Appendix H

Noise Measurements and Calculations Outputs

Appendices

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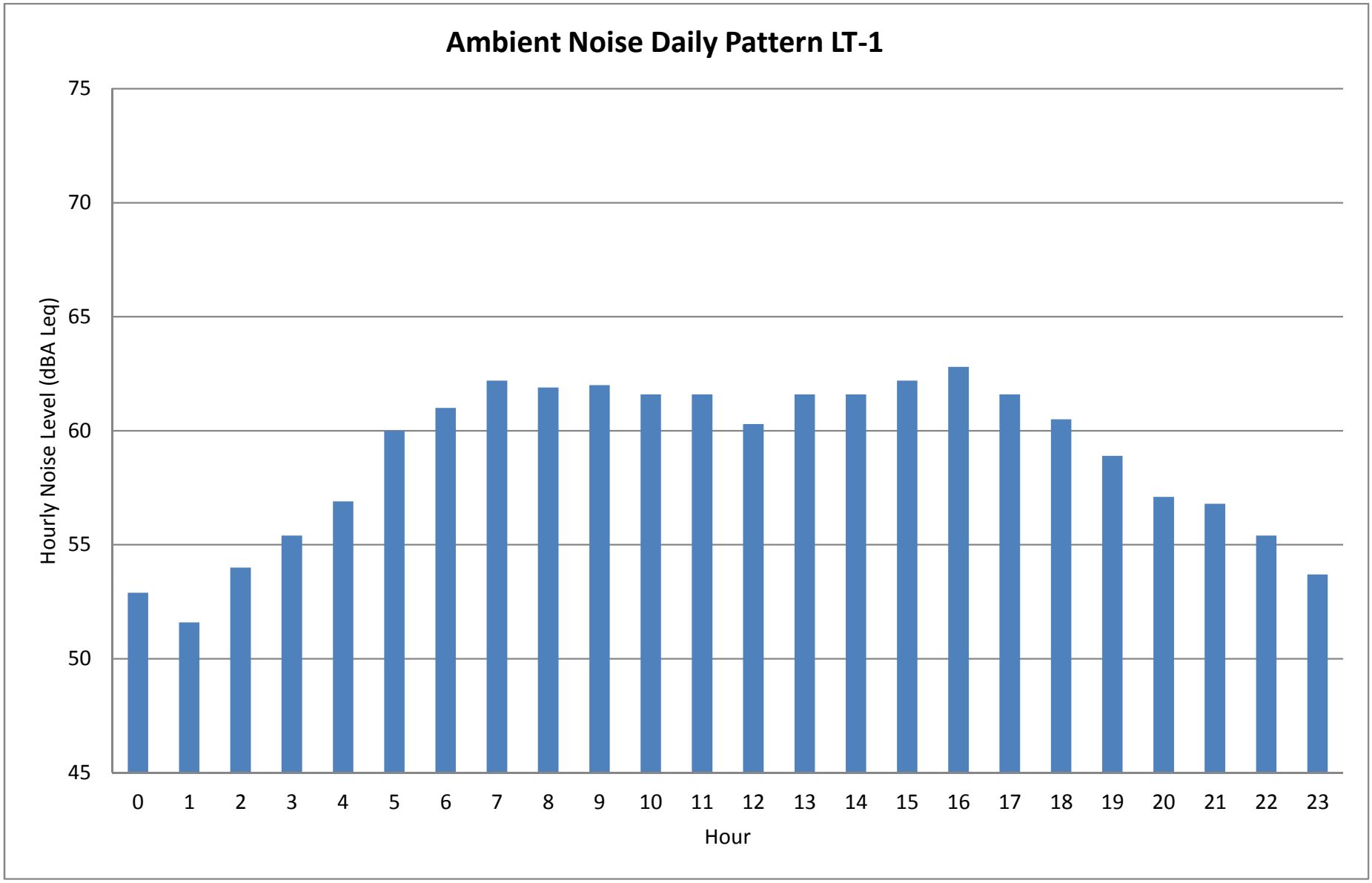
Number	Min	Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
ST-2	1	16-Jan	11:38:44	15.3	53.0	59.5	46.5	56.8	55.1	54.3	53.7	52.5	50.3
ST-2	2	16-Jan	11:39:00	60	51.9	63.0	41.1	61.6	55.9	52.8	50.3	48.0	43.7
ST-2	3	16-Jan	11:40:00	60	61.1	73.6	39.6	72.2	66.1	59.8	57.4	50.5	43.6
ST-2	4	16-Jan	11:41:00	60	69.0	82.8	40.8	80.7	73.4	70.4	65.8	58.6	48.5
ST-2	5	16-Jan	11:42:00	60	56.2	67.4	42.2	64.9	59.9	58.1	56.7	52.9	44.2
ST-2	6	16-Jan	11:43:00	60	67.1	79.6	41.2	77.8	73.0	68.7	61.3	51.4	43.3
ST-2	7	16-Jan	11:44:00	60	66.9	75.6	50.9	75.0	72.5	70.1	68.3	60.1	52.7
ST-2	8	16-Jan	11:45:00	60	67.5	81.6	46.3	79.0	72.2	67.3	63.6	59.5	50.3
ST-2	9	16-Jan	11:46:00	60	67.7	82.2	40.1	74.8	73.6	71.6	69.1	54.5	43.4
ST-2	10	16-Jan	11:47:00	60	61.2	76.8	46.1	71.7	64.1	62.2	60.3	57.1	49.3
ST-2	11	16-Jan	11:48:00	60	69.9	81.2	50.1	80.0	75.7	70.8	67.3	61.0	54.6
ST-2	12	16-Jan	11:49:00	60	67.7	84.2	43.3	79.1	67.2	63.7	62.1	59.6	52.0
ST-2	13	16-Jan	11:50:00	60	58.4	73.9	35.9	70.9	58.4	49.5	47.7	45.0	37.1
ST-2	14	16-Jan	11:51:00	60	69.5	83.4	43.4	79.8	73.0	70.5	68.4	61.3	47.4
ST-2	15	16-Jan	11:52:00	60	54.0	68.2	36.3	63.0	59.9	56.6	52.9	44.9	38.1
ST-2	16	16-Jan	11:53:00	60	72.8	82.2	55.8	80.3	78.2	75.5	72.9	68.7	61.6
ST-2	17	16-Jan	11:54:00	60	62.2	74.7	34.2	73.4	68.5	61.0	55.2	48.4	35.5
ST-2	18	16-Jan	11:55:00	4.9	51.2	59.6	43.7	59.0	55.0	53.3	51.7	49.3	45.1
					66.4	**84.2**	**34.2**						
ST-9	1	16-Jan	12:09:16	43.1	70.6	80.5	43.4	79.3	77.5	73.6	70.6	56.3	46.8
ST-9	2	16-Jan	12:10:00	60	60.7	82.6	37.7	71.1	62.9	57.6	51.5	43.5	39.0
ST-9	3	16-Jan	12:11:00	60	67.6	82.0	46.0	78.6	71.8	68.1	64.6	57.0	48.4
ST-9	4	16-Jan	12:12:00	60	65.3	82.2	38.0	76.3	68.2	62.3	57.9	48.3	39.0
ST-9	5	16-Jan	12:13:00	60	65.0	81.1	39.7	74.0	70.1	64.8	62.0	53.7	46.0
ST-9	6	16-Jan	12:14:00	60	64.8	76.9	39.4	74.4	71.1	66.2	62.9	56.0	41.3
ST-9	7	16-Jan	12:15:00	60	62.9	73.3	45.0	72.0	68.8	66.1	62.6	53.5	46.8
ST-9	8	16-Jan	12:16:00	60	61.9	76.2	37.8	71.6	67.4	63.1	57.9	52.3	39.7
ST-9	9	16-Jan	12:17:00	60	67.1	80.3	45.1	76.9	72.3	68.2	64.7	58.3	47.3
ST-9	10	16-Jan	12:18:00	60	62.2	80.5	36.7	72.7	61.1	52.1	44.7	39.4	37.6
ST-9	11	16-Jan	12:19:00	60	66.1	75.8	43.0	73.9	72.1	69.7	67.1	58.5	45.9
ST-9	12	16-Jan	12:20:00	60	69.8	83.0	48.3	79.0	74.9	70.9	68.8	62.7	52.0
ST-9	13	16-Jan	12:21:00	60	68.4	79.6	45.8	78.2	74.9	69.6	66.2	59.8	49.8
ST-9	14	16-Jan	12:22:00	60	61.8	75.5	36.3	73.5	65.7	61.5	56.3	50.1	38.6
ST-9	15	16-Jan	12:23:00	7.4	55.0	62.1	48.2	61.4	60.4	58.8	54.5	51.1	49.0
					66.1	**83.0**	**36.3**						

