Stackers (Motor) G	Area	43.9	
Car Stackers (Motor) H	Area	49.9	
Car Stackers (Motor) F	Area	37.3	
Car Stackers (Plate) A	Area	47.3	
Car Stackers (Plate) B	Area	42.2	
Car Stackers (Plate) C	Area	34.7	
Car Stackers (Plate) D	Area	29.9	
Car Stackers (Plate) E	Area	30.8	
Car Stackers (Plate) G	Area	42.0	
Car Stackers (Plate) H	Area	38.3	
Car Stackers (Plate) F	Area	35.9	

Project: Sportsmen's Lodge

Off-Site Haul Trucks

	Maximum Number of Truck One Way Trips		Estimated Noise Levels from TNM Model, dBA Leq	
Phase	Per Day	Per Hour (8-hr day)	Coldwater Canyon	Ventura
P0A: Demo	44	8	57.9	51.4
P0B: Utility	6	1	48.8	42.3
P1a: Grading	590	99	68.8	62.3
P1a: Foundation	30	4	54.9	48.4
P1a: Mat Foundation (Pour Days)	296	30	63.6	57.1
P1a Structure	120	15	60.6	54.1
P1a Interior Building	60	8	57.9	51.4
P1b Structure	60	8	57.9	51.4
P1b Interior Building	60	8	57.9	51.4
P2 Structure	60	8	57.9	51.4
P2 Interior Building	60	8	57.9	51.4
P3 Demo	60	10	58.8	52.3
P3 AQMD Cleanup	60	8	57.9	51.4
P3 Grading	310	52	66.0	59.5
P3 Structure	120	15	60.6	54.1
P3 Interior Building	60	8	57.9	51.4
Site Landscape	20	3	53.6	47.1
** Grading assumed 6-hour hauling*		Ambient	71.1	63.4
*** Mat Foundation assumed 10-hour*	Threshold, Ambient + 5 dBA		76.1	68.4
**** Other phases assumed 8-hour*				

		`	Project		Project + Ambient		ease over Ambient	
	Per Day	Per Hour (8-hr day)	Coldwater Canyon	Ventura	Coldwater Canyon	Ventura	Coldwater Canyon	Ventura
Months 1-4	44	8	57.9	51.4	71.3	63.7	0.2	0.3
Months 5-12	590	99	68.8	62.3	73.1	65.9	2.0	2.5
Months 13-19	120	15	60.6	54.1	71.5	63.9	0.4	0.5
Months 20-24	240	31	63.8	57.3	71.8	64.4	0.7	1.0
Months 25-26	180	24	62.7	56.2	71.7	64.2	0.6	0.8
Months 27-28:	180	26	63	56.5	71.7	64.2	0.6	0.8
Months 29-31	490	76	67.7	61.2	72.7	65.4	1.6	2.0
Months 32-36	360	39	64.8	58.3	72.0	64.6	0.9	1.2
Months 37-40	240	23	62.5	56.0	71.7	64.1	0.6	0.7
Months 41-43	200	26	63.0	56.5	71.7	64.2	0.6	0.8

- Months 1-4: Phase 0a Demolition of Existing Hotel; Phase 0b Utility Relocation, and Temp Parking-Parking Stackers.
- Months 5-12: Phase 1a Grading/Export/Shoring for Area 1 (Parking Garage Area); Phase 1a Mat Foundation.
- Months 13-19: Phase 1a Garage to Podium Deck Structure.
- Months 20-24: Phase 1a Garage to Podium Deck Structure, Phase 1a Garage to Podium Deck Interior Build, and Phase 1b Structure.
- Months 25-26: Phase 1a Garage to Podium Deck Interior Build, Phase 1b Structure, and Phase 2 Structure.
- Months 27-28: Phase 1b Structure, Phase 2 Structure, Phase 3 Demolition, Relocate Parking Stackers to Garage
- Months 29-31: Phase 1b Structure, Phase 2 Structure, Phase 3 AQMD Cleanup, and Phase 3 Grading/Export/Shoring.
- Months 32-36: Phase 1b Structure, Phase 1b Interior Build, Phase 2 Structure, Phase 2 Interior Build, and Phase 3 Structure.
- Months 37-40: Phase 1b Interior Build, Phase 2 Interior Build, and Phase 3 Structure.
- Months 41-43: Phase 3 Structure, Phase 3 Interior Build, Landscape/Hardscape.

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 0A Demo

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 0A Demo**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	8	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 0A Demo

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 0A Demo
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	57.9	71	57.9	5	----	57.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 0B Utility

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control				
Name	Width	Name	No.	Coordinates (pavement)						Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 0B Utility**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	1	35	0	0	0	0
	point2	2										

EE						**29 July 2021**					
Sean Bui						**TNM 2.5**					
INPUT: RECEIVERS											
PROJECT/CONTRACT:	**Sportmens Lodge**										
RUN:	**Phase 0B Utility**										
Receiver											
Name	**No.**	**#DUs**	**Coordinates (ground)**			**Height**	**Input Sound Levels and Criteria**				**Active**
			X	**Y**	**Z**	**above**	**Existing**	**Impact Criteria**		**NR**	**in**
						Ground	**LAeq1h**	**LAeq1h**	**Sub'l**	**Goal**	**Calc.**
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 0B Utility
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	48.8	71	48.8	5	----	48.8	0.0	0	0.0
Ventura Blvd.	10	1	0.0	42.3	66	42.3	10	----	42.3	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min dB	Noise Reduction Avg dB	Noise Reduction Max dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE	29 July 2021
Sean Bui	TNM 2.5

INPUT: ROADWAYS	Average pavement type shall be used unless
PROJECT/CONTRACT:	Sportmens Lodge a State highway agency substantiates the use
RUN:	Phase 1A Grading of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 1A Grading**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	99	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Grading

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Grading
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	68.8	71	68.8	5	----	68.8	0.0	0	0.0
Ventura Blvd.	10	1	0.0	62.3	66	62.3	10	----	62.3	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE 16 November 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Foundation

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE 16 November 2021
Sean Bui TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Foundation

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	4	35	0	0	0	0
	point2	2										

EE 16 November 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Foundation

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

16 November 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Foundation
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	54.9	71	54.9	5	----	54.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	48.4	66	48.4	10	----	48.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE 16 November 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Mat Foundation Pour Day

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE 16 November 2021

Sean Bui TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: Sportmens Lodge

RUN: Phase 1A Mat Foundation Pour Day

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	30	35	0	0	0	0
	point2	2										

EE 16 November 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Mat Foundation Pour Day

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

16 November 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS

PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Mat Foundation Pour Day
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	63.6	71	63.6	5	----	63.6	0.0	0	0.0
Ventura Blvd.	10	1	0.0	57.1	66	57.1	10	----	57.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Structure

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 1A Structure**

Roadway Name	Points Name	No.	Segment Autos V	Autos S	MTrucks V	MTrucks S	HTrucks V	HTrucks S	Buses V	Buses S	Motorcycles V	Motorcycles S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	15	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Structure

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Structure
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	60.6	71	60.6	5	----	60.6	0.0	0	0.0
Ventura Blvd.	10	1	0.0	54.1	66	54.1	10	----	54.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE	**29 July 2021**
Sean Bui	**TNM 2.5**

INPUT: ROADWAYS	**Average pavement type shall be used unless**
PROJECT/CONTRACT:	**Sportmens Lodge** **a State highway agency substantiates the use**
RUN:	**Phase 1A Interior Building** **of a different type with the approval of FHWA**

Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control**	**Speed**	**Percent**	**Pvmt**	**On**
							Device	**Constraint**	**Vehicles**	**Type**	**Struct?**
									Affected		
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 1A Interior Building**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	8	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Interior Building

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
29 July 2021
Sean Bui
TNM 2.5
Calculated with TNM 2.5
RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1A Interior Building
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	57.9	71	57.9	5	----	57.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE	**29 July 2021**
Sean Bui	**TNM 2.5**

INPUT: ROADWAYS	**Average pavement type shall be used unless**
PROJECT/CONTRACT:	**Sportmens Lodge** **a State highway agency substantiates the use**
RUN:	**Phase 1B Structure** **of a different type with the approval of FHWA**

Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control**	**Speed**	**Percent**	**Pvmt**	**On**
							Device	**Constraint**	**Vehicles**	**Type**	**Struct?**
									Affected		
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 1B Structure**

Roadway Name	Points Name	No.	Segment Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	8	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1B Structure

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1B Structure
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	57.9	71	57.9	5	----	57.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1B Interior Building

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement) X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 1B Interior Building**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	8	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1B Interior Building

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 1B Interior Building
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	With Barrier Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	57.9	71	57.9	5	----	57.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 2 Structure

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 2 Structure**

Roadway	Points		Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
Name	Name	No.	V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	8	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 2 Structure

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 2 Structure
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	57.9	71	57.9	5	----	57.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min dB	Noise Reduction Avg dB	Noise Reduction Max dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE	**29 July 2021**
Sean Bui	**TNM 2.5**

INPUT: ROADWAYS	**Average pavement type shall be used unless**
PROJECT/CONTRACT:	**Sportmens Lodge** **a State highway agency substantiates the use**
RUN:	**Phase 2 Interior Building** **of a different type with the approval of FHWA**

Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 2 Interior Building**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	8	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 2 Interior Building

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
29 July 2021
Sean Bui
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 2 Interior Building
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	With Barrier Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	57.9	71	57.9	5	----	57.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE 16 November 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Demo

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE 16 November 2021
Sean Bui TNM 2.5

INPUT: TRAFFIC FOR LAeq1h Volumes
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Demo

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	10	35	0	0	0	0
	point2	2										

EE 16 November 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Demo

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

16 November 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Demo
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	58.8	71	58.8	5	----	58.8	0.0	0	0.0
Ventura Blvd.	10	1	0.0	52.3	66	52.3	10	----	52.3	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min dB	Noise Reduction Avg dB	Noise Reduction Max dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE	29 July 2021
Sean Bui	TNM 2.5

INPUT: ROADWAYS	Average pavement type shall be used unless
PROJECT/CONTRACT:	Sportmens Lodge a State highway agency substantiates the use
RUN:	Phase 3 AQMD Cleanup of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 3 AQMD Cleanup**

Roadway	Points											
Name	Name	No.	Segment									
			Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	8	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 AQMD Cleanup

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 AQMD Cleanup
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	With Barrier Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	57.9	71	57.9	5	----	57.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE					**29 July 2021**						
Sean Bui					**TNM 2.5**						
INPUT: ROADWAYS							**Average pavement type shall be used unless**				
PROJECT/CONTRACT:	**Sportmens Lodge**						**a State highway agency substantiates the use**				
RUN:	**Phase 3 Grading**						**of a different type with the approval of FHWA**				
Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control**	**Speed**	**Percent**	**Pvmt**	**On**
							Device	**Constraint**	**Vehicles**	**Type**	**Struct?**
									Affected		
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 3 Grading**

Roadway	**Points**											
Name	**Name**	**No.**	**Segment**									
			Autos		**MTrucks**		**HTrucks**		**Buses**		**Motorcycles**	
			V	**S**	**V**	**S**	**V**	**S**	**V**	**S**	**V**	**S**
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	52	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Grading

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Grading
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	66.0	71	66.0	5	----	66.0	0.0	0	0.0
Ventura Blvd.	10	1	0.0	59.5	66	59.5	10	----	59.5	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE	29 July 2021
Sean Bui	TNM 2.5

