

Appendix J
Noise Modeling



Appendices

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Site 1

SLM 1

Recorder 2

Site	Date	Time	Duration	Leq	SEL	Lmax	Lmin	Peak	Uwpk	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
1	11-May	8:59:30	60	71.8	89.6	80.3	59.3	93.2	101.1	79.4	75.9	74.2	73	70	60.9
1	11-May	9:00:30	60	70.4	88.2	76.8	60.8	91.4	95.9	76.6	74.9	73.2	72	67.9	62.9
1	11-May	9:01:30	60	67.8	85.6	73.5	55.8	96.4	98	72.9	71.3	70.5	69.8	67.2	56.4
1	11-May	9:02:30	60	68.5	86.3	74.9	58.6	92.9	99.2	74	72.6	71.6	71	65.7	60
1	11-May	9:03:30	60	67.8	85.6	77.6	57	91.6	97.4	76.3	72.3	70.7	69.2	59.8	57.5
1	11-May	9:04:30	60	71	88.8	75.4	63.1	89.9	95.1	75.3	74.5	73.8	73.2	69.1	65.3
1	11-May	9:05:30	60	70	87.8	75.4	59.5	88.8	95.1	75.2	73.6	72.7	71.7	69.2	61.1
1	11-May	9:06:30	60	72.1	89.8	79.2	60.5	92.6	99.2	78.3	76.8	75.2	73.4	69.4	63.8
1	11-May	9:07:30	60	70.7	88.5	77.9	62	90.5	100.2	77.3	75.6	73.1	71.2	68.7	63
1	11-May	9:08:30	60	68.6	86.4	74.2	58	87.5	97.4	74.1	72.2	71.1	70.1	67.5	61.7
1	11-May	9:09:30	60	71	88.8	75.5	57.9	90.5	95.1	75.5	74.4	73.2	72.3	70.8	58.8
1	11-May	9:10:30	60	69.3	87.1	75.5	59.8	91.8	99.7	74.2	72.8	72.1	71.2	67.8	60.9
1	11-May	9:11:30	60	69.7	87.5	76.4	59.9	93.4	95.9	76.2	75.1	72.1	71	66.6	61.8
1	11-May	9:12:30	60	68.3	86.1	75.1	57.1	88.8	96.7	74.7	72.9	71.5	70.2	65.3	57.5
1	11-May	9:13:30	60	69.9	87.6	77.6	57.9	91	97.4	77	74.3	73.2	71	67.7	59.3
1	11-May	9:14:30	60	68.6	86.3	74.5	61.8	91.6	98.6	74.1	72.5	71.4	70	66.6	63.4
1	11-May	9:15:30	60	70.2	88	81	59	96.4	99.2	78.2	72.9	71.7	70.3	68.7	61.7
1	11-May	9:16:30	60	67.8	85.5	73.5	59.2	92.2	95.9	73.1	71.8	70.3	69.1	65.7	60.9
1	11-May	9:17:30	60	68.8	86.6	74.7	56.3	93.1	95.9	74	73	72	71	67.5	56.6
1	11-May	9:18:30	20	69.2	82.2	74.1	62.6	89.9	95.9	74	73.2	71.8	70.3	68	63.3
				69.5		79.2	55.8			75.5	73.8	72.3	71.0	67.6	61.4

Description: Sound Level Meter 1 was placed on the northwest corner of the T-intersection of Warner Avenue and the commercial entranceway approximately 45 feet from centerline of Warner Avenue. The primary noise sources were the vehicles traveling along Warner Avenue. Secondary noise came from traffic along Grand Avenue. Other noise sources were from the general machinery operation from the various light industrial uses in the area. Based on counts taken during the noise monitoring session, there were approximately 263 vehicle passbys during the monitoring period. In the eastbound direction the 137 trips consisted of approximately 130 LDV, 4 MDT, 1 HDT, 1 Bus, and 1 Motorcycle. In the westbound direction, the 126 trips consisted of approximately 120 LDV, 5 MDT, and 1 Bus. Average speed for eastbound speed was 52 miles per hour. Average speed for westbound direction was 47 miles per hour.