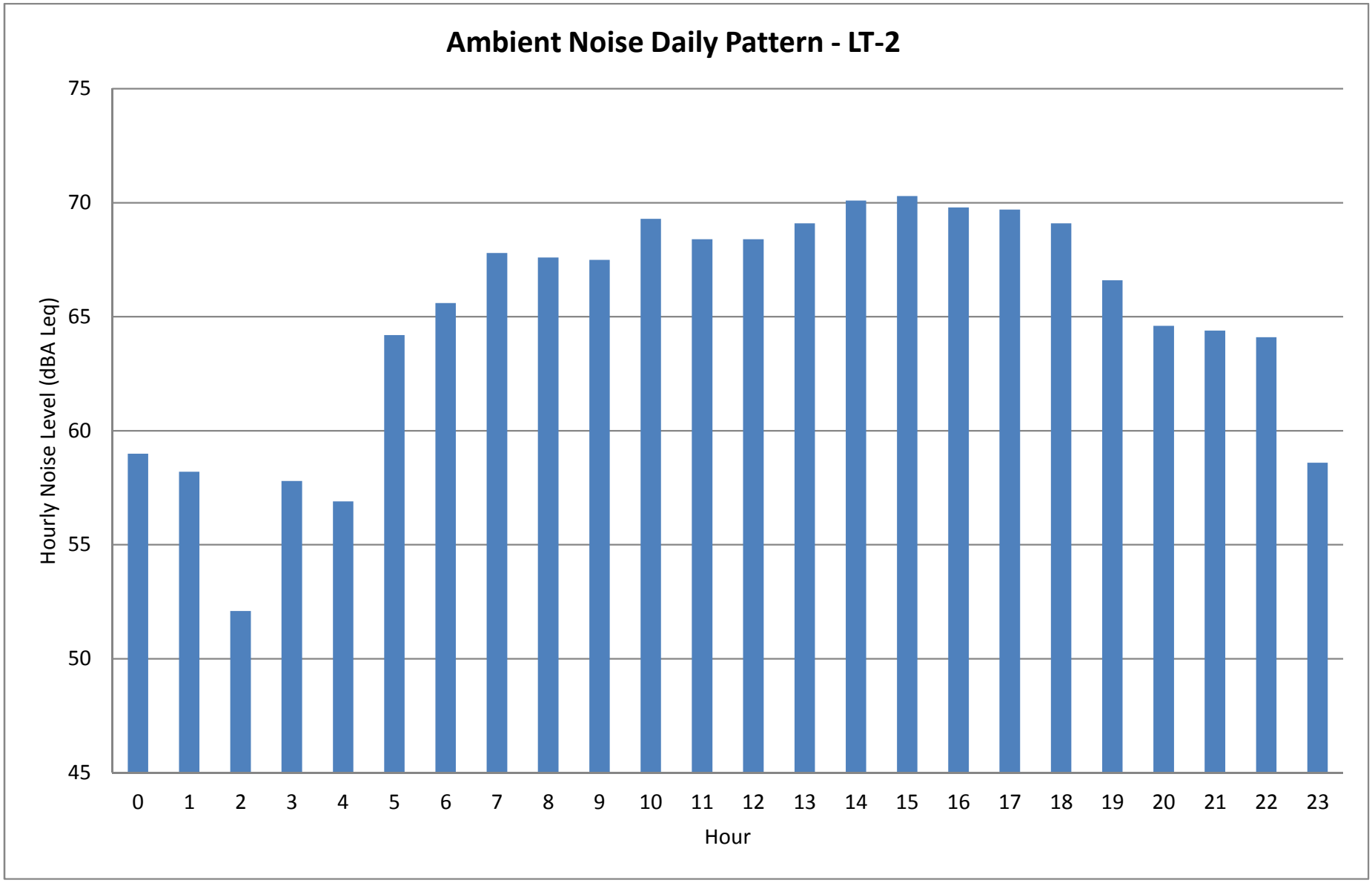
Number	Min	Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
ST-7	1	16-Jan	12:28:32	27.6	47.7	55.1	42.1	52.1	49.8	49.0	48.4	47.2	44.4
ST-7	2	16-Jan	12:29:00	60	60.6	72.1	44.6	69.2	66.5	61.8	59.3	54.8	46.4
ST-7	3	16-Jan	12:30:00	60	58.1	72.1	46.2	68.5	62.1	59.3	55.8	50.5	47.8
ST-7	4	16-Jan	12:31:00	60	57.3	68.2	44.2	67.0	64.2	55.8	53.4	50.5	45.4
ST-7	5	16-Jan	12:32:00	60	56.7	67.7	44.2	66.4	63.2	57.4	53.1	50.3	45.7
ST-7	6	16-Jan	12:33:00	60	59.0	69.9	46.2	68.6	65.2	60.9	57.0	51.3	47.7
ST-7	7	16-Jan	12:34:00	60	50.4	56.8	45.1	54.2	52.7	51.8	51.2	50.1	47.0
ST-7	8	16-Jan	12:35:00	60	53.4	67.8	44.5	65.1	54.4	52.2	50.7	48.6	45.7
ST-7	9	16-Jan	12:36:00	60	60.7	73.7	45.0	71.2	66.9	60.9	57.2	50.5	46.8
ST-7	10	16-Jan	12:37:00	60	56.2	69.1	45.5	67.1	60.6	54.8	52.8	51.1	48.0
ST-7	11	16-Jan	12:38:00	60	56.5	66.6	45.5	65.5	62.2	59.1	55.6	50.6	47.6
ST-7	12	16-Jan	12:39:00	60	66.2	82.6	44.1	78.9	65.8	61.9	54.8	50.4	46.0
ST-7	13	16-Jan	12:40:00	60	55.4	66.5	44.1	65.6	61.2	55.5	52.2	49.0	45.8
ST-7	14	16-Jan	12:41:00	60	60.6	73.7	43.4	71.3	66.2	62.9	57.0	50.1	45.4
ST-7	15	16-Jan	12:42:00	60	60.6	72.7	44.4	70.9	66.1	62.4	59.3	52.5	46.1
ST-7	16	16-Jan	12:43:00	60	56.2	69.6	45.1	67.6	60.2	54.4	52.1	48.6	46.3
ST-7	17	16-Jan	12:44:00	36.6	63.3	73.0	46.3	71.8	69.5	66.9	62.3	55.6	47.7
					59.6	**82.6**	**42.1**						
ST-1	1	16-Jan	14:15:23	36.1	47.2	55.5	42.0	52.0	50.2	48.7	47.9	46.6	43.3
ST-1	2	16-Jan	14:16:00	60	47.0	63.0	39.5	54.2	51.0	48.4	46.7	43.6	40.9
ST-1	3	16-Jan	14:17:00	60	51.3	62.1	39.9	58.9	55.3	53.6	52.4	48.1	41.8
ST-1	4	16-Jan	14:18:00	60	41.3	49.6	37.4	46.8	43.6	42.4	41.8	40.3	38.1
ST-1	5	16-Jan	14:19:00	60	42.7	53.0	37.9	48.8	45.4	43.9	42.8	41.3	39.0
ST-1	6	16-Jan	14:20:00	60	42.0	58.6	35.6	46.8	44.3	43.3	42.4	39.5	37.0
ST-1	7	16-Jan	14:21:00	60	44.6	64.9	36.5	53.0	44.7	41.6	40.3	39.0	37.4
ST-1	8	16-Jan	14:22:00	60	47.1	70.2	38.4	49.7	44.9	42.8	41.7	40.5	39.2
ST-1	9	16-Jan	14:23:00	60	42.3	52.1	38.2	47.9	45.5	43.9	42.6	40.6	39.2
ST-1	10	16-Jan	14:24:00	60	45.0	55.1	38.6	51.5	48.2	46.4	45.3	43.6	40.6
ST-1	11	16-Jan	14:25:00	60	47.7	57.2	41.5	54.7	50.9	49.2	48.3	45.8	43.2
ST-1	12	16-Jan	14:26:00	60	44.4	57.6	38.5	53.4	47.2	44.7	43.6	41.8	39.8
ST-1	13	16-Jan	14:27:00	60	45.8	52.1	41.4	48.7	47.7	47.0	46.5	45.5	44.0
ST-1	14	16-Jan	14:28:00	60	49.0	67.6	41.8	54.2	51.6	49.9	48.8	46.7	43.2
ST-1	15	16-Jan	14:29:00	12.3	44.6	48.3	42.7	47.7	46.6	45.8	45.3	44.3	43.1
					46.3	**70.2**	**35.6**						

Number	Min	Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
ST-3	1	16-Jan	14:42:50	9.7	55.8	61.5	45.2	60.7	59.8	59.3	58.7	50.9	46.7
ST-3	2	16-Jan	14:43:00	60	52.6	62.0	43.0	59.9	58.0	55.6	52.3	48.5	44.9
ST-3	3	16-Jan	14:44:00	60	54.7	65.7	43.9	64.0	59.9	56.7	54.3	49.5	45.5
ST-3	4	16-Jan	14:45:00	60	52.1	62.5	42.5	61.5	56.8	53.6	50.9	47.5	44.3
ST-3	5	16-Jan	14:46:00	60	51.1	61.4	43.4	59.8	55.8	52.4	49.7	47.7	45.5
ST-3	6	16-Jan	14:47:00	60	47.1	56.6	43.1	51.7	49.7	48.4	47.6	46.3	44.7
ST-3	7	16-Jan	14:48:00	60	56.2	67.1	43.4	65.6	61.1	58.5	55.2	47.8	44.8
ST-3	8	16-Jan	14:49:00	60	53.0	64.1	43.6	61.5	58.0	54.8	52.5	48.5	45.2
ST-3	9	16-Jan	14:50:00	60	54.5	63.3	41.7	62.3	59.4	57.1	55.1	51.1	45.1
ST-3	10	16-Jan	14:51:00	60	51.4	64.1	41.1	59.0	56.7	54.8	50.5	46.1	42.6
ST-3	11	16-Jan	14:52:00	60	53.4	63.5	43.7	62.5	58.8	56.4	51.1	48.3	45.4
ST-3	12	16-Jan	14:53:00	60	50.0	63.4	42.7	57.7	55.0	52.7	49.3	45.2	43.4
ST-3	13	16-Jan	14:54:00	60	55.8	72.7	43.7	66.6	57.7	53.3	51.5	48.2	45.8
ST-3	14	16-Jan	14:55:00	60	55.5	76.7	43.9	61.5	58.0	56.0	53.4	49.0	45.1
ST-3	15	16-Jan	14:56:00	60	54.7	76.2	43.8	60.4	57.1	55.2	52.5	49.7	45.6
ST-3	16	16-Jan	14:57:00	9.8	52.0	62.4	44.2	61.5	56.9	53.7	51.3	47.1	44.8
					53.7	**76.7**	**41.1**						
ST-8	1	16-Jan	15:09:26	33.5	62.5	72.4	45.2	70.9	68.7	65.5	61.8	56.2	48.4
ST-8	2	16-Jan	15:10:00	60	61.6	70.7	45.0	70.0	68.1	65.0	61.0	53.0	47.7
ST-8	3	16-Jan	15:11:00	60	58.5	66.9	42.5	65.3	63.7	61.6	60.4	55.3	45.4
ST-8	4	16-Jan	15:12:00	60	57.9	69.6	41.7	67.5	63.5	60.6	56.8	50.2	43.8
ST-8	5	16-Jan	15:13:00	60	60.8	70.0	41.5	68.8	66.8	63.9	61.6	55.3	45.6
ST-8	6	16-Jan	15:14:00	60	60.4	69.5	50.5	67.7	65.8	63.0	59.7	57.2	53.4
ST-8	7	16-Jan	15:15:00	60	64.4	71.1	44.6	69.9	68.8	67.6	66.7	61.9	52.0
ST-8	8	16-Jan	15:16:00	60	61.1	71.6	44.4	70.6	67.1	61.7	59.7	56.5	47.8
ST-8	9	16-Jan	15:17:00	60	66.4	75.9	44.6	75.2	71.8	68.5	66.7	62.6	47.2
ST-8	10	16-Jan	15:18:00	60	56.7	68.4	39.0	67.4	63.1	54.7	49.0	43.7	40.5
ST-8	11	16-Jan	15:19:00	60	67.6	80.8	42.4	79.5	71.7	66.5	64.5	59.8	52.5
ST-8	12	16-Jan	15:20:00	60	64.4	73.9	43.5	71.4	68.9	67.9	66.4	60.5	45.7
ST-8	13	16-Jan	15:21:00	60	66.5	73.4	47.8	72.4	70.2	69.4	68.3	65.4	53.6
ST-8	14	16-Jan	15:22:00	60	59.3	70.1	40.7	69.1	65.3	62.4	56.8	49.7	44.0
ST-8	15	16-Jan	15:23:00	60	60.0	69.5	39.0	68.6	65.9	63.8	61.0	50.2	40.8
ST-8	16	16-Jan	15:24:00	60	60.9	71.7	42.0	70.0	65.8	63.1	60.5	56.4	48.1
ST-8	17	16-Jan	15:25:00	4.2	50.9	58.4	43.2	58.4	57.5	55.0	49.0	45.8	43.6
					62.7	**80.8**	**39.0**						