INPUT: ROADWAYS	Average pavement type shall be used unless
PROJECT/CONTRACT:	Sportmens Lodge a State highway agency substantiates the use
RUN:	Phase 3 Structure of a different type with the approval of FHWA

Roadway		Points									
Name	Width	Name	No.	Coordinates (pavement)			Flow Control			Segment	
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 3 Structure**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	15	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Structure

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Structure
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	60.6	71	60.6	5	----	60.6	0.0	0	0.0
Ventura Blvd.	10	1	0.0	54.1	66	54.1	10	----	54.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE	**29 July 2021**
Sean Bui	**TNM 2.5**

INPUT: ROADWAYS	**Average pavement type shall be used unless**
PROJECT/CONTRACT:	**Sportmens Lodge** **a State highway agency substantiates the use**
RUN:	**Phase 3 Interior Building** **of a different type with the approval of FHWA**

Roadway		**Points**									
Name	**Width**	**Name**	**No.**	**Coordinates (pavement)**			**Flow Control**			**Segment**	
				X	**Y**	**Z**	**Control Device**	**Speed Constraint**	**Percent Vehicles Affected**	**Pvmt Type**	**On Struct?**
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Phase 3 Interior Building**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	8	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Interior Building

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
Sean Bui

29 July 2021
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Phase 3 Interior Building
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	57.9	71	57.9	5	----	57.9	0.0	0	0.0
Ventura Blvd.	10	1	0.0	51.4	66	51.4	10	----	51.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: ROADWAYS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Site Landscape

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with the approval of FHWA

Roadway		Points					Flow Control			Segment	
Name	Width	Name	No.	Coordinates (pavement)							
				X	Y	Z	Control Device	Speed Constraint	Percent Vehicles Affected	Pvmt Type	On Struct?
	ft			ft	ft	ft		mph	%		
Truck Route	12.0	point1	1	0.0	0.0	0.00	Signal	0.00	50	Average	
		point2	2	1,000.0	0.0	0.00					

EE **29 July 2021**

Sean Bui **TNM 2.5**

INPUT: TRAFFIC FOR LAeq1h Volumes

PROJECT/CONTRACT: **Sportmens Lodge**

RUN: **Site Landscape**

Roadway	Points		Segment									
Name	Name	No.	Autos		MTrucks		HTrucks		Buses		Motorcycles	
			V	S	V	S	V	S	V	S	V	S
			veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph	veh/hr	mph
Truck Route	point1	1	0	0	0	0	3	35	0	0	0	0
	point2	2										

EE 29 July 2021
Sean Bui TNM 2.5

INPUT: RECEIVERS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Site Landscape

Receiver Name	No.	#DUs	Coordinates (ground) X	Y	Z	Height above Ground	Input Sound Levels and Criteria: Existing LAeq1h	Impact Criteria LAeq1h	Impact Criteria Sub'l	NR Goal	Active in Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Coldwater Cyn	1	1	500.0	45.0	0.00	4.92	0.00	71	5.0	0.0	Y
Ventura Blvd.	10	1	500.0	180.0	0.00	4.92	0.00	66	10.0	8.0	Y

EE
29 July 2021
Sean Bui
TNM 2.5
Calculated with TNM 2.5
RESULTS: SOUND LEVELS
PROJECT/CONTRACT: Sportmens Lodge
RUN: Site Landscape
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH
Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Coldwater Cyn	1	1	0.0	53.6	71	53.6	5	----	53.6	0.0	0	0.0
Ventura Blvd.	10	1	0.0	47.1	66	47.1	10	----	47.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	0	0.0	0.0	0.0
All that meet NR Goal	1	0.0	0.0	0.0

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Project: Sportsmen's Lodge Project

Construction Vibration Impacts

Reference Levels at 25 feet are based on FTA, 2006 (Transit Noise and Vibration Impact Assessment)
Calculations using FTA procedure with n= **1.5** (for receptors 25 feet or greater)
n= **1.1** (for receptors less than 25 feet, per Caltrans procedure)

ON-SITE CONSTRUCTION ACTIVITIES

Table 1: Construction Equipment Vibration Levels (PPV) - Building Damage

Equipment	Reference Vibration Levels at 25 ft., PPV	Estimated Vibration Levels at nearest off-site building structures, distance in feet, PPV							
		Single-Family Residential Buildings to the North		Commercial Buildings to the West		Multi-Family Residential Buildings to the East		Commercial Buildings to the South	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level
Large Bulldozer**	0.089	130	0.008	10	0.244	10	0.244	115	0.009
Caisson Drilling***	0.089	130	0.008	10	0.244	10	0.244	115	0.009
Loaded Trucks**	0.076	130	0.006	10	0.208	10	0.208	115	0.008
Jackhammer***	0.035	130	0.003	10	0.096	10	0.096	115	0.004
Small bulldozer****	0.003	130	0.000	10	0.008	10	0.0082	115	0.000

Table 2a: Construction Equipment Vibration Levels (VdB) - Human Annoyance

Equipment	Reference Vibration Levels at 25 ft., VdB	Estimated Vibration Levels at Off-Site Receptors (at note distance in feet), VdB							
		R1		R2		R3		R4	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level
Large Bulldozer**	87	130	66	140	65	415	50	480	49
Caisson Drilling***	87	130	66	140	65	415	50	480	49
Loaded Trucks**	86	130	65	140	64	415	49	480	48
Jackhammer***	79	130	58	140	57	415	42	480	41
Small bulldozer****	58	130	37	140	36	415	21	480	20

Table 2b: Construction Equipment Vibration Levels (VdB) - Human Annoyance

Equipment	Reference Vibration Levels at 25 ft., VdB	Estimated Vibration Levels at Off-Site Receptors (at note distance in feet), VdB							
		R5		R6		R7			
		Distance	Level	Distance	Level	Distance	Level		
Large Bulldozer**	87	260	56	225	58	170	62		
Caisson Drilling***	87	260	56	225	58	170	62		
Loaded Trucks**	86	260	55	225	57	170	61		
Jackhammer***	79	260	48	225	50	170	54		
Small bulldozer****	58	260	27	225	29	170	33		

OFF-SITE CONSTRUCTION HAUL TRUCKS

Table 3: Off-Site Haul Trucks - Building Damage

Equipment	Reference Vibration Levels at 50 ft., PPV	Estimated Vibration Levels at noted distance in feet, PPV							
		20							
Typical road surface	0.00565	0.022							

Ref. Levels based on FTA Figure 7-3 (converted from VdB to PPV)

Table 4: Off-Site Haul Trucks - Human Annoyance

Equipment	Reference Vibration Levels at 50 ft., VdB	Estimated Vibration Levels at noted distance in feet, VdB							
		30							
Typical road surface	63	70							

Ref. Levels based on FTA Figure 7-3

Operation Noise Calculations

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Project Composite Noise Calculations (CNEL)

Project: Sportsmen's Lodge SCEA

Receptor	Ambient	Traffic[a]	Mechanical			Outdoor		Project Composite	Ambient + Project	Increase
R1	76.6	59.8	56.0			58.7		63.2	76.8	0.2
R2	68.1	56.1	54.3			53.4		59.5	68.7	0.6
R3	74.0	55.8	42.7			41.5		56.1	74.1	0.1
R4	71.7	48.4	51.3			50.7		55.0	71.8	0.1
R5	64.0	49.3	52.9			57.1		59.0	65.2	1.2
R6	61.7	51.2	51.8			54.5		57.5	63.1	1.4
R7	58.9	39.7	54.5			56.4		58.6	61.8	2.9

[a] - Project traffic noise levels at each receptor is based on the traffic noise analysis for the roadway segment in front of the receptor, adjusted for distance and barrier (if present), as provided in the table below.

		Traffic Noise Levels, CNEL								
Receptor	Roadway Segment	Future No Project	Future + Project	Project Only	distance to roadway, ft	Future No Project	Future + Project	barrier	distance to Center Line	adj. for distance
R1	Coldwater Canyon	71.3	71.6	59.8	10	71.3	71.6	0	40	0.0
R2	Coldwater Canyon	67.5	67.8	56.1	65	71.3	71.6	0	40	-3.8
R3	Ventura Blvd.	72.1	72.2	55.8	10	72.1	72.2	0	43	0.0
R4	Ventura Blvd.	64.7	64.8	48.4	200	72.1	72.2	0	43	-7.4
R5	Ventura Blvd.	65.7	65.8	49.3	155	72.1	72.2	0	43	-6.4
R6	Ventura Blvd.	67.5	67.6	51.2	90	72.1	72.2	0	43	-4.6
R7	Coldwater Canyon	51.1	51.4	39.7	385	71.3	71.6	-10	40	-10.2

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Outdoor Mechanical Equipment Noise Calculations

Project: Sportsmen's Lodge SCEA

	Estimated Noise Levels, Leq from SOUNDPLAN		Hours of Operations Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	49.3	56.0	49.3	49.3	49.3
R2	47.6	54.3	47.6	47.6	47.6
R3	36.0	42.7	36.0	36.0	36.0
R4	44.6	51.3	44.6	44.6	44.6
R5	46.2	52.9	46.2	46.2	46.2
R6	45.1	51.8	45.1	45.1	45.1
R7	47.8	54.5	47.8	47.8	47.8

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	76.6	76.6	0.0	69.6	69.6	0.0
R2	68.1	68.3	0.2	61.0	61.2	0.2
R3	74.0	74.0	0.0	66.5	66.5	0.0
R4	71.7	71.7	0.0	61.3	61.4	0.1
R5	64.0	64.3	0.3	51.9	52.9	1.0
R6	61.7	62.1	0.4	54.0	54.5	0.5
R7	58.9	60.2	1.3	49.6	51.8	2.2

For Report

Receptor	Ambient, (Leq)	Project, (Leq)	Amb+Project, (Leq)	Criteria, (Leq)	Exceedance
R1	69.6	49.3	69.6	74.6	0.0
R2	61.0	47.6	61.2	66.0	0.0
R3	66.5	36.0	66.5	71.5	0.0
R4	61.3	44.6	61.4	66.3	0.0
R5	51.9	46.2	52.9	56.9	0.0
R6	54.0	45.1	54.5	59.0	0.0
R7	49.6	47.8	51.8	54.6	0.0

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Outdoor Noise Calculations

Project: Sportsmen's Lodge SCEA

					Hours of Operations		
	Estimated noise levels, Leq (FROM SOUNDPLAN)				Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Sound System	Occupants	Total, Leq	CNEL	12	**2**	**4**
R1	50.6	52.8	54.8	58.7	54.8	53.0	51.3
R2	45.7	47.2	49.5	53.4	49.5	47.7	46.0
R3	33.9	35.2	37.6	41.5	37.6	35.8	34.1
R4	45.7	40.5	46.8	50.7	46.8	45.0	43.3
R5	52.7	43.4	53.2	57.1	53.2	51.4	49.7
R6	49.4	44.5	50.6	54.5	50.6	48.8	47.1
R7	47.8	50.7	52.5	56.4	52.5	50.7	49.0

