

Appendix H

Noise and Vibration Calculation Worksheets

9000 Airport Project

Noise & Vibration Calculations Worksheets

Provided by Acoustical Engineering Services

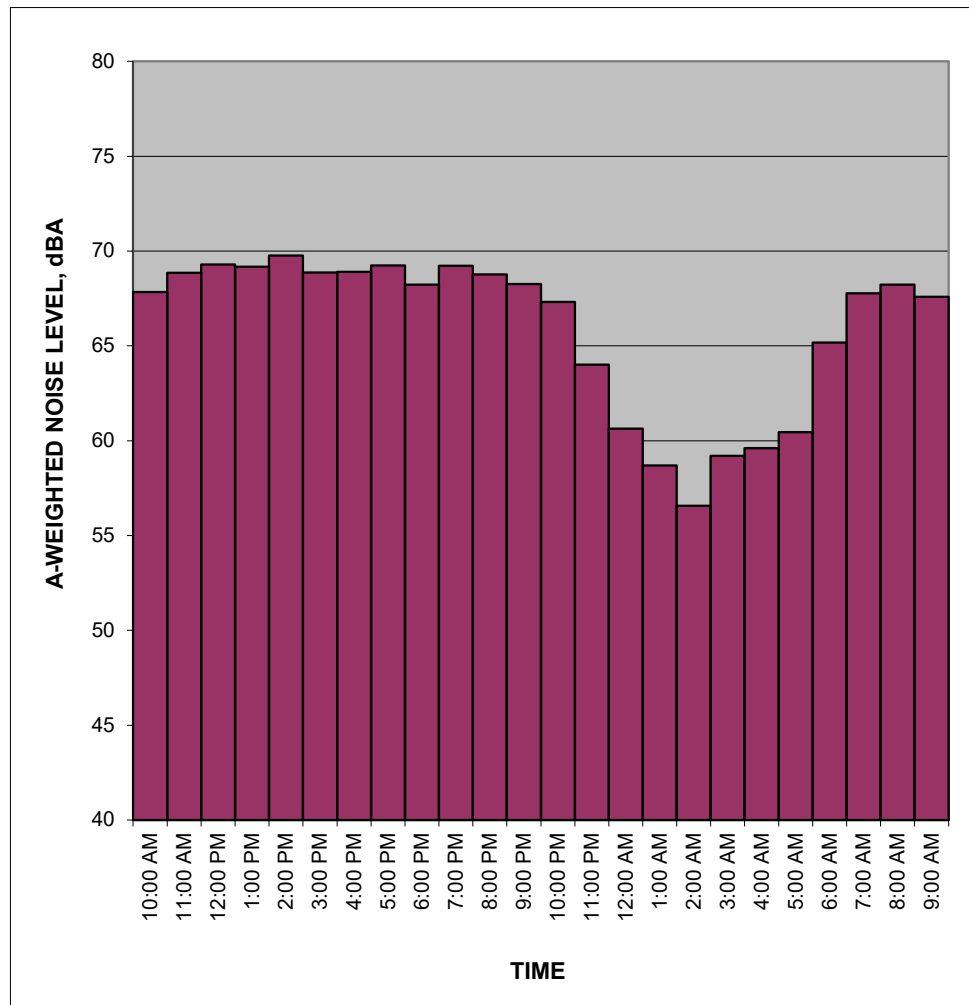
Ambient Noise Measurements

Measured Ambient Noise Levels

Project: 9000 Airport
Location: R1
Sources: Ambient

Date: 9/12 - 9/13/2024

TIME	HNL, dB(A)
10:00 AM	67.8
11:00 AM	68.9
12:00 PM	69.3
1:00 PM	69.2
2:00 PM	69.8
3:00 PM	68.9
4:00 PM	68.9
5:00 PM	69.2
6:00 PM	68.2
7:00 PM	69.2
8:00 PM	68.8
9:00 PM	68.3
10:00 PM	67.3
11:00 PM	64.0
12:00 AM	60.6
1:00 AM	58.7
2:00 AM	56.6
3:00 AM	59.2
4:00 AM	59.6
5:00 AM	60.4
6:00 AM	65.2
7:00 AM	67.8
8:00 AM	68.2
9:00 AM	67.6
CNEL, dB(A):	71.3



NOTES:

Daytime average 68.7 dBA Leq
Nighttime average 62.6 dBA Leq

Location: R2
Date: 9/12/2024

Time	Leq
10:16:01 AM	59.1
10:16:11 AM	62.1
10:16:21 AM	55.6
10:16:31 AM	57
10:16:41 AM	60.8
10:16:51 AM	61.8
10:17:01 AM	58
10:17:11 AM	56
10:17:21 AM	49.7
10:17:31 AM	53.3
10:17:41 AM	59
10:17:51 AM	68.4
10:18:01 AM	79.9
10:18:11 AM	63.3
10:18:21 AM	62.4
10:18:31 AM	62.3
10:18:41 AM	53.5
10:18:51 AM	49.7
10:19:01 AM	48.9
10:19:11 AM	49.8
10:19:21 AM	48.8
10:19:31 AM	45.1
10:19:41 AM	46.8
10:19:51 AM	48.7
10:20:01 AM	50.3
10:20:11 AM	54.5
10:20:21 AM	50.6
10:20:31 AM	47.2
10:20:41 AM	46.4
10:20:51 AM	45
10:21:01 AM	45.8
10:21:11 AM	46.4
10:21:21 AM	55.2
10:21:31 AM	53
10:21:41 AM	60
10:21:51 AM	78.3
10:22:01 AM	68.8
10:22:11 AM	51.5
10:22:21 AM	49.9
10:22:31 AM	49.7
10:22:41 AM	47.6
10:22:51 AM	46.3
10:23:01 AM	44.6
10:23:11 AM	44.6

10:23:21 AM	45.8
10:23:31 AM	47.8
10:23:41 AM	59.7
10:23:51 AM	59.9
10:24:01 AM	59.4
10:24:11 AM	53.1
10:24:21 AM	56
10:24:31 AM	59.9
10:24:41 AM	51.6
10:24:51 AM	50.3
10:25:01 AM	49.2
10:25:11 AM	51.1
10:25:21 AM	57.9
10:25:31 AM	75.6
10:25:41 AM	79.8
10:25:51 AM	59.7
10:26:01 AM	57.9
10:26:11 AM	58.3
10:26:21 AM	57.4
10:26:31 AM	57.2
10:26:41 AM	57.2
10:26:51 AM	58.6
10:27:01 AM	56.6
10:27:11 AM	52.8
10:27:21 AM	63.2
10:27:31 AM	76.6
10:27:41 AM	82.3
10:27:51 AM	62.1
10:28:01 AM	56.7
10:28:11 AM	54.6
10:28:21 AM	52.6
10:28:31 AM	50.9
10:28:41 AM	53.6
10:28:51 AM	56
10:29:01 AM	52.6
10:29:11 AM	49.2
10:29:21 AM	51.6
10:29:31 AM	52.7
10:29:41 AM	60.3
10:29:51 AM	77.9
10:30:01 AM	75.3
10:30:11 AM	61.9
10:30:21 AM	54.1
10:30:31 AM	52.2
10:30:41 AM	57
10:30:51 AM	50.2

68.7

Time	Leq
10:31:58 PM	53.4
10:32:08 PM	58.7
10:32:18 PM	71.6
10:32:28 PM	75.2
10:32:38 PM	55.7
10:32:48 PM	48.7
10:32:58 PM	57
10:33:08 PM	50.7
10:33:18 PM	47.7
10:33:28 PM	47.3
10:33:38 PM	48
10:33:48 PM	46.5
10:33:58 PM	46.5
10:34:08 PM	47.5
10:34:18 PM	47.6
10:34:28 PM	46.9
10:34:38 PM	46.9
10:34:48 PM	46.8
10:34:58 PM	51.3
10:35:08 PM	49.8
10:35:18 PM	51.3
10:35:28 PM	49
10:35:38 PM	51.4
10:35:48 PM	50.2
10:35:58 PM	48.8
10:36:08 PM	52.1
10:36:18 PM	47.4
10:36:28 PM	46.2
10:36:38 PM	45.3
10:36:48 PM	45.3
10:36:58 PM	46.6
10:37:08 PM	46.5
10:37:18 PM	47.3
10:37:28 PM	55.2
10:37:38 PM	56.5
10:37:48 PM	65.4
10:37:58 PM	77.1
10:38:08 PM	63.8
10:38:18 PM	49.6
10:38:28 PM	52
10:38:38 PM	53
10:38:48 PM	55.6
10:38:58 PM	50.1
10:39:08 PM	47.9
10:39:18 PM	47.7
10:39:28 PM	48.4
10:39:38 PM	50.7

10:39:48 PM	55.6
10:39:58 PM	65.9
10:40:08 PM	78
10:40:18 PM	63.3
10:40:28 PM	51.8
10:40:38 PM	47.7
10:40:48 PM	60.8
10:40:58 PM	57.2
10:41:08 PM	51.9
10:41:18 PM	55.5
10:41:28 PM	71.6
10:41:38 PM	78
10:41:48 PM	57.7
10:41:58 PM	47.7
10:42:08 PM	46.4
10:42:18 PM	47.3
10:42:28 PM	47.1
10:42:38 PM	48.6
10:42:48 PM	46.8
10:42:58 PM	46.8
10:43:08 PM	48.7
10:43:18 PM	47.1
10:43:28 PM	47
10:43:38 PM	53.2
10:43:48 PM	46.8
10:43:58 PM	45.1
10:44:08 PM	44.8
10:44:18 PM	45.3
10:44:28 PM	45.6
10:44:38 PM	48
10:44:48 PM	53.9
10:44:58 PM	44.5
10:45:08 PM	45.9
10:45:18 PM	48.6
10:45:28 PM	47.2
10:45:38 PM	46.8
10:45:48 PM	45.8
10:45:58 PM	47.3
10:46:08 PM	48.4
10:46:18 PM	50
10:46:28 PM	47
10:46:38 PM	48.7
10:46:48 PM	46.9

57.8

Project: 9000 Airport Project
 Location: R3
 Date: 9/12/2024

Time	Leq
10:35:52 AM	61.3
10:36:02 AM	57.5
10:36:12 AM	60.3
10:36:22 AM	59.5
10:36:32 AM	55.7
10:36:42 AM	56
10:36:52 AM	60.4
10:37:02 AM	64.4
10:37:12 AM	76.8
10:37:22 AM	64.6
10:37:32 AM	61.5
10:37:42 AM	61.7
10:37:52 AM	61.6
10:38:02 AM	61
10:38:12 AM	61.4
10:38:22 AM	61.4
10:38:32 AM	60.4
10:38:42 AM	64.4
10:38:52 AM	81
10:39:02 AM	76.3
10:39:12 AM	62.2
10:39:22 AM	61.1
10:39:32 AM	61.6
10:39:42 AM	61.9
10:39:52 AM	62
10:40:02 AM	61.3
10:40:12 AM	59.7
10:40:22 AM	69.3
10:40:32 AM	81.8
10:40:42 AM	65
10:40:52 AM	63.1
10:41:02 AM	63.5
10:41:12 AM	62.8
10:41:22 AM	61.5
10:41:32 AM	63
10:41:42 AM	63.1
10:41:52 AM	63.3
10:42:02 AM	75.2
10:42:12 AM	82.9
10:42:22 AM	64.1
10:42:32 AM	63.6
10:42:42 AM	64.1
10:42:52 AM	58.8

10:43:02 AM	60.1
10:43:12 AM	62.5
10:43:22 AM	62.9
10:43:32 AM	62.9
10:43:42 AM	64.8
10:43:52 AM	78.2
10:44:02 AM	76.9
10:44:12 AM	63.9
10:44:22 AM	63.9
10:44:32 AM	63.9
10:44:42 AM	64.6
10:44:52 AM	61.2
10:45:02 AM	63.1
10:45:12 AM	63.7
10:45:22 AM	63.3
10:45:32 AM	62.6
10:45:42 AM	64.1
10:45:52 AM	64
10:46:02 AM	64.4
10:46:12 AM	62.7
10:46:22 AM	63.7
10:46:32 AM	63.7
10:46:42 AM	63.5
10:46:52 AM	63.6
10:47:02 AM	63.4
10:47:12 AM	63.5
10:47:22 AM	63.4
10:47:32 AM	63.4
10:47:42 AM	63.5
10:47:52 AM	63.2
10:48:02 AM	63.4
10:48:12 AM	61.6
10:48:22 AM	60.7
10:48:32 AM	63.1
10:48:42 AM	62.9
10:48:52 AM	61.5
10:49:02 AM	62.9
10:49:12 AM	64.5
10:49:22 AM	80.6
10:49:32 AM	79.4
10:49:42 AM	63.3
10:49:52 AM	61.4
10:50:02 AM	59.4
10:50:12 AM	60.1
10:50:22 AM	64.2
10:50:32 AM	63
10:50:42 AM	64.1

70.8

Time	Leq
10:51:21 PM	42.7
10:51:31 PM	43.4
10:51:41 PM	50
10:51:51 PM	58.7
10:52:01 PM	76.3
10:52:11 PM	78
10:52:21 PM	55.5
10:52:31 PM	46.1
10:52:41 PM	42.3
10:52:51 PM	43.1
10:53:01 PM	43.5
10:53:11 PM	45.8
10:53:21 PM	51.1
10:53:31 PM	49
10:53:41 PM	52.7
10:53:51 PM	63.4
10:54:01 PM	82.1
10:54:11 PM	70.2
10:54:21 PM	51.1
10:54:31 PM	46.8
10:54:41 PM	46.2
10:54:51 PM	47
10:55:01 PM	48.4
10:55:11 PM	54.3
10:55:21 PM	49.2
10:55:31 PM	56.6
10:55:41 PM	66.9
10:55:51 PM	85.7
10:56:01 PM	70.7
10:56:11 PM	51.8
10:56:21 PM	49
10:56:31 PM	50.5
10:56:41 PM	49.2
10:56:51 PM	51.7
10:57:01 PM	46.5
10:57:11 PM	49.4
10:57:21 PM	59
10:57:31 PM	80.5
10:57:41 PM	77.2
10:57:51 PM	51.3
10:58:01 PM	43.5
10:58:11 PM	44.3
10:58:21 PM	43.4
10:58:31 PM	44.4
10:58:41 PM	48
10:58:51 PM	44.6

10:59:01 PM	52.3
10:59:11 PM	67
10:59:21 PM	82.4
10:59:31 PM	64.7
10:59:41 PM	48.9
10:59:51 PM	49.1
11:00:01 PM	51.8
11:00:11 PM	55.8
11:00:21 PM	57.1
11:00:31 PM	46.8
11:00:41 PM	46
11:00:51 PM	43.9
11:01:01 PM	42.4
11:01:11 PM	41.4
11:01:21 PM	41.3
11:01:31 PM	42.6
11:01:41 PM	41.7
11:01:51 PM	41
11:02:01 PM	40.5
11:02:11 PM	42.9
11:02:21 PM	43
11:02:31 PM	43.9
11:02:41 PM	41.9
11:02:51 PM	40.7
11:03:01 PM	40.1
11:03:11 PM	40.9
11:03:21 PM	43.2
11:03:31 PM	40.8
11:03:41 PM	41.5
11:03:51 PM	41.5
11:04:01 PM	42
11:04:11 PM	41.7
11:04:21 PM	41.3
11:04:31 PM	42.1
11:04:41 PM	44.1
11:04:51 PM	45.5
11:05:01 PM	49
11:05:11 PM	59.2
11:05:21 PM	77.1
11:05:31 PM	83.1
11:05:41 PM	60.6
11:05:51 PM	47.9
11:06:01 PM	46.1
11:06:11 PM	46.3