Number	Min	Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
ST-4	1	16-Jan	15:31:38	22	64.2	71.0	53.5	70.6	69.2	67.2	66.0	60.9	55.1
ST-4	2	16-Jan	15:32:00	60	60.8	72.6	42.4	70.1	68.0	63.3	56.6	48.4	44.7
ST-4	3	16-Jan	15:33:00	60	62.8	72.8	43.8	71.3	68.7	66.6	63.5	54.8	45.5
ST-4	4	16-Jan	15:34:00	60	61.2	72.5	44.0	70.7	67.1	63.2	60.1	53.9	47.0
ST-4	5	16-Jan	15:35:00	60	66.6	73.5	52.1	72.2	71.2	70.1	68.7	63.7	56.2
ST-4	6	16-Jan	15:36:00	60	64.6	73.3	50.6	71.6	69.4	67.9	65.8	61.3	53.1
ST-4	7	16-Jan	15:37:00	60	66.1	77.2	47.3	75.4	71.6	68.4	66.3	59.4	52.7
ST-4	8	16-Jan	15:38:00	60	68.4	77.1	46.3	76.1	73.2	71.6	70.3	62.0	48.1
ST-4	9	16-Jan	15:39:00	60	64.2	75.2	46.6	73.2	70.4	67.1	63.6	55.1	48.7
ST-4	10	16-Jan	15:40:00	60	66.7	74.4	51.5	73.0	71.5	70.1	68.8	63.3	53.9
ST-4	11	16-Jan	15:41:00	60	66.7	76.2	48.2	75.2	71.8	70.3	67.7	59.0	50.8
ST-4	12	16-Jan	15:42:00	60	62.0	71.0	49.1	69.3	67.6	65.8	62.7	56.7	50.9
ST-4	13	16-Jan	15:43:00	60	66.9	77.6	47.3	75.7	72.8	69.6	66.8	58.7	50.1
ST-4	14	16-Jan	15:44:00	60	62.5	73.2	46.8	70.6	68.7	65.7	62.0	55.9	50.0
ST-4	15	16-Jan	15:45:00	60	64.0	71.8	44.6	70.6	68.7	67.4	66.0	60.6	50.6
ST-4	16	16-Jan	15:46:00	60	59.1	73.0	43.8	71.4	60.3	54.8	53.3	50.0	45.2
ST-4	17	16-Jan	15:47:00	56.9	62.7	73.2	42.4	71.4	68.8	66.6	63.4	51.5	44.0
					64.8	**77.6**	**42.4**						
ST-5	1	16-Jan	15:58:59	1	76.2	77.4	73.5	77.4	77.4	77.4	77.0	76.4	74.5
ST-5	2	16-Jan	15:59:00	60	69.2	79.5	52.4	78.0	73.9	72.2	70.2	64.5	55.6
ST-5	3	16-Jan	16:00:00	60	67.5	77.8	51.3	75.6	73.3	70.7	67.8	61.5	54.0
ST-5	4	16-Jan	16:01:00	60	67.8	77.4	51.0	75.5	72.7	71.0	69.7	63.3	53.7
ST-5	5	16-Jan	16:02:00	60	66.3	78.7	48.3	76.5	71.8	67.2	64.8	57.8	51.3
ST-5	6	16-Jan	16:03:00	60	66.8	77.3	50.2	74.1	71.6	70.1	68.1	63.1	54.0
ST-5	7	16-Jan	16:04:00	60	68.6	77.2	52.6	75.5	73.7	71.5	69.9	65.6	57.1
ST-5	8	16-Jan	16:05:00	60	67.8	79.6	51.9	76.4	73.1	70.4	67.8	62.6	54.6
ST-5	9	16-Jan	16:06:00	60	68.3	79.0	52.5	76.2	73.4	70.9	69.6	64.0	55.8
ST-5	10	16-Jan	16:07:00	60	69.9	78.4	54.8	76.9	74.8	73.2	71.8	65.4	56.3
ST-5	11	16-Jan	16:08:00	60	65.8	75.4	48.5	74.2	71.7	68.9	65.4	60.2	50.8
ST-5	12	16-Jan	16:09:00	60	70.4	83.2	48.8	80.4	74.2	73.0	71.4	63.6	55.3
ST-5	13	16-Jan	16:10:00	60	67.5	78.6	50.5	77.3	72.6	70.1	66.9	61.4	53.1
ST-5	14	16-Jan	16:11:00	60	66.0	75.1	50.3	73.3	71.0	69.6	68.1	60.4	54.3
ST-5	15	16-Jan	16:12:00	39.8	66.5	77.1	48.1	75.2	70.5	68.5	66.7	63.9	56.3
					69.4	**83.2**	**48.1**						

Number	Min	Date	Time	Duration	Leq	Lmax	Lmin	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
ST-10	1	16-Jan	16:17:26	34	53.6	64.1	46.6	58.9	56.9	55.5	54.4	52.5	47.7
ST-10	2	16-Jan	16:18:00	60	53.8	61.7	46.8	61.0	58.7	54.2	53.0	51.7	49.1
ST-10	3	16-Jan	16:19:00	60	60.3	81.0	51.4	65.3	62.0	60.0	58.9	56.9	52.6
ST-10	4	16-Jan	16:20:00	60	61.1	72.5	52.2	70.5	64.5	62.1	60.2	57.8	54.7
ST-10	5	16-Jan	16:21:00	60	55.3	59.7	52.1	58.6	57.1	56.4	55.8	55.0	53.3
ST-10	6	16-Jan	16:22:00	60	54.1	59.5	49.3	58.8	57.7	55.6	54.5	52.9	50.8
ST-10	7	16-Jan	16:23:00	60	56.6	60.6	53.1	59.8	58.8	58.0	57.5	56.3	53.8
ST-10	8	16-Jan	16:24:00	60	57.8	71.7	50.3	64.5	62.0	58.9	57.6	55.6	53.2
ST-10	9	16-Jan	16:25:00	60	55.8	74.8	48.9	59.1	57.4	55.9	55.4	54.1	51.7
ST-10	10	16-Jan	16:26:00	60	55.7	62.6	48.6	60.9	59.2	58.5	57.6	54.1	49.6
ST-10	11	16-Jan	16:27:00	60	55.3	70.8	49.1	59.6	58.3	57.0	56.3	54.2	50.3
ST-10	12	16-Jan	16:28:00	60	55.6	63.4	49.7	59.9	58.6	57.7	56.9	54.9	51.4
ST-10	13	16-Jan	16:29:00	60	55.5	61.5	49.5	60.5	58.7	57.5	56.5	54.7	51.0
ST-10	14	16-Jan	16:30:00	60	54.7	59.9	46.8	59.3	58.2	56.9	56.0	54.2	48.6
ST-10	15	16-Jan	16:31:00	60	54.3	60.5	47.3	59.8	58.1	56.5	55.7	53.1	48.8
ST-10	16	16-Jan	16:32:00	60	53.8	58.6	49.5	57.8	56.7	55.5	54.5	53.1	51.1
ST-10	17	16-Jan	16:33:00	60	55.4	58.9	51.0	58.5	57.7	57.0	56.5	54.9	52.6
ST-10	18	16-Jan	16:34:00	33.8	55.5	59.1	51.1	58.6	57.8	57.3	56.8	55.6	51.8
					56.4	**81.0**	**46.6**						
ST-6	1	16-Jan	16:38:14	45.6	44.0	61.1	37.4	51.0	46.5	44.4	43.2	40.9	38.7
ST-6	2	16-Jan	16:39:00	60	56.0	68.9	38.5	67.3	61.8	55.0	47.3	42.6	40.1
ST-6	3	16-Jan	16:40:00	60	40.6	45.4	38.1	42.9	41.8	41.5	41.1	40.4	39.2
ST-6	4	16-Jan	16:41:00	60	41.4	44.8	37.9	44.0	43.3	42.8	42.3	41.2	39.3
ST-6	5	16-Jan	16:42:00	60	40.6	48.6	37.0	45.7	43.0	41.8	41.1	39.9	38.1
ST-6	6	16-Jan	16:43:00	60	41.8	49.8	38.3	45.6	43.9	43.0	42.5	41.3	39.4
ST-6	7	16-Jan	16:44:00	60	43.0	47.1	38.2	45.9	44.9	44.4	43.9	42.8	40.3
ST-6	8	16-Jan	16:45:00	60	41.5	46.4	38.1	44.6	43.5	42.8	42.3	41.3	39.4
ST-6	9	16-Jan	16:46:00	60	40.4	46.3	36.8	44.3	42.6	41.7	41.1	39.9	38.1
ST-6	10	16-Jan	16:47:00	60	40.8	46.3	37.1	43.9	42.8	42.0	41.5	40.5	39.0
ST-6	11	16-Jan	16:48:00	60	42.9	50.5	37.8	47.3	45.7	44.7	43.9	42.1	39.6
ST-6	12	16-Jan	16:49:00	60	42.4	55.1	37.2	46.7	44.4	43.5	42.9	41.8	39.2
ST-6	13	16-Jan	16:50:00	60	40.8	46.4	38.1	44.6	42.4	41.7	41.2	40.5	39.2
ST-6	14	16-Jan	16:51:00	60	52.1	73.0	37.6	61.0	51.0	45.6	43.4	41.4	39.5
ST-6	15	16-Jan	16:52:00	60	53.2	73.9	34.4	63.1	53.5	49.4	46.6	42.7	39.1
ST-6	16	16-Jan	16:53:00	21.6	55.6	71.4	38.4	70.0	45.8	42.8	41.7	40.6	39.3
					49.1	**73.9**	**34.4**						


Ambient Noise Daily Pattern LT-1
Hourly Noise Level (dBA Leq)
75
70
65
60
55
50
45
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Hour


Ambient Noise Daily Pattern - LT-2
Hourly Noise Level (dBA Leq)
75
70
65
60
55
50
45
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
Hour