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	76.6	76.7	0.1	69.6	54.8	69.7	0.1
R2	68.1	68.2	0.1	61.0	49.5	61.3	0.3
R3	74.0	74.0	0.0	66.5	37.6	66.5	0.0
R4	71.7	71.7	0.0	61.3	46.8	61.5	0.2
R5	64.0	64.8	0.8	51.9	53.2	55.6	3.7
R6	61.7	62.5	0.8	54.0	50.6	55.6	1.6
R7	58.9	60.8	1.9	49.6	52.5	54.3	4.7

For Report

Receptor	Ambient, (Leq)	Project, (Leq)	Ambient + Project, (Leq)	Criteria, (Leq)	Exceedance
R1	69.6	54.8	69.7	74.6	0.0
R2	61.0	49.5	61.3	66.0	0.0
R3	66.5	37.6	66.5	71.5	0.0
R4	61.3	46.8	61.5	66.3	0.0
R5	51.9	53.2	55.6	56.9	0.0
R6	54.0	50.6	55.6	59.0	0.0
R7	49.6	52.5	54.3	54.6	0.0

Sportsmen's Lodge
Source Levels in dB(A) - Car Stackers

Name	Source type	Lw dB(A)	
Car Stackers (Motor) A	Area	84.8	
Car Stackers (Motor) B	Area	80.2	
Car Stackers (Motor) C	Area	80.9	
Car Stackers (Motor) D	Area	79.8	
Car Stackers (Motor) E	Area	81.2	
Car Stackers (Motor) F	Area	81.7	
Car Stackers (Motor) G	Area	83.2	
Car Stackers (Motor) H	Area	93.0	
Car Stackers (Plate) A	Area	83.9	
Car Stackers (Plate) B	Area	79.2	
Car Stackers (Plate) C	Area	79.9	
Car Stackers (Plate) D	Area	78.9	
Car Stackers (Plate) E	Area	80.2	
Car Stackers (Plate) F	Area	80.7	
Car Stackers (Plate) G	Area	82.2	
Car Stackers (Plate) H	Area	82.1	

Sportsmen's Lodge
Contribution level - Car Stackers

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 47.9 dB(A)			
Car Stackers (Motor) A	Area	38.6	
Car Stackers (Motor) B	Area	27.8	
Car Stackers (Motor) C	Area	26.7	
Car Stackers (Motor) D	Area	24.2	
Car Stackers (Motor) E	Area	25.4	
Car Stackers (Motor) G	Area	31.5	
Car Stackers (Motor) H	Area	46.2	
Car Stackers (Motor) F	Area	27.6	
Car Stackers (Plate) A	Area	36.9	
Car Stackers (Plate) B	Area	26.9	
Car Stackers (Plate) C	Area	25.5	
Car Stackers (Plate) D	Area	22.8	
Car Stackers (Plate) E	Area	23.9	
Car Stackers (Plate) G	Area	30.1	
Car Stackers (Plate) H	Area	32.9	
Car Stackers (Plate) F	Area	26.5	
Receiver R2 Leq,d 42.5 dB(A)			
Car Stackers (Motor) A	Area	30.9	
Car Stackers (Motor) B	Area	21.2	
Car Stackers (Motor) C	Area	20.3	
Car Stackers (Motor) D	Area	18.1	
Car Stackers (Motor) E	Area	13.2	
Car Stackers (Motor) G	Area	26.4	
Car Stackers (Motor) H	Area	41.6	
Car Stackers (Motor) F	Area	21.5	
Car Stackers (Plate) A	Area	26.1	
Car Stackers (Plate) B	Area	19.7	
Car Stackers (Plate) C	Area	18.6	
Car Stackers (Plate) D	Area	16.1	
Car Stackers (Plate) E	Area	8.0	
Car Stackers (Plate) G	Area	22.2	
Car Stackers (Plate) H	Area	26.9	
Car Stackers (Plate) F	Area	15.8	
Receiver R3 Leq,d 23.5 dB(A)			
Car Stackers (Motor) A	Area	19.1	
Car Stackers (Motor) B	Area	2.1	
Car Stackers (Motor) C	Area	1.9	
Car Stackers (Motor) D	Area	0.3	
Car Stackers (Motor) E	Area	1.1	

Sportsmen's Lodge
Contribution level - Car Stackers

Source	Source type	Leq,d dB(A)	
Car Stackers (Motor) G	Area	5.7	
Car Stackers (Motor) H	Area	20.2	
Car Stackers (Motor) F	Area	2.6	
Car Stackers (Plate) A	Area	11.6	
Car Stackers (Plate) B	Area	0.3	
Car Stackers (Plate) C	Area	0.1	
Car Stackers (Plate) D	Area	-1.7	
Car Stackers (Plate) E	Area	-1.3	
Car Stackers (Plate) G	Area	3.4	
Car Stackers (Plate) H	Area	6.0	
Car Stackers (Plate) F	Area	0.5	
Receiver R4 Leq,d 29.7 dB(A)			
Car Stackers (Motor) A	Area	18.5	
Car Stackers (Motor) B	Area	15.1	
Car Stackers (Motor) C	Area	16.7	
Car Stackers (Motor) D	Area	15.4	
Car Stackers (Motor) E	Area	11.8	
Car Stackers (Motor) G	Area	18.0	
Car Stackers (Motor) H	Area	27.6	
Car Stackers (Motor) F	Area	14.3	
Car Stackers (Plate) A	Area	13.9	
Car Stackers (Plate) B	Area	6.0	
Car Stackers (Plate) C	Area	7.4	
Car Stackers (Plate) D	Area	6.8	
Car Stackers (Plate) E	Area	2.6	
Car Stackers (Plate) G	Area	10.5	
Car Stackers (Plate) H	Area	12.6	
Car Stackers (Plate) F	Area	3.6	
Receiver R5 Leq,d 29.8 dB(A)			
Car Stackers (Motor) A	Area	17.7	
Car Stackers (Motor) B	Area	18.7	
Car Stackers (Motor) C	Area	13.7	
Car Stackers (Motor) D	Area	7.8	
Car Stackers (Motor) E	Area	7.2	
Car Stackers (Motor) G	Area	24.0	
Car Stackers (Motor) H	Area	25.1	
Car Stackers (Motor) F	Area	19.4	
Car Stackers (Plate) A	Area	11.3	
Car Stackers (Plate) B	Area	13.7	
Car Stackers (Plate) C	Area	8.7	

Sportsmen's Lodge
Contribution level - Car Stackers

Source	Source type	Leq,d dB(A)	
Car Stackers (Plate) D	Area	3.6	
Car Stackers (Plate) E	Area	2.6	
Car Stackers (Plate) G	Area	18.4	
Car Stackers (Plate) H	Area	8.9	
Car Stackers (Plate) F	Area	7.7	
Receiver R6 Leq,d 32.6 dB(A)			
Car Stackers (Motor) A	Area	20.8	
Car Stackers (Motor) B	Area	17.8	
Car Stackers (Motor) C	Area	19.5	
Car Stackers (Motor) D	Area	19.4	
Car Stackers (Motor) E	Area	20.7	
Car Stackers (Motor) G	Area	24.5	
Car Stackers (Motor) H	Area	28.1	
Car Stackers (Motor) F	Area	20.1	
Car Stackers (Plate) A	Area	17.8	
Car Stackers (Plate) B	Area	15.1	
Car Stackers (Plate) C	Area	16.7	
Car Stackers (Plate) D	Area	16.7	
Car Stackers (Plate) E	Area	12.1	
Car Stackers (Plate) G	Area	18.6	
Car Stackers (Plate) H	Area	12.1	
Car Stackers (Plate) F	Area	10.8	
Receiver R7 Leq,d 47.8 dB(A)			
Car Stackers (Motor) A	Area	37.4	
Car Stackers (Motor) B	Area	35.0	
Car Stackers (Motor) C	Area	33.2	
Car Stackers (Motor) D	Area	29.3	
Car Stackers (Motor) E	Area	29.9	
Car Stackers (Motor) G	Area	35.7	
Car Stackers (Motor) H	Area	44.1	
Car Stackers (Motor) F	Area	33.0	
Car Stackers (Plate) A	Area	36.0	
Car Stackers (Plate) B	Area	33.8	
Car Stackers (Plate) C	Area	32.2	
Car Stackers (Plate) D	Area	28.6	
Car Stackers (Plate) E	Area	29.1	
Car Stackers (Plate) G	Area	34.4	
Car Stackers (Plate) H	Area	32.7	
Car Stackers (Plate) F	Area	31.9	

Sportsmen's Lodge
Source Levels in dB(A) - Mechanical

3

Name	Source type	Lw dB(A)	
Mechanical Level 1	Point	90.0	
Mechanical Level 1	Point	90.0	
Mechanical Level 1	Point	90.0	
Mechanical Level 1	Point	90.0	
Mechanical Level 1	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 3	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	

Sportsmen's Lodge
Source Levels in dB(A) - Mechanical

Name	Source type	Lw dB(A)	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 6	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	

Sportsmen's Lodge
Source Levels in dB(A) - Mechanical

Name	Source type	Lw dB(A)	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	
Mechanical Level 7	Point	90.0	

Sportsmen's Lodge
Contribution level - Mechanical

Source	Source type	Leq,d dB(A)	
Receiver R1 Ldn 55.9 dB(A)			
Mechanical Level 1	Point	40.0	
Mechanical Level 1	Point	40.5	
Mechanical Level 1	Point	41.0	
Mechanical Level 1	Point	41.2	
Mechanical Level 1	Point	42.1	
Mechanical Level 3	Point	27.7	
Mechanical Level 3	Point	28.5	
Mechanical Level 3	Point	28.7	
Mechanical Level 3	Point	28.6	
Mechanical Level 3	Point	28.5	
Mechanical Level 3	Point	24.8	
Mechanical Level 3	Point	29.1	
Mechanical Level 3	Point	29.1	
Mechanical Level 3	Point	26.7	
Mechanical Level 3	Point	26.8	
Mechanical Level 3	Point	26.8	
Mechanical Level 3	Point	28.5	
Mechanical Level 3	Point	22.6	
Mechanical Level 3	Point	22.9	
Mechanical Level 3	Point	23.1	
Mechanical Level 3	Point	23.2	
Mechanical Level 3	Point	23.2	
Mechanical Level 3	Point	22.1	
Mechanical Level 3	Point	30.8	
Mechanical Level 3	Point	30.8	
Mechanical Level 3	Point	15.9	
Mechanical Level 3	Point	21.3	
Mechanical Level 3	Point	19.7	
Mechanical Level 6	Point	12.5	
Mechanical Level 6	Point	12.6	
Mechanical Level 6	Point	12.3	
Mechanical Level 6	Point	12.0	
Mechanical Level 6	Point	11.9	
Mechanical Level 6	Point	13.5	
Mechanical Level 6	Point	13.4	
Mechanical Level 6	Point	13.2	
Mechanical Level 6	Point	13.0	
Mechanical Level 6	Point	12.8	
Mechanical Level 6	Point	11.7	
Mechanical Level 6	Point	11.1	