Site 2

SLM 1

Recorder 2

Site	Date	Time	Duration	Leq	SEL	Lmax	Lmin	Peak	Uwpk	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
2	11-May	8:15:39	60	81.7	99.5	96	63.8	112.4	119	94.1	84.8	74.7	73.4	71.2	66.9
2	11-May	8:16:39	60	73.7	91.4	79.5	65.1	91.5	97.4	78	76	75.3	74.7	73.4	67.9
2	11-May	8:17:39	60	70.7	88.4	78.5	61.8	91.8	101.1	77.9	74.1	72.5	71.7	68.6	64.3
2	11-May	8:18:39	60	71.4	89.2	78	55.8	91.8	95.9	77.3	76.1	74.4	71.9	69.6	60.2
2	11-May	8:19:39	60	69.1	86.9	75.4	54.7	89.5	94.2	74.3	71.9	71.3	70.7	68.8	59.3
2	11-May	8:20:39	60	71.6	89.4	77.4	55.3	91.7	98	76.7	75.3	74.5	73.8	70.7	58
2	11-May	8:21:39	60	68.6	86.4	74.9	57.1	89.9	96.7	74.5	72.2	70.6	69.4	67.4	63.9
2	11-May	8:22:39	60	71.6	89.4	77.6	62.4	92	98.6	77.4	75.2	74.2	73.2	70.3	64.2
2	11-May	8:23:39	60	69.3	87	76.5	61.5	90.9	97.4	74.4	73	71.4	69.9	68.3	64.3
2	11-May	8:24:39	60	72.2	90	77.3	48.7	95.4	97.4	77.3	76.5	75.8	75	70.4	49.7
2	11-May	8:25:39	60	70.6	88.4	75.2	57.7	88.4	100.2	75.2	74.7	74.2	73.5	67.8	60.9
2	11-May	8:26:39	60	72.9	90.6	77.5	55.5	92.9	102.3	77.5	76.5	75.5	74.7	72.5	58.6
2	11-May	8:27:39	60	72.9	90.7	83.2	58.2	98.9	109.6	80.4	76.6	75.3	73.6	70.7	64.8
2	11-May	8:28:39	60	69.4	87.2	78.7	56.8	95.9	95.9	77.6	74.4	72.7	70.5	64.4	57.7
2	11-May	8:29:39	60	72.8	90.6	79.2	60.3	91.4	102.7	78.8	77.6	76	74.4	69.7	61.8
2	11-May	8:30:39	60	70.8	88.6	77.3	58.6	91.6	100	76.9	74.9	73.5	71.9	69	60.8
2	11-May	8:31:39	60	69.9	87.6	75.6	59.6	95.1	98	75.5	74.5	73.3	71.5	67.4	61.6
2	11-May	8:32:39	60	69.6	87.4	79.1	56.9	93.3	100.2	78	73.4	71.5	70.1	67.3	59
2	11-May	8:33:39	60	74.2	91.9	80.7	62.2	91.8	106.3	78.8	77.2	76.5	75.9	73.6	66.1
2	11-May	8:34:39	21.5	68.7	82	74.3	56.8	88.1	92	74.3	73.5	71.9	70.7	66.2	57.8
				71.1		83.2	48.7			77.0	74.9	73.8	72.7	69.6	62.5

Description: Sound Level Meter 1 was placed on the southwest corner of the T-intersection of Warner Avenue and Evergreen Street approximately 35 feet from centerline of Warner Avenue. The primary noise sources were the vehicles traveling along Warner Avenue. Based on counts taken during the noise monitoring session, there were approximately 363 vehicle passbys during the monitoring period. In the eastbound direction the 244 trips consisted of approximately 235 LDV, 8 MDT, and 1 HDT. In the westbound direction, the 119 trips consisted of approximately 110 LDV, 7 MDT, and 2 Buses. Average speed for eastbound speed was 34 miles per hour. Average speed for westbound direction was 38 miles per hour.