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Acoma Trail	Analyst	FJS
Segment:	S/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,430
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	114	4	9	50	2	4	74	2	6
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-10.8	-25.5	-21.8	-14.4	-29.1	-25.5	-12.6	-27.4	-23.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	52.0	46.2	54.7	48.4	42.6	51.1	50.1	44.3	52.8
VEHICULAR NOISE	DAY=	56.9	Leq	EVENING=	53.3	Leq	NIGHT=	55.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**61.7**
			CNEL=	**61.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**28**	**60**	**130**
	CNEL:	**29**	**62**	**134**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Acoma Trail	Analyst	FJS
Segment:	N/ Mountain View	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,357
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	111	4	9	48	2	4	72	2	6
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-10.9	-25.7	-22.0	-14.5	-29.3	-25.6	-12.7	-27.5	-23.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	51.9	46.0	54.6	48.2	42.4	51.0	50.0	44.2	52.7
VEHICULAR NOISE	DAY=	56.8	Leq	EVENING=	53.2	Leq	NIGHT=	55.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**61.6**
			CNEL=	**61.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**27**	**59**	**128**
	CNEL:	**28**	**61**	**131**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Acoma Trail	Analyst	FJS
Segment:	S/ Joshua Drive	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	713
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	33	1	3	15	0	1	22	1	2
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-16.1	-30.9	-27.2	-19.7	-34.5	-30.8	-17.9	-32.7	-29.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	46.7	40.9	49.4	43.1	37.2	45.8	44.8	39.0	47.5
VEHICULAR NOISE	DAY=	51.6	Leq	EVENING=	48.0	Leq	NIGHT=	49.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**56.4**
			CNEL=	**56.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**12**	**27**	**57**
	CNEL:	**13**	**27**	**59**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Airway Avenue	Analyst	FJS
Segment:	N/ Yucca Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,638
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	77	3	6	33	1	3	50	2	4
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-12.5	-27.2	-23.6	-16.1	-30.9	-27.2	-14.3	-29.1	-25.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	50.3	44.5	53.0	46.7	40.8	49.4	48.4	42.6	51.1
VEHICULAR NOISE	DAY=	55.2	Leq	EVENING=	51.6	Leq	NIGHT=	53.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**60.0**
			CNEL=	**60.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**22**	**46**	**100**
	CNEL:	**22**	**48**	**103**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Airway Avenue	Analyst	FJS
Segment:	S/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,026
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	95	3	7	41	1	3	62	2	5
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-11.5	-26.3	-22.6	-15.2	-29.9	-26.3	-13.4	-28.2	-24.5
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	51.2	45.4	53.9	47.6	41.8	50.3	49.3	43.5	52.1
VEHICULAR NOISE	DAY=	56.2	Leq	EVENING=	52.5	Leq	NIGHT=	54.3	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**60.9**
			CNEL=	**61.1**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**25**	**54**	**115**
	CNEL:	**25**	**55**	**118**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Airway Avenue	Analyst	FJS
Segment:	N/ Outer Highway	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	893
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	42	1	3	18	1	1	27	1	2
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-15.1	-29.9	-26.2	-18.7	-33.5	-29.8	-17.0	-31.7	-28.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	47.6	41.8	50.4	44.0	38.2	46.7	45.8	40.0	48.5
VEHICULAR NOISE	DAY=	52.6	Leq	EVENING=	49.0	Leq	NIGHT=	50.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**57.4**
			CNEL=	**57.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**14**	**31**	**67**
	CNEL:	**15**	**32**	**69**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Avalon Avenue	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,374
SPEED (mph)	45
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	65	2	5	28	1	2	42	1	3
Speed in MPH	45	45	45	45	45	45	45	45	45
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	69.3	77.6	82.1	69.3	77.6	82.1	69.3	77.6	82.1
ADJUSTMENTS									
Flow	-13.7	-28.5	-24.8	-17.4	-32.1	-28.5	-15.6	-30.4	-26.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	51.0	44.5	52.7	47.4	40.9	49.1	49.1	42.6	50.8
VEHICULAR NOISE	DAY=	55.3	Leq	EVENING=	51.7	Leq	NIGHT=	53.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**60.1**
			CNEL=	**60.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**22**	**47**	**101**
	CNEL:	**22**	**48**	**104**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Avalon Avenue	Analyst	FJS
Segment:	N/ Sunnyslope Drive	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,707
SPEED (mph)	45
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	127	4	10	55	2	4	83	3	6
Speed in MPH	45	45	45	45	45	45	45	45	45
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	69.3	77.6	82.1	69.3	77.6	82.1	69.3	77.6	82.1
ADJUSTMENTS									
Flow	-10.8	-25.6	-21.9	-14.4	-29.2	-25.5	-12.7	-27.4	-23.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.9	47.4	55.6	50.3	43.8	52.0	52.1	45.6	53.8
VEHICULAR NOISE	DAY=	58.3	Leq	EVENING=	54.6	Leq	NIGHT=	56.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.0**
			CNEL=	**63.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**34**	**74**	**159**
	CNEL:	**35**	**76**	**163**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Balsa Avenue	Analyst	FJS
Segment:	N/ Outer Highway	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	6,121
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	287	10	22	125	4	10	187	6	15
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.7	-21.5	-17.8	-10.4	-25.1	-21.5	-8.6	-23.4	-19.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.0	50.2	58.7	52.4	46.6	55.1	54.2	48.3	56.9
VEHICULAR NOISE	DAY=	61.0	Leq	EVENING=	57.3	Leq	NIGHT=	59.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**65.7**
			CNEL=	**65.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**52**	**112**	**241**
	CNEL:	**53**	**115**	**247**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Balsa Avenue	Analyst	FJS
Segment:	S/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	5,973
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	280	9	22	122	4	9	183	6	14
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.8	-21.6	-17.9	-10.5	-25.2	-21.6	-8.7	-23.5	-19.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.9	50.1	58.6	52.3	46.5	55.0	54.0	48.2	56.8
VEHICULAR NOISE	DAY=	60.9	Leq	EVENING=	57.2	Leq	NIGHT=	59.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**65.6**
			CNEL=	**65.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**51**	**110**	**237**
	CNEL:	**52**	**113**	**243**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Buena Vista Drive	Analyst	FJS
Segment:	B/ Newton Lane - Rowell Road	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,643
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	171	6	13	74	2	6	111	4	9
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.0	-23.8	-20.1	-12.6	-27.4	-23.7	-10.9	-25.6	-21.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.8	47.9	56.5	50.1	44.3	52.8	51.9	46.1	54.6
VEHICULAR NOISE	DAY=	58.7	Leq	EVENING=	55.1	Leq	NIGHT=	56.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.5**
			CNEL=	**63.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**37**	**79**	**171**
	CNEL:	**38**	**81**	**175**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Buena Vista Drive	Analyst	FJS
Segment:	E/ Balsa Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,469
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	163	5	13	71	2	6	106	4	8
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.2	-24.0	-20.3	-12.8	-27.6	-23.9	-11.1	-25.8	-22.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.5	47.7	56.3	49.9	44.1	52.6	51.7	45.9	54.4
VEHICULAR NOISE	DAY=	58.5	Leq	EVENING=	54.9	Leq	NIGHT=	56.6	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.3**
			CNEL=	**63.4**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**36**	**77**	**165**
	CNEL:	**36**	**79**	**169**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Buena Vista Drive	Analyst	FJS
Segment:	W/ Yucca Mesa	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,332
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	109	4	9	48	2	4	71	2	6
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-10.9	-25.7	-22.0	-14.6	-29.3	-25.6	-12.8	-27.6	-23.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	51.8	46.0	54.5	48.2	42.4	50.9	50.0	44.1	52.7
VEHICULAR NOISE	DAY=	56.8	Leq	EVENING=	53.2	Leq	NIGHT=	54.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**61.5**
			CNEL=	**61.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**27**	**59**	**127**
	CNEL:	**28**	**60**	**130**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Buena Vista Drive	Analyst	FJS
Segment:	B/ Roberts Road - Faith Lane	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,638
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	171	6	13	74	2	6	111	4	9
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.0	-23.8	-20.1	-12.6	-27.4	-23.7	-10.9	-25.6	-22.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.7	47.9	56.5	50.1	44.3	52.8	51.9	46.1	54.6
VEHICULAR NOISE	DAY=	58.7	Leq	EVENING=	55.1	Leq	NIGHT=	56.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.5**
			CNEL=	**63.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**37**	**79**	**170**
	CNEL:	**38**	**81**	**175**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Camino del Cielo Trai	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,552
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	73	2	6	32	1	2	47	2	4
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-12.7	-27.5	-23.8	-16.3	-31.1	-27.4	-14.6	-29.3	-25.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	50.0	44.2	52.8	46.4	40.6	49.1	48.2	42.4	50.9
VEHICULAR NOISE	DAY=	55.0	Leq	EVENING=	51.4	Leq	NIGHT=	53.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**59.8**
			CNEL=	**59.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**21**	**45**	**97**
	CNEL:	**21**	**46**	**99**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	El Cortez Road	Analyst	FJS
Segment:	W/ State Route 247	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	483
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	23	1	2	10	0	1	15	0	1
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-17.8	-32.5	-28.9	-21.4	-36.2	-32.5	-19.6	-34.4	-30.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	45.0	39.2	47.7	41.4	35.5	44.1	43.1	37.3	45.8
VEHICULAR NOISE	DAY=	49.9	Leq	EVENING=	46.3	Leq	NIGHT=	48.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**54.7**
			CNEL=	**54.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**10**	**21**	**44**
	CNEL:	**10**	**21**	**45**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Fairview Drive	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	305
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	14	0	1	6	0	0	9	0	1
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-19.8	-34.5	-30.9	-23.4	-38.2	-34.5	-21.6	-36.4	-32.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	43.0	37.2	45.7	39.4	33.5	42.1	41.1	35.3	43.8
VEHICULAR NOISE	DAY=	47.9	Leq	EVENING=	44.3	Leq	NIGHT=	46.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**52.7**
			CNEL=	**52.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**7**	**15**	**33**
	CNEL:	**7**	**16**	**33**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Hilton Avenue	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	5,407
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	254	8	20	110	4	9	165	6	13
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-7.3	-22.1	-18.4	-10.9	-25.7	-22.0	-9.1	-23.9	-20.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.5	49.7	58.2	51.9	46.0	54.6	53.6	47.8	56.3
VEHICULAR NOISE	DAY=	60.4	Leq	EVENING=	56.8	Leq	NIGHT=	58.6	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**65.2**
			CNEL=	**65.4**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**48**	**103**	**222**
	CNEL:	**49**	**106**	**228**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Hopi Trail	Analyst	FJS
Segment:	S/ Santa Fe Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	681
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	32	1	2	14	0	1	21	1	2
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-16.3	-31.0	-27.4	-19.9	-34.7	-31.0	-18.1	-32.9	-29.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	46.5	40.7	49.2	42.9	37.0	45.6	44.6	38.8	47.3
VEHICULAR NOISE	DAY=	51.4	Leq	EVENING=	47.8	Leq	NIGHT=	49.6	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**56.2**
			CNEL=	**56.4**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**12**	**26**	**56**
	CNEL:	**12**	**27**	**57**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	N/ Onaga Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,953
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	233	8	18	101	3	8	152	5	12
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-8.6	-23.4	-19.7	-12.3	-27.0	-23.3	-10.5	-25.3	-21.6
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	57.9	50.8	58.7	54.3	47.2	55.1	56.0	48.9	56.8
VEHICULAR NOISE	DAY=	61.7	Leq	EVENING=	58.1	Leq	NIGHT=	59.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.5**
			CNEL=	**66.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**58**	**125**	**269**
	CNEL:	**60**	**128**	**276**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	N/ Pueblo Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	5,090
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	239	8	19	104	3	8	156	5	12
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-8.5	-23.3	-19.6	-12.1	-26.9	-23.2	-10.4	-25.1	-21.5
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	58.0	50.9	58.8	54.4	47.3	55.2	56.1	49.0	56.9
VEHICULAR NOISE	DAY=	61.8	Leq	EVENING=	58.2	Leq	NIGHT=	59.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.6**
			CNEL=	**66.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**59**	**127**	**274**
	CNEL:	**61**	**131**	**281**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	S/ Joshua Drive	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,311
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	202	7	16	88	3	7	132	4	10
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-9.2	-24.0	-20.3	-12.9	-27.6	-23.9	-11.1	-25.9	-22.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	57.3	50.2	58.1	53.7	46.6	54.5	55.4	48.3	56.2
VEHICULAR NOISE	DAY=	61.1	Leq	EVENING=	57.5	Leq	NIGHT=	59.2	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**65.8**
			CNEL=	**66.0**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**53**	**114**	**245**
	CNEL:	**54**	**117**	**252**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	E/ Emerson Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,164
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	55	2	4	24	1	2	36	1	3
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-14.9	-29.7	-26.0	-18.5	-33.3	-29.6	-16.8	-31.6	-27.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	51.6	44.5	52.4	48.0	40.9	48.8	49.7	42.6	50.5
VEHICULAR NOISE	DAY=	55.4	Leq	EVENING=	51.8	Leq	NIGHT=	53.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**60.2**
			CNEL=	**60.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**22**	**48**	**103**
	CNEL:	**23**	**49**	**105**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	E/ Acoma Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,810
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	85	3	7	37	1	3	55	2	4
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-13.0	-27.8	-24.1	-16.6	-31.4	-27.7	-14.9	-29.6	-26.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.5	46.4	54.3	49.9	42.8	50.7	51.6	44.6	52.5
VEHICULAR NOISE	DAY=	57.3	Leq	EVENING=	53.7	Leq	NIGHT=	55.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**62.1**
			CNEL=	**62.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**30**	**64**	**138**
	CNEL:	**30**	**66**	**141**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	W/ Barberry Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,277
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	107	4	8	46	2	4	70	2	5
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-12.0	-26.8	-23.1	-15.6	-30.4	-26.7	-13.9	-28.6	-25.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	54.5	47.4	55.3	50.9	43.8	51.7	52.6	45.5	53.5
VEHICULAR NOISE	DAY=	58.3	Leq	EVENING=	54.7	Leq	NIGHT=	56.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.1**
			CNEL=	**63.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**35**	**74**	**160**
	CNEL:	**35**	**76**	**165**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	B/ Yucca Trail - State Route 62 Ou	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	7,022
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	330	11	26	143	5	11	215	7	17