57.6

Project: 9000 Airport Project
 Location: R4
 Date: 9/12/2024

Time	Leq
11:03:32 AM	64.5
11:03:42 AM	62.1
11:03:52 AM	67.5
11:04:02 AM	70.7
11:04:12 AM	64.5
11:04:22 AM	57.9
11:04:32 AM	68.2
11:04:42 AM	63
11:04:52 AM	58.4
11:05:02 AM	56.2
11:05:12 AM	59.3
11:05:22 AM	64.4
11:05:32 AM	62.1
11:05:42 AM	58.9
11:05:52 AM	55.6
11:06:02 AM	67.2
11:06:12 AM	76.8
11:06:22 AM	79.7
11:06:32 AM	63.6
11:06:42 AM	61.7
11:06:52 AM	66
11:07:02 AM	65.6
11:07:12 AM	69.1
11:07:22 AM	71.9
11:07:32 AM	67.7
11:07:42 AM	69.1
11:07:52 AM	66.9
11:08:02 AM	63
11:08:12 AM	66.8
11:08:22 AM	66.4
11:08:32 AM	68
11:08:42 AM	64.9
11:08:52 AM	63.5
11:09:02 AM	62.3
11:09:12 AM	58.5
11:09:22 AM	65.4
11:09:32 AM	67.3
11:09:42 AM	67.6
11:09:52 AM	81
11:10:02 AM	74.7
11:10:12 AM	67.3
11:10:22 AM	63.3
11:10:32 AM	67.1

11:10:42 AM	67.4
11:10:52 AM	65.1
11:11:02 AM	63.2
11:11:12 AM	61.1
11:11:22 AM	67.5
11:11:32 AM	68.3
11:11:42 AM	63.5
11:11:52 AM	69.5
11:12:02 AM	65.5
11:12:12 AM	67.7
11:12:22 AM	66.8
11:12:32 AM	61.2
11:12:42 AM	61.9
11:12:52 AM	66.9
11:13:02 AM	75.6
11:13:12 AM	71.4
11:13:22 AM	64.2
11:13:32 AM	67.5
11:13:42 AM	69
11:13:52 AM	80.7
11:14:02 AM	71.5
11:14:12 AM	67.8
11:14:22 AM	66.2
11:14:32 AM	63.1
11:14:42 AM	67.4
11:14:52 AM	74.4
11:15:02 AM	73.7
11:15:12 AM	69.5
11:15:22 AM	70
11:15:32 AM	81.6
11:15:42 AM	71.7
11:15:52 AM	67.8
11:16:02 AM	73.3
11:16:12 AM	69.2
11:16:22 AM	66.9
11:16:32 AM	71.5
11:16:42 AM	70.5
11:16:52 AM	65.1
11:17:02 AM	67.1
11:17:12 AM	71
11:17:22 AM	69.9
11:17:32 AM	82.4
11:17:42 AM	75.5
11:17:52 AM	65.1
11:18:02 AM	65.6
11:18:12 AM	72.2
11:18:22 AM	71.5

71.6

Time	Leq
11:14:04 PM	56.7
11:14:14 PM	64.4
11:14:24 PM	63.1
11:14:34 PM	64.6
11:14:44 PM	68
11:14:54 PM	59.2
11:15:04 PM	68.3
11:15:14 PM	65.6
11:15:24 PM	58.2
11:15:34 PM	58.5
11:15:44 PM	61.7
11:15:54 PM	66
11:16:04 PM	64.1
11:16:14 PM	57.2
11:16:24 PM	59.4
11:16:34 PM	57
11:16:44 PM	57.7
11:16:54 PM	63.1
11:17:04 PM	63.7
11:17:14 PM	67.5
11:17:24 PM	66.3
11:17:34 PM	56.9
11:17:44 PM	56.4
11:17:54 PM	61
11:18:04 PM	71.3
11:18:14 PM	70.8
11:18:24 PM	72.6
11:18:34 PM	69.7
11:18:44 PM	64.6
11:18:54 PM	55.4
11:19:04 PM	65
11:19:14 PM	62
11:19:24 PM	63.7
11:19:34 PM	62.8
11:19:44 PM	59.2
11:19:54 PM	58
11:20:04 PM	62.6
11:20:14 PM	62.6
11:20:24 PM	59.5
11:20:34 PM	56
11:20:44 PM	57.8
11:20:54 PM	63.5
11:21:04 PM	77.5
11:21:14 PM	80.7
11:21:24 PM	60.5
11:21:34 PM	66.3

11:21:44 PM	68.3
11:21:54 PM	61.4
11:22:04 PM	55.4
11:22:14 PM	51.1
11:22:24 PM	61.1
11:22:34 PM	60.6
11:22:44 PM	58.6
11:22:54 PM	66.9
11:23:04 PM	80.8
11:23:14 PM	71.4
11:23:24 PM	66.6
11:23:34 PM	70.1
11:23:44 PM	66.9
11:23:54 PM	59.5
11:24:04 PM	66.4
11:24:14 PM	67.6
11:24:24 PM	57.6
11:24:34 PM	66.8
11:24:44 PM	71.3
11:24:54 PM	58.3
11:25:04 PM	60.9
11:25:14 PM	63.2
11:25:24 PM	56.2
11:25:34 PM	62
11:25:44 PM	59.5
11:25:54 PM	56
11:26:04 PM	66.7
11:26:14 PM	63.6
11:26:24 PM	78.2
11:26:34 PM	69.8
11:26:44 PM	64.5
11:26:54 PM	66.7
11:27:04 PM	60.5
11:27:14 PM	54.7
11:27:24 PM	59.7
11:27:34 PM	80.1
11:27:44 PM	63.9
11:27:54 PM	61.5
11:28:04 PM	57.5
11:28:14 PM	57.4
11:28:24 PM	61.1
11:28:34 PM	61.3
11:28:44 PM	67.8
11:28:54 PM	69.8

65.0

Project: 9000 Airport Project
Location: R5
Date: 9/12/2024

Time	Leq
11:25:15 AM	56.4
11:25:25 AM	73.7
11:25:35 AM	74
11:25:45 AM	75.9
11:25:55 AM	64.1
11:26:05 AM	64.6
11:26:15 AM	69.1
11:26:25 AM	73.7
11:26:35 AM	75
11:26:45 AM	70
11:26:55 AM	67.9
11:27:05 AM	73.7
11:27:15 AM	76.2
11:27:25 AM	74.2
11:27:35 AM	72.7
11:27:45 AM	79.1
11:27:55 AM	72.7
11:28:05 AM	64.2
11:28:15 AM	68.6
11:28:25 AM	65.7
11:28:35 AM	73.6
11:28:45 AM	73.2
11:28:55 AM	56.1
11:29:05 AM	60.9
11:29:15 AM	69.7
11:29:25 AM	71.9
11:29:35 AM	71.6
11:29:45 AM	67.6
11:29:55 AM	60
11:30:05 AM	59.8
11:30:15 AM	70.2
11:30:25 AM	66.4
11:30:35 AM	68.3
11:30:45 AM	71.5
11:30:55 AM	60.7
11:31:05 AM	63.8
11:31:15 AM	68.2
11:31:25 AM	76.2
11:31:35 AM	71.3
11:31:45 AM	74.2
11:31:55 AM	72.8
11:32:05 AM	73.1
11:32:15 AM	71.8

11:32:25 AM	72.2
11:32:35 AM	67.8
11:32:45 AM	69.4
11:32:55 AM	77.2
11:33:05 AM	78.3
11:33:15 AM	67.3
11:33:25 AM	67.6
11:33:35 AM	67.9
11:33:45 AM	69.6
11:33:55 AM	72.1
11:34:05 AM	62.8
11:34:15 AM	68.6
11:34:25 AM	71.3
11:34:35 AM	74.8
11:34:45 AM	70.2
11:34:55 AM	60.2
11:35:05 AM	62.6
11:35:15 AM	70.6
11:35:25 AM	72.4
11:35:35 AM	68.8
11:35:45 AM	66.3
11:35:55 AM	62.7
11:36:05 AM	65.1
11:36:15 AM	68.3
11:36:25 AM	66.9
11:36:35 AM	65.2
11:36:45 AM	64.7
11:36:55 AM	59.3
11:37:05 AM	65
11:37:15 AM	69.5
11:37:25 AM	65.1
11:37:35 AM	76
11:37:45 AM	69.9
11:37:55 AM	61.7
11:38:05 AM	63.4
11:38:15 AM	67.7
11:38:25 AM	71.2
11:38:35 AM	67.3
11:38:45 AM	56.8
11:38:55 AM	57.6
11:39:05 AM	71.3
11:39:15 AM	74.9
11:39:25 AM	75.1
11:39:35 AM	71.3
11:39:45 AM	72.7
11:39:55 AM	63.6
11:40:05 AM	78.9

71.5

Time	Leq
11:34:12 PM	64.2
11:34:22 PM	62.7
11:34:32 PM	71.4
11:34:42 PM	73.5
11:34:52 PM	69.7
11:35:02 PM	65.1
11:35:12 PM	67.2
11:35:22 PM	69.1
11:35:32 PM	68.2
11:35:42 PM	68.7
11:35:52 PM	67.5
11:36:02 PM	73.4
11:36:12 PM	72.6
11:36:22 PM	72.3
11:36:32 PM	67.7
11:36:42 PM	67.8
11:36:52 PM	71.6
11:37:02 PM	71.7
11:37:12 PM	64
11:37:22 PM	62.5
11:37:32 PM	73.4
11:37:42 PM	70.9
11:37:52 PM	75.8
11:38:02 PM	65.2
11:38:12 PM	70
11:38:22 PM	73.7
11:38:32 PM	63.3
11:38:42 PM	55.8
11:38:52 PM	67.8
11:39:02 PM	73.8
11:39:12 PM	72.5
11:39:22 PM	67.3
11:39:32 PM	65.7
11:39:42 PM	56.6
11:39:52 PM	68.3
11:40:02 PM	66
11:40:12 PM	61.2
11:40:22 PM	64.4
11:40:32 PM	72
11:40:42 PM	74.4
11:40:52 PM	65.7
11:41:02 PM	64.2
11:41:12 PM	67
11:41:22 PM	74.7
11:41:32 PM	69.5
11:41:42 PM	63.9

11:41:52 PM	57.1
11:42:02 PM	64.3
11:42:12 PM	72.9
11:42:22 PM	69.8
11:42:32 PM	67.4
11:42:42 PM	59
11:42:52 PM	61.7
11:43:02 PM	64.7
11:43:12 PM	59.8
11:43:22 PM	65.4
11:43:32 PM	72.2
11:43:42 PM	74.9
11:43:52 PM	72.2
11:44:02 PM	67.9
11:44:12 PM	73.7
11:44:22 PM	70
11:44:32 PM	67.7
11:44:42 PM	61.6
11:44:52 PM	64
11:45:02 PM	77.1
11:45:12 PM	73.1
11:45:22 PM	71.1
11:45:32 PM	70
11:45:42 PM	58
11:45:52 PM	68.1
11:46:02 PM	62.9
11:46:12 PM	60.7
11:46:22 PM	61
11:46:32 PM	65.3
11:46:42 PM	72.1
11:46:52 PM	67.6
11:47:02 PM	68.7
11:47:12 PM	66.4
11:47:22 PM	66.3
11:47:32 PM	68.6
11:47:42 PM	69.8
11:47:52 PM	58
11:48:02 PM	75.2
11:48:12 PM	74
11:48:22 PM	74.9
11:48:32 PM	70.3
11:48:42 PM	58.7
11:48:52 PM	62.6
11:49:02 PM	59.4

69.5

Construction Noise & Vibration Calculations

Project: 9000 Airport Project

Estimated Construction Noise Levels, dBA Leq (from SoundPLAN Model) -
Option 1 and Option 2

Rec.	Demolition	Grading	Foundation	Building Const.	Paving/ Landscape	Overlapping of Building and Paving	Off-Site Infrast. Improve.
R1	64.7	65.2	65.1	67.5	62.6	68.7	69.7
R2	66.2	66.7	66.5	69.0	64.1	70.2	77.5
R3	67.6	68.1	68.0	70.4	65.5	71.6	64.1
R4	64.6	65.1	65.1	67.5	62.5	68.7	74.5
R5	63.3	63.9	63.8	66.3	61.2	67.5	70.2

Project: 9000 Airport Project

Construction Equipment Noise Levels - Option 1 and Option 2

Description	Reference	Acoustical	Sound	Sound Power	Demo	Grading/ Excavation	Founda- tion	Building Const.	Paving/ Landscape	Off-Site Infrast. Improve.
	Noise Level at 50ft, Lmax		Pressure Levels (SPL), Leq	Levels (Lw), Leq						
Air Compressor	78	40%	74.0	105.7	1			3		
Aerial Lift	75	20%	68.0	99.7				3		
Bore Drill Rig	84	20%	77.0	108.7						
Cement and Mortar Mixers	80	50%	77.0	108.6			3			
Concrete/Industrial Saw	90	20%	83.0	114.7			1	2		
Crane (Tower)	81	16%	73.0	104.7						
Crane (Mobile)	81	16%	73.0	104.7				1		
Crawler Tractors	84	40%	80.0	111.7				1		
Crushing/Proc. Equipment	85	50%	82.0	113.6	1					
Dump Truck	76	40%	72.0	103.7						
Excavator	81	40%	77.0	108.7	2	2		2		
Forklifts	75	20%	68.0	99.7			2	2		
Generator Sets	81	50%	78.0	109.6						
Grader	85	40%	81.0	112.7		3			1	
Water Truck	82	10%	72.0	103.7	1	1	1	1	1	
Paver	77	50%	74.0	105.6					1	
Paving Equipment	77	50%	74.0	105.6					1	
Pump	81	50%	78.0	109.6			3			
Plate Compactors	83	20%	76.0	107.7		3	3		1	
Concrete Mixer Truck	79	40%	75.0	106.7						
Concrete Pumps	81	20%	74.0	105.7						
Roller	80	20%	73.0	104.7		3				
Rough Terrain Forklifts	83	40%	79.0	110.7				1		
Rubber Tired Dozer	82	40%	78.0	109.7					1	
Rubber Tired Loader	79	40%	75.0	106.7	2			1		
Scraper	84	40%	80.0	111.7						
Signal Boards	73	50%	70.0	101.6						
Light Tower (8kW)	61	100%	61.0	92.7						
Scraper	84	40%	80.0	111.7						
Skid Steer Loader	79	40%	75.0	106.7				1	1	1
Tractors/Loaders/Backhoes	84	40%	80.0	111.7	2			2		
Trencher	80	50%	77.0	108.6				2	1	2
Welders	74	40%	70.0	101.7		2	2	2		
					9	14	15	24	8	3