Sportsmen's Lodge
Contribution level - Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical Level 6	Point	11.1	
Mechanical Level 6	Point	11.0	
Mechanical Level 6	Point	10.9	
Mechanical Level 6	Point	13.6	
Mechanical Level 6	Point	12.2	
Mechanical Level 6	Point	11.6	
Mechanical Level 6	Point	11.4	
Mechanical Level 6	Point	11.3	
Mechanical Level 6	Point	11.3	
Mechanical Level 6	Point	17.1	
Mechanical Level 6	Point	18.4	
Mechanical Level 6	Point	14.9	
Mechanical Level 6	Point	15.1	
Mechanical Level 7	Point	17.0	
Mechanical Level 7	Point	16.5	
Mechanical Level 7	Point	16.8	
Mechanical Level 7	Point	16.6	
Mechanical Level 7	Point	17.1	
Mechanical Level 7	Point	17.0	
Mechanical Level 7	Point	16.7	
Mechanical Level 7	Point	16.6	
Mechanical Level 7	Point	28.8	
Mechanical Level 7	Point	26.3	
Mechanical Level 7	Point	26.4	
Mechanical Level 7	Point	26.1	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	16.2	
Mechanical Level 7	Point	16.7	
Mechanical Level 7	Point	18.5	
Mechanical Level 7	Point	23.6	
Mechanical Level 7	Point	23.4	
Mechanical Level 7	Point	23.5	
Mechanical Level 7	Point	23.3	
Mechanical Level 7	Point	24.8	
Mechanical Level 7	Point	23.5	
Mechanical Level 7	Point	21.4	
Mechanical Level 7	Point	23.5	
Mechanical Level 7	Point	23.5	
Mechanical Level 7	Point	18.1	
Mechanical Level 7	Point	17.7	
Mechanical Level 7	Point	17.3	

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	23.4	
Mechanical Level 7	Point	23.7	
Mechanical Level 7	Point	23.8	
Mechanical Level 7	Point	23.7	
Mechanical Level 7	Point	13.1	
Mechanical Level 7	Point	12.2	
Mechanical Level 7	Point	12.3	
Mechanical Level 7	Point	12.3	
Mechanical Level 7	Point	13.4	
Mechanical Level 7	Point	13.5	
Mechanical Level 7	Point	13.5	
Mechanical Level 7	Point	13.6	
Mechanical Level 7	Point	16.3	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	16.6	
Mechanical Level 7	Point	12.8	
Mechanical Level 7	Point	12.5	
Mechanical Level 7	Point	12.7	
Mechanical Level 7	Point	15.8	
Mechanical Level 7	Point	16.1	
Mechanical Level 7	Point	21.5	
Mechanical Level 7	Point	21.6	
Mechanical Level 7	Point	23.6	
Mechanical Level 7	Point	19.2	
Mechanical Level 7	Point	26.5	
Mechanical Level 7	Point	26.6	
Mechanical Level 7	Point	26.6	
Mechanical Level 7	Point	26.4	
Mechanical Level 7	Point	18.8	
Mechanical Level 7	Point	18.1	
Mechanical Level 7	Point	15.9	
Mechanical Level 7	Point	15.8	
Mechanical Level 7	Point	19.3	
Mechanical Level 7	Point	19.3	
Mechanical Level 7	Point	19.3	
Mechanical Level 7	Point	19.1	
Receiver R2 Ldn 54.3 dB(A)			
Mechanical Level 1	Point	37.4	
Mechanical Level 1	Point	37.7	
Mechanical Level 1	Point	38.0	
Mechanical Level 1	Point	38.4	

Source	Source type	Leq,d dB(A)	
Mechanical Level 1	Point	38.6	
Mechanical Level 3	Point	25.7	
Mechanical Level 3	Point	27.0	
Mechanical Level 3	Point	27.7	
Mechanical Level 3	Point	28.0	
Mechanical Level 3	Point	28.1	
Mechanical Level 3	Point	23.3	
Mechanical Level 3	Point	21.6	
Mechanical Level 3	Point	21.5	
Mechanical Level 3	Point	19.1	
Mechanical Level 3	Point	24.3	
Mechanical Level 3	Point	24.4	
Mechanical Level 3	Point	28.1	
Mechanical Level 3	Point	25.2	
Mechanical Level 3	Point	25.0	
Mechanical Level 3	Point	24.9	
Mechanical Level 3	Point	24.7	
Mechanical Level 3	Point	24.6	
Mechanical Level 3	Point	25.3	
Mechanical Level 3	Point	30.2	
Mechanical Level 3	Point	30.4	
Mechanical Level 3	Point	19.1	
Mechanical Level 3	Point	24.7	
Mechanical Level 3	Point	23.0	
Mechanical Level 6	Point	24.1	
Mechanical Level 6	Point	24.2	
Mechanical Level 6	Point	24.1	
Mechanical Level 6	Point	24.0	
Mechanical Level 6	Point	24.0	
Mechanical Level 6	Point	24.4	
Mechanical Level 6	Point	24.3	
Mechanical Level 6	Point	24.3	
Mechanical Level 6	Point	24.3	
Mechanical Level 6	Point	24.2	
Mechanical Level 6	Point	23.9	
Mechanical Level 6	Point	18.2	
Mechanical Level 6	Point	18.0	
Mechanical Level 6	Point	17.9	
Mechanical Level 6	Point	18.6	
Mechanical Level 6	Point	16.4	
Mechanical Level 6	Point	24.1	

Sportsmen's Lodge
Contribution level - Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical Level 6	Point	23.9	
Mechanical Level 6	Point	23.9	
Mechanical Level 6	Point	23.8	
Mechanical Level 6	Point	18.4	
Mechanical Level 6	Point	21.7	
Mechanical Level 6	Point	23.2	
Mechanical Level 6	Point	24.3	
Mechanical Level 6	Point	23.9	
Mechanical Level 7	Point	22.9	
Mechanical Level 7	Point	23.1	
Mechanical Level 7	Point	22.8	
Mechanical Level 7	Point	18.8	
Mechanical Level 7	Point	23.8	
Mechanical Level 7	Point	23.6	
Mechanical Level 7	Point	23.4	
Mechanical Level 7	Point	23.3	
Mechanical Level 7	Point	26.6	
Mechanical Level 7	Point	26.7	
Mechanical Level 7	Point	24.5	
Mechanical Level 7	Point	24.6	
Mechanical Level 7	Point	18.4	
Mechanical Level 7	Point	18.0	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	19.7	
Mechanical Level 7	Point	26.5	
Mechanical Level 7	Point	26.4	
Mechanical Level 7	Point	26.4	
Mechanical Level 7	Point	23.3	
Mechanical Level 7	Point	26.5	
Mechanical Level 7	Point	26.5	
Mechanical Level 7	Point	24.7	
Mechanical Level 7	Point	26.4	
Mechanical Level 7	Point	24.3	
Mechanical Level 7	Point	24.2	
Mechanical Level 7	Point	24.1	
Mechanical Level 7	Point	23.9	
Mechanical Level 7	Point	23.4	
Mechanical Level 7	Point	24.0	
Mechanical Level 7	Point	24.3	
Mechanical Level 7	Point	24.3	
Mechanical Level 7	Point	16.2	

Sportsmen's Lodge
Contribution level - Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	16.3	
Mechanical Level 7	Point	16.3	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	16.2	
Mechanical Level 7	Point	16.2	
Mechanical Level 7	Point	16.2	
Mechanical Level 7	Point	16.2	
Mechanical Level 7	Point	18.6	
Mechanical Level 7	Point	18.6	
Mechanical Level 7	Point	18.6	
Mechanical Level 7	Point	18.1	
Mechanical Level 7	Point	16.8	
Mechanical Level 7	Point	17.2	
Mechanical Level 7	Point	17.6	
Mechanical Level 7	Point	18.0	
Mechanical Level 7	Point	20.5	
Mechanical Level 7	Point	21.1	
Mechanical Level 7	Point	21.1	
Mechanical Level 7	Point	18.9	
Mechanical Level 7	Point	24.6	
Mechanical Level 7	Point	24.5	
Mechanical Level 7	Point	24.2	
Mechanical Level 7	Point	23.3	
Mechanical Level 7	Point	18.5	
Mechanical Level 7	Point	17.7	
Mechanical Level 7	Point	15.6	
Mechanical Level 7	Point	16.2	
Mechanical Level 7	Point	19.0	
Mechanical Level 7	Point	19.0	
Mechanical Level 7	Point	19.0	
Mechanical Level 7	Point	18.9	
Receiver R3 Ldn 42.7 dB(A)			
Mechanical Level 1	Point	21.4	
Mechanical Level 1	Point	21.7	
Mechanical Level 1	Point	22.0	
Mechanical Level 1	Point	22.3	
Mechanical Level 1	Point	22.7	
Mechanical Level 3	Point	15.1	
Mechanical Level 3	Point	15.6	
Mechanical Level 3	Point	15.5	
Mechanical Level 3	Point	15.3	

Source	Source type	Leq,d dB(A)	
Mechanical Level 3	Point	15.2	
Mechanical Level 3	Point	12.9	
Mechanical Level 3	Point	11.8	
Mechanical Level 3	Point	11.8	
Mechanical Level 3	Point	9.5	
Mechanical Level 3	Point	6.9	
Mechanical Level 3	Point	7.0	
Mechanical Level 3	Point	15.1	
Mechanical Level 3	Point	7.8	
Mechanical Level 3	Point	7.6	
Mechanical Level 3	Point	7.2	
Mechanical Level 3	Point	7.1	
Mechanical Level 3	Point	7.1	
Mechanical Level 3	Point	7.7	
Mechanical Level 3	Point	14.9	
Mechanical Level 3	Point	18.8	
Mechanical Level 3	Point	9.4	
Mechanical Level 3	Point	11.4	
Mechanical Level 3	Point	9.2	
Mechanical Level 6	Point	14.4	
Mechanical Level 6	Point	14.5	
Mechanical Level 6	Point	14.3	
Mechanical Level 6	Point	14.1	
Mechanical Level 6	Point	14.0	
Mechanical Level 6	Point	14.9	
Mechanical Level 6	Point	14.9	
Mechanical Level 6	Point	14.8	
Mechanical Level 6	Point	14.7	
Mechanical Level 6	Point	14.6	
Mechanical Level 6	Point	13.9	
Mechanical Level 6	Point	13.4	
Mechanical Level 6	Point	13.3	
Mechanical Level 6	Point	13.2	
Mechanical Level 6	Point	15.5	
Mechanical Level 6	Point	15.5	
Mechanical Level 6	Point	14.2	
Mechanical Level 6	Point	13.8	
Mechanical Level 6	Point	13.7	
Mechanical Level 6	Point	13.6	
Mechanical Level 6	Point	13.5	
Mechanical Level 6	Point	13.7	

Sportsmen's Lodge
Contribution level - Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical Level 6	Point	14.6	
Mechanical Level 6	Point	14.9	
Mechanical Level 6	Point	14.8	
Mechanical Level 7	Point	14.6	
Mechanical Level 7	Point	14.7	
Mechanical Level 7	Point	14.5	
Mechanical Level 7	Point	14.3	
Mechanical Level 7	Point	15.1	
Mechanical Level 7	Point	15.0	
Mechanical Level 7	Point	14.9	
Mechanical Level 7	Point	14.8	
Mechanical Level 7	Point	17.0	
Mechanical Level 7	Point	14.7	
Mechanical Level 7	Point	14.8	
Mechanical Level 7	Point	14.9	
Mechanical Level 7	Point	14.2	
Mechanical Level 7	Point	14.1	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	15.0	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	15.0	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	15.5	
Mechanical Level 7	Point	15.5	
Mechanical Level 7	Point	15.4	
Mechanical Level 7	Point	15.2	
Mechanical Level 7	Point	15.0	
Mechanical Level 7	Point	15.4	
Mechanical Level 7	Point	15.6	
Mechanical Level 7	Point	15.6	
Mechanical Level 7	Point	14.2	
Mechanical Level 7	Point	14.1	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	14.8	
Mechanical Level 7	Point	14.8	