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-7.1	-21.9	-18.2	-10.7	-25.5	-21.8	-9.0	-23.7	-20.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	59.4	52.3	60.2	55.8	48.7	56.6	57.5	50.4	58.3
VEHICULAR NOISE	DAY=	63.2	Leq	EVENING=	59.6	Leq	NIGHT=	61.3	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**68.0**
			CNEL=	**68.1**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**73**	**158**	**340**
	CNEL:	**75**	**162**	**349**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Kickapoo Trail	Analyst	FJS
Segment:	S/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,790
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	131	4	10	57	2	4	85	3	7
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-10.2	-24.9	-21.2	-13.8	-28.5	-24.9	-12.0	-26.8	-23.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	52.6	46.8	55.3	49.0	43.2	51.7	50.7	44.9	53.4
VEHICULAR NOISE	DAY=	57.5	Leq	EVENING=	53.9	Leq	NIGHT=	55.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**62.3**
			CNEL=	**62.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**31**	**66**	**143**
	CNEL:	**32**	**68**	**146**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	La Contenta Road	Analyst	FJS
Segment:	N/ Yucca Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,170
SPEED (mph)	55
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	102	3	8	44	1	3	66	2	5
Speed in MPH	55	55	55	55	55	55	55	55	55
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	72.7	79.9	83.8	72.7	79.9	83.8	72.7	79.9	83.8
ADJUSTMENTS									
Flow	-12.6	-27.4	-23.7	-16.2	-31.0	-27.3	-14.5	-29.3	-25.6
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.5	47.8	55.5	51.9	44.2	51.9	53.6	46.0	53.6
VEHICULAR NOISE	DAY=	58.9	Leq	EVENING=	55.2	Leq	NIGHT=	57.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.6**
			CNEL=	**63.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**38**	**81**	**174**
	CNEL:	**39**	**83**	**179**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	La Contenta Road	Analyst	FJS
Segment:	S/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,230
SPEED (mph)	55
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	105	3	8	45	2	4	68	2	5
Speed in MPH	55	55	55	55	55	55	55	55	55
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	72.7	79.9	83.8	72.7	79.9	83.8	72.7	79.9	83.8
ADJUSTMENTS									
Flow	-12.5	-27.3	-23.6	-16.1	-30.9	-27.2	-14.4	-29.1	-25.5
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.6	48.0	55.6	52.0	44.3	52.0	53.7	46.1	53.7
VEHICULAR NOISE	DAY=	59.0	Leq	EVENING=	55.4	Leq	NIGHT=	57.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.7**
			CNEL=	**63.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**38**	**82**	**178**
	CNEL:	**39**	**85**	**182**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	E/ Elata Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,966
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	139	5	11	61	2	5	91	3	7
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.9	-24.7	-21.0	-13.5	-28.3	-24.6	-11.7	-26.5	-22.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	52.9	47.0	55.6	49.2	43.4	52.0	51.0	45.2	53.7
VEHICULAR NOISE	DAY=	57.8	Leq	EVENING=	54.2	Leq	NIGHT=	56.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**62.6**
			CNEL=	**62.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**32**	**69**	**149**
	CNEL:	**33**	**71**	**153**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	E/ Acoma Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,544
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	166	6	13	72	2	6	108	4	8
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.1	-23.9	-20.2	-12.7	-27.5	-23.8	-11.0	-25.7	-22.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.6	47.8	56.3	50.0	44.2	52.7	51.8	46.0	54.5
VEHICULAR NOISE	DAY=	58.6	Leq	EVENING=	55.0	Leq	NIGHT=	56.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.4**
			CNEL=	**63.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**36**	**78**	**167**
	CNEL:	**37**	**80**	**172**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	W/ Jemez Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,620
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	76	3	6	33	1	3	50	2	4
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-12.5	-27.3	-23.6	-16.1	-30.9	-27.2	-14.4	-29.1	-25.5
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	50.2	44.4	52.9	46.6	40.8	49.3	48.4	42.6	51.1
VEHICULAR NOISE	DAY=	55.2	Leq	EVENING=	51.6	Leq	NIGHT=	53.3	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**60.0**
			CNEL=	**60.1**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**21**	**46**	**99**
	CNEL:	**22**	**47**	**102**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	E/ Alaba Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,782
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	84	3	7	36	1	3	55	2	4
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-12.1	-26.9	-23.2	-15.7	-30.5	-26.8	-14.0	-28.7	-25.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	50.7	44.8	53.4	47.0	41.2	49.7	48.8	43.0	51.5
VEHICULAR NOISE	DAY=	55.6	Leq	EVENING=	52.0	Leq	NIGHT=	53.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**60.4**
			CNEL=	**60.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**23**	**49**	**106**
	CNEL:	**23**	**50**	**109**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	E/ Elk Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,017
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	142	5	11	62	2	5	92	3	7
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.8	-24.6	-20.9	-13.4	-28.2	-24.5	-11.7	-26.4	-22.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	52.9	47.1	55.6	49.3	43.5	52.0	51.1	45.3	53.8
VEHICULAR NOISE	DAY=	57.9	Leq	EVENING=	54.3	Leq	NIGHT=	56.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**62.7**
			CNEL=	**62.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**32**	**70**	**150**
	CNEL:	**33**	**72**	**154**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	W/ Joshua Lane	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,734
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	175	6	14	76	3	6	114	4	9
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-8.9	-23.7	-20.0	-12.5	-27.3	-23.6	-10.7	-25.5	-21.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.9	48.0	56.6	50.2	44.4	53.0	52.0	46.2	54.7
VEHICULAR NOISE	DAY=	58.8	Leq	EVENING=	55.2	Leq	NIGHT=	57.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.6**
			CNEL=	**63.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**37**	**80**	**173**
	CNEL:	**38**	**83**	**178**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	W/ Sage Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,765
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	224	7	17	97	3	8	146	5	11
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-7.8	-22.6	-18.9	-11.4	-26.2	-22.5	-9.7	-24.5	-20.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	54.9	49.1	57.6	51.3	45.5	54.0	53.1	47.2	55.8
VEHICULAR NOISE	DAY=	59.9	Leq	EVENING=	56.3	Leq	NIGHT=	58.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**64.6**
			CNEL=	**64.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**44**	**95**	**204**
	CNEL:	**45**	**97**	**209**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Palm Drive	Analyst	FJS
Segment:	N/ Pueblo Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,207
SPEED (mph)	45
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	57	2	4	25	1	2	37	1	3
Speed in MPH	45	45	45	45	45	45	45	45	45
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	69.3	77.6	82.1	69.3	77.6	82.1	69.3	77.6	82.1
ADJUSTMENTS									
Flow	-14.3	-29.1	-25.4	-17.9	-32.7	-29.0	-16.2	-30.9	-27.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	50.4	43.9	52.1	46.8	40.3	48.5	48.6	42.1	50.3
VEHICULAR NOISE	DAY=	54.8	Leq	EVENING=	51.1	Leq	NIGHT=	52.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**59.5**
			CNEL=	**59.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**20**	**43**	**93**
	CNEL:	**21**	**44**	**95**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Palomar Avenue	Analyst	FJS
Segment:	S/ Yucca Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,423
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	208	7	16	90	3	7	135	5	11
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-9.1	-23.9	-20.2	-12.7	-27.5	-23.8	-11.0	-25.8	-22.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	57.4	50.3	58.2	53.8	46.7	54.6	55.5	48.4	56.3
VEHICULAR NOISE	DAY=	61.2	Leq	EVENING=	57.6	Leq	NIGHT=	59.3	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.0**
			CNEL=	**66.1**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**54**	**116**	**250**
	CNEL:	**55**	**119**	**256**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Palomar Avenue	Analyst	FJS
Segment:	N/ Joshua Lane	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	836
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	39	1	3	17	1	1	26	1	2
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-16.4	-31.1	-27.4	-20.0	-34.7	-31.1	-18.2	-33.0	-29.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	50.2	43.1	51.0	46.5	39.4	47.3	48.3	41.2	49.1
VEHICULAR NOISE	DAY=	54.0	Leq	EVENING=	50.3	Leq	NIGHT=	52.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**58.7**
			CNEL=	**58.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**18**	**38**	**82**
	CNEL:	**18**	**39**	**84**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Paxton Drive	Analyst	FJS
Segment:	E/ State Route 247	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,522
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	71	2	6	31	1	2	47	2	4
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-12.8	-27.6	-23.9	-16.4	-31.2	-27.5	-14.6	-29.4	-25.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	50.0	44.1	52.7	46.3	40.5	49.1	48.1	42.3	50.8
VEHICULAR NOISE	DAY=	54.9	Leq	EVENING=	51.3	Leq	NIGHT=	53.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**59.7**
			CNEL=	**59.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**21**	**44**	**95**
	CNEL:	**21**	**45**	**98**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Pinon Drive	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	293
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	14	0	1	6	0	0	9	0	1
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-19.9	-34.7	-31.0	-23.6	-38.3	-34.7	-21.8	-36.6	-32.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	42.8	37.0	45.5	39.2	33.4	41.9	41.0	35.1	43.7
VEHICULAR NOISE	DAY=	47.8	Leq	EVENING=	44.1	Leq	NIGHT=	45.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**52.5**
			CNEL=	**52.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**7**	**15**	**32**
	CNEL:	**7**	**15**	**33**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Pioneertown Road	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,238
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	105	4	8	46	2	4	68	2	5
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-12.1	-26.9	-23.2	-15.7	-30.5	-26.8	-13.9	-28.7	-25.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	54.4	47.3	55.2	50.8	43.7	51.6	52.6	45.5	53.4
VEHICULAR NOISE	DAY=	58.2	Leq	EVENING=	54.6	Leq	NIGHT=	56.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.0**
			CNEL=	**63.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**34**	**74**	**159**
	CNEL:	**35**	**75**	**163**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Pioneertown Road	Analyst	FJS
Segment:	S/ Town Limits	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	981
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	46	2	4	20	1	2	30	1	2
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-15.7	-30.4	-26.8	-19.3	-34.1	-30.4	-17.5	-32.3	-28.6
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	50.8	43.8	51.7	47.2	40.1	48.0	49.0	41.9	49.8
VEHICULAR NOISE	DAY=	54.7	Leq	EVENING=	51.0	Leq	NIGHT=	52.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**59.4**
			CNEL=	**59.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**20**	**42**	**91**
	CNEL:	**20**	**44**	**94**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Pueblo Trail	Analyst	FJS
Segment:	W/ Hanford Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	291
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	14	0	1	6	0	0	9	0	1
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-20.0	-34.7	-31.1	-23.6	-38.4	-34.7	-21.8	-36.6	-32.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	42.8	37.0	45.5	39.2	33.3	41.9	40.9	35.1	43.6
VEHICULAR NOISE	DAY=	47.7	Leq	EVENING=	44.1	Leq	NIGHT=	45.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**52.5**
			CNEL=	**52.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**7**	**15**	**32**
	CNEL:	**7**	**15**	**32**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Sage Avenue	Analyst	FJS
Segment:	W/ Yucca Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,341
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	204	7	16	89	3	7	133	4	10
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-8.2	-23.0	-19.3	-11.9	-26.6	-22.9	-10.1	-24.9	-21.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	54.5	48.7	57.2	50.9	45.1	53.6	52.7	46.8	55.4
VEHICULAR NOISE	DAY=	59.5	Leq	EVENING=	55.8	Leq	NIGHT=	57.6	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**64.2**
			CNEL=	**64.4**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**41**	**89**	**192**
	CNEL:	**42**	**91**	**197**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Sage Avenue	Analyst	FJS
Segment:	N/ Onaga Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,122
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	194	6	15	84	3	7	126	4	10
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-8.5	-23.2	-19.6	-12.1	-26.9	-23.2	-10.3	-25.1	-21.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	54.3	48.5	57.0	50.7	44.9	53.4	52.4	46.6	55.1
VEHICULAR NOISE	DAY=	59.2	Leq	EVENING=	55.6	Leq	NIGHT=	57.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**64.0**
			CNEL=	**64.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**40**	**86**	**185**
	CNEL:	**41**	**88**	**190**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Sage Avenue	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,142
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	101	3	8	44	1	3	66	2	5
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-11.3	-26.1	-22.4	-14.9	-29.7	-26.0	-13.2	-27.9	-24.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	51.4	45.6	54.2	47.8	42.0	50.5	49.6	43.8	52.3
VEHICULAR NOISE	DAY=	56.4	Leq	EVENING=	52.8	Leq	NIGHT=	54.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**61.2**
			CNEL=	**61.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**26**	**56**	**120**
	CNEL:	**26**	**57**	**123**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Santa Fe Trail	Analyst	FJS
Segment:	W/ Cherokee Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	730
SPEED (mph)	35
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	34	1	3	15	0	1	22	1	2
Speed in MPH	35	35	35	35	35	35	35	35	35
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	65.1	74.8	80.0	65.1	74.8	80.0	65.1	74.8	80.0
ADJUSTMENTS									
Flow	-15.4	-30.2	-26.5	-19.0	-33.8	-30.1	-17.3	-32.0	-28.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	45.1	40.1	48.9	41.5	36.4	45.3	43.2	38.2	47.1
VEHICULAR NOISE	DAY=	50.8	Leq	EVENING=	47.2	Leq	NIGHT=	49.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**55.6**
			CNEL=	**55.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**11**	**24**	**51**
	CNEL:	**11**	**24**	**52**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Santa Fe Trail	Analyst	FJS
Segment:	E/ Kickapoo Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	505
SPEED (mph)	35
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	24	1	2	10	0	1	15	1	1
Speed in MPH	35	35	35	35	35	35	35	35	35
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	65.1	74.8	80.0	65.1	74.8	80.0	65.1	74.8	80.0
ADJUSTMENTS									
Flow	-17.0	-31.8	-28.1	-20.6	-35.4	-31.7	-18.9	-33.6	-29.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	43.5	38.5	47.3	39.9	34.8	43.7	41.6	36.6	45.5
VEHICULAR NOISE	DAY=	49.2	Leq	EVENING=	45.6	Leq	NIGHT=	47.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**54.0**
			CNEL=	**54.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**9**	**18**	**40**
	CNEL:	**9**	**19**	**41**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	Existing Count	Project:	Yucca Valley
Roadway:	Skyline Ranch Road	Analyst	FJS
Segment:	W/ State Route 247	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	833
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	39	1	3	17	1	1	25	1	2
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-15.4	-30.2	-26.5	-19.0	-33.8	-30.1	-17.3	-32.0	-28.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	47.3	41.5	50.1	43.7	37.9	46.4	45.5	39.7	48.2
VEHICULAR NOISE	DAY=	52.3	Leq	EVENING=	48.7	Leq	NIGHT=	50.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**57.1**
			CNEL=	**57.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**14**	**30**	**64**
	CNEL:	**14**	**30**	**65**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Acoma Trail	Analyst	FJS
Segment:	S/R 62 to Onaga Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,530
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	166	6	13	72	2	6	108	4	8