Source for Ref. Noise Levels: FHWA RCNM, 2006

9000 Airport

Source Levels in dB(A) - 01a Demo

Name	Source type	Lw dB(A)	
Air Compressor 1	Area	105.7	
Construction Site	Area	108.7	
Crushing_Processing Equipment 1	Area	113.6	
Excavator 1	Area	108.7	
Excavator 2	Area	108.7	
Rubber Tired Loader1	Area	106.7	
Rubber Tired Loader2	Area	106.7	
Tractor Loader Backhoe 1	Area	111.7	
Tractor Loader Backhoe 2	Area	111.7	
Water Truck 1	Area	103.7	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 01a Demo

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 64.7 dB(A)			
Air Compressor 1	Area	50.5	
Crushing_Processing Equipment 1	Area	58.8	
Excavator 1	Area	53.9	
Excavator 2	Area	53.9	
Rubber Tired Loader1	Area	51.9	
Rubber Tired Loader2	Area	51.9	
Tractor Loader Backhoe 1	Area	56.9	
Tractor Loader Backhoe 2	Area	56.9	
Water Truck 1	Area	48.9	
Construction Site	Area	53.9	
Receiver R2 Leq,d 66.2 dB(A)			
Air Compressor 1	Area	51.9	
Crushing_Processing Equipment 1	Area	60.2	
Excavator 1	Area	55.3	
Excavator 2	Area	55.3	
Rubber Tired Loader1	Area	53.3	
Rubber Tired Loader2	Area	53.3	
Tractor Loader Backhoe 1	Area	58.3	
Tractor Loader Backhoe 2	Area	58.3	
Water Truck 1	Area	50.3	
Construction Site	Area	55.3	
Receiver R3 Leq,d 67.6 dB(A)			
Air Compressor 1	Area	53.4	
Crushing_Processing Equipment 1	Area	61.7	
Excavator 1	Area	56.8	
Excavator 2	Area	56.8	
Rubber Tired Loader1	Area	54.8	
Rubber Tired Loader2	Area	54.8	
Tractor Loader Backhoe 1	Area	59.8	
Tractor Loader Backhoe 2	Area	59.8	
Water Truck 1	Area	51.8	
Construction Site	Area	56.8	
Receiver R4 Leq,d 64.6 dB(A)			
Air Compressor 1	Area	50.6	
Crushing_Processing Equipment 1	Area	58.7	
Excavator 1	Area	53.8	
Excavator 2	Area	53.8	
Rubber Tired Loader1	Area	51.8	
Rubber Tired Loader2	Area	51.8	
Tractor Loader Backhoe 1	Area	56.8	
Tractor Loader Backhoe 2	Area	56.8	
Water Truck 1	Area	48.8	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 01a Demo

Source	Source type	Leq,d dB(A)	
Construction Site	Area	53.8	
Receiver R5 Leq,d 63.3 dB(A)			
Air Compressor 1	Area	49.4	
Crushing_Processing Equipment 1	Area	57.4	
Excavator 1	Area	52.5	
Excavator 2	Area	52.5	
Rubber Tired Loader1	Area	50.5	
Rubber Tired Loader2	Area	50.5	
Tractor Loader Backhoe 1	Area	55.5	
Tractor Loader Backhoe 2	Area	55.5	
Water Truck 1	Area	47.5	
Construction Site	Area	52.5	

9000 Airport **Source Levels in dB(A) - 01b Grading**

Name	Source type	Lw dB(A)	
Excavator 1	Area	108.7	
Excavator 2	Area	108.7	
Grader 1	Area	112.7	
Grader 2	Area	112.7	
Grader 3	Area	112.7	
Plate Compactor 1	Area	107.7	
Plate Compactor 2	Area	107.7	
Plate Compactor 3	Area	106.7	
Roller1	Area	104.7	
Roller 2	Area	104.7	
Roller 3	Area	104.7	
Water Truck 1	Area	103.7	
Welder 1	Area	101.7	
Welder 2	Area	101.7	

9000 Airport Calculated Noise Levels - 01b Grading

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 65.2 dB(A)			
Excavator 1	Area	53.9	
Excavator 2	Area	53.9	
Grader 1	Area	57.9	
Grader 2	Area	57.9	
Grader 3	Area	57.9	
Plate Compactor 1	Area	52.9	
Plate Compactor 2	Area	52.9	
Plate Compactor 3	Area	51.9	
Roller1	Area	49.9	
Roller 2	Area	49.9	
Roller 3	Area	49.9	
Water Truck 1	Area	48.9	
Welder 1	Area	46.5	
Welder 2	Area	46.5	
Receiver R2 Leq,d 66.7 dB(A)			
Excavator 1	Area	55.3	
Excavator 2	Area	55.3	
Grader 1	Area	59.3	
Grader 2	Area	59.3	
Grader 3	Area	59.3	
Plate Compactor 1	Area	54.3	
Plate Compactor 2	Area	54.3	
Plate Compactor 3	Area	53.3	
Roller1	Area	51.3	
Roller 2	Area	51.3	
Roller 3	Area	51.3	
Water Truck 1	Area	50.3	
Welder 1	Area	47.9	
Welder 2	Area	47.9	
Receiver R3 Leq,d 68.1 dB(A)			
Excavator 1	Area	56.8	
Excavator 2	Area	56.8	
Grader 1	Area	60.8	
Grader 2	Area	60.8	
Grader 3	Area	60.8	
Plate Compactor 1	Area	55.8	
Plate Compactor 2	Area	55.8	
Plate Compactor 3	Area	54.8	
Roller1	Area	52.8	
Roller 2	Area	52.8	
Roller 3	Area	52.8	
Water Truck 1	Area	51.8	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

1

9000 Airport Calculated Noise Levels - 01b Grading

Source	Source type	Leq,d dB(A)	
Welder 1	Area	49.4	
Welder 2	Area	49.4	
Receiver R4 Leq,d 65.1 dB(A)			
Excavator 1	Area	53.8	
Excavator 2	Area	53.8	
Grader 1	Area	57.8	
Grader 2	Area	57.8	
Grader 3	Area	57.8	
Plate Compactor 1	Area	52.8	
Plate Compactor 2	Area	52.8	
Plate Compactor 3	Area	51.8	
Roller1	Area	49.8	
Roller 2	Area	49.8	
Roller 3	Area	49.8	
Water Truck 1	Area	48.8	
Welder 1	Area	46.6	
Welder 2	Area	46.6	
Receiver R5 Leq,d 63.9 dB(A)			
Excavator 1	Area	52.5	
Excavator 2	Area	52.5	
Grader 1	Area	56.5	
Grader 2	Area	56.5	
Grader 3	Area	56.5	
Plate Compactor 1	Area	51.5	
Plate Compactor 2	Area	51.5	
Plate Compactor 3	Area	50.5	
Roller1	Area	48.5	
Roller 2	Area	48.5	
Roller 3	Area	48.5	
Water Truck 1	Area	47.5	
Welder 1	Area	45.4	
Welder 2	Area	45.4	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport

Source Levels in dB(A) - 01c Foundation

Name	Source type	Lw dB(A)	
Cement & Mortar Mixer 1	Area	108.6	
Cement & Mortar Mixer 2	Area	108.6	
Cement & Mortar Mixer 3	Area	108.6	
Concrete Industrial Saw 1	Area	114.7	
Forklift 1	Area	99.7	
Forklift 2	Area	99.7	
Plate Compactor 1	Area	107.7	
Plate Compactor 2	Area	107.7	
Plate Compactor 3	Area	106.7	
Pump 1	Area	109.6	
Pump 2	Area	109.6	
Pump 3	Area	109.6	
Water Truck 1	Area	103.7	
Welder 1	Area	101.7	
Welder 2	Area	101.7	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 01c Foundation

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 65.1 dB(A)			
Cement & Mortar Mixer 1	Area	53.4	
Cement & Mortar Mixer 2	Area	53.4	
Cement & Mortar Mixer 3	Area	53.4	
Concrete Industrial Saw 1	Area	59.5	
Forklift 1	Area	44.9	
Forklift 2	Area	44.9	
Plate Compactor 1	Area	52.9	
Plate Compactor 2	Area	52.9	
Plate Compactor 3	Area	51.9	
Pump 1	Area	54.8	
Pump 2	Area	54.8	
Pump 3	Area	54.8	
Water Truck 1	Area	48.9	
Welder 1	Area	46.5	
Welder 2	Area	46.5	
Receiver R2 Leq,d 66.5 dB(A)			
Cement & Mortar Mixer 1	Area	54.8	
Cement & Mortar Mixer 2	Area	54.8	
Cement & Mortar Mixer 3	Area	54.8	
Concrete Industrial Saw 1	Area	60.9	
Forklift 1	Area	46.3	
Forklift 2	Area	46.3	
Plate Compactor 1	Area	54.3	
Plate Compactor 2	Area	54.3	
Plate Compactor 3	Area	53.3	
Pump 1	Area	56.2	
Pump 2	Area	56.2	
Pump 3	Area	56.2	
Water Truck 1	Area	50.3	
Welder 1	Area	47.9	
Welder 2	Area	47.9	
Receiver R3 Leq,d 68.0 dB(A)			
Cement & Mortar Mixer 1	Area	56.3	
Cement & Mortar Mixer 2	Area	56.3	
Cement & Mortar Mixer 3	Area	56.3	
Concrete Industrial Saw 1	Area	62.4	
Forklift 1	Area	47.8	
Forklift 2	Area	47.8	
Plate Compactor 1	Area	55.8	
Plate Compactor 2	Area	55.8	
Plate Compactor 3	Area	54.8	
Pump 1	Area	57.7	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

1

9000 Airport Calculated Noise Levels - 01c Foundation

Source	Source type	Leq,d dB(A)	
Pump 2	Area	57.7	
Pump 3	Area	57.7	
Water Truck 1	Area	51.8	
Welder 1	Area	49.4	
Welder 2	Area	49.4	
Receiver R4 Leq,d 65.1 dB(A)			
Cement & Mortar Mixer 1	Area	53.5	
Cement & Mortar Mixer 2	Area	53.5	
Cement & Mortar Mixer 3	Area	53.5	
Concrete Industrial Saw 1	Area	59.6	
Forklift 1	Area	44.8	
Forklift 2	Area	44.8	
Plate Compactor 1	Area	52.8	
Plate Compactor 2	Area	52.8	
Plate Compactor 3	Area	51.8	
Pump 1	Area	54.7	
Pump 2	Area	54.7	
Pump 3	Area	54.7	
Water Truck 1	Area	48.8	
Welder 1	Area	46.6	
Welder 2	Area	46.6	
Receiver R5 Leq,d 63.8 dB(A)			
Cement & Mortar Mixer 1	Area	52.3	
Cement & Mortar Mixer 2	Area	52.3	
Cement & Mortar Mixer 3	Area	52.3	
Concrete Industrial Saw 1	Area	58.4	
Forklift 1	Area	43.5	
Forklift 2	Area	43.5	
Plate Compactor 1	Area	51.5	
Plate Compactor 2	Area	51.5	
Plate Compactor 3	Area	50.5	
Pump 1	Area	53.4	
Pump 2	Area	53.4	
Pump 3	Area	53.4	
Water Truck 1	Area	47.5	
Welder 1	Area	45.4	
Welder 2	Area	45.4	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport

Source Levels in dB(A) - 01d Building Construction

Name	Source type	Lw dB(A)	
Aerial Lift 1	Area	99.7	
Aerial Lift 2	Area	99.7	
Aerial Lift 3	Area	99.7	
Air Compressor 1	Area	105.7	
Air Compressor 2	Area	105.7	
Air Compressor 3	Area	105.7	
Concrete Industrial Saw 1	Area	114.7	
Concrete Industrial Saw 2	Area	114.7	
Crane (Mobile) 1	Area	104.7	
Crawler Tractor 1	Area	111.7	
Excavator 1	Area	108.7	
Excavator 2	Area	108.7	
Forklift 1	Area	99.7	
Forklift 2	Area	99.7	
Front End Loader1	Area	106.7	
Rough Terrain Forklift 1	Area	110.7	
Skid Steer Loader1	Area	106.7	
Tractor Loader Backhoe 1	Area	111.7	
Tractor Loader Backhoe 2	Area	111.7	
Trencher 1	Area	108.6	
Trencher 2	Area	108.6	
Water Truck 1	Area	103.7	
Welder 1	Area	101.7	
Welder 2	Area	101.7	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 01d Building Construction

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 67.5 dB(A)			
Aerial Lift 1	Area	44.9	
Aerial Lift 2	Area	44.9	
Aerial Lift 3	Area	44.9	
Air Compressor 1	Area	50.5	
Air Compressor 2	Area	50.5	
Air Compressor 3	Area	50.5	
Concrete Industrial Saw 1	Area	59.5	
Concrete Industrial Saw 2	Area	59.5	
Crane (Mobile) 1	Area	49.9	
Crawler Tractor 1	Area	56.9	
Excavator 1	Area	53.9	
Excavator 2	Area	53.9	
Forklift 1	Area	44.9	
Forklift 2	Area	44.9	
Front End Loader1	Area	51.9	
Rough Terrain Forklift 1	Area	55.9	
Skid Steer Loader1	Area	51.9	
Tractor Loader Backhoe 1	Area	56.9	
Tractor Loader Backhoe 2	Area	56.9	
Trencher 1	Area	53.8	
Trencher 2	Area	53.8	
Water Truck 1	Area	48.9	
Welder 1	Area	46.5	
Welder 2	Area	46.5	
Receiver R2 Leq,d 69.0 dB(A)			
Aerial Lift 1	Area	46.3	
Aerial Lift 2	Area	46.3	
Aerial Lift 3	Area	46.3	
Air Compressor 1	Area	51.9	
Air Compressor 2	Area	51.9	
Air Compressor 3	Area	51.9	
Concrete Industrial Saw 1	Area	60.9	
Concrete Industrial Saw 2	Area	60.9	
Crane (Mobile) 1	Area	51.3	
Crawler Tractor 1	Area	58.3	
Excavator 1	Area	55.3	
Excavator 2	Area	55.3	
Forklift 1	Area	46.3	
Forklift 2	Area	46.3	
Front End Loader1	Area	53.3	
Rough Terrain Forklift 1	Area	57.3	
Skid Steer Loader1	Area	53.3	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