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	14.5	
Mechanical Level 7	Point	14.4	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	12.2	
Mechanical Level 7	Point	15.4	
Mechanical Level 7	Point	15.3	
Mechanical Level 7	Point	13.2	
Mechanical Level 7	Point	15.0	
Mechanical Level 7	Point	15.1	
Mechanical Level 7	Point	15.2	
Mechanical Level 7	Point	14.5	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	13.5	
Mechanical Level 7	Point	12.2	
Mechanical Level 7	Point	14.8	
Mechanical Level 7	Point	13.4	
Mechanical Level 7	Point	13.8	
Mechanical Level 7	Point	13.9	
Mechanical Level 7	Point	14.0	
Receiver R4 Ldn 51.2 dB(A)			
Mechanical Level 1	Point	29.7	
Mechanical Level 1	Point	29.7	
Mechanical Level 1	Point	29.8	
Mechanical Level 1	Point	29.8	
Mechanical Level 1	Point	29.8	
Mechanical Level 3	Point	26.7	
Mechanical Level 3	Point	26.7	
Mechanical Level 3	Point	26.6	
Mechanical Level 3	Point	26.5	
Mechanical Level 3	Point	26.4	
Mechanical Level 3	Point	23.6	
Mechanical Level 3	Point	12.0	
Mechanical Level 3	Point	9.5	
Mechanical Level 3	Point	9.6	

Source	Source type	Leq,d dB(A)	
Mechanical Level 3	Point	9.6	
Mechanical Level 3	Point	7.1	
Mechanical Level 3	Point	26.4	
Mechanical Level 3	Point	10.3	
Mechanical Level 3	Point	10.2	
Mechanical Level 3	Point	10.2	
Mechanical Level 3	Point	10.1	
Mechanical Level 3	Point	7.2	
Mechanical Level 3	Point	10.2	
Mechanical Level 3	Point	24.9	
Mechanical Level 3	Point	18.1	
Mechanical Level 3	Point	7.5	
Mechanical Level 3	Point	10.2	
Mechanical Level 3	Point	10.3	
Mechanical Level 6	Point	24.9	
Mechanical Level 6	Point	25.0	
Mechanical Level 6	Point	24.9	
Mechanical Level 6	Point	24.8	
Mechanical Level 6	Point	24.7	
Mechanical Level 6	Point	25.2	
Mechanical Level 6	Point	25.2	
Mechanical Level 6	Point	25.1	
Mechanical Level 6	Point	25.1	
Mechanical Level 6	Point	25.0	
Mechanical Level 6	Point	24.7	
Mechanical Level 6	Point	24.4	
Mechanical Level 6	Point	24.4	
Mechanical Level 6	Point	24.3	
Mechanical Level 6	Point	27.0	
Mechanical Level 6	Point	26.9	
Mechanical Level 6	Point	24.8	
Mechanical Level 6	Point	24.6	
Mechanical Level 6	Point	24.6	
Mechanical Level 6	Point	24.5	
Mechanical Level 6	Point	24.5	
Mechanical Level 6	Point	23.9	
Mechanical Level 6	Point	25.4	
Mechanical Level 6	Point	25.3	
Mechanical Level 6	Point	25.4	
Mechanical Level 7	Point	23.8	
Mechanical Level 7	Point	23.8	

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	23.7	
Mechanical Level 7	Point	23.7	
Mechanical Level 7	Point	24.0	
Mechanical Level 7	Point	24.0	
Mechanical Level 7	Point	23.9	
Mechanical Level 7	Point	23.9	
Mechanical Level 7	Point	21.3	
Mechanical Level 7	Point	19.8	
Mechanical Level 7	Point	23.0	
Mechanical Level 7	Point	23.1	
Mechanical Level 7	Point	19.6	
Mechanical Level 7	Point	19.5	
Mechanical Level 7	Point	19.4	
Mechanical Level 7	Point	21.9	
Mechanical Level 7	Point	26.9	
Mechanical Level 7	Point	23.9	
Mechanical Level 7	Point	23.9	
Mechanical Level 7	Point	24.0	
Mechanical Level 7	Point	26.9	
Mechanical Level 7	Point	29.3	
Mechanical Level 7	Point	29.3	
Mechanical Level 7	Point	26.9	
Mechanical Level 7	Point	24.2	
Mechanical Level 7	Point	24.1	
Mechanical Level 7	Point	24.1	
Mechanical Level 7	Point	24.0	
Mechanical Level 7	Point	24.0	
Mechanical Level 7	Point	24.3	
Mechanical Level 7	Point	24.2	
Mechanical Level 7	Point	24.2	
Mechanical Level 7	Point	21.1	
Mechanical Level 7	Point	20.9	
Mechanical Level 7	Point	20.7	
Mechanical Level 7	Point	20.3	
Mechanical Level 7	Point	21.5	
Mechanical Level 7	Point	21.5	
Mechanical Level 7	Point	21.4	
Mechanical Level 7	Point	21.3	
Mechanical Level 7	Point	19.6	
Mechanical Level 7	Point	19.5	
Mechanical Level 7	Point	19.4	

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	21.7	
Mechanical Level 7	Point	20.1	
Mechanical Level 7	Point	20.0	
Mechanical Level 7	Point	19.8	
Mechanical Level 7	Point	19.7	
Mechanical Level 7	Point	18.5	
Mechanical Level 7	Point	18.3	
Mechanical Level 7	Point	15.8	
Mechanical Level 7	Point	15.8	
Mechanical Level 7	Point	24.4	
Mechanical Level 7	Point	24.4	
Mechanical Level 7	Point	24.5	
Mechanical Level 7	Point	24.1	
Mechanical Level 7	Point	16.2	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	15.2	
Mechanical Level 7	Point	18.0	
Mechanical Level 7	Point	15.8	
Mechanical Level 7	Point	15.8	
Mechanical Level 7	Point	15.9	
Mechanical Level 7	Point	16.0	
Receiver R5 Ldn 52.9 dB(A)			
Mechanical Level 1	Point	29.6	
Mechanical Level 1	Point	29.6	
Mechanical Level 1	Point	29.6	
Mechanical Level 1	Point	29.5	
Mechanical Level 1	Point	29.5	
Mechanical Level 3	Point	16.5	
Mechanical Level 3	Point	15.2	
Mechanical Level 3	Point	14.7	
Mechanical Level 3	Point	14.4	
Mechanical Level 3	Point	14.3	
Mechanical Level 3	Point	22.9	
Mechanical Level 3	Point	11.9	
Mechanical Level 3	Point	11.9	
Mechanical Level 3	Point	11.9	
Mechanical Level 3	Point	9.5	
Mechanical Level 3	Point	9.5	
Mechanical Level 3	Point	13.2	
Mechanical Level 3	Point	9.5	
Mechanical Level 3	Point	9.5	

Source	Source type	Leq,d dB(A)	
Mechanical Level 3	Point	9.5	
Mechanical Level 3	Point	9.5	
Mechanical Level 3	Point	9.5	
Mechanical Level 3	Point	11.9	
Mechanical Level 3	Point	16.4	
Mechanical Level 3	Point	12.7	
Mechanical Level 3	Point	11.9	
Mechanical Level 3	Point	11.9	
Mechanical Level 3	Point	11.9	
Mechanical Level 6	Point	30.4	
Mechanical Level 6	Point	30.4	
Mechanical Level 6	Point	30.4	
Mechanical Level 6	Point	30.3	
Mechanical Level 6	Point	30.2	
Mechanical Level 6	Point	30.6	
Mechanical Level 6	Point	30.6	
Mechanical Level 6	Point	30.5	
Mechanical Level 6	Point	30.5	
Mechanical Level 6	Point	30.5	
Mechanical Level 6	Point	30.1	
Mechanical Level 6	Point	29.8	
Mechanical Level 6	Point	29.8	
Mechanical Level 6	Point	29.7	
Mechanical Level 6	Point	29.7	
Mechanical Level 6	Point	31.2	
Mechanical Level 6	Point	30.3	
Mechanical Level 6	Point	30.1	
Mechanical Level 6	Point	30.0	
Mechanical Level 6	Point	30.0	
Mechanical Level 6	Point	29.9	
Mechanical Level 6	Point	30.6	
Mechanical Level 6	Point	30.6	
Mechanical Level 6	Point	30.6	
Mechanical Level 6	Point	30.6	
Mechanical Level 7	Point	20.9	
Mechanical Level 7	Point	20.9	
Mechanical Level 7	Point	20.9	
Mechanical Level 7	Point	20.8	
Mechanical Level 7	Point	21.0	
Mechanical Level 7	Point	21.0	
Mechanical Level 7	Point	21.0	

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	20.9	
Mechanical Level 7	Point	17.6	
Mechanical Level 7	Point	17.6	
Mechanical Level 7	Point	17.7	
Mechanical Level 7	Point	17.7	
Mechanical Level 7	Point	20.8	
Mechanical Level 7	Point	20.8	
Mechanical Level 7	Point	20.8	
Mechanical Level 7	Point	23.3	
Mechanical Level 7	Point	25.9	
Mechanical Level 7	Point	26.3	
Mechanical Level 7	Point	26.2	
Mechanical Level 7	Point	26.0	
Mechanical Level 7	Point	25.7	
Mechanical Level 7	Point	27.7	
Mechanical Level 7	Point	27.7	
Mechanical Level 7	Point	26.1	
Mechanical Level 7	Point	21.7	
Mechanical Level 7	Point	21.0	
Mechanical Level 7	Point	21.0	
Mechanical Level 7	Point	21.0	
Mechanical Level 7	Point	26.3	
Mechanical Level 7	Point	26.0	
Mechanical Level 7	Point	26.0	
Mechanical Level 7	Point	26.0	
Mechanical Level 7	Point	20.3	
Mechanical Level 7	Point	20.1	
Mechanical Level 7	Point	19.9	
Mechanical Level 7	Point	19.6	
Mechanical Level 7	Point	21.3	
Mechanical Level 7	Point	21.1	
Mechanical Level 7	Point	20.8	
Mechanical Level 7	Point	20.6	
Mechanical Level 7	Point	18.1	
Mechanical Level 7	Point	17.9	
Mechanical Level 7	Point	19.9	
Mechanical Level 7	Point	19.9	
Mechanical Level 7	Point	19.4	
Mechanical Level 7	Point	19.2	
Mechanical Level 7	Point	18.9	
Mechanical Level 7	Point	18.3	