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.1	-23.9	-20.2	-12.8	-27.5	-23.8	-11.0	-25.8	-22.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.6	47.8	56.3	50.0	44.2	52.7	51.8	45.9	54.5
VEHICULAR NOISE	DAY=	58.6	Leq	EVENING=	55.0	Leq	NIGHT=	56.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.3**
			CNEL=	**63.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**36**	**78**	**167**
	CNEL:	**37**	**80**	**171**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Acoma Trail	Analyst	FJS
Segment:	Mountain View Trail to Onaga Trai	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	10,570
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	496	17	39	216	7	17	323	11	25
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-4.4	-19.1	-15.5	-8.0	-22.8	-19.1	-6.2	-21.0	-17.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	58.4	52.6	61.1	54.8	48.9	57.5	56.5	50.7	59.2
VEHICULAR NOISE	DAY=	63.3	Leq	EVENING=	59.7	Leq	NIGHT=	61.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**68.1**
			CNEL=	**68.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**75**	**161**	**347**
	CNEL:	**77**	**165**	**356**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Acoma Trail	Analyst	FJS
Segment:	Joshua Drive to Golden Bee Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,300
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	155	5	12	67	2	5	101	3	8
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.4	-24.2	-20.5	-13.0	-27.8	-24.1	-11.3	-26.1	-22.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.3	47.5	56.0	49.7	43.9	52.4	51.5	45.6	54.2
VEHICULAR NOISE	DAY=	58.3	Leq	EVENING=	54.7	Leq	NIGHT=	56.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.0**
			CNEL=	**63.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**34**	**74**	**160**
	CNEL:	**35**	**76**	**164**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Airway Avenue	Analyst	FJS
Segment:	Yucca Trail to Primrose Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,850
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	228	8	18	99	3	8	148	5	12
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-7.8	-22.5	-18.8	-11.4	-26.1	-22.5	-9.6	-24.4	-20.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.0	49.2	57.7	51.4	45.6	54.1	53.1	47.3	55.8
VEHICULAR NOISE	DAY=	60.0	Leq	EVENING=	56.3	Leq	NIGHT=	58.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**64.7**
			CNEL=	**64.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**44**	**96**	**206**
	CNEL:	**46**	**98**	**212**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Airway Avenue	Analyst	FJS
Segment:	Primrose Dr to S/R 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,590
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	169	6	13	73	2	6	110	4	9
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.1	-23.8	-20.2	-12.7	-27.5	-23.8	-10.9	-25.7	-22.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.7	47.9	56.4	50.1	44.3	52.8	51.8	46.0	54.5
VEHICULAR NOISE	DAY=	58.6	Leq	EVENING=	55.0	Leq	NIGHT=	56.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.4**
			CNEL=	**63.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**36**	**78**	**169**
	CNEL:	**37**	**80**	**173**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Airway Avenue	Analyst	FJS
Segment:	S/R 62 to Aviation Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	7,110
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	334	11	26	145	5	11	218	7	17
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.1	-20.9	-17.2	-9.7	-24.5	-20.8	-8.0	-22.7	-19.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.7	50.8	59.4	53.0	47.2	55.7	54.8	49.0	57.5
VEHICULAR NOISE	DAY=	61.6	Leq	EVENING=	58.0	Leq	NIGHT=	59.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.4**
			CNEL=	**66.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**57**	**124**	**266**
	CNEL:	**59**	**127**	**273**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Avalon Avenue	Analyst	FJS
Segment:	State Route 62 to Paxton Rd	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	5,870
SPEED (mph)	45
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	276	9	21	120	4	9	180	6	14
Speed in MPH	45	45	45	45	45	45	45	45	45
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	69.3	77.6	82.1	69.3	77.6	82.1	69.3	77.6	82.1
ADJUSTMENTS									
Flow	-7.4	-22.2	-18.5	-11.1	-25.8	-22.1	-9.3	-24.1	-20.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	57.3	50.8	59.0	53.7	47.2	55.4	55.4	48.9	57.1
VEHICULAR NOISE	DAY=	61.6	Leq	EVENING=	58.0	Leq	NIGHT=	59.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.4**
			CNEL=	**66.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**57**	**124**	**267**
	CNEL:	**59**	**127**	**274**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Avalon Avenue	Analyst	FJS
Segment:	Sunnyslope Drive to S/R 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	10,970
SPEED (mph)	45
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	515	17	40	224	7	17	336	11	26
Speed in MPH	45	45	45	45	45	45	45	45	45
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	69.3	77.6	82.1	69.3	77.6	82.1	69.3	77.6	82.1
ADJUSTMENTS									
Flow	-4.7	-19.5	-15.8	-8.3	-23.1	-19.4	-6.6	-21.3	-17.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	60.0	53.5	61.7	56.4	49.9	58.1	58.2	51.7	59.9
VEHICULAR NOISE	DAY=	64.3	Leq	EVENING=	60.7	Leq	NIGHT=	62.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**69.1**
			CNEL=	**69.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**87**	**188**	**405**
	CNEL:	**89**	**193**	**415**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Balsa Avenue	Analyst	FJS
Segment:	S/R 62 to Paxton Rd	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	11,640
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	546	18	43	237	8	18	356	12	28
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-4.0	-18.7	-15.0	-7.6	-22.3	-18.7	-5.8	-20.6	-16.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	58.8	53.0	61.5	55.2	49.4	57.9	56.9	51.1	59.6
VEHICULAR NOISE	DAY=	63.8	Leq	EVENING=	60.1	Leq	NIGHT=	61.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**68.5**
			CNEL=	**68.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**80**	**172**	**370**
	CNEL:	**82**	**176**	**380**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Balsa Avenue	Analyst	FJS
Segment:	State Route 62 to Sunnyslope Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	23,400
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	1099	37	85	477	16	37	716	24	56
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-0.9	-15.7	-12.0	-4.5	-19.3	-15.6	-2.8	-17.5	-13.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	61.8	56.0	64.5	58.2	52.4	60.9	60.0	54.2	62.7
VEHICULAR NOISE	DAY=	66.8	Leq	EVENING=	63.2	Leq	NIGHT=	64.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**71.6**
			CNEL=	**71.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**127**	**273**	**589**
	CNEL:	**130**	**281**	**605**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Buena Vista Drive	Analyst	FJS
Segment:	Newton Lane - Rowell Road	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	13,520
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	635	21	49	276	9	21	414	14	32
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-3.3	-18.1	-14.4	-6.9	-21.7	-18.0	-5.2	-19.9	-16.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	59.5	53.6	62.2	55.8	50.0	58.5	57.6	51.8	60.3
VEHICULAR NOISE	DAY=	64.4	Leq	EVENING=	60.8	Leq	NIGHT=	62.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**69.2**
			CNEL=	**69.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**88**	**190**	**409**
	CNEL:	**90**	**195**	**419**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Buena Vista Drive	Analyst	FJS
Segment:	Balsa Avenue to Indio Ave	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	7,960
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	374	12	29	162	5	13	244	8	19
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-5.6	-20.4	-16.7	-9.2	-24.0	-20.3	-7.5	-22.2	-18.6
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	57.2	51.3	59.9	53.5	47.7	56.2	55.3	49.5	58.0
VEHICULAR NOISE	DAY=	62.1	Leq	EVENING=	58.5	Leq	NIGHT=	60.2	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.9**
			CNEL=	**67.0**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**62**	**133**	**287**
	CNEL:	**63**	**137**	**295**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Buena Vista Drive	Analyst	FJS
Segment:	Indio Ave to Yucca Mesa Road	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	7,240
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	340	11	26	148	5	11	222	7	17
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.0	-20.8	-17.1	-9.6	-24.4	-20.7	-7.9	-22.6	-19.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.7	50.9	59.4	53.1	47.3	55.8	54.9	49.1	57.6
VEHICULAR NOISE	DAY=	61.7	Leq	EVENING=	58.1	Leq	NIGHT=	59.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.5**
			CNEL=	**66.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**58**	**125**	**270**
	CNEL:	**60**	**128**	**277**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Buena Vista Drive	Analyst	FJS
Segment:	Roberts Road - Faith Lane	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	10,350
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	486	16	38	211	7	16	317	11	25
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-4.5	-19.2	-15.6	-8.1	-22.9	-19.2	-6.3	-21.1	-17.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	58.3	52.5	61.0	54.7	48.9	57.4	56.4	50.6	59.1
VEHICULAR NOISE	DAY=	63.2	Leq	EVENING=	59.6	Leq	NIGHT=	61.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**68.0**
			CNEL=	**68.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**74**	**159**	**342**
	CNEL:	**76**	**163**	**351**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Camino del Cielo Trai	Analyst	FJS
Segment:	State Route 62 to Yucca Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	6,870
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	323	11	25	140	5	11	210	7	16
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.2	-21.0	-17.3	-9.9	-24.6	-21.0	-8.1	-22.9	-19.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.5	50.7	59.2	52.9	47.1	55.6	54.7	48.8	57.4
VEHICULAR NOISE	DAY=	61.5	Leq	EVENING=	57.8	Leq	NIGHT=	59.6	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.2**
			CNEL=	**66.4**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**56**	**121**	**260**
	CNEL:	**58**	**124**	**267**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	El Cortez Road	Analyst	FJS
Segment:	Buena Suerte Road to State Route	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,140
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	54	2	4	23	1	2	35	1	3
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-14.0	-28.8	-25.1	-17.7	-32.4	-28.8	-15.9	-30.7	-27.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	48.7	42.9	51.4	45.1	39.3	47.8	46.9	41.0	49.6
VEHICULAR NOISE	DAY=	53.7	Leq	EVENING=	50.0	Leq	NIGHT=	51.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**58.4**
			CNEL=	**58.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**17**	**36**	**79**
	CNEL:	**17**	**37**	**81**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Fairview Drive	Analyst	FJS
Segment:	State Route 62 to Cardillo Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	780
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	37	1	3	16	1	1	24	1	2
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-15.7	-30.5	-26.8	-19.3	-34.1	-30.4	-17.5	-32.3	-28.6
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	47.1	41.2	49.8	43.4	37.6	46.2	45.2	39.4	47.9
VEHICULAR NOISE	DAY=	52.0	Leq	EVENING=	48.4	Leq	NIGHT=	50.2	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**56.8**
			CNEL=	**56.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**13**	**28**	**61**
	CNEL:	**13**	**29**	**63**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Hilton Avenue	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	7,000
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	329	11	26	143	5	11	214	7	17
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.2	-20.9	-17.3	-9.8	-24.6	-20.9	-8.0	-22.8	-19.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.6	50.8	59.3	53.0	47.2	55.7	54.7	48.9	57.4
VEHICULAR NOISE	DAY=	61.5	Leq	EVENING=	57.9	Leq	NIGHT=	59.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.3**
			CNEL=	**66.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**57**	**122**	**264**
	CNEL:	**58**	**126**	**270**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Hopi Trail	Analyst	FJS
Segment:	Santa Fe Trail to Onaga Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,600
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	122	4	9	53	2	4	80	3	6
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-10.5	-25.2	-21.6	-14.1	-28.9	-25.2	-12.3	-27.1	-23.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	52.3	46.5	55.0	48.7	42.9	51.4	50.4	44.6	53.1
VEHICULAR NOISE	DAY=	57.2	Leq	EVENING=	53.6	Leq	NIGHT=	55.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**62.0**
			CNEL=	**62.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**29**	**63**	**136**
	CNEL:	**30**	**65**	**140**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	Onaga Trail to Peublo Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	9,660
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	454	15	35	197	7	15	296	10	23
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-5.7	-20.5	-16.8	-9.3	-24.1	-20.4	-7.6	-22.4	-18.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	60.8	53.7	61.6	57.2	50.1	58.0	58.9	51.8	59.7
VEHICULAR NOISE	DAY=	64.6	Leq	EVENING=	61.0	Leq	NIGHT=	62.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**69.4**
			CNEL=	**69.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**91**	**195**	**420**
	CNEL:	**93**	**200**	**431**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	Pueblo Trail to Yucca Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	10,580
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	497	17	39	216	7	17	324	11	25
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-5.3	-20.1	-16.4	-9.0	-23.7	-20.0	-7.2	-22.0	-18.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	61.2	54.1	62.0	57.6	50.5	58.4	59.3	52.2	60.1
VEHICULAR NOISE	DAY=	65.0	Leq	EVENING=	61.4	Leq	NIGHT=	63.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**69.7**
			CNEL=	**69.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**96**	**207**	**447**
	CNEL:	**99**	**213**	**458**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	Joshua Drive to Golden Bee Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	10,890
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	511	17	40	222	7	17	333	11	26
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-5.2	-20.0	-16.3	-8.8	-23.6	-19.9	-7.1	-21.8	-18.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	61.3	54.2	62.1	57.7	50.6	58.5	59.4	52.3	60.3
VEHICULAR NOISE	DAY=	65.1	Leq	EVENING=	61.5	Leq	NIGHT=	63.2	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**69.9**
			CNEL=	**70.0**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**98**	**211**	**455**
	CNEL:	**101**	**217**	**467**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	E/ Emerson Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,830
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	133	4	10	58	2	4	87	3	7
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-11.1	-25.8	-22.2	-14.7	-29.5	-25.8	-12.9	-27.7	-24.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.4	48.4	56.3	51.8	44.7	52.6	53.6	46.5	54.4
VEHICULAR NOISE	DAY=	59.3	Leq	EVENING=	55.6	Leq	NIGHT=	57.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**64.0**
			CNEL=	**64.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**40**	**86**	**185**
	CNEL:	**41**	**88**	**190**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	E/ Acoma Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	7,860
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	369	12	29	160	5	12	241	8	19
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-6.6	-21.4	-17.7	-10.2	-25.0	-21.3	-8.5	-23.3	-19.6
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	59.9	52.8	60.7	56.3	49.2	57.1	58.0	50.9	58.8
VEHICULAR NOISE	DAY=	63.7	Leq	EVENING=	60.1	Leq	NIGHT=	61.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**68.5**
			CNEL=	**68.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**79**	**170**	**366**
	CNEL:	**81**	**174**	**376**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	Barberry Avenue to Sage Ave	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	6,740
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	316	11	25	137	5	11	206	7	16
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-7.3	-22.1	-18.4	-10.9	-25.7	-22.0	-9.2	-23.9	-20.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	59.2	52.1	60.0	55.6	48.5	56.4	57.4	50.3	58.2
VEHICULAR NOISE	DAY=	63.0	Leq	EVENING=	59.4	Leq	NIGHT=	61.2	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**67.8**
			CNEL=	**68.0**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**71**	**153**	**331**
	CNEL:	**73**	**157**	**339**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Joshua Lane	Analyst	FJS