1

9000 Airport Calculated Noise Levels - 01d Building Construction

Source	Source type	Leq,d dB(A)	
Tractor Loader Backhoe 1	Area	58.3	
Tractor Loader Backhoe 2	Area	58.3	
Trencher 1	Area	55.2	
Trencher 2	Area	55.2	
Water Truck 1	Area	50.3	
Welder 1	Area	47.9	
Welder 2	Area	47.9	
Receiver R3 Leq,d 70.4 dB(A)			
Aerial Lift 1	Area	47.8	
Aerial Lift 2	Area	47.8	
Aerial Lift 3	Area	47.8	
Air Compressor 1	Area	53.4	
Air Compressor 2	Area	53.4	
Air Compressor 3	Area	53.4	
Concrete Industrial Saw 1	Area	62.4	
Concrete Industrial Saw 2	Area	62.4	
Crane (Mobile) 1	Area	52.8	
Crawler Tractor 1	Area	59.8	
Excavator 1	Area	56.8	
Excavator 2	Area	56.8	
Forklift 1	Area	47.8	
Forklift 2	Area	47.8	
Front End Loader1	Area	54.8	
Rough Terrain Forklift 1	Area	58.8	
Skid Steer Loader1	Area	54.8	
Tractor Loader Backhoe 1	Area	59.8	
Tractor Loader Backhoe 2	Area	59.8	
Trencher 1	Area	56.7	
Trencher 2	Area	56.7	
Water Truck 1	Area	51.8	
Welder 1	Area	49.4	
Welder 2	Area	49.4	
Receiver R4 Leq,d 67.5 dB(A)			
Aerial Lift 1	Area	44.8	
Aerial Lift 2	Area	44.8	
Aerial Lift 3	Area	44.8	
Air Compressor 1	Area	50.6	
Air Compressor 2	Area	50.6	
Air Compressor 3	Area	50.6	
Concrete Industrial Saw 1	Area	59.6	
Concrete Industrial Saw 2	Area	59.6	
Crane (Mobile) 1	Area	49.8	
Crawler Tractor 1	Area	56.8	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

2

9000 Airport Calculated Noise Levels - 01d Building Construction

Source	Source type	Leq,d dB(A)	
Excavator 1	Area	53.8	
Excavator 2	Area	53.8	
Forklift 1	Area	44.8	
Forklift 2	Area	44.8	
Front End Loader1	Area	51.8	
Rough Terrain Forklift 1	Area	55.8	
Skid Steer Loader1	Area	51.8	
Tractor Loader Backhoe 1	Area	56.8	
Tractor Loader Backhoe 2	Area	56.8	
Trencher 1	Area	53.7	
Trencher 2	Area	53.7	
Water Truck 1	Area	48.8	
Welder 1	Area	46.6	
Welder 2	Area	46.6	
Receiver R5 Leq,d 66.3 dB(A)			
Aerial Lift 1	Area	43.5	
Aerial Lift 2	Area	43.5	
Aerial Lift 3	Area	43.5	
Air Compressor 1	Area	49.4	
Air Compressor 2	Area	49.4	
Air Compressor 3	Area	49.4	
Concrete Industrial Saw 1	Area	58.4	
Concrete Industrial Saw 2	Area	58.4	
Crane (Mobile) 1	Area	48.5	
Crawler Tractor 1	Area	55.5	
Excavator 1	Area	52.5	
Excavator 2	Area	52.5	
Forklift 1	Area	43.5	
Forklift 2	Area	43.5	
Front End Loader1	Area	50.5	
Rough Terrain Forklift 1	Area	54.5	
Skid Steer Loader1	Area	50.5	
Tractor Loader Backhoe 1	Area	55.5	
Tractor Loader Backhoe 2	Area	55.5	
Trencher 1	Area	52.4	
Trencher 2	Area	52.4	
Water Truck 1	Area	47.5	
Welder 1	Area	45.4	
Welder 2	Area	45.4	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport
Source Levels in dB(A) - 01e Paving

Name	Source type	Lw dB(A)	
Grader 1	Area	112.7	
Paver 1	Area	105.6	
Paving Equipment 1	Area	105.6	
Plate Compactor 1	Area	107.7	
Rubber Tired Dozer 1	Area	109.7	
Skid Steer Loader1	Area	106.7	
Trencher 1	Area	108.6	
Water Truck 1	Area	103.7	

9000 Airport Calculated Noise Levels - 01e Paving

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 62.6 dB(A)			
Grader 1	Area	57.9	
Paver 1	Area	50.8	
Paving Equipment 1	Area	50.8	
Plate Compactor 1	Area	52.9	
Rubber Tired Dozer 1	Area	54.9	
Skid Steer Loader1	Area	51.9	
Trencher 1	Area	53.8	
Water Truck 1	Area	48.9	
Receiver R2 Leq,d 64.1 dB(A)			
Grader 1	Area	59.3	
Paver 1	Area	52.2	
Paving Equipment 1	Area	52.2	
Plate Compactor 1	Area	54.3	
Rubber Tired Dozer 1	Area	56.3	
Skid Steer Loader1	Area	53.3	
Trencher 1	Area	55.2	
Water Truck 1	Area	50.3	
Receiver R3 Leq,d 65.5 dB(A)			
Grader 1	Area	60.8	
Paver 1	Area	53.7	
Paving Equipment 1	Area	53.7	
Plate Compactor 1	Area	55.8	
Rubber Tired Dozer 1	Area	57.8	
Skid Steer Loader1	Area	54.8	
Trencher 1	Area	56.7	
Water Truck 1	Area	51.8	
Receiver R4 Leq,d 62.5 dB(A)			
Grader 1	Area	57.8	
Paver 1	Area	50.7	
Paving Equipment 1	Area	50.7	
Plate Compactor 1	Area	52.8	
Rubber Tired Dozer 1	Area	54.8	
Skid Steer Loader1	Area	51.8	
Trencher 1	Area	53.7	
Water Truck 1	Area	48.8	
Receiver R5 Leq,d 61.2 dB(A)			
Grader 1	Area	56.5	
Paver 1	Area	49.4	
Paving Equipment 1	Area	49.4	
Plate Compactor 1	Area	51.5	
Rubber Tired Dozer 1	Area	53.5	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 01e Paving

Source	Source type	Leq,d dB(A)	
Skid Steer Loader1	Area	50.5	
Trencher 1	Area	52.4	
Water Truck 1	Area	47.5	

--	--	--	--

	AES 22801 Crespi St Woodland Hills, CA 91364 USA	2
--	--	---

9000 Airport

Source Levels in dB(A) - 01g Off-Site Improvements

Name	Source type	Lw dB(A)	
Off-Site Improvements - Loader 1	Area	106.7	
Off-Site Improvements - Loader 1	Area	106.7	
Off-Site Improvements - Loader 1	Line	106.7	
Off-Site Improvements - Loader 1	Line	106.7	
Off-Site Improvements - Loader 1	Area	106.7	
Off-Site Improvements - Loader 1	Area	106.7	
Off-Site Improvements - Loader 1	Area	106.7	
Off-Site Improvements - Loader 1	Area	106.7	
Off-Site Improvements - Loader 1	Area	106.7	
Off-Site Improvements - Trencher 1	Area	108.6	
Off-Site Improvements - Trencher 1	Area	108.6	
Off-Site Improvements - Trencher 1	Line	108.6	
Off-Site Improvements - Trencher 1	Line	108.6	
Off-Site Improvements - Trencher 1	Area	108.6	
Off-Site Improvements - Trencher 1	Area	108.6	
Off-Site Improvements - Trencher 1	Area	108.6	
Off-Site Improvements - Trencher 1	Area	108.6	
Off-Site Improvements - Trencher 1	Area	108.6	
Off-Site Improvements - Trencher 2	Area	108.6	
Off-Site Improvements - Trencher 2	Area	108.6	
Off-Site Improvements - Trencher 2	Line	108.6	
Off-Site Improvements - Trencher 2	Line	108.6	
Off-Site Improvements - Trencher 2	Area	108.6	
Off-Site Improvements - Trencher 2	Area	108.6	
Off-Site Improvements - Trencher 2	Area	108.6	
Off-Site Improvements - Trencher 2	Area	108.6	
Off-Site Improvements - Trencher 2	Area	108.6	
Off-Site Improvements - Trencher 2	Area	108.6	

9000 Airport

Calculated Noise Levels - 01g Off-Site Improvements

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 69.7 dB(A)			
Off-Site Improvements - Loader 1	Area	50.2	
Off-Site Improvements - Loader 1	Area	47.0	
Off-Site Improvements - Loader 1	Area	62.5	
Off-Site Improvements - Loader 1	Area	52.7	
Off-Site Improvements - Loader 1	Area	48.7	
Off-Site Improvements - Loader 1	Area	41.4	
Off-Site Improvements - Loader 1	Area	41.7	
Off-Site Improvements - Loader 1	Line	45.2	
Off-Site Improvements - Loader 1	Line	41.5	
Off-Site Improvements - Trencher 1	Area	52.1	
Off-Site Improvements - Trencher 1	Area	48.9	
Off-Site Improvements - Trencher 1	Area	64.4	
Off-Site Improvements - Trencher 1	Area	54.6	
Off-Site Improvements - Trencher 1	Area	50.6	
Off-Site Improvements - Trencher 1	Area	43.3	
Off-Site Improvements - Trencher 1	Area	43.6	
Off-Site Improvements - Trencher 1	Line	47.1	
Off-Site Improvements - Trencher 1	Line	43.4	
Off-Site Improvements - Trencher 2	Area	52.1	
Off-Site Improvements - Trencher 2	Area	48.9	
Off-Site Improvements - Trencher 2	Area	64.4	
Off-Site Improvements - Trencher 2	Area	54.6	
Off-Site Improvements - Trencher 2	Area	50.6	
Off-Site Improvements - Trencher 2	Area	43.3	
Off-Site Improvements - Trencher 2	Area	43.6	
Off-Site Improvements - Trencher 2	Line	47.1	
Off-Site Improvements - Trencher 2	Line	43.4	
Receiver R2 Leq,d 77.5 dB(A)			
Off-Site Improvements - Loader 1	Area	71.0	
Off-Site Improvements - Loader 1	Area	60.0	
Off-Site Improvements - Loader 1	Area	46.8	
Off-Site Improvements - Loader 1	Area	46.7	
Off-Site Improvements - Loader 1	Area	45.9	
Off-Site Improvements - Loader 1	Area	44.9	
Off-Site Improvements - Loader 1	Area	43.9	
Off-Site Improvements - Loader 1	Line	43.9	
Off-Site Improvements - Loader 1	Line	43.0	
Off-Site Improvements - Trencher 1	Area	72.9	
Off-Site Improvements - Trencher 1	Area	61.9	
Off-Site Improvements - Trencher 1	Area	48.7	
Off-Site Improvements - Trencher 1	Area	48.6	
Off-Site Improvements - Trencher 1	Area	47.8	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 01g Off-Site Improvements

Source	Source type	Leq,d dB(A)	
Off-Site Improvements - Trencher 1	Area	46.8	
Off-Site Improvements - Trencher 1	Area	45.8	
Off-Site Improvements - Trencher 1	Line	45.8	
Off-Site Improvements - Trencher 1	Line	44.9	
Off-Site Improvements - Trencher 2	Area	72.9	
Off-Site Improvements - Trencher 2	Area	61.9	
Off-Site Improvements - Trencher 2	Area	48.7	
Off-Site Improvements - Trencher 2	Area	48.6	
Off-Site Improvements - Trencher 2	Area	47.8	
Off-Site Improvements - Trencher 2	Area	46.8	
Off-Site Improvements - Trencher 2	Area	45.8	
Off-Site Improvements - Trencher 2	Line	45.8	
Off-Site Improvements - Trencher 2	Line	44.9	
Receiver R3 Leq,d 64.1 dB(A)			
Off-Site Improvements - Loader 1	Area	44.4	
Off-Site Improvements - Loader 1	Area	46.3	
Off-Site Improvements - Loader 1	Area	42.9	
Off-Site Improvements - Loader 1	Area	44.0	
Off-Site Improvements - Loader 1	Area	44.8	
Off-Site Improvements - Loader 1	Area	54.7	
Off-Site Improvements - Loader 1	Area	49.7	
Off-Site Improvements - Loader 1	Line	45.1	
Off-Site Improvements - Loader 1	Line	47.6	
Off-Site Improvements - Trencher 1	Area	46.3	
Off-Site Improvements - Trencher 1	Area	48.2	
Off-Site Improvements - Trencher 1	Area	44.8	
Off-Site Improvements - Trencher 1	Area	45.9	
Off-Site Improvements - Trencher 1	Area	46.7	
Off-Site Improvements - Trencher 1	Area	56.6	
Off-Site Improvements - Trencher 1	Area	51.6	
Off-Site Improvements - Trencher 1	Line	47.0	
Off-Site Improvements - Trencher 1	Line	49.5	
Off-Site Improvements - Trencher 2	Area	46.3	
Off-Site Improvements - Trencher 2	Area	48.2	
Off-Site Improvements - Trencher 2	Area	44.8	
Off-Site Improvements - Trencher 2	Area	45.9	
Off-Site Improvements - Trencher 2	Area	46.7	
Off-Site Improvements - Trencher 2	Area	56.6	
Off-Site Improvements - Trencher 2	Area	51.6	
Off-Site Improvements - Trencher 2	Line	47.0	
Off-Site Improvements - Trencher 2	Line	49.5	
Receiver R4 Leq,d 74.5 dB(A)			
Off-Site Improvements - Loader 1	Area	41.2	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 01g Off-Site Improvements

Source	Source type	Leq,d dB(A)	
Off-Site Improvements - Loader 1	Area	41.1	
Off-Site Improvements - Loader 1	Area	41.7	
Off-Site Improvements - Loader 1	Area	43.4	
Off-Site Improvements - Loader 1	Area	45.6	
Off-Site Improvements - Loader 1	Area	50.5	
Off-Site Improvements - Loader 1	Area	62.2	
Off-Site Improvements - Loader 1	Line	54.0	
Off-Site Improvements - Loader 1	Line	66.8	
Off-Site Improvements - Trencher 1	Area	43.1	
Off-Site Improvements - Trencher 1	Area	43.0	
Off-Site Improvements - Trencher 1	Area	43.6	
Off-Site Improvements - Trencher 1	Area	45.3	
Off-Site Improvements - Trencher 1	Area	47.5	
Off-Site Improvements - Trencher 1	Area	52.4	
Off-Site Improvements - Trencher 1	Area	64.1	
Off-Site Improvements - Trencher 1	Line	55.9	
Off-Site Improvements - Trencher 1	Line	68.7	
Off-Site Improvements - Trencher 2	Area	43.1	
Off-Site Improvements - Trencher 2	Area	43.0	
Off-Site Improvements - Trencher 2	Area	43.6	
Off-Site Improvements - Trencher 2	Area	45.3	
Off-Site Improvements - Trencher 2	Area	47.5	
Off-Site Improvements - Trencher 2	Area	52.4	
Off-Site Improvements - Trencher 2	Area	64.1	
Off-Site Improvements - Trencher 2	Line	55.9	
Off-Site Improvements - Trencher 2	Line	68.7	
Receiver R5 Leq,d 70.2 dB(A)			
Off-Site Improvements - Loader 1	Area	45.4	
Off-Site Improvements - Loader 1	Area	44.2	
Off-Site Improvements - Loader 1	Area	55.7	
Off-Site Improvements - Loader 1	Area	62.0	
Off-Site Improvements - Loader 1	Area	55.3	
Off-Site Improvements - Loader 1	Area	41.5	
Off-Site Improvements - Loader 1	Area	42.9	
Off-Site Improvements - Loader 1	Line	51.0	
Off-Site Improvements - Loader 1	Line	43.2	
Off-Site Improvements - Trencher 1	Area	47.3	
Off-Site Improvements - Trencher 1	Area	46.1	
Off-Site Improvements - Trencher 1	Area	57.6	
Off-Site Improvements - Trencher 1	Area	63.9	
Off-Site Improvements - Trencher 1	Area	57.2	
Off-Site Improvements - Trencher 1	Area	43.4	
Off-Site Improvements - Trencher 1	Area	44.8	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport **Calculated Noise Levels - 01g Off-Site Improvements**