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	18.8	
Mechanical Level 7	Point	16.2	
Mechanical Level 7	Point	16.1	
Mechanical Level 7	Point	16.1	
Mechanical Level 7	Point	17.7	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	17.8	
Mechanical Level 7	Point	18.0	
Mechanical Level 7	Point	16.0	
Mechanical Level 7	Point	16.0	
Mechanical Level 7	Point	16.0	
Mechanical Level 7	Point	20.3	
Mechanical Level 7	Point	16.1	
Mechanical Level 7	Point	16.1	
Mechanical Level 7	Point	16.1	
Mechanical Level 7	Point	16.1	
Receiver R6 Ldn 51.8 dB(A)			
Mechanical Level 1	Point	8.2	
Mechanical Level 1	Point	7.6	
Mechanical Level 1	Point	8.3	
Mechanical Level 1	Point	8.5	
Mechanical Level 1	Point	8.7	
Mechanical Level 3	Point	11.8	
Mechanical Level 3	Point	10.4	
Mechanical Level 3	Point	10.4	
Mechanical Level 3	Point	10.4	
Mechanical Level 3	Point	10.5	
Mechanical Level 3	Point	12.8	
Mechanical Level 3	Point	20.4	
Mechanical Level 3	Point	24.2	
Mechanical Level 3	Point	25.7	
Mechanical Level 3	Point	26.6	
Mechanical Level 3	Point	18.0	
Mechanical Level 3	Point	10.5	
Mechanical Level 3	Point	12.8	
Mechanical Level 3	Point	13.0	
Mechanical Level 3	Point	13.2	
Mechanical Level 3	Point	9.9	
Mechanical Level 3	Point	10.0	
Mechanical Level 3	Point	12.3	
Mechanical Level 3	Point	10.7	

Source	Source type	Leq,d dB(A)	
Mechanical Level 3	Point	7.9	
Mechanical Level 3	Point	14.5	
Mechanical Level 3	Point	12.2	
Mechanical Level 3	Point	13.4	
Mechanical Level 6	Point	28.0	
Mechanical Level 6	Point	27.9	
Mechanical Level 6	Point	28.1	
Mechanical Level 6	Point	28.3	
Mechanical Level 6	Point	28.4	
Mechanical Level 6	Point	27.5	
Mechanical Level 6	Point	27.6	
Mechanical Level 6	Point	27.7	
Mechanical Level 6	Point	27.7	
Mechanical Level 6	Point	27.8	
Mechanical Level 6	Point	28.4	
Mechanical Level 6	Point	29.0	
Mechanical Level 6	Point	29.1	
Mechanical Level 6	Point	29.2	
Mechanical Level 6	Point	29.2	
Mechanical Level 6	Point	28.2	
Mechanical Level 6	Point	28.2	
Mechanical Level 6	Point	28.5	
Mechanical Level 6	Point	28.6	
Mechanical Level 6	Point	28.8	
Mechanical Level 6	Point	28.9	
Mechanical Level 6	Point	29.7	
Mechanical Level 6	Point	29.7	
Mechanical Level 6	Point	27.4	
Mechanical Level 6	Point	27.4	
Mechanical Level 7	Point	20.9	
Mechanical Level 7	Point	20.7	
Mechanical Level 7	Point	21.2	
Mechanical Level 7	Point	21.4	
Mechanical Level 7	Point	20.2	
Mechanical Level 7	Point	20.3	
Mechanical Level 7	Point	20.3	
Mechanical Level 7	Point	20.4	
Mechanical Level 7	Point	14.7	
Mechanical Level 7	Point	16.7	
Mechanical Level 7	Point	16.8	
Mechanical Level 7	Point	16.8	

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	21.6	
Mechanical Level 7	Point	21.9	
Mechanical Level 7	Point	22.4	
Mechanical Level 7	Point	21.4	
Mechanical Level 7	Point	21.0	
Mechanical Level 7	Point	22.6	
Mechanical Level 7	Point	22.6	
Mechanical Level 7	Point	22.1	
Mechanical Level 7	Point	20.8	
Mechanical Level 7	Point	22.3	
Mechanical Level 7	Point	22.2	
Mechanical Level 7	Point	21.2	
Mechanical Level 7	Point	20.0	
Mechanical Level 7	Point	20.0	
Mechanical Level 7	Point	20.1	
Mechanical Level 7	Point	20.1	
Mechanical Level 7	Point	22.5	
Mechanical Level 7	Point	19.8	
Mechanical Level 7	Point	19.9	
Mechanical Level 7	Point	19.9	
Mechanical Level 7	Point	27.2	
Mechanical Level 7	Point	27.1	
Mechanical Level 7	Point	27.0	
Mechanical Level 7	Point	27.0	
Mechanical Level 7	Point	27.3	
Mechanical Level 7	Point	27.5	
Mechanical Level 7	Point	27.4	
Mechanical Level 7	Point	27.3	
Mechanical Level 7	Point	26.6	
Mechanical Level 7	Point	26.5	
Mechanical Level 7	Point	28.9	
Mechanical Level 7	Point	28.9	
Mechanical Level 7	Point	26.9	
Mechanical Level 7	Point	26.8	
Mechanical Level 7	Point	26.7	
Mechanical Level 7	Point	26.6	
Mechanical Level 7	Point	19.7	
Mechanical Level 7	Point	17.3	
Mechanical Level 7	Point	18.9	
Mechanical Level 7	Point	19.3	
Mechanical Level 7	Point	16.7	

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	16.7	
Mechanical Level 7	Point	16.7	
Mechanical Level 7	Point	16.8	
Mechanical Level 7	Point	17.7	
Mechanical Level 7	Point	17.4	
Mechanical Level 7	Point	19.5	
Mechanical Level 7	Point	26.3	
Mechanical Level 7	Point	19.0	
Mechanical Level 7	Point	18.6	
Mechanical Level 7	Point	18.3	
Mechanical Level 7	Point	18.0	
Receiver R7 Ldn 54.4 dB(A)			
Mechanical Level 1	Point	29.5	
Mechanical Level 1	Point	30.6	
Mechanical Level 1	Point	31.8	
Mechanical Level 1	Point	35.7	
Mechanical Level 1	Point	35.5	
Mechanical Level 3	Point	32.6	
Mechanical Level 3	Point	32.6	
Mechanical Level 3	Point	32.7	
Mechanical Level 3	Point	32.7	
Mechanical Level 3	Point	32.8	
Mechanical Level 3	Point	35.0	
Mechanical Level 3	Point	30.6	
Mechanical Level 3	Point	32.5	
Mechanical Level 3	Point	31.1	
Mechanical Level 3	Point	31.3	
Mechanical Level 3	Point	28.7	
Mechanical Level 3	Point	32.8	
Mechanical Level 3	Point	31.8	
Mechanical Level 3	Point	31.7	
Mechanical Level 3	Point	31.6	
Mechanical Level 3	Point	31.5	
Mechanical Level 3	Point	31.5	
Mechanical Level 3	Point	31.8	
Mechanical Level 3	Point	32.9	
Mechanical Level 3	Point	32.8	
Mechanical Level 3	Point	26.5	
Mechanical Level 3	Point	31.9	
Mechanical Level 3	Point	31.7	
Mechanical Level 6	Point	13.8	

Source	Source type	Leq,d dB(A)
Mechanical Level 6	Point	13.6
Mechanical Level 6	Point	14.0
Mechanical Level 6	Point	13.9
Mechanical Level 6	Point	13.9
Mechanical Level 6	Point	13.7
Mechanical Level 6	Point	13.7
Mechanical Level 6	Point	13.7
Mechanical Level 6	Point	13.6
Mechanical Level 6	Point	13.6
Mechanical Level 6	Point	13.9
Mechanical Level 6	Point	13.6
Mechanical Level 6	Point	13.5
Mechanical Level 6	Point	13.4
Mechanical Level 6	Point	13.3
Mechanical Level 6	Point	13.3
Mechanical Level 6	Point	14.0
Mechanical Level 6	Point	13.9
Mechanical Level 6	Point	13.8
Mechanical Level 6	Point	13.7
Mechanical Level 6	Point	13.7
Mechanical Level 6	Point	13.8
Mechanical Level 6	Point	13.8
Mechanical Level 6	Point	13.8
Mechanical Level 6	Point	13.8
Mechanical Level 7	Point	17.7
Mechanical Level 7	Point	17.4
Mechanical Level 7	Point	17.7
Mechanical Level 7	Point	17.7
Mechanical Level 7	Point	17.2
Mechanical Level 7	Point	17.1
Mechanical Level 7	Point	17.1
Mechanical Level 7	Point	17.0
Mechanical Level 7	Point	27.8
Mechanical Level 7	Point	27.8
Mechanical Level 7	Point	27.8
Mechanical Level 7	Point	28.5
Mechanical Level 7	Point	17.6
Mechanical Level 7	Point	17.5
Mechanical Level 7	Point	17.4
Mechanical Level 7	Point	17.3
Mechanical Level 7	Point	16.7

Sportsmen's Lodge
Contribution level - Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	16.3	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	18.2	
Mechanical Level 7	Point	16.7	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	15.4	
Mechanical Level 7	Point	16.6	
Mechanical Level 7	Point	17.3	
Mechanical Level 7	Point	17.3	
Mechanical Level 7	Point	17.3	
Mechanical Level 7	Point	17.2	
Mechanical Level 7	Point	16.1	
Mechanical Level 7	Point	18.1	
Mechanical Level 7	Point	17.6	
Mechanical Level 7	Point	17.4	
Mechanical Level 7	Point	15.1	
Mechanical Level 7	Point	15.3	
Mechanical Level 7	Point	15.6	
Mechanical Level 7	Point	15.8	
Mechanical Level 7	Point	16.3	
Mechanical Level 7	Point	14.4	
Mechanical Level 7	Point	14.6	
Mechanical Level 7	Point	14.8	
Mechanical Level 7	Point	17.3	
Mechanical Level 7	Point	17.3	
Mechanical Level 7	Point	17.0	
Mechanical Level 7	Point	15.7	
Mechanical Level 7	Point	16.1	
Mechanical Level 7	Point	16.4	
Mechanical Level 7	Point	16.7	
Mechanical Level 7	Point	17.0	
Mechanical Level 7	Point	27.8	
Mechanical Level 7	Point	27.5	
Mechanical Level 7	Point	25.1	
Mechanical Level 7	Point	25.1	
Mechanical Level 7	Point	28.5	
Mechanical Level 7	Point	27.8	
Mechanical Level 7	Point	27.8	
Mechanical Level 7	Point	28.1	
Mechanical Level 7	Point	25.5	
Mechanical Level 7	Point	25.6	

Sportsmen's Lodge
Contribution level - Mechanical

Source	Source type	Leq,d dB(A)	
Mechanical Level 7	Point	24.9	
Mechanical Level 7	Point	16.3	
Mechanical Level 7	Point	25.2	
Mechanical Level 7	Point	25.3	
Mechanical Level 7	Point	25.4	
Mechanical Level 7	Point	25.4	

Sportsmen's Lodge
Source Levels in dB(A) - People

Name	Source type	Lw dB(A)	
Level 1 Open Air Plaza	Area	97.8	
Level 1 Open Space Building 1 N	Area	90.6	
Level 1 Open Space Building 1 South	Area	88.3	
Level 1 Open Space Building 2 SW	Area	86.7	
Level 1 Open Space Building 2 W	Area	87.7	
Level 1 Open Space Building 3	Area	91.2	
Level 1 Residential Courtyard	Area	99.6	
Level 3 Amenity Deck	Area	89.9	
Level 7 Pool Deck	Area	95.1	
Level P1 Open Space East	Area	92.5	
Level P1 Open Space West	Area	90.9	