Segment:	Yucca Trail to State Route 62 Out	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	14,070
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	661	22	51	287	10	22	431	14	33
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-4.1	-18.9	-15.2	-7.7	-22.5	-18.8	-6.0	-20.7	-17.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	62.4	55.3	63.2	58.8	51.7	59.6	60.6	53.5	61.4
VEHICULAR NOISE	DAY=	66.2	Leq	EVENING=	62.6	Leq	NIGHT=	64.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**71.0**
			CNEL=	**71.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**116**	**251**	**540**
	CNEL:	**119**	**257**	**554**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Kickapoo Trail	Analyst	FJS
Segment:	State Route 62 to Onaga Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	6,620
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	311	10	24	135	5	11	203	7	16
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.4	-21.2	-17.5	-10.0	-24.8	-21.1	-8.3	-23.0	-19.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.3	50.5	59.1	52.7	46.9	55.4	54.5	48.7	57.2
VEHICULAR NOISE	DAY=	61.3	Leq	EVENING=	57.7	Leq	NIGHT=	59.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.1**
			CNEL=	**66.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**55**	**118**	**254**
	CNEL:	**56**	**121**	**261**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	La Contenta Road	Analyst	FJS
Segment:	Yucca Trail to Sunnyslope Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	8,430
SPEED (mph)	55
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	396	13	31	172	6	13	258	9	20
Speed in MPH	55	55	55	55	55	55	55	55	55
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	72.7	79.9	83.8	72.7	79.9	83.8	72.7	79.9	83.8
ADJUSTMENTS									
Flow	-6.7	-21.5	-17.8	-10.4	-25.1	-21.4	-8.6	-23.4	-19.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	61.4	53.7	61.4	57.8	50.1	57.8	59.5	51.9	59.5
VEHICULAR NOISE	DAY=	64.7	Leq	EVENING=	61.1	Leq	NIGHT=	62.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**69.5**
			CNEL=	**69.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**93**	**200**	**431**
	CNEL:	**95**	**205**	**442**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	La Contenta Road	Analyst	FJS
Segment:	Sunnyslope Dr to State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	18,660
SPEED (mph)	55
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	876	29	68	381	13	30	571	19	44
Speed in MPH	55	55	55	55	55	55	55	55	55
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	72.7	79.9	83.8	72.7	79.9	83.8	72.7	79.9	83.8
ADJUSTMENTS									
Flow	-3.3	-18.1	-14.4	-6.9	-21.7	-18.0	-5.1	-19.9	-16.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	64.8	57.2	64.8	61.2	53.6	61.2	63.0	55.3	63.0
VEHICULAR NOISE	DAY=	68.2	Leq	EVENING=	64.6	Leq	NIGHT=	66.3	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**73.0**
			CNEL=	**73.1**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**158**	**340**	**732**
	CNEL:	**162**	**349**	**751**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	E/ Elata Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	6,290
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	295	10	23	128	4	10	192	6	15
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.6	-21.4	-17.7	-10.2	-25.0	-21.3	-8.5	-23.3	-19.6
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.1	50.3	58.8	52.5	46.7	55.2	54.3	48.5	57.0
VEHICULAR NOISE	DAY=	61.1	Leq	EVENING=	57.5	Leq	NIGHT=	59.2	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**65.8**
			CNEL=	**66.0**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**53**	**114**	**245**
	CNEL:	**54**	**117**	**252**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	Acoma Trail to Palm Ave	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,550
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	167	6	13	72	2	6	109	4	8
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.1	-23.9	-20.2	-12.7	-27.5	-23.8	-11.0	-25.7	-22.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	53.6	47.8	56.4	50.0	44.2	52.7	51.8	46.0	54.5
VEHICULAR NOISE	DAY=	58.6	Leq	EVENING=	55.0	Leq	NIGHT=	56.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.4**
			CNEL=	**63.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**36**	**78**	**168**
	CNEL:	**37**	**80**	**172**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	Jemez Trail to Kickapoo Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,370
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	205	7	16	89	3	7	134	4	10
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-8.2	-23.0	-19.3	-11.8	-26.6	-22.9	-10.1	-24.8	-21.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	54.5	48.7	57.3	50.9	45.1	53.6	52.7	46.9	55.4
VEHICULAR NOISE	DAY=	59.5	Leq	EVENING=	55.9	Leq	NIGHT=	57.6	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**64.3**
			CNEL=	**64.4**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**41**	**89**	**193**
	CNEL:	**43**	**92**	**198**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	E/ Alaba Avenue	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,860
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	181	6	14	79	3	6	118	4	9
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-8.7	-23.5	-19.8	-12.4	-27.1	-23.5	-10.6	-25.4	-21.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	54.0	48.2	56.7	50.4	44.6	53.1	52.1	46.3	54.9
VEHICULAR NOISE	DAY=	59.0	Leq	EVENING=	55.3	Leq	NIGHT=	57.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.7**
			CNEL=	**63.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**38**	**82**	**177**
	CNEL:	**39**	**84**	**182**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	Elk Trail to Acoma Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	5,080
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	239	8	19	104	3	8	155	5	12
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-7.6	-22.3	-18.6	-11.2	-25.9	-22.3	-9.4	-24.2	-20.5
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.2	49.4	57.9	51.6	45.8	54.3	53.3	47.5	56.0
VEHICULAR NOISE	DAY=	60.2	Leq	EVENING=	56.5	Leq	NIGHT=	58.3	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**64.9**
			CNEL=	**65.1**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**46**	**99**	**213**
	CNEL:	**47**	**101**	**218**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	Joshua Lane to Sage Ave	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	5,380
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	253	8	20	110	4	9	165	5	13
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-7.3	-22.1	-18.4	-10.9	-25.7	-22.0	-9.2	-23.9	-20.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.4	49.6	58.2	51.8	46.0	54.5	53.6	47.8	56.3
VEHICULAR NOISE	DAY=	60.4	Leq	EVENING=	56.8	Leq	NIGHT=	58.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**65.2**
			CNEL=	**65.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**48**	**103**	**221**
	CNEL:	**49**	**105**	**227**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Onaga Trail	Analyst	FJS
Segment:	Sage Avenue to Palm Ave	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	6,540
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	307	10	24	133	4	10	200	7	16
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.5	-21.2	-17.5	-10.1	-24.8	-21.2	-8.3	-23.1	-19.4
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.3	50.5	59.0	52.7	46.9	55.4	54.4	48.6	57.1
VEHICULAR NOISE	DAY=	61.2	Leq	EVENING=	57.6	Leq	NIGHT=	59.4	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.0**
			CNEL=	**66.2**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**54**	**117**	**252**
	CNEL:	**56**	**120**	**258**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Palm Ave	Analyst	FJS
Segment:	Pueblo Trail to Yucca Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,890
SPEED (mph)	45
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	183	6	14	79	3	6	119	4	9
Speed in MPH	45	45	45	45	45	45	45	45	45
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	69.3	77.6	82.1	69.3	77.6	82.1	69.3	77.6	82.1
ADJUSTMENTS									
Flow	-9.2	-24.0	-20.3	-12.8	-27.6	-23.9	-11.1	-25.9	-22.2
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.5	49.0	57.2	51.9	45.4	53.6	53.7	47.2	55.4
VEHICULAR NOISE	DAY=	59.8	Leq	EVENING=	56.2	Leq	NIGHT=	58.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**64.6**
			CNEL=	**64.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**44**	**94**	**203**
	CNEL:	**45**	**97**	**208**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Palomar Avenue	Analyst	FJS
Segment:	Yucca Trail to Joshua Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	14,720
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	691	23	54	300	10	23	450	15	35
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-3.9	-18.7	-15.0	-7.5	-22.3	-18.6	-5.8	-20.5	-16.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	62.6	55.5	63.4	59.0	51.9	59.8	60.8	53.7	61.6
VEHICULAR NOISE	DAY=	66.4	Leq	EVENING=	62.8	Leq	NIGHT=	64.6	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**71.2**
			CNEL=	**71.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**120**	**258**	**556**
	CNEL:	**123**	**265**	**571**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Palomar Avenue	Analyst	FJS
Segment:	Joshua Lane to Joshua Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	5,080
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	239	8	19	104	3	8	155	5	12
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-8.5	-23.3	-19.6	-12.1	-26.9	-23.2	-10.4	-25.2	-21.5
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	58.0	50.9	58.8	54.4	47.3	55.2	56.1	49.0	56.9
VEHICULAR NOISE	DAY=	61.8	Leq	EVENING=	58.2	Leq	NIGHT=	59.9	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.6**
			CNEL=	**66.7**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**59**	**127**	**274**
	CNEL:	**61**	**130**	**281**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Paxton Drive	Analyst	FJS
Segment:	State Route 247 to Balsa Ave	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	8,810
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	414	14	32	180	6	14	270	9	21
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-5.2	-19.9	-16.3	-8.8	-23.6	-19.9	-7.0	-21.8	-18.1
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	57.6	51.8	60.3	54.0	48.2	56.7	55.7	49.9	58.4
VEHICULAR NOISE	DAY=	62.5	Leq	EVENING=	58.9	Leq	NIGHT=	60.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**67.3**
			CNEL=	**67.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**66**	**143**	**307**
	CNEL:	**68**	**146**	**315**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Pinon Drive	Analyst	FJS
Segment:	State Route 62 to Canyon Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,990
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	140	5	11	61	2	5	91	3	7
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-9.9	-24.6	-20.9	-13.5	-28.2	-24.6	-11.7	-26.5	-22.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	52.9	47.1	55.6	49.3	43.5	52.0	51.0	45.2	53.7
VEHICULAR NOISE	DAY=	57.8	Leq	EVENING=	54.2	Leq	NIGHT=	56.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**62.6**
			CNEL=	**62.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**32**	**69**	**149**
	CNEL:	**33**	**71**	**153**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Pioneertown Road	Analyst	FJS
Segment:	State Route 62 to Sunnyslope Dr	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	9,120
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	428	14	33	186	6	14	279	9	22
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-6.0	-20.8	-17.1	-9.6	-24.4	-20.7	-7.8	-22.6	-18.9
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	60.5	53.4	61.3	56.9	49.8	57.7	58.7	51.6	59.5
VEHICULAR NOISE	DAY=	64.3	Leq	EVENING=	60.7	Leq	NIGHT=	62.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**69.1**
			CNEL=	**69.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**87**	**188**	**404**
	CNEL:	**89**	**193**	**415**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Pioneertown Road	Analyst	FJS
Segment:	Sunnyslope Dr to Town Limits	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	2,670
SPEED (mph)	50
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	125	4	10	54	2	4	82	3	6
Speed in MPH	50	50	50	50	50	50	50	50	50
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	71.1	78.8	83.0	71.1	78.8	83.0	71.1	78.8	83.0
ADJUSTMENTS									
Flow	-11.3	-26.1	-22.4	-14.9	-29.7	-26.0	-13.2	-27.9	-24.3
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.2	48.1	56.0	51.6	44.5	52.4	53.3	46.2	54.1
VEHICULAR NOISE	DAY=	59.0	Leq	EVENING=	55.4	Leq	NIGHT=	57.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.8**
			CNEL=	**63.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**38**	**83**	**178**
	CNEL:	**39**	**85**	**183**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Pueblo Trail	Analyst	FJS
Segment:	Hanford Avenue to Balsa Ave	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	450
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	21	1	2	9	0	1	14	0	1
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-18.1	-32.8	-29.2	-21.7	-36.5	-32.8	-19.9	-34.7	-31.0
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	44.7	38.9	47.4	41.1	35.2	43.8	42.8	37.0	45.5
VEHICULAR NOISE	DAY=	49.6	Leq	EVENING=	46.0	Leq	NIGHT=	47.8	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**54.4**
			CNEL=	**54.6**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**9**	**20**	**42**
	CNEL:	**9**	**20**	**43**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Sage Avenue	Analyst	FJS
Segment:	W/ Yucca Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	7,480
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	351	12	27	153	5	12	229	8	18
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-5.9	-20.6	-17.0	-9.5	-24.3	-20.6	-7.7	-22.5	-18.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	56.9	51.1	59.6	53.3	47.4	56.0	55.0	49.2	57.7
VEHICULAR NOISE	DAY=	61.8	Leq	EVENING=	58.2	Leq	NIGHT=	60.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.6**
			CNEL=	**66.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**59**	**128**	**275**
	CNEL:	**61**	**131**	**283**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Sage Avenue	Analyst	FJS
Segment:	N/ Onaga Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	7,720
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	362	12	28	157	5	12	236	8	18
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-5.7	-20.5	-16.8	-9.4	-24.1	-20.4	-7.6	-22.4	-18.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	57.0	51.2	59.7	53.4	47.6	56.1	55.2	49.3	57.9
VEHICULAR NOISE	DAY=	62.0	Leq	EVENING=	58.3	Leq	NIGHT=	60.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**66.7**
			CNEL=	**66.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**61**	**131**	**281**
	CNEL:	**62**	**134**	**289**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Sage Avenue	Analyst	FJS
Segment:	N/ State Route 62	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	6,020
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	283	9	22	123	4	10	184	6	14
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-6.8	-21.6	-17.9	-10.4	-25.2	-21.5	-8.7	-23.4	-19.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	55.9	50.1	58.6	52.3	46.5	55.0	54.1	48.3	56.8
VEHICULAR NOISE	DAY=	60.9	Leq	EVENING=	57.3	Leq	NIGHT=	59.0	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**65.7**
			CNEL=	**65.8**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**51**	**111**	**238**
	CNEL:	**53**	**113**	**245**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Santa Fe Trail	Analyst	FJS
Segment:	Hopi Trail toCherokee Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	4,290
SPEED (mph)	35
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	201	7	16	88	3	7	131	4	10
Speed in MPH	35	35	35	35	35	35	35	35	35
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	65.1	74.8	80.0	65.1	74.8	80.0	65.1	74.8	80.0
ADJUSTMENTS									
Flow	-7.7	-22.5	-18.8	-11.3	-26.1	-22.4	-9.6	-24.3	-20.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	52.8	47.7	56.6	49.2	44.1	53.0	50.9	45.9	54.8
VEHICULAR NOISE	DAY=	58.5	Leq	EVENING=	54.9	Leq	NIGHT=	56.7	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.3**
			CNEL=	**63.5**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**36**	**77**	**166**
	CNEL:	**37**	**79**	**170**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Santa Fe Trail	Analyst	FJS
Segment:	Kickapoo Trail to Hopi Trail	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	1,660
SPEED (mph)	35
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	78	3	6	34	1	3	51	2	4
Speed in MPH	35	35	35	35	35	35	35	35	35
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	65.1	74.8	80.0	65.1	74.8	80.0	65.1	74.8	80.0
ADJUSTMENTS									
Flow	-11.8	-26.6	-22.9	-15.4	-30.2	-26.5	-13.7	-28.5	-24.8
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	48.7	43.6	52.5	45.1	40.0	48.9	46.8	41.8	50.7
VEHICULAR NOISE	DAY=	54.4	Leq	EVENING=	50.8	Leq	NIGHT=	52.5	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**59.2**
			CNEL=	**59.3**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**19**	**41**	**88**
	CNEL:	**19**	**42**	**90**