Site 3

SLM 1

Recorder 2

Site	Date	Time	Duration	Leq	SEL	Lmax	Lmin	Peak	Uwpk	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
3	11-May	7:38:20	60	67.2	85	74.4	52.6	88.8	95.1	74	71.9	69.1	68	66	53.6
3	11-May	7:39:20	60	74.6	92.4	80.5	64.4	94.1	99.2	79.7	78.3	76.8	75.8	73.9	68.2
3	11-May	7:40:20	60	68	85.7	75.5	53.3	91.4	94.2	74.6	72.8	71.4	69.5	65.5	57
3	11-May	7:41:20	60	74	91.7	79.4	58.8	92.6	101.1	78.9	77.9	76.7	75.7	73.3	63.4
3	11-May	7:42:20	60	69.2	87	77.5	53.2	90.7	101.1	76.2	74.6	73	70.3	64.7	55.8
3	11-May	7:43:20	60	74.9	92.7	80.7	53.5	94.2	100.5	79.9	78.8	78	77.4	74.1	60.5
3	11-May	7:44:20	60	71.6	89.4	78.1	56.6	92.4	97.4	77.4	76.1	74.8	73.1	70.2	57.6
3	11-May	7:45:20	60	74.4	92.2	81.2	65.7	96.9	98	80.6	78.3	77.2	76	71.9	67
3	11-May	7:46:20	60	73.5	91.3	81.4	57.3	95.4	105.5	79.2	77.3	76.1	74.9	72.5	64.7
3	11-May	7:47:20	60	72.1	89.9	80.1	56.7	93	98	79.5	77.5	74.7	73.1	68.3	58.8
3	11-May	7:48:20	60	74.8	92.6	82.2	64.2	97.4	102.3	81	78.3	76.7	75.8	74.1	66
3	11-May	7:49:20	60	67	84.7	75.3	52.2	91.4	95.1	74.8	72.3	69.4	68	62	54.3
3	11-May	7:50:20	60	76.1	93.9	80.2	68.1	93.7	106	79.3	78	77.6	77.1	76	73.2
3	11-May	7:51:20	60	69	86.8	76.7	55.2	90.3	93.2	76.4	73.7	71.9	70	65.9	57.1
3	11-May	7:52:20	60	74.1	91.9	79.7	66.2	92.2	99.2	78.9	77.7	76.5	75.6	72.8	68.1
3	11-May	7:53:20	35.8	71.8	87.3	76.7	65	90.8	94.2	76.7	75.6	73.6	72.5	70.8	67.6
				72.8		82.2	52.2			78.4	76.7	75.3	74.3	71.6	65.4

Description: Sound Level Meter 1 was placed on the south side of Warner Avenue between Kilson Drive and Hickory Street approximately 40 feet from centerline of Warner Avenue. The primary noise sources were the vehicles traveling along Warner Avenue. Based on counts taken during the noise monitoring session, there were approximately 429 vehicle passbys during the monitoring period. In the eastbound direction the 246 trips consisted of approximately 240 LDV, 5 MDT, and 1 HDT. In the westbound direction, the 183 trips consisted of approximately 175 LDV, 7 MDT, and 1 Bus. Average speed for eastbound speed was 36 miles per hour. Average speed for westbound direction was 42 miles per hour.