Source	Source type	Leq,d dB(A)	
Off-Site Improvements - Trencher 1	Line	52.9	
Off-Site Improvements - Trencher 1	Line	45.1	
Off-Site Improvements - Trencher 2	Area	47.3	
Off-Site Improvements - Trencher 2	Area	46.1	
Off-Site Improvements - Trencher 2	Area	57.6	
Off-Site Improvements - Trencher 2	Area	63.9	
Off-Site Improvements - Trencher 2	Area	57.2	
Off-Site Improvements - Trencher 2	Area	43.4	
Off-Site Improvements - Trencher 2	Area	44.8	
Off-Site Improvements - Trencher 2	Line	52.9	
Off-Site Improvements - Trencher 2	Line	45.1	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

Project: 9000 Airport Project

Off-Site Haul Trucks - Option 1

Daytime Construction Phase	Maximum Number of Truck One Way Trips (delivery/haul)		Airport Blvd.	Arbor Vitae St.	Manchester Ave.
	Per Day	Per Hour (8- hr day)			
TNM noise levels for 1 trucks			50	50	48.4
1. Demolition	10	2	53.0	53.0	51.4
2. Grading/Excavation	114	19	62.8	62.8	61.2
3. Building Foundation	200	25	64.0	64.0	62.4
4. Building Construction	20	3	54.8	54.8	53.2
5. Paving/Landscape	40	5	57.0	57.0	55.4
6. Overlapping of Building Construction and Paving/Landscape	60	8	59.0	59.0	57.4
*6-hours for haulings (demo & grading)		Ambient	69.6	63.1	63.1
*8-hours for other phases		Threshold	80.0	80.0	80.0

Project: 9000 Airport Project

Off-Site Haul Trucks - Option 2

Daytime Construction Phase	Maximum Number of Truck One Way Trips (delivery/haul)		Airport Blvd.	Arbor Vitae St.	Manchester Ave.
	Per Day	Per Hour (8- hr day)			
TNM noise levels for 1 trucks			50	50	48.4
1. Demolition	10	2	53.0	53.0	51.4
2. Grading/Excavation	70	12	60.8	60.8	59.2
3. Building Foundation	200	25	64.0	64.0	62.4
4. Building Construction	20	3	54.8	54.8	53.2
5. Paving/Landscape	40	5	57.0	57.0	55.4
6. Overlapping of Building Construction and Paving/Landscape	60	8	59.0	59.0	57.4
*6-hours for haulings (demo & grading)		Ambient	69.6	63.1	63.1
*8-hours for other phases		Threshold	80.0	80.0	80.0

INPUT: ROADWAYS
9000 Airport Project

Eyestone Environmental											
Sean Bui											
INPUT: ROADWAYS				22 October 2025							
PROJECT/CONTRACT:				TNM 2.5							
RUN:											
9000 Airport Project								Average pavement type shall be used unless			
Construction - 1 truck trip								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	Speed	Percent	Pvmt	On
							Device	Constraint	Vehicles	Type	Struct?
									Affected		
	ft			ft	ft	ft		mph	%		
Haul 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					

INPUT: TRAFFIC FOR LAeq1h Volumes

9000 Airport Project

Eyestone Environmental				22 October 2025								
Sean Bui				TNM 2.5								
INPUT: TRAFFIC FOR LAeq1h Volumes												
PROJECT/CONTRACT:	9000 Airport Project											
RUN:	Construction - 1 truck trip											
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
Haul Route	point1	1	0	0	0	0	1	35	0	0	0	0
	point2	2										

INPUT: RECEIVERS

9000 Airport Project

Eyestone Environmental											
Sean Bui											
INPUT: RECEIVERS											
PROJECT/CONTRACT:	9000 Airport Project										
RUN:	Construction - 1 truck trip										
Receiver											
Name	No.	#DUs	Coordinates (ground)			Height	Input Sound Levels and Criteria				Active
			X	Y	Z	above	Existing	Impact Criteria		NR	in
						Ground	L_{Aeq}1h	L_{Aeq}1h	Sub'l	Goal	Calc.
			ft	ft	ft	ft	dBA	dBA	dB	dB	
Airport Blvd. and Arbor Vitae St.	8	1	500.0	35.0	0.00	4.92	0.00	66	10.0	8.0	Y
Manchester Ave.	14	1	500.0	50.0	0.00	4.92	0.00	66	10.0	8.0	Y

RESULTS: SOUND LEVELS
9000 Airport Project

Eyestone Environmental												
Sean Bui												
RESULTS: SOUND LEVELS												
PROJECT/CONTRACT:												
RUN:												
BARRIER DESIGN:												
ATMOSPHERICS:												
Receiver												
Name	No.	#DUs	Existing	No Barrier					With Barrier			
			LAeq1h	LAeq1h		Increase over existing		Type	Calculated	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n	Impact	LAeq1h	Calculated	Goal	Calculated
							Sub'l Inc					minus
												Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
Airport Blvd. and Arbor Vitae St.	8	1	0.0	50.0	66	50.0	10	----	50.0	0.0	8	-8.0
Manchester Ave.	14	1	0.0	48.4	66	48.4	10	----	48.4	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		0	0.0	0.0	0.0							

Project: 9000 Airport Project

Construction Vibration Impacts - Option 1 and Option 2

Reference Levels at 25 feet are based on FTA, 2006 (Transit Noise and Vibration Impact Assessment)

Calculations using Caltrans procedure with n= **1.1** (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							
		Multi-story Residential Buildings to the North		Single-story and 2-story Commercial Buildings to the South		Single- and Multi-story Residential Buildings to the East		Multi-story Residential Buildings to the West	
		Distance	Level	Distance	Level	Distance	Level	Distance	Level
Vibratory Roller	0.210	60	0.080	90	0.051	35	0.145	120	0.037
Large Bulldozer	0.089	60	0.034	90	0.022	10	0.244	120	0.016
Caisson Drilling	0.089	60	0.034	90	0.022	10	0.244	120	0.016
Loaded Trucks	0.076	60	0.029	90	0.019	10	0.208	120	0.014
Jackhammer	0.035	60	0.013	90	0.009	10	0.096	120	0.006
Small bulldozer	0.003	60	0.001	90	0.001	10	0.0082	120	0.001

Operational Noise Calculations

Project Composite Noise Calculations (CNEL)

Project: 9000 Airport Project - Option 1

Receptor	Ambient	Mechanical	Loading	Parking	Off-Site Trucks	Project Composite	Ambient + Project	Increase
R1	71.3	43.9	48.2	56.0	54.3	58.8	71.5	0.2
R2	67.5	46.4	52.6	37.2	39.7	53.8	67.7	0.2
R3	69.1	43.4	64.3	34.3	49.7	64.5	70.4	1.3
R4	71.9	46.1	57.0	55.4	68.5	69.0	73.7	1.8
R5	74.6	48.9	70.5	55.7	68.2	72.6	76.7	2.1

Outdoor Mechanical Equipment Noise Calculations

Project: 9000 Airport Project - Option 1

		Hours of Operations			
Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)	
Receptor	Leq	CNEL			
R1	37.2	43.9	37.2	37.2	37.2
R2	39.7	46.4	39.7	39.7	39.7
R3	36.7	43.4	36.7	36.7	36.7
R4	39.4	46.1	39.4	39.4	39.4
R5	42.2	48.9	42.2	42.2	42.2

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.3	71.3	0.0	62.6	62.6	0.0
R2	67.5	67.5	0.0	57.8	57.9	0.1
R3	69.1	69.1	0.0	57.6	57.6	0.0
R4	71.9	71.9	0.0	65.0	65.0	0.0
R5	74.6	74.6	0.0	69.5	69.5	0.0

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	62.6	37.2	62.6	0.0	67.6
R2	57.8	39.7	57.9	0.1	62.8
R3	57.6	36.7	57.6	0.0	62.6
R4	65.0	39.4	65.0	0.0	70.0
R5	69.5	42.2	69.5	0.0	74.5

Loading Noise Calculations

Project: 9000 Airport Project - Option 1

Hours of Operations					
Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	41.5	48.2	41.5	41.5	41.5
R2	45.9	52.6	45.9	45.9	45.9
R3	57.6	64.3	57.6	57.6	57.6
R4	50.3	57.0	50.3	50.3	50.3
R5	63.8	70.5	63.8	63.8	63.8

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.3	71.3	0.0	62.6	62.6	0.0
R2	67.5	67.6	0.1	57.8	58.1	0.3
R3	69.1	70.3	1.2	57.6	60.6	3.0
R4	71.9	72.0	0.1	65.0	65.1	0.1
R5	74.6	76.0	1.4	69.5	70.5	1.0

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	62.6	41.5	62.6	0.0	67.6
R2	57.8	45.9	58.1	0.3	62.8
R3	57.6	57.6	60.6	3.0	62.6
R4	65.0	50.3	65.1	0.1	70.0
R5	69.5	63.8	70.5	1.0	74.5

Parking Noise Calculations

Project: 9000 Airport Project - Option 1

Hours of Operations					
Estimated Noise Levels, Leq from SOUNDPLAN			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	30.5	37.2	30.5	30.5	30.5
R3	27.6	34.3	27.6	27.6	27.6
R4	48.7	55.4	48.7	48.7	48.7
R5	49.0	55.7	49.0	49.0	49.0

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.3	71.4	0.1	62.6	62.8	0.2
R2	67.5	67.5	0.0	57.8	57.8	0.0
R3	69.1	69.1	0.0	57.6	57.6	0.0
R4	71.9	72.0	0.1	65.0	65.1	0.1
R5	74.6	74.7	0.1	69.5	69.5	0.0

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	62.6	49.3	62.8	0.2	67.6
R2	57.8	30.5	57.8	0.0	62.8
R3	57.6	27.6	57.6	0.0	62.6
R4	65.0	48.7	65.1	0.1	70.0
R5	69.5	49.0	69.5	0.0	74.5

Off-Site Truck Noise Calculations

Project: 9000 Airport Project - Option 1

		Hours of Operations			
Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)	
Receptor	Leq	CNEL			
R1	47.6	54.3	47.6	47.6	47.6
R2	33.0	39.7	33.0	33.0	33.0
R3	43.0	49.7	43.0	43.0	43.0
R4	61.8	68.5	61.8	61.8	61.8
R5	61.5	68.2	61.5	61.5	61.5

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.3	71.4	0.1	62.6	62.7	0.1
R2	67.5	67.5	0.0	57.8	57.8	0.0
R3	69.1	69.1	0.0	57.6	57.7	0.1
R4	71.9	73.5	1.6	65.0	66.7	1.7
R5	74.6	75.5	0.9	69.5	70.1	0.6

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	62.6	47.6	62.7	0.1	67.6
R2	57.8	33.0	57.8	0.0	62.8
R3	57.6	43.0	57.7	0.1	62.6
R4	65.0	61.8	66.7	1.7	70.0
R5	69.5	61.5	70.1	0.6	74.5

Project Composite Noise Calculations (CNEL)

Project: 9000 Airport Project - Option 2

Receptor	Ambient	Mechanical	Loading	Parking	Off-site Trucks	Project Composite	Ambient + Project	Increase
R1	71.3	48.2	50.8	33.3	42.7	53.1	71.4	0.1
R2	67.5	50.7	67.0	53.8	44.4	67.3	70.4	2.9
R3	69.1	47.4	52.9	38.2	50.1	55.5	69.3	0.2
R4	71.9	49.7	65.7	52.5	66.3	69.1	73.7	1.8
R5	74.6	50.8	64.1	48.1	64.1	67.2	75.3	0.7

Outdoor Mechanical Equipment Noise Calculations

Project: 9000 Airport Project - Option 2

		Hours of Operations			
Estimated Noise Levels, Leq from SOUNDPLAN		Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)	
Receptor	Leq	CNEL			
R1	41.5	48.2	41.5	41.5	41.5
R2	44.0	50.7	44.0	44.0	44.0
R3	40.7	47.4	40.7	40.7	40.7
R4	43.0	49.7	43.0	43.0	43.0
R5	44.1	50.8	44.1	44.1	44.1

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.3	71.3	0.0	62.6	62.6	0.0
R2	67.5	67.6	0.1	57.8	58.0	0.2
R3	69.1	69.1	0.0	57.6	57.7	0.1
R4	71.9	71.9	0.0	65.0	65.0	0.0
R5	74.6	74.6	0.0	69.5	69.5	0.0

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	62.6	41.5	62.6	0.0	67.6
R2	57.8	44.0	58.0	0.2	62.8
R3	57.6	40.7	57.7	0.1	62.6
R4	65.0	43.0	65.0	0.0	70.0
R5	69.5	44.1	69.5	0.0	74.5

Loading Noise Calculations

Project: 9000 Airport Project - Option 2

Hours of Operations					
Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	44.1	50.8	44.1	44.1	44.1
R2	60.3	67.0	60.3	60.3	60.3
R3	46.2	52.9	46.2	46.2	46.2
R4	59.0	65.7	59.0	59.0	59.0
R5	57.4	64.1	57.4	57.4	57.4

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.3	71.3	0.0	62.6	62.7	0.1
R2	67.5	70.3	2.8	57.8	62.2	4.4
R3	69.1	69.2	0.1	57.6	57.9	0.3
R4	71.9	72.8	0.9	65.0	66.0	1.0
R5	74.6	75.0	0.4	69.5	69.8	0.3

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	62.6	44.1	62.7	0.1	67.6
R2	57.8	60.3	62.2	4.4	62.8
R3	57.6	46.2	57.9	0.3	62.6
R4	65.0	59.0	66.0	1.0	70.0
R5	69.5	57.4	69.8	0.3	74.5

Parking Noise Calculations

Project: 9000 Airport Project - Option 2

Hours of Operations					
Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	26.6	33.3	26.6	26.6	26.6
R2	47.1	53.8	47.1	47.1	47.1
R3	31.5	38.2	31.5	31.5	31.5
R4	45.8	52.5	45.8	45.8	45.8
R5	41.4	48.1	41.4	41.4	41.4

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.3	71.3	0.0	62.6	62.6	0.0
R2	67.5	67.7	0.2	57.8	58.2	0.4
R3	69.1	69.1	0.0	57.6	57.6	0.0
R4	71.9	71.9	0.0	65.0	65.1	0.1
R5	74.6	74.6	0.0	69.5	69.5	0.0

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	62.6	26.6	62.6	0.0	67.6
R2	57.8	47.1	58.2	0.4	62.8
R3	57.6	31.5	57.6	0.0	62.6
R4	65.0	45.8	65.1	0.1	70.0
R5	69.5	41.4	69.5	0.0	74.5