Sportsmen's Lodge
Contribution level - People

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 52.8 dB(A)			
Level 1 Open Air Plaza	Area	24.3	
Level 1 Open Space Building 1 N	Area	26.1	
Level 1 Open Space Building 1 South	Area	5.0	
Level 1 Open Space Building 2 SW	Area	35.6	
Level 1 Open Space Building 2 W	Area	42.8	
Level 1 Open Space Building 3	Area	48.7	
Level 1 Residential Courtyard	Area	28.4	
Level 3 Amenity Deck	Area	33.0	
Level 7 Pool Deck	Area	34.7	
Level P1 Open Space East	Area	45.2	
Level P1 Open Space West	Area	47.4	
Receiver R2 Leq,d 47.2 dB(A)			
Level 1 Open Air Plaza	Area	27.6	
Level 1 Open Space Building 1 N	Area	25.7	
Level 1 Open Space Building 1 South	Area	14.4	
Level 1 Open Space Building 2 SW	Area	33.7	
Level 1 Open Space Building 2 W	Area	24.8	
Level 1 Open Space Building 3	Area	46.4	
Level 1 Residential Courtyard	Area	23.3	
Level 3 Amenity Deck	Area	15.6	
Level 7 Pool Deck	Area	35.8	
Level P1 Open Space East	Area	15.8	
Level P1 Open Space West	Area	30.3	
Receiver R3 Leq,d 35.2 dB(A)			
Level 1 Open Air Plaza	Area	24.0	
Level 1 Open Space Building 1 N	Area	13.3	
Level 1 Open Space Building 1 South	Area	17.4	
Level 1 Open Space Building 2 SW	Area	13.1	
Level 1 Open Space Building 2 W	Area	14.1	
Level 1 Open Space Building 3	Area	33.8	
Level 1 Residential Courtyard	Area	23.0	
Level 3 Amenity Deck	Area	10.4	
Level 7 Pool Deck	Area	23.0	
Level P1 Open Space East	Area	11.0	
Level P1 Open Space West	Area	19.1	
Receiver R4 Leq,d 40.5 dB(A)			
Level 1 Open Air Plaza	Area	37.9	
Level 1 Open Space Building 1 N	Area	16.3	
Level 1 Open Space Building 1 South	Area	25.6	

Sportsmen's Lodge
Contribution level - People

Source	Source type	Leq,d dB(A)	
Level 1 Open Space Building 2 SW	Area	24.6	
Level 1 Open Space Building 2 W	Area	24.0	
Level 1 Open Space Building 3	Area	27.1	
Level 1 Residential Courtyard	Area	28.0	
Level 3 Amenity Deck	Area	7.5	
Level 7 Pool Deck	Area	34.7	
Level P1 Open Space East	Area	9.3	
Level P1 Open Space West	Area	12.0	
Receiver R5 Leq,d 43.4 dB(A)			
Level 1 Open Air Plaza	Area	42.6	
Level 1 Open Space Building 1 N	Area	25.0	
Level 1 Open Space Building 1 South	Area	19.6	
Level 1 Open Space Building 2 SW	Area	22.0	
Level 1 Open Space Building 2 W	Area	23.3	
Level 1 Open Space Building 3	Area	20.3	
Level 1 Residential Courtyard	Area	28.9	
Level 3 Amenity Deck	Area	9.9	
Level 7 Pool Deck	Area	33.3	
Level P1 Open Space East	Area	10.3	
Level P1 Open Space West	Area	12.9	
Receiver R6 Leq,d 44.5 dB(A)			
Level 1 Open Air Plaza	Area	42.4	
Level 1 Open Space Building 1 N	Area	10.8	
Level 1 Open Space Building 1 South	Area	40.2	
Level 1 Open Space Building 2 SW	Area	7.6	
Level 1 Open Space Building 2 W	Area	4.2	
Level 1 Open Space Building 3	Area	7.2	
Level 1 Residential Courtyard	Area	26.0	
Level 3 Amenity Deck	Area	7.9	
Level 7 Pool Deck	Area	18.0	
Level P1 Open Space East	Area	8.3	
Level P1 Open Space West	Area	5.5	
Receiver R7 Leq,d 50.7 dB(A)			
Level 1 Open Air Plaza	Area	23.0	
Level 1 Open Space Building 1 N	Area	29.2	
Level 1 Open Space Building 1 South	Area	6.7	
Level 1 Open Space Building 2 SW	Area	29.5	
Level 1 Open Space Building 2 W	Area	28.2	
Level 1 Open Space Building 3	Area	39.2	
Level 1 Residential Courtyard	Area	31.2	

Sportsmen's Lodge
Contribution level - People

Source	Source type	Leq,d dB(A)	
Level 3 Amenity Deck	Area	40.7	
Level 7 Pool Deck	Area	30.0	
Level P1 Open Space East	Area	48.9	
Level P1 Open Space West	Area	41.9	

Sportsmen's Lodge
Source Levels in dB(A) - Speakers

Name	Source type	Lw dB(A)	
Level 1 Open Air Plaza	Point	104.2	
Level 1 Open Air Plaza	Point	104.2	
Level 1 Open Air Plaza	Point	104.2	
Level 1 Open Air Plaza	Point	104.2	
Level 1 Open Air Plaza	Point	104.2	
Level 1 Open Air Plaza	Point	104.2	
Level 1 Open Air Plaza	Point	104.2	
Level 1 Open Air Plaza	Point	104.2	
Level 1 Open Space Building 1 N	Point	99.2	
Level 1 Open Space Building 1 South	Point	104.2	
Level 1 Open Space Building 2 SW	Point	99.2	
Level 1 Open Space Building 2 W	Point	99.2	
Level 1 Open Space Building 3	Point	99.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 1 Residential Courtyard	Point	104.2	
Level 3 Amenity Deck	Point	99.2	
Level 7 Pool Deck	Point	104.2	
Level 7 Pool Deck	Point	104.2	
Level 7 Pool Deck	Point	104.2	

Sportsmen's Lodge
Contribution level - Speakers

Source	Source type	Leq,d dB(A)
Receiver R1 Fl 1.FL Leq,d 50.6 dB(A)		
Level 1 Open Space Building 3	Point	48.5
Level 1 Open Space Building 2 W	Point	42.7
Level 1 Open Space Building 2 SW	Point	41.9
Level 7 Pool Deck	Point	34.7
Level 7 Pool Deck	Point	32.4
Level 1 Residential Courtyard	Point	32.1
Level 3 Amenity Deck	Point	31.0
Level 1 Open Space Building 1 N	Point	26.1
Level 7 Pool Deck	Point	25.3
Level 1 Residential Courtyard	Point	25.3
Level 1 Residential Courtyard	Point	25.3
Level 1 Residential Courtyard	Point	24.3
Level 1 Open Air Plaza	Point	22.6
Level 1 Open Air Plaza	Point	21.9
Level 1 Open Air Plaza	Point	21.3
Level 1 Residential Courtyard	Point	19.5
Level 1 Open Air Plaza	Point	18.3
Level 1 Open Air Plaza	Point	17.4
Level 1 Open Air Plaza	Point	17.4
Level 1 Residential Courtyard	Point	16.6
Level 1 Residential Courtyard	Point	16.1
Level 1 Residential Courtyard	Point	13.4
Level 1 Open Air Plaza	Point	13.0
Level 1 Residential Courtyard	Point	11.9
Level 1 Open Space Building 1 South	Point	11.4
Level 1 Residential Courtyard	Point	8.6
Level 1 Open Air Plaza	Point	5.3
Receiver R2 Fl 1.FL Leq,d 45.7 dB(A)		
Level 1 Open Space Building 3	Point	43.1
Level 7 Pool Deck	Point	40.4
Level 7 Pool Deck	Point	32.8
Level 1 Open Space Building 2 SW	Point	29.9
Level 7 Pool Deck	Point	28.5
Level 1 Open Air Plaza	Point	28.5
Level 1 Open Air Plaza	Point	25.2
Level 1 Open Air Plaza	Point	24.3
Level 1 Open Air Plaza	Point	23.9
Level 1 Open Air Plaza	Point	23.3
Level 1 Residential Courtyard	Point	22.6

Source	Source type	Leq,d dB(A)	
Level 1 Open Air Plaza	Point	22.2	
Level 1 Residential Courtyard	Point	21.3	
Level 1 Residential Courtyard	Point	20.7	
Level 1 Open Space Building 1 South	Point	19.0	
Level 1 Open Space Building 2 W	Point	18.8	
Level 1 Open Air Plaza	Point	17.9	
Level 1 Residential Courtyard	Point	17.9	
Level 1 Open Space Building 1 N	Point	17.6	
Level 1 Open Air Plaza	Point	17.2	
Level 1 Residential Courtyard	Point	16.3	
Level 1 Residential Courtyard	Point	11.2	
Level 1 Residential Courtyard	Point	8.9	
Level 3 Amenity Deck	Point	8.4	
Level 1 Residential Courtyard	Point	8.0	
Level 1 Residential Courtyard	Point	6.8	
Level 1 Residential Courtyard	Point	6.1	
Receiver R3 Fl 1.FL Leq,d 33.9 dB(A)			
Level 1 Open Space Building 3	Point	27.3	
Level 1 Open Space Building 1 South	Point	26.2	
Level 1 Open Air Plaza	Point	26.1	
Level 7 Pool Deck	Point	24.4	
Level 1 Open Air Plaza	Point	24.0	
Level 7 Pool Deck	Point	23.2	
Level 1 Residential Courtyard	Point	20.4	
Level 1 Residential Courtyard	Point	18.3	
Level 1 Open Air Plaza	Point	15.0	
Level 1 Open Air Plaza	Point	14.8	
Level 1 Residential Courtyard	Point	14.7	
Level 1 Open Air Plaza	Point	12.5	
Level 1 Open Air Plaza	Point	11.6	
Level 1 Open Air Plaza	Point	10.8	
Level 1 Open Air Plaza	Point	10.7	
Level 1 Residential Courtyard	Point	10.7	
Level 7 Pool Deck	Point	9.4	
Level 1 Residential Courtyard	Point	8.7	
Level 1 Residential Courtyard	Point	8.1	
Level 1 Open Space Building 2 W	Point	6.5	
Level 1 Open Space Building 2 SW	Point	6.2	
Level 1 Residential Courtyard	Point	5.8	
Level 1 Residential Courtyard	Point	3.8	
Level 1 Residential Courtyard	Point	3.5	

Source	Source type	Leq,d dB(A)	
Level 1 Open Space Building 1 N	Point	3.3	
Level 1 Residential Courtyard	Point	2.9	
Level 3 Amenity Deck	Point	2.3	
Receiver R4 Fl 1.FL Leq,d 45.7 dB(A)			
Level 1 Open Air Plaza	Point	41.6	
Level 7 Pool Deck	Point	36.0	
Level 1 Open Air Plaza	Point	35.1	
Level 7 Pool Deck	Point	34.5	
Level 1 Open Air Plaza	Point	33.6	
Level 1 Open Air Plaza	Point	32.9	
Level 1 Open Air Plaza	Point	32.8	
Level 1 Open Space Building 2 SW	Point	31.7	
Level 1 Open Air Plaza	Point	30.2	
Level 1 Residential Courtyard	Point	29.0	
Level 1 Open Air Plaza	Point	28.7	
Level 1 Residential Courtyard	Point	27.2	
Level 1 Open Air Plaza	Point	26.6	
Level 1 Open Space Building 1 South	Point	25.4	
Level 1 Residential Courtyard	Point	25.0	
Level 1 Residential Courtyard	Point	20.5	
Level 1 Residential Courtyard	Point	19.9	
Level 1 Residential Courtyard	Point	19.5	
Level 1 Residential Courtyard	Point	17.8	
Level 1 Open Space Building 3	Point	16.7	
Level 1 Open Space Building 2 W	Point	16.1	
Level 1 Residential Courtyard	Point	15.6	
Level 7 Pool Deck	Point	15.4	
Level 1 Residential Courtyard	Point	4.2	
Level 1 Residential Courtyard	Point	4.0	
Level 1 Open Space Building 1 N	Point	1.0	
Level 3 Amenity Deck	Point	-2.3	
Receiver R5 Fl 1.FL Leq,d 52.7 dB(A)			
Level 1 Open Air Plaza	Point	50.9	
Level 1 Open Air Plaza	Point	45.1	
Level 1 Open Air Plaza	Point	38.6	
Level 1 Open Air Plaza	Point	38.1	
Level 1 Open Air Plaza	Point	35.7	
Level 1 Open Air Plaza	Point	34.7	
Level 1 Open Air Plaza	Point	33.5	
Level 1 Open Air Plaza	Point	32.6	