FHWA RD-77-108 NOISE PREDICTION MODEL

Scenario:	2035 Count	Project:	Yucca Valley
Roadway:	Skyline Ranch Road	Analyst	FJS
Segment:	Grand Ave to State Route 247	Date:	16-Jul-13

ROADWAY INPUTS	
ADT	3,880
SPEED (mph)	40
ROAD NEAR-FAR LN. DIST.	12
DISTANCE ROAD CL (ft)	100
SOFT/HARD CONDITIONS	Soft
GRADE (%)	0%
LEFT VIEW	-90
RIGHT VIEW	90

VEHICLE MIX INPUTS			
DAILY		HOURLY	
% A	90.0%	DAY	62.6%
% MT	3.0%	EVENING	6.8%
% HT	7.0%	NIGHT	30.6%

CALCULATION AREA									
	DAYTIME			EVENING			NIGHT		
	AUTOS	MT	HT	AUTOS	MT	HT	AUTOS	MT	HT
Vehicles per hour	182	6	14	79	3	6	119	4	9
Speed in MPH	40	40	40	40	40	40	40	40	40
Left angle	-90	-90	-90	-90	-90	-90	-90	-90	-90
Right angle	90	90	90	90	90	90	90	90	90
Reference levels (dBA)	67.4	76.3	81.2	67.4	76.3	81.2	67.4	76.3	81.2
ADJUSTMENTS									
Flow	-8.7	-23.5	-19.8	-12.3	-27.1	-23.4	-10.6	-25.4	-21.7
Distance	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6	-4.6
Finite Roadway	0	0	0	0	0	0	0	0	0
Barrier	0	0	0	0	0	0	0	0	0
Grade	0	0	0	0	0	0	0	0	0
LEQ	54.0	48.2	56.7	50.4	44.6	53.1	52.2	46.4	54.9
VEHICULAR NOISE	DAY=	59.0	Leq	EVENING=	55.4	Leq	NIGHT=	57.1	Leq

RESULTS				
NOISE LEVELS AT 100 FEET FROM CENTERLINE (dBA):			**Ldn=**	**63.8**
			CNEL=	**63.9**
NOISE CONTOUR:		*70 dBA*	*65 dBA*	*60 dBA*
ROAD CENTERLINE DISTANCE TO NOISE CONTOUR (FEET):	**Ldn:**	**38**	**83**	**178**
	CNEL:	**39**	**85**	**182**