Off-Site Truck Noise Calculations

Project: 9000 Airport Project - Option 2

Hours of Operations					
Estimated Noise Levels, Leq from SOUNDPLAN			Ld (7am to 7pm)	Le (7pm to 10pm)	Ln (10pm to 7am)
Receptor	Leq	CNEL	12	3	9
R1	36.0	42.7	36.0	36.0	36.0
R2	37.7	44.4	37.7	37.7	37.7
R3	43.4	50.1	43.4	43.4	43.4
R4	59.6	66.3	59.6	59.6	59.6
R5	57.4	64.1	57.4	57.4	57.4

Receptor	Ambient CNEL	Ambient + Project (CNEL)	Increase (CNEL)	ambient (Leq)	Ambient + Project (Leq)	Increase (Leq)
R1	71.3	71.3	0.0	62.6	62.6	0.0
R2	67.5	67.5	0.0	57.8	57.8	0.0
R3	69.1	69.2	0.1	57.6	57.8	0.2
R4	71.9	73.0	1.1	65.0	66.1	1.1
R5	74.6	75.0	0.4	69.5	69.8	0.3

For Report

Receptor	ambient (Leq)	Project (Leq)	Ambient + Project (Leq)	Increase (Leq)	Threshold
R1	62.6	36.0	62.6	0.0	67.6
R2	57.8	37.7	57.8	0.0	62.8
R3	57.6	43.4	57.8	0.2	62.6
R4	65.0	59.6	66.1	1.1	70.0
R5	69.5	57.4	69.8	0.3	74.5

9000 Airport
Source Levels in dB(A) - 02a Mechanical Option 1

[illegible]

9000 Airport

Calculated Noise Levels - 02a Mechanical Option 1

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 37.2 dB(A)			
Mechanical	Point	30.0	
Mechanical	Point	29.5	
Mechanical	Point	28.7	
Mechanical	Point	25.6	
Mechanical	Point	25.4	
Mechanical	Point	24.9	
Mechanical	Point	22.8	
Mechanical	Point	22.7	
Mechanical	Point	22.4	
Mechanical	Point	20.8	
Mechanical	Point	20.7	
Mechanical	Point	20.5	
Mechanical	Point	19.2	
Mechanical	Point	19.2	
Mechanical	Point	19.0	
Mechanical	Point	17.9	
Mechanical	Point	17.9	
Mechanical	Point	17.8	
Mechanical	Point	16.8	
Mechanical	Point	16.8	
Mechanical	Point	16.7	
Mechanical	Point	15.9	
Mechanical	Point	15.9	
Mechanical	Point	15.8	
Receiver R2 Leq,d 39.7 dB(A)			
Mechanical	Point	23.9	
Mechanical	Point	26.9	
Mechanical	Point	33.3	
Mechanical	Point	24.0	
Mechanical	Point	27.0	
Mechanical	Point	33.7	
Mechanical	Point	20.4	
Mechanical	Point	22.9	
Mechanical	Point	27.5	
Mechanical	Point	19.9	
Mechanical	Point	22.2	
Mechanical	Point	26.3	
Mechanical	Point	19.4	
Mechanical	Point	21.5	
Mechanical	Point	25.2	
Mechanical	Point	18.9	
Mechanical	Point	20.9	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport

Calculated Noise Levels - 02a Mechanical Option 1

Source	Source type	Leq,d dB(A)	
Mechanical	Point	24.5	
Mechanical	Point	18.4	
Mechanical	Point	20.4	
Mechanical	Point	24.0	
Mechanical	Point	18.1	
Mechanical	Point	20.0	
Mechanical	Point	23.7	
Receiver R3 Leq,d 36.7 dB(A)			
Mechanical	Point	17.2	
Mechanical	Point	19.1	
Mechanical	Point	22.7	
Mechanical	Point	17.6	
Mechanical	Point	19.6	
Mechanical	Point	23.1	
Mechanical	Point	18.2	
Mechanical	Point	20.2	
Mechanical	Point	23.8	
Mechanical	Point	18.8	
Mechanical	Point	20.9	
Mechanical	Point	24.7	
Mechanical	Point	19.3	
Mechanical	Point	21.7	
Mechanical	Point	25.9	
Mechanical	Point	19.8	
Mechanical	Point	22.4	
Mechanical	Point	27.3	
Mechanical	Point	20.0	
Mechanical	Point	22.7	
Mechanical	Point	27.9	
Mechanical	Point	19.7	
Mechanical	Point	22.3	
Mechanical	Point	26.9	
Receiver R4 Leq,d 39.4 dB(A)			
Mechanical	Point	17.4	
Mechanical	Point	17.4	
Mechanical	Point	17.4	
Mechanical	Point	18.4	
Mechanical	Point	18.3	
Mechanical	Point	18.3	
Mechanical	Point	19.5	
Mechanical	Point	19.4	
Mechanical	Point	19.3	
Mechanical	Point	20.8	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

2

9000 Airport **Calculated Noise Levels - 02a Mechanical Option 1**

Source	Source type	Leq,d dB(A)	
Mechanical	Point	20.7	
Mechanical	Point	20.6	
Mechanical	Point	22.4	
Mechanical	Point	22.3	
Mechanical	Point	22.1	
Mechanical	Point	24.5	
Mechanical	Point	24.3	
Mechanical	Point	24.0	
Mechanical	Point	27.6	
Mechanical	Point	27.1	
Mechanical	Point	26.6	
Mechanical	Point	33.1	
Mechanical	Point	32.1	
Mechanical	Point	31.0	
Receiver R5 Leq,d 42.2 dB(A)			
Mechanical	Point	29.1	
Mechanical	Point	26.4	
Mechanical	Point	24.2	
Mechanical	Point	32.7	
Mechanical	Point	29.3	
Mechanical	Point	26.8	
Mechanical	Point	32.0	
Mechanical	Point	29.0	
Mechanical	Point	26.7	
Mechanical	Point	31.1	
Mechanical	Point	28.6	
Mechanical	Point	26.5	
Mechanical	Point	30.1	
Mechanical	Point	28.1	
Mechanical	Point	26.3	
Mechanical	Point	29.1	
Mechanical	Point	27.6	
Mechanical	Point	26.0	
Mechanical	Point	28.1	
Mechanical	Point	27.0	
Mechanical	Point	25.7	
Mechanical	Point	27.2	
Mechanical	Point	26.3	
Mechanical	Point	25.3	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport
Source Levels in dB(A) - 02b Loading Option 1

Name	Source type	Lw dB(A)	
Loading Dock	Point	101.9	
Loading Dock	Point	101.9	
Loading Dock	Point	101.9	
Loading Dock	Point	101.9	

	AES 22801 Crespi St Woodland Hills, CA 91364 USA	2
--	--	---

9000 Airport

Calculated Noise Levels - 02b Loading Option 1

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 41.5 dB(A)			
Loading Dock	Point	29.8	
Loading Dock	Point	29.5	
Loading Dock	Point	29.1	
Loading Dock	Point	28.8	
Loading Dock	Point	28.4	
Loading Dock	Point	28.1	
Loading Dock	Point	27.8	
Loading Dock	Point	27.5	
Loading Dock	Point	26.9	
Loading Dock	Point	26.6	
Loading Dock	Point	26.4	
Loading Dock	Point	26.1	
Loading Dock	Point	25.9	
Loading Dock	Point	25.6	
Loading Dock	Point	25.4	
Loading Dock	Point	24.9	
Loading Dock	Point	24.7	
Loading Dock	Point	24.5	
Loading Dock	Point	24.3	
Loading Dock	Point	24.0	
Loading Dock	Point	23.8	
Loading Dock	Point	23.6	
Loading Dock	Point	23.2	
Loading Dock	Point	23.1	
Loading Dock	Point	22.9	
Loading Dock	Point	22.7	
Loading Dock	Point	22.5	
Loading Dock	Point	22.3	
Loading Dock	Point	22.2	
Loading Dock	Point	21.8	
Loading Dock	Point	21.6	
Loading Dock	Point	21.5	
Loading Dock	Point	21.3	
Loading Dock	Point	21.2	
Loading Dock	Point	21.0	
Loading Dock	Point	20.9	
Loading Dock	Point	22.2	
Loading Dock	Point	22.1	
Loading Dock	Point	22.1	
Loading Dock	Point	22.0	
Loading Dock	Point	22.0	
Loading Dock	Point	21.9	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport

Calculated Noise Levels - 02b Loading Option 1

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	21.9	
Receiver R2 Leq,d 40.4 dB(A)			
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.2	
Loading Dock	Point	25.2	
Loading Dock	Point	25.1	
Loading Dock	Point	25.1	
Loading Dock	Point	25.0	
Loading Dock	Point	25.0	
Loading Dock	Point	24.8	
Loading Dock	Point	24.7	
Loading Dock	Point	24.7	
Loading Dock	Point	24.6	
Loading Dock	Point	24.5	
Loading Dock	Point	24.4	
Loading Dock	Point	24.3	
Loading Dock	Point	24.1	
Loading Dock	Point	24.0	
Loading Dock	Point	23.9	
Loading Dock	Point	23.8	
Loading Dock	Point	23.6	
Loading Dock	Point	23.5	
Loading Dock	Point	23.4	
Loading Dock	Point	23.2	
Loading Dock	Point	23.0	
Loading Dock	Point	22.9	
Loading Dock	Point	22.8	
Loading Dock	Point	22.7	
Loading Dock	Point	22.5	
Loading Dock	Point	22.4	
Loading Dock	Point	22.2	
Loading Dock	Point	22.0	
Loading Dock	Point	21.9	
Loading Dock	Point	21.8	
Loading Dock	Point	21.7	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport **Calculated Noise Levels - 02b Loading Option 1**

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	21.5	
Loading Dock	Point	21.3	
Receiver R3 Leq,d 40.2 dB(A)			
Loading Dock	Point	20.9	
Loading Dock	Point	21.0	
Loading Dock	Point	21.1	
Loading Dock	Point	21.3	
Loading Dock	Point	21.4	
Loading Dock	Point	21.5	
Loading Dock	Point	21.6	
Loading Dock	Point	21.8	
Loading Dock	Point	22.0	
Loading Dock	Point	22.2	
Loading Dock	Point	22.3	
Loading Dock	Point	22.4	
Loading Dock	Point	22.5	
Loading Dock	Point	22.7	
Loading Dock	Point	22.8	
Loading Dock	Point	23.1	
Loading Dock	Point	23.2	
Loading Dock	Point	23.3	
Loading Dock	Point	23.4	
Loading Dock	Point	23.6	
Loading Dock	Point	23.7	
Loading Dock	Point	23.8	
Loading Dock	Point	24.0	
Loading Dock	Point	24.2	
Loading Dock	Point	24.3	
Loading Dock	Point	24.4	
Loading Dock	Point	24.5	
Loading Dock	Point	24.6	
Loading Dock	Point	24.7	
Loading Dock	Point	24.9	
Loading Dock	Point	25.0	
Loading Dock	Point	25.1	
Loading Dock	Point	25.1	
Loading Dock	Point	25.2	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.4	
Loading Dock	Point	25.5	
Loading Dock	Point	25.5	
Loading Dock	Point	25.6	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport **Calculated Noise Levels - 02b Loading Option 1**

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	25.6	
Loading Dock	Point	25.6	
Loading Dock	Point	25.6	
Receiver R4 Leq,d 46.3 dB(A)			
Loading Dock	Point	31.1	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	30.9	
Loading Dock	Point	30.9	
Loading Dock	Point	29.9	
Loading Dock	Point	29.9	
Loading Dock	Point	29.9	
Loading Dock	Point	29.8	
Loading Dock	Point	29.8	
Loading Dock	Point	29.8	
Loading Dock	Point	29.8	
Loading Dock	Point	29.7	
Loading Dock	Point	29.7	
Loading Dock	Point	29.7	
Loading Dock	Point	29.7	
Loading Dock	Point	29.7	
Loading Dock	Point	29.6	
Loading Dock	Point	29.6	
Loading Dock	Point	29.6	
Loading Dock	Point	29.6	
Loading Dock	Point	29.6	
Loading Dock	Point	29.5	
Loading Dock	Point	29.5	
Loading Dock	Point	29.5	
Loading Dock	Point	29.4	
Loading Dock	Point	29.4	
Loading Dock	Point	29.4	
Loading Dock	Point	29.3	
Loading Dock	Point	29.3	
Loading Dock	Point	29.2	
Loading Dock	Point	29.1	
Loading Dock	Point	29.2	
Loading Dock	Point	29.4	
Loading Dock	Point	29.5	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport **Calculated Noise Levels - 02b Loading Option 1**

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	29.6	
Loading Dock	Point	29.8	
Loading Dock	Point	30.0	
Loading Dock	Point	30.4	
Receiver R5 Leq,d 63.8 dB(A)			
Loading Dock	Point	50.8	
Loading Dock	Point	50.7	
Loading Dock	Point	50.6	
Loading Dock	Point	50.5	
Loading Dock	Point	50.4	
Loading Dock	Point	50.2	
Loading Dock	Point	50.1	
Loading Dock	Point	49.9	
Loading Dock	Point	49.6	
Loading Dock	Point	49.5	
Loading Dock	Point	49.3	
Loading Dock	Point	49.1	
Loading Dock	Point	49.0	
Loading Dock	Point	47.8	
Loading Dock	Point	47.3	
Loading Dock	Point	46.7	
Loading Dock	Point	46.6	
Loading Dock	Point	46.4	
Loading Dock	Point	46.3	
Loading Dock	Point	46.1	
Loading Dock	Point	46.0	
Loading Dock	Point	45.9	
Loading Dock	Point	45.6	
Loading Dock	Point	45.5	
Loading Dock	Point	45.3	
Loading Dock	Point	45.2	
Loading Dock	Point	45.0	
Loading Dock	Point	44.9	
Loading Dock	Point	44.8	
Loading Dock	Point	44.5	
Loading Dock	Point	44.4	
Loading Dock	Point	44.2	
Loading Dock	Point	44.1	
Loading Dock	Point	44.0	
Loading Dock	Point	43.9	
Loading Dock	Point	45.5	
Loading Dock	Point	45.4	
Loading Dock	Point	45.4	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 02b Loading Option 1

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	45.4	
Loading Dock	Point	45.3	
Loading Dock	Point	45.3	
Loading Dock	Point	45.3	
Loading Dock	Point	45.3	

9000 Airport
Input data parking lots - 02c Parking Option 1

Parking lot	Number of Parking Spaces	
North Parking Option 1	118	
South Parking Option 1	156	
West Parking Option 1	90	

9000 Airport **Calculated Noise Levels - 02c Parking Option 1**

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 49.3 dB(A)			
North Parking Option 1	PLot	49.2	
South Parking Option 1	PLot	12.9	
West Parking Option 1	PLot	29.2	
Receiver R2 Leq,d 30.5 dB(A)			
North Parking Option 1	PLot	28.7	
South Parking Option 1	PLot	12.6	
West Parking Option 1	PLot	25.5	
Receiver R3 Leq,d 27.6 dB(A)			
North Parking Option 1	PLot	11.3	
South Parking Option 1	PLot	23.8	
West Parking Option 1	PLot	25.1	
Receiver R4 Leq,d 48.7 dB(A)			
North Parking Option 1	PLot	23.7	
South Parking Option 1	PLot	47.0	
West Parking Option 1	PLot	43.6	
Receiver R5 Leq,d 49.0 dB(A)			
North Parking Option 1	PLot	41.1	
South Parking Option 1	PLot	30.0	
West Parking Option 1	PLot	48.2	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Emission calculation road - 02d Offsite Truck Option 1