Source	Source type	Leq,d dB(A)	
Level 1 Open Space Building 2 SW	Point	29.6	
Level 7 Pool Deck	Point	28.2	
Level 1 Residential Courtyard	Point	26.8	
Level 1 Residential Courtyard	Point	25.4	
Level 1 Residential Courtyard	Point	25.3	
Level 1 Open Space Building 1 South	Point	24.8	
Level 1 Residential Courtyard	Point	24.0	
Level 1 Residential Courtyard	Point	23.9	
Level 1 Residential Courtyard	Point	22.7	
Level 1 Residential Courtyard	Point	22.1	
Level 1 Open Space Building 1 N	Point	19.6	
Level 1 Residential Courtyard	Point	18.6	
Level 1 Residential Courtyard	Point	18.1	
Level 7 Pool Deck	Point	16.0	
Level 1 Residential Courtyard	Point	14.3	
Level 1 Open Space Building 2 W	Point	13.3	
Level 1 Open Space Building 3	Point	11.7	
Level 7 Pool Deck	Point	10.5	
Level 3 Amenity Deck	Point	-1.5	
Receiver R6 Fl 1.FL Leq,d 49.4 dB(A)			
Level 1 Open Air Plaza	Point	45.7	
Level 1 Open Air Plaza	Point	42.9	
Level 1 Open Air Plaza	Point	38.6	
Level 1 Open Air Plaza	Point	38.5	
Level 1 Open Space Building 1 South	Point	37.2	
Level 1 Open Air Plaza	Point	37.0	
Level 1 Open Air Plaza	Point	33.6	
Level 1 Open Air Plaza	Point	33.3	
Level 1 Open Air Plaza	Point	27.3	
Level 1 Residential Courtyard	Point	23.6	
Level 1 Residential Courtyard	Point	21.1	
Level 1 Residential Courtyard	Point	20.9	
Level 7 Pool Deck	Point	19.9	
Level 1 Residential Courtyard	Point	19.7	
Level 1 Residential Courtyard	Point	18.9	
Level 1 Residential Courtyard	Point	18.5	
Level 1 Residential Courtyard	Point	17.8	
Level 7 Pool Deck	Point	13.6	
Level 7 Pool Deck	Point	11.8	
Level 1 Residential Courtyard	Point	10.2	
Level 1 Residential Courtyard	Point	9.8	

Source	Source type	Leq,d dB(A)	
Level 1 Residential Courtyard	Point	6.6	
Level 1 Open Space Building 2 SW	Point	5.5	
Level 1 Open Space Building 1 N	Point	-1.1	
Level 3 Amenity Deck	Point	-2.2	
Level 1 Open Space Building 3	Point	-2.5	
Level 1 Open Space Building 2 W	Point	-3.4	
Receiver R7 Fl 1.FL Leq,d 47.8 dB(A)			
Level 3 Amenity Deck	Point	46.3	
Level 1 Open Space Building 2 W	Point	38.6	
Level 7 Pool Deck	Point	34.3	
Level 1 Open Space Building 1 N	Point	31.4	
Level 7 Pool Deck	Point	29.2	
Level 1 Residential Courtyard	Point	28.7	
Level 1 Open Space Building 3	Point	28.2	
Level 1 Residential Courtyard	Point	27.8	
Level 1 Residential Courtyard	Point	27.1	
Level 1 Residential Courtyard	Point	25.1	
Level 1 Open Air Plaza	Point	24.2	
Level 1 Open Air Plaza	Point	24.1	
Level 1 Residential Courtyard	Point	22.8	
Level 1 Open Air Plaza	Point	22.0	
Level 1 Residential Courtyard	Point	22.0	
Level 1 Open Air Plaza	Point	21.8	
Level 1 Open Air Plaza	Point	21.2	
Level 1 Open Space Building 2 SW	Point	20.1	
Level 1 Residential Courtyard	Point	19.7	
Level 1 Residential Courtyard	Point	19.6	
Level 1 Residential Courtyard	Point	19.3	
Level 1 Residential Courtyard	Point	18.3	
Level 1 Open Space Building 1 South	Point	15.9	
Level 7 Pool Deck	Point	14.4	
Level 1 Open Air Plaza	Point	11.2	
Level 1 Open Air Plaza	Point	8.6	
Level 1 Open Air Plaza	Point	4.8	

AES
ACOUSTICAL ENGINEERING SERVICES

Off-Site Traffic Noise Calculations
Project: Sportsmen's Lodge

Traffic Distribution as % of ADT				
Vehicle Type	**Day**	**Eve**	**Night**	**Sub total**
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to ADT factor 10%

EXISTING CONDITIONS - CNEL

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Whitsett Avenue										
- Between Valley Spring Ln. and Ventura Blvd.	60	10	40	35	1,590	15,900	10%	0	0	69.4
Coldwater Canyon Avenue										
- Between Moorpark St. and Ventura Blvd.	60	10	40	35	2,226	22,260	10%	0	0	70.8
- Between Ventura Blvd. and Halkirk St.	50	10	35	35	2,189	21,890	10%	0	0	71.5
Moorpark Street										
- Between Coldwater Canyon Ave. and Whitsett A	55	10	37.5	35	1,734	17,340	10%	0	0	70.1
- Between Fulton Ave. and Coldwater Canyon Ave	55	10	37.5	35	1,554	15,540	10%	0	0	69.7
Ventura Boulevard										
- Between Coldwater Canyon Ave. and Whitsett A	65	10	42.5	35	2,724	27,240	10%	0	0	71.5
- Between Fulton Ave. and Coldwater Canyon Ave	65	10	42.5	35	2,587	25,870	10%	0	0	71.3

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

Date Printed: 12/6/2021

AES
ACOUSTICAL ENGINEERING SERVICES

Off-Site Traffic Noise Calculations
Project: Sportsmen's Lodge

Traffic Distribution as % of ADT				
Vehicle Type	**Day**	**Eve**	**Night**	**Sub total**
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to ADT factor 10%

EXISTING + PROJECT CONDITIONS - CNEL

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Whitsett Avenue										
- Between Valley Spring Ln. and Ventura Blvd.	60	10	40	35	1,607	16,070	10%	0	0	69.4
Coldwater Canyon Avenue										
- Between Moorpark St. and Ventura Blvd.	60	10	40	35	2,362	23,620	10%	0	0	71.1
- Between Ventura Blvd. and Halkirk St.	50	10	35	35	2,207	22,070	10%	0	0	71.5
Moorpark Street										
- Between Coldwater Canyon Ave. and Whitsett A	55	10	37.5	35	1,752	17,520	10%	0	0	70.2
- Between Coldwater Canyon Ave. and Fulton Ave	55	10	37.5	35	1,594	15,940	10%	0	0	69.8
Ventura Boulevard										
- Between Coldwater Canyon Ave. and Whitsett A	65	10	42.5	35	2,842	28,420	10%	0	0	71.7
- Between Coldwater Canyon Ave. and Fulton Ave	65	10	42.5	35	2,621	26,210	10%	0	0	71.3

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

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AES
ACOUSTICAL ENGINEERING SERVICES

Off-Site Traffic Noise Calculations
Project: Sportsmen's Lodge

Traffic Distribution as % of ADT				
Vehicle Type	**Day**	**Eve**	**Night**	**Sub total**
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to ADT factor 10%

FUTURE NO PROJECT CONDITIONS - CNEL

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Whitsett Avenue										
- Between Valley Spring Ln. and Ventura Blvd.	60	10	40	35	1,801	18,010	10%	0	0	69.9
Coldwater Canyon Avenue										
- Between Moorpark St. and Ventura Blvd.	60	10	40	35	2,507	25,070	10%	0	0	71.3
- Between Ventura Blvd. and Halkirk St.	50	10	35	35	2,366	23,660	10%	0	0	71.8
Moorpark Street										
- Between Coldwater Canyon Ave. and Whitsett A	55	10	37.5	35	1,927	19,270	10%	0	0	70.6
- Between Coldwater Canyon Ave. and Fulton Ave	55	10	37.5	35	1,667	16,670	10%	0	0	70.0
Ventura Boulevard										
- Between Coldwater Canyon Ave. and Whitsett A	65	10	42.5	35	3,105	31,050	10%	0	0	72.1
- Between Coldwater Canyon Ave. and Fulton Ave	65	10	42.5	35	2,845	28,450	10%	0	0	71.7

* Estimated based on Google Earth map.

** Calculated using FHWA's TNM Version 2.5 Computer Noise Model.

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AES
ACOUSTICAL ENGINEERING SERVICES

Off-Site Traffic Noise Calculations
Project: Sportsmen's Lodge

Traffic Distribution as % of ADT				
Vehicle Type	**Day**	**Eve**	**Night**	**Sub total**
Auto	77.6%	9.7%	9.7%	97.0%
Medium Truck	1.6%	0.2%	0.2%	2.0%
Heavy Truck	0.8%	0.1%	0.1%	1.0%
	80.0%	10.0%	10.0%	100.0%

PHV to ADT factor 10%

FUTURE + PROJECT CONDITIONS - CNEL

Roadway Segment	Roadway Width*, ft	Distance to Edge of Roadway, ft	Distance to Centerline, feet	Speed mph	Traffic Volume PHV	Traffic Volume ADT	PHV to ADT factor	Barrier Atten.	Site Adjust., dBA	24-Hour CNEL
Whitsett Avenue										
- Between Valley Spring Ln. and Ventura Blvd.	60	10	40	35	1,819	18,190	10%	0	0	70.0
Coldwater Canyon Avenue										
- Between Moorpark St. and Ventura Blvd.	60	10	40	35	2,646	26,460	10%	0	0	71.6
- Between Ventura Blvd. and Halkirk St.	50	10	35	35	2,385	23,850	10%	0	0	71.8
Moorpark Street										
- Between Coldwater Canyon Ave. and Whitsett A	55	10	37.5	35	1,946	19,460	10%	0	0	70.6
- Between Coldwater Canyon Ave. and Fulton Ave	55	10	37.5	35	1,708	17,080	10%	0	0	70.1
Ventura Boulevard										
- Between Coldwater Canyon Ave. and Whitsett A	65	10	42.5	35	3,224	32,240	10%	0	0	72.2
- Between Coldwater Canyon Ave. and Fulton Ave	65	10	42.5	35	2,880	28,800	10%	0	0	71.7

* Estimated based on Google Earth map.

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