Road	Vehicle Trips Per Hour (Veh/h), Daytime	Vehicle Trips Per Hour (Veh/h), Nighttime	
Delivery Truck - Arriving (North)	12.00	12.00	
Delivery Truck - Arriving (North)	12.00	12.00	
Delivery Truck - Arriving (North)	12.00	12.00	
Delivery Truck - Arriving (South)	12.00	12.00	
Delivery Truck - Arriving (South)	12.00	12.00	
Delivery Truck - Arriving (South)	12.00	12.00	
Delivery Truck - Leaving (North)	12.00	12.00	
Delivery Truck - Leaving (North)	12.00	12.00	
Delivery Truck - Leaving (Onsite)	12.00	12.00	
Delivery Truck - Leaving (South)	12.00	12.00	
Delivery Truck - Leaving (South)	12.00	12.00	
Delivery Truck - Leaving (South)	12.00	12.00	
Delivery Truck - Leaving (South)	12.00	12.00	
Delivery Truck -Incoming (Onsite)	12.00	12.00	

9000 Airport

Calculated Noise Levels - 02d Offsite Truck Option 1

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 47.6 dB(A)			
Delivery Truck -Incoming (Onsite)	Road	33.6	
Delivery Truck - Leaving (North)	Road	46.8	
Delivery Truck - Leaving (South)	Road	21.2	
Delivery Truck - Arriving (South)	Road	16.9	
Delivery Truck - Arriving (North)	Road	39.0	
Delivery Truck - Leaving (Onsite)	Road	23.8	
Receiver R2 Leq,d 33.0 dB(A)			
Delivery Truck -Incoming (Onsite)	Road	21.4	
Delivery Truck - Leaving (North)	Road	20.0	
Delivery Truck - Leaving (South)	Road	29.4	
Delivery Truck - Arriving (South)	Road	29.5	
Delivery Truck - Arriving (North)	Road	8.9	
Delivery Truck - Leaving (Onsite)	Road	10.4	
Receiver R3 Leq,d 43.0 dB(A)			
Delivery Truck -Incoming (Onsite)	Road	17.8	
Delivery Truck - Leaving (North)	Road	14.2	
Delivery Truck - Leaving (South)	Road	39.1	
Delivery Truck - Arriving (South)	Road	40.6	
Delivery Truck - Arriving (North)	Road	3.8	
Delivery Truck - Leaving (Onsite)	Road	6.7	
Receiver R4 Leq,d 61.8 dB(A)			
Delivery Truck -Incoming (Onsite)	Road	44.4	
Delivery Truck - Leaving (North)	Road	29.7	
Delivery Truck - Leaving (South)	Road	60.3	
Delivery Truck - Arriving (South)	Road	56.1	
Delivery Truck - Arriving (North)	Road	18.3	
Delivery Truck - Leaving (Onsite)	Road	39.0	
Receiver R5 Leq,d 61.5 dB(A)			
Delivery Truck -Incoming (Onsite)	Road	50.9	
Delivery Truck - Leaving (North)	Road	59.5	
Delivery Truck - Leaving (South)	Road	42.6	
Delivery Truck - Arriving (South)	Road	36.2	
Delivery Truck - Arriving (North)	Road	55.5	
Delivery Truck - Leaving (Onsite)	Road	43.1	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport

Source Levels in dB(A) - 03a Mechanical Option 2

Name	Source type	Lw dB(A)	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (East)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (North)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	
Mechanical (West)	Point	90.0	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 03a Mechanical Option 2

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 41.5 dB(A)			
Mechanical (North)	Point	34.3	
Mechanical (North)	Point	28.1	
Mechanical (North)	Point	35.2	
Mechanical (North)	Point	28.4	
Mechanical (North)	Point	34.3	
Mechanical (North)	Point	28.0	
Mechanical (North)	Point	32.8	
Mechanical (North)	Point	27.2	
Mechanical (East)	Point	19.3	
Mechanical (East)	Point	19.5	
Mechanical (East)	Point	17.8	
Mechanical (East)	Point	18.0	
Mechanical (East)	Point	16.6	
Mechanical (East)	Point	16.7	
Mechanical (East)	Point	15.5	
Mechanical (East)	Point	15.6	
Mechanical (East)	Point	14.6	
Mechanical (East)	Point	14.7	
Mechanical (West)	Point	19.6	
Mechanical (West)	Point	19.5	
Mechanical (West)	Point	18.1	
Mechanical (West)	Point	18.0	
Mechanical (West)	Point	16.8	
Mechanical (West)	Point	16.7	
Mechanical (West)	Point	15.7	
Mechanical (West)	Point	15.6	
Mechanical (West)	Point	14.7	
Mechanical (West)	Point	14.7	
Receiver R2 Leq,d 44.0 dB(A)			
Mechanical (North)	Point	29.9	
Mechanical (North)	Point	29.9	
Mechanical (North)	Point	30.7	
Mechanical (North)	Point	32.3	
Mechanical (North)	Point	29.5	
Mechanical (North)	Point	34.5	
Mechanical (North)	Point	31.8	
Mechanical (North)	Point	33.7	
Mechanical (East)	Point	31.8	
Mechanical (East)	Point	31.2	
Mechanical (East)	Point	31.5	
Mechanical (East)	Point	26.1	
Mechanical (East)	Point	28.9	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 03a Mechanical Option 2

Source	Source type	Leq,d dB(A)	
Mechanical (East)	Point	24.7	
Mechanical (East)	Point	28.3	
Mechanical (East)	Point	24.2	
Mechanical (East)	Point	27.7	
Mechanical (East)	Point	23.9	
Mechanical (West)	Point	31.6	
Mechanical (West)	Point	30.7	
Mechanical (West)	Point	24.6	
Mechanical (West)	Point	27.6	
Mechanical (West)	Point	27.2	
Mechanical (West)	Point	22.2	
Mechanical (West)	Point	25.0	
Mechanical (West)	Point	25.7	
Mechanical (West)	Point	23.9	
Mechanical (West)	Point	23.8	
Receiver R3 Leq,d 40.7 dB(A)			
Mechanical (North)	Point	15.4	
Mechanical (North)	Point	15.6	
Mechanical (North)	Point	16.9	
Mechanical (North)	Point	17.1	
Mechanical (North)	Point	18.9	
Mechanical (North)	Point	19.1	
Mechanical (North)	Point	21.9	
Mechanical (North)	Point	22.1	
Mechanical (East)	Point	29.2	
Mechanical (East)	Point	24.7	
Mechanical (East)	Point	30.7	
Mechanical (East)	Point	25.9	
Mechanical (East)	Point	32.8	
Mechanical (East)	Point	27.2	
Mechanical (East)	Point	34.1	
Mechanical (East)	Point	27.9	
Mechanical (East)	Point	32.5	
Mechanical (East)	Point	27.1	
Mechanical (West)	Point	16.3	
Mechanical (West)	Point	15.3	
Mechanical (West)	Point	16.6	
Mechanical (West)	Point	15.5	
Mechanical (West)	Point	16.8	
Mechanical (West)	Point	15.7	
Mechanical (West)	Point	16.9	
Mechanical (West)	Point	15.8	
Mechanical (West)	Point	16.8	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

2

9000 Airport Calculated Noise Levels - 03a Mechanical Option 2

Source	Source type	Leq,d dB(A)	
Mechanical (West)	Point	15.7	
Receiver R4 Leq,d 43.0 dB(A)			
Mechanical (North)	Point	17.2	
Mechanical (North)	Point	17.9	
Mechanical (North)	Point	17.2	
Mechanical (North)	Point	17.9	
Mechanical (North)	Point	17.2	
Mechanical (North)	Point	17.9	
Mechanical (North)	Point	17.2	
Mechanical (North)	Point	17.9	
Mechanical (East)	Point	27.9	
Mechanical (East)	Point	25.6	
Mechanical (East)	Point	30.1	
Mechanical (East)	Point	29.9	
Mechanical (East)	Point	27.9	
Mechanical (East)	Point	31.3	
Mechanical (East)	Point	28.3	
Mechanical (East)	Point	30.3	
Mechanical (East)	Point	30.4	
Mechanical (East)	Point	31.0	
Mechanical (West)	Point	27.8	
Mechanical (West)	Point	27.3	
Mechanical (West)	Point	28.8	
Mechanical (West)	Point	28.2	
Mechanical (West)	Point	30.1	
Mechanical (West)	Point	29.1	
Mechanical (West)	Point	28.1	
Mechanical (West)	Point	28.0	
Mechanical (West)	Point	33.8	
Mechanical (West)	Point	33.6	
Receiver R5 Leq,d 44.1 dB(A)			
Mechanical (North)	Point	35.3	
Mechanical (North)	Point	35.4	
Mechanical (North)	Point	31.0	
Mechanical (North)	Point	31.6	
Mechanical (North)	Point	29.4	
Mechanical (North)	Point	30.0	
Mechanical (North)	Point	28.2	
Mechanical (North)	Point	28.8	
Mechanical (East)	Point	26.1	
Mechanical (East)	Point	26.7	
Mechanical (East)	Point	25.6	
Mechanical (East)	Point	29.7	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 03a Mechanical Option 2

Source	Source type	Leq,d dB(A)	
Mechanical (East)	Point	28.5	
Mechanical (East)	Point	26.1	
Mechanical (East)	Point	24.7	
Mechanical (East)	Point	26.9	
Mechanical (East)	Point	25.8	
Mechanical (East)	Point	26.0	
Mechanical (West)	Point	32.6	
Mechanical (West)	Point	33.1	
Mechanical (West)	Point	29.1	
Mechanical (West)	Point	29.3	
Mechanical (West)	Point	26.9	
Mechanical (West)	Point	27.2	
Mechanical (West)	Point	25.3	
Mechanical (West)	Point	26.8	
Mechanical (West)	Point	24.0	
Mechanical (West)	Point	26.2	

9000 Airport
Source Levels in dB(A) - 02b Loading Option 1 (v5)

[illegible]

9000 Airport
Source Levels in dB(A) - 02b Loading Option 1 (v5)

Name	Source type	Lw dB(A)	
Loading Dock	Point	101.9	
Loading Dock	Point	101.9	
Loading Dock	Point	101.9	
Loading Dock	Point	101.9	
Loading Dock	Point	101.9	
Loading Dock	Point	101.9	

--

9000 Airport **Calculated Noise Levels - 02b Loading Option 1 (v5)**

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 41.5 dB(A)			
Loading Dock	Point	29.8	
Loading Dock	Point	29.5	
Loading Dock	Point	29.1	
Loading Dock	Point	28.8	
Loading Dock	Point	28.4	
Loading Dock	Point	28.1	
Loading Dock	Point	27.8	
Loading Dock	Point	27.5	
Loading Dock	Point	26.9	
Loading Dock	Point	26.6	
Loading Dock	Point	26.4	
Loading Dock	Point	26.1	
Loading Dock	Point	25.9	
Loading Dock	Point	25.6	
Loading Dock	Point	25.4	
Loading Dock	Point	24.9	
Loading Dock	Point	24.7	
Loading Dock	Point	24.5	
Loading Dock	Point	24.3	
Loading Dock	Point	24.0	
Loading Dock	Point	23.8	
Loading Dock	Point	23.6	
Loading Dock	Point	23.2	
Loading Dock	Point	23.1	
Loading Dock	Point	22.9	
Loading Dock	Point	22.7	
Loading Dock	Point	22.5	
Loading Dock	Point	22.3	
Loading Dock	Point	22.2	
Loading Dock	Point	21.8	
Loading Dock	Point	21.6	
Loading Dock	Point	21.5	
Loading Dock	Point	21.3	
Loading Dock	Point	21.2	
Loading Dock	Point	21.0	
Loading Dock	Point	20.9	
Loading Dock	Point	22.2	
Loading Dock	Point	22.1	
Loading Dock	Point	22.1	
Loading Dock	Point	22.0	
Loading Dock	Point	22.0	
Loading Dock	Point	21.9	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport **Calculated Noise Levels - 02b Loading Option 1 (v5)**

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	21.9	
Loading (grade)	Point	17.5	
Loading (grade)	Point	17.3	
Receiver R2 Leq,d 45.9 dB(A)			
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	
Loading Dock	Point	25.2	
Loading Dock	Point	25.2	
Loading Dock	Point	25.1	
Loading Dock	Point	25.1	
Loading Dock	Point	25.0	
Loading Dock	Point	25.0	
Loading Dock	Point	24.8	
Loading Dock	Point	24.7	
Loading Dock	Point	24.7	
Loading Dock	Point	24.6	
Loading Dock	Point	24.5	
Loading Dock	Point	24.4	
Loading Dock	Point	24.3	
Loading Dock	Point	24.1	
Loading Dock	Point	24.0	
Loading Dock	Point	23.9	
Loading Dock	Point	23.8	
Loading Dock	Point	23.6	
Loading Dock	Point	23.5	
Loading Dock	Point	23.4	
Loading Dock	Point	23.2	
Loading Dock	Point	23.0	
Loading Dock	Point	22.9	
Loading Dock	Point	22.8	
Loading Dock	Point	22.7	
Loading Dock	Point	22.5	
Loading Dock	Point	22.4	
Loading Dock	Point	22.2	
Loading Dock	Point	22.0	
Loading Dock	Point	21.9	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport **Calculated Noise Levels - 02b Loading Option 1 (v5)**

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	21.8	
Loading Dock	Point	21.7	
Loading Dock	Point	21.5	
Loading Dock	Point	21.3	
Loading (grade)	Point	44.4	
Loading (grade)	Point	21.2	
Receiver R3 Leq,d 57.6 dB(A)			
Loading Dock	Point	20.9	
Loading Dock	Point	21.0	
Loading Dock	Point	21.1	
Loading Dock	Point	21.3	
Loading Dock	Point	21.4	
Loading Dock	Point	21.5	
Loading Dock	Point	21.6	
Loading Dock	Point	21.8	
Loading Dock	Point	22.0	
Loading Dock	Point	22.2	
Loading Dock	Point	22.3	
Loading Dock	Point	22.4	
Loading Dock	Point	22.5	
Loading Dock	Point	22.7	
Loading Dock	Point	22.8	
Loading Dock	Point	23.1	
Loading Dock	Point	23.2	
Loading Dock	Point	23.3	
Loading Dock	Point	23.4	
Loading Dock	Point	23.6	
Loading Dock	Point	23.7	
Loading Dock	Point	23.8	
Loading Dock	Point	24.0	
Loading Dock	Point	24.2	
Loading Dock	Point	24.3	
Loading Dock	Point	24.4	
Loading Dock	Point	24.5	
Loading Dock	Point	24.6	
Loading Dock	Point	24.7	
Loading Dock	Point	24.9	
Loading Dock	Point	25.0	
Loading Dock	Point	25.1	
Loading Dock	Point	25.1	
Loading Dock	Point	25.2	
Loading Dock	Point	25.3	
Loading Dock	Point	25.3	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

3

9000 Airport **Calculated Noise Levels - 02b Loading Option 1 (v5)**

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	25.4	
Loading Dock	Point	25.5	
Loading Dock	Point	25.5	
Loading Dock	Point	25.6	
Loading Dock	Point	25.6	
Loading Dock	Point	25.6	
Loading Dock	Point	25.6	
Loading (grade)	Point	57.5	
Loading (grade)	Point	32.2	
Receiver R4 Leq,d 50.3 dB(A)			
Loading Dock	Point	31.1	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	31.0	
Loading Dock	Point	30.9	
Loading Dock	Point	30.9	
Loading Dock	Point	29.9	
Loading Dock	Point	29.9	
Loading Dock	Point	29.9	
Loading Dock	Point	29.8	
Loading Dock	Point	29.8	
Loading Dock	Point	29.8	
Loading Dock	Point	29.8	
Loading Dock	Point	29.7	
Loading Dock	Point	29.7	
Loading Dock	Point	29.7	
Loading Dock	Point	29.7	
Loading Dock	Point	29.6	
Loading Dock	Point	29.6	
Loading Dock	Point	29.6	
Loading Dock	Point	29.6	
Loading Dock	Point	29.6	
Loading Dock	Point	29.5	
Loading Dock	Point	29.5	
Loading Dock	Point	29.5	
Loading Dock	Point	29.4	
Loading Dock	Point	29.4	
Loading Dock	Point	29.4	
Loading Dock	Point	29.3	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport **Calculated Noise Levels - 02b Loading Option 1 (v5)**

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	29.3	
Loading Dock	Point	29.2	
Loading Dock	Point	29.1	
Loading Dock	Point	29.2	
Loading Dock	Point	29.4	
Loading Dock	Point	29.5	
Loading Dock	Point	29.6	
Loading Dock	Point	29.8	
Loading Dock	Point	30.0	
Loading Dock	Point	30.4	
Loading (grade)	Point	25.5	
Loading (grade)	Point	48.1	
Receiver R5 Leq,d 63.8 dB(A)			
Loading Dock	Point	50.8	
Loading Dock	Point	50.7	
Loading Dock	Point	50.6	
Loading Dock	Point	50.5	
Loading Dock	Point	50.4	
Loading Dock	Point	50.2	
Loading Dock	Point	50.1	
Loading Dock	Point	49.9	
Loading Dock	Point	49.6	
Loading Dock	Point	49.5	
Loading Dock	Point	49.3	
Loading Dock	Point	49.1	
Loading Dock	Point	49.0	
Loading Dock	Point	47.8	
Loading Dock	Point	47.3	
Loading Dock	Point	46.7	
Loading Dock	Point	46.6	
Loading Dock	Point	46.4	
Loading Dock	Point	46.3	
Loading Dock	Point	46.1	
Loading Dock	Point	46.0	
Loading Dock	Point	45.9	
Loading Dock	Point	45.6	
Loading Dock	Point	45.5	
Loading Dock	Point	45.3	
Loading Dock	Point	45.2	
Loading Dock	Point	45.0	
Loading Dock	Point	44.9	
Loading Dock	Point	44.8	
Loading Dock	Point	44.5	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport **Calculated Noise Levels - 02b Loading Option 1 (v5)**

Source	Source type	Leq,d dB(A)	
Loading Dock	Point	44.4	
Loading Dock	Point	44.2	
Loading Dock	Point	44.1	
Loading Dock	Point	44.0	
Loading Dock	Point	43.9	
Loading Dock	Point	45.5	
Loading Dock	Point	45.4	
Loading Dock	Point	45.4	
Loading Dock	Point	45.4	
Loading Dock	Point	45.3	
Loading Dock	Point	45.3	
Loading Dock	Point	45.3	
Loading Dock	Point	45.3	
Loading (grade)	Point	17.1	
Loading (grade)	Point	17.2	

--	--	--	--

	AES 22801 Crespi St Woodland Hills, CA 91364 USA	6
--	--	---

9000 Airport
Input data parking lots - 03c Parking Option 2

Parking lot	Number of Parking Spaces	
Parking Option 2	79	
Parking Option 2	103	
Parking Option 2	47	
Parking Option 2	40	
Parking Option 2	59	
Parking Option 2	28	
Parking Option 2	13	

9000 Airport **Calculated Noise Levels - 03c Parking Option 2**

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 26.6 dB(A)			
Parking Option 2	PLot	16.8	
Parking Option 2	PLot	15.5	
Parking Option 2	PLot	4.3	
Parking Option 2	PLot	13.0	
Parking Option 2	PLot	6.4	
Parking Option 2	PLot	12.0	
Parking Option 2	PLot	25.2	
Receiver R2 Leq,d 47.1 dB(A)			
Parking Option 2	PLot	46.9	
Parking Option 2	PLot	30.6	
Parking Option 2	PLot	15.5	
Parking Option 2	PLot	32.0	
Parking Option 2	PLot	8.3	
Parking Option 2	PLot	20.1	
Parking Option 2	PLot	2.4	
Receiver R3 Leq,d 31.5 dB(A)			
Parking Option 2	PLot	29.5	
Parking Option 2	PLot	19.1	
Parking Option 2	PLot	25.9	
Parking Option 2	PLot	10.1	
Parking Option 2	PLot	11.7	
Parking Option 2	PLot	3.8	
Parking Option 2	PLot	-2.9	
Receiver R4 Leq,d 45.8 dB(A)			
Parking Option 2	PLot	18.8	
Parking Option 2	PLot	31.7	
Parking Option 2	PLot	35.2	
Parking Option 2	PLot	17.5	
Parking Option 2	PLot	45.2	
Parking Option 2	PLot	4.6	
Parking Option 2	PLot	0.2	
Receiver R5 Leq,d 41.4 dB(A)			
Parking Option 2	PLot	27.4	
Parking Option 2	PLot	31.1	
Parking Option 2	PLot	7.6	
Parking Option 2	PLot	34.9	
Parking Option 2	PLot	8.9	
Parking Option 2	PLot	37.6	
Parking Option 2	PLot	34.9	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport
Emission calculation road - 03d Offsite Truck Option 2

Road	Vehicle Trips Per Hour (Veh/h), Daytime	Vehicle Trips Per Hour (Veh/h), Nighttime	
Delivery Truck Arriving (North)	3.70	3.70	
Delivery Truck Arriving (North)	3.70	3.70	
Delivery Truck Arriving (North)	3.70	3.70	
Delivery Truck Arriving (South)	3.70	3.70	
Delivery Truck Arriving (South)	3.70	3.70	
Delivery Truck Arriving (South)	3.70	3.70	
Delivery Truck Arriving (South)	3.70	3.70	
Delivery Truck Leaving (North)	3.70	3.70	
Delivery Truck Leaving (South)	3.70	3.70	
Delivery Truck Leaving (South)	3.70	3.70	
Delivery Truck On-Site (Option 2)	7.30	7.30	
Delivery Truck Onsite (Option 2)	7.30	7.30	
Delivery Truck Onsite (Option 2)	7.30	7.30	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

9000 Airport Calculated Noise Levels - 03d Offsite Truck Option 2

Source	Source type	Leq,d dB(A)	
Receiver R1 Leq,d 36.0 dB(A)			
Delivery Truck On-Site (Option 2)	Road	11.7	
Delivery Truck Onsite (Option 2)	Road	10.2	
Delivery Truck Onsite (Option 2)	Road	10.8	
Delivery Truck Leaving (North)	Road	31.8	
Delivery Truck Arriving (North)	Road	33.8	
Delivery Truck Arriving (South)	Road	-0.6	
Delivery Truck Leaving (South)	Road	14.4	
Delivery Truck Leaving (South)	Road	14.3	
Delivery Truck Arriving (South)	Road	3.5	
Receiver R2 Leq,d 37.7 dB(A)			
Delivery Truck On-Site (Option 2)	Road	34.7	
Delivery Truck Onsite (Option 2)	Road	14.2	
Delivery Truck Onsite (Option 2)	Road	15.2	
Delivery Truck Leaving (North)	Road	17.5	
Delivery Truck Arriving (North)	Road	27.5	
Delivery Truck Arriving (South)	Road	24.3	
Delivery Truck Leaving (South)	Road	15.2	
Delivery Truck Leaving (South)	Road	33.0	
Delivery Truck Arriving (South)	Road	8.8	
Receiver R3 Leq,d 43.4 dB(A)			
Delivery Truck On-Site (Option 2)	Road	9.5	
Delivery Truck Onsite (Option 2)	Road	11.5	
Delivery Truck Onsite (Option 2)	Road	11.0	
Delivery Truck Leaving (North)	Road	-2.4	
Delivery Truck Arriving (North)	Road	8.8	
Delivery Truck Arriving (South)	Road	35.8	
Delivery Truck Leaving (South)	Road	15.7	
Delivery Truck Leaving (South)	Road	42.6	
Delivery Truck Arriving (South)	Road	9.4	
Receiver R4 Leq,d 59.6 dB(A)			
Delivery Truck On-Site (Option 2)	Road	18.5	
Delivery Truck Onsite (Option 2)	Road	38.3	
Delivery Truck Onsite (Option 2)	Road	37.1	
Delivery Truck Leaving (North)	Road	5.9	
Delivery Truck Arriving (North)	Road	19.0	
Delivery Truck Arriving (South)	Road	37.3	
Delivery Truck Leaving (South)	Road	57.7	
Delivery Truck Leaving (South)	Road	49.6	
Delivery Truck Arriving (South)	Road	53.6	
Receiver R5 Leq,d 57.4 dB(A)			
Delivery Truck On-Site (Option 2)	Road	36.9	

AES 22801 Crespi St Woodland Hills, CA 91364 USA

1

9000 Airport Calculated Noise Levels - 03d Offsite Truck Option 2

Source	Source type	Leq,d dB(A)	
Delivery Truck Onsite (Option 2)	Road	20.9	
Delivery Truck Onsite (Option 2)	Road	16.1	
Delivery Truck Leaving (North)	Road	49.1	
Delivery Truck Arriving (North)	Road	56.7	
Delivery Truck Arriving (South)	Road	3.7	
Delivery Truck Leaving (South)	Road	19.6	
Delivery Truck Leaving (South)	Road	17.9	
Delivery Truck Arriving (South)	Road	28.7	

	AES 22801 Crespi St Woodland Hills, CA 91364 USA	2
--	--	---

Off-Site Traffic Noise Calculations

Project: 9000 Airport Project

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

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	Peak Hour, Leq**	24-Hour CNEL
Airport Boulevard											
- Between Manchester Ave. and Interceptor St.	60	10	40	40	1,488	14,880	10%	0	0	71.6	71.1
- Between Interceptor St. and Arbor Vitae St.	70	10	45	40	1,671	16,710	10%	0	0	71.5	71.0
Interceptor Street											
- West of Airport Boulevard	40	10	30	35	63	630	10%	0	0	58.8	58.2
- East of Airport Boulevard	40	10	30	35	318	3,180	10%	0	0	65.8	65.3
Arbor Vitae Street											
- Between Airport Blvd. and Aviation Blvd.	60	10	40	40	1,518	15,180	10%	0	0	71.7	71.2

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: 9000 Airport Project

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 OPTION 1

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	Peak Hour, Leq**	24-Hour CNEL
Airport Boulevard											
- Between Manchester Ave. and Interceptor St.	60	10	40	40	1,495	14,950	10%	0	0	71.6	71.1
- Between Interceptor St. and Arbor Vitae St.	70	10	45	40	1,704	17,040	10%	0	0	71.6	71.1
Interceptor Street											
- West of Airport Boulevard	40	10	30	35	63	630	10%	0	0	58.8	58.2
- East of Airport Boulevard	40	10	30	35	409	4,090	10%	0	0	66.9	66.4
Arbor Vitae Street											
- Between Airport Blvd. and Aviation Blvd.	60	10	40	40	1,572	15,720	10%	0	0	71.9	71.3

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: 9000 Airport Project

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 OPTION 2

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	Peak Hour, Leq**	24-Hour CNEL
Airport Boulevard											
- Between Manchester Ave. and Interceptor St.	60	10	40	40	1,469	14,690	10%	0	0	71.6	71.0
- Between Interceptor St. and Arbor Vitae St.	70	10	45	40	1,640	16,400	10%	0	0	71.4	70.9
Interceptor Street											
- West of Airport Boulevard	40	10	30	35	63	630	10%	0	0	58.8	58.2
- East of Airport Boulevard	40	10	30	35	362	3,620	10%	0	0	66.4	65.8
Arbor Vitae Street											
- Between Airport Blvd. and Aviation Blvd.	60	10	40	40	1,538	15,380	10%	0	0	71.8	71.2

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: 9000 Airport Project

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

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	Peak Hour, Leq**	24-Hour CNEL
Airport Boulevard											
- Between Manchester Ave. and Interceptor St.	60	10	40	40	1,532	15,320	10%	0	0	71.8	71.2
- Between Interceptor St. and Arbor Vitae St.	70	10	45	40	1,721	17,210	10%	0	0	71.7	71.1
Interceptor Street											
- West of Airport Boulevard	40	10	30	35	63	630	10%	0	0	58.8	58.2
- East of Airport Boulevard	40	10	30	35	327	3,270	10%	0	0	65.9	65.4
Arbor Vitae Street											
- Between Airport Blvd. and Aviation Blvd.	60	10	40	40	1,564	15,640	10%	0	0	71.8	71.3

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: 9000 Airport Project

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 PLUS PROJECT OPTION 1

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	Peak Hour, Leq**	24-Hour CNEL
Airport Boulevard											
- Between Manchester Ave. and Interceptor St.	60	10	40	40	1,539	15,390	10%	0	0	71.8	71.2
- Between Interceptor St. and Arbor Vitae St.	70	10	45	40	1,754	17,540	10%	0	0	71.7	71.2
Interceptor Street											
- West of Airport Boulevard	40	10	30	35	63	630	10%	0	0	58.8	58.2
- East of Airport Boulevard	40	10	30	35	418	4,180	10%	0	0	67.0	66.5
Arbor Vitae Street											
- Between Airport Blvd. and Aviation Blvd.	60	10	40	40	1,618	16,180	10%	0	0	72.0	71.4

* Estimated based on Google Earth map.

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

Off-Site Traffic Noise Calculations

Project: 9000 Airport Project

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 PLUS PROJECT OPTION 2

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	Peak Hour, Leq**	24-Hour CNEL
Airport Boulevard											
- Between Manchester Ave. and Interceptor St.	60	10	40	40	1,513	15,130	10%	0	0	71.7	71.2
- Between Interceptor St. and Arbor Vitae St.	70	10	45	40	1,690	16,900	10%	0	0	71.6	71.0
Interceptor Street											
- West of Airport Boulevard	40	10	30	35	63	630	10%	0	0	58.8	58.2
- East of Airport Boulevard	40	10	30	35	371	3,710	10%	0	0	66.5	65.9
Arbor Vitae Street											
- Between Airport Blvd. and Aviation Blvd.	60	10	40	40	1,584	15,840	10%	0	0	71.9	71.4

* Estimated based on Google Earth map.

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