Site 4

SLM 1

Recorder 2

Site	Date	Time	Duration	Leq	SEL	Lmax	Lmin	Peak	Uwpk	L(2)	L(8)	L(16)	L(25)	L(50)	L(90)
4	11-May	6:57:12	60	70.1	87.9	74.4	60	87.1	98	74.3	73.3	72.6	71.9	69.7	63.1
4	11-May	6:58:12	60	70.3	88.1	77.4	58.4	91.1	97.4	77	74.8	73.3	72.2	67.9	60.3
4	11-May	6:59:12	60	67.8	85.6	72.9	59	86.6	93.2	72.8	72.4	71.8	71.2	64.4	60.1
4	11-May	7:00:12	60	69.5	87.2	74.5	58.2	89.3	95.9	73.9	73.2	72.3	71.4	68.8	59.6
4	11-May	7:01:12	60	67.3	85.1	75.2	59.4	87.7	97	73.4	72.1	69.1	68.2	65.7	61
4	11-May	7:02:12	60	70.1	87.8	74.6	58.7	89.3	94.2	74.5	73.5	72.7	72	69.4	61.9
4	11-May	7:03:12	60	68.8	86.6	78.2	58.7	93.7	100.2	77.2	72	71.2	70.2	66.1	59.7
4	11-May	7:04:12	60	69.8	87.6	75.5	63.2	93	98.6	73.6	72.7	72.1	71.3	69.2	65.2
4	11-May	7:05:12	60	71.3	89.1	79.4	58.4	94	105.2	77.9	75.5	73.7	72.3	69.5	61
4	11-May	7:06:12	60	67	84.7	72.4	58	86.8	94.2	72.2	71.5	70.4	68.4	64.7	58.8
4	11-May	7:07:12	60	70.2	88	77.7	61.7	92.6	104.3	76.3	74.4	72.6	70.8	68.5	63.7
4	11-May	7:08:12	60	69.6	87.4	74.5	57.5	87.8	99.2	74	72.9	71.7	71	69.2	59.2
4	11-May	7:09:12	60	70.6	88.4	76.1	58.6	90.2	97.4	75.2	74.5	73.8	73	69.4	59.9
4	11-May	7:10:12	60	73.6	91.4	81.2	66.6	93.7	104.9	80.5	77.4	75.9	74.9	70.6	67.6
4	11-May	7:11:12	60	72.5	90.2	79.5	61.6	92.1	105.5	78.6	75.2	74.5	73.8	71.5	66.2
4	11-May	7:12:12	60	69	86.8	76.5	59	90.9	97.4	75.7	74.2	72.5	69.9	64.9	61.3
4	11-May	7:13:12	60	69.8	87.6	76.5	59.8	90.7	99.2	75.8	74.7	73.3	70.5	67.7	60.8
4	11-May	7:14:12	60	68.4	86.2	74.6	54.6	87.8	95.9	74.3	71.8	71.3	70.6	66.5	55
4	11-May	7:15:12	60	72.9	90.7	80.8	59	92.9	102	79.8	76.1	74.7	73.7	71.9	64.2
4	11-May	7:16:12	54.5	65.9	83.3	71.3	57.1	84.8	93.2	71.3	69.9	68.6	66.9	64.8	59.4
				69.9		81.2	57.5			76.0	73.8	72.5	71.4	68.2	62.5

Description: Sound Level Meter 1 was placed on the northwest corner of the T-intersection of Warner Avenue and Cypress Avenue approximately 35 feet from centerline of Warner Avenue. The primary noise sources were the vehicles traveling along Warner Avenue. Other sources of noise was traffic on Main Street and vehicles on Cypress Avenue. Based on counts taken during the noise monitoring session, there were approximately 359 vehicle passbys during the monitoring period. In the eastbound direction the 210 trips consisted of approximately 200 LDV, 7 MDT, 2 Buses, and 1 Motorcycle. In the westbound direction, the 150 trips consisted of approximately 135 LDV, 14 MDT, and 1 HDT. Average speed for

EXISTING CONDITONS

2241 Cypress	2	1	0	60.7	66	60.7	10 ----	60.7	0	8	-8
2239 Cypress"	3	1	0	59.1	66	59.1	10 ----	59.1	0	8	-8
2238 Orange Av"	4	1	0	59.6	66	59.6	10 ----	59.6	0	8	-8
2242 Orange Av"	5	1	0	60.6	66	60.6	10 ----	60.6	0	8	-8
2241 Orange Av"	6	1	0	61.6	66	61.6	10 ----	61.6	0	8	-8
2241 Orange Av"	8	1	0	60	66	60	10 ----	60	0	8	-8
2242 Maple St"	10	1	0	60.7	66	60.7	10 ----	60.7	0	8	-8
2243 Maple St"	12	1	0	61.4	66	61.4	10 ----	61.4	0	8	-8
2243 Rousselle"	14	1	0	62.8	66	62.8	10 ----	62.8	0	8	-8
2242 Oak Street"	15	1	0	63	66	63	10 ----	63	0	8	-8
2241 Oak Street"	16	1	0	61.8	66	61.8	10 ----	61.8	0	8	-8
2242 Kilson Street"	17	1	0	61.9	66	61.9	10 ----	61.9	0	8	-8
2237 Kilson Street"	19	1	0	54.8	66	54.8	10 ----	54.8	0	8	-8
2238 Hickory Street"	20	1	0	55.6	66	55.6	10 ----	55.6	0	8	-8
2241 Hickory Street"	21	1	0	61.8	66	61.8	10 ----	61.8	0	8	-8
2238 Halladay Street"	22	1	0	55.6	66	55.6	10 ----	55.6	0	8	-8
2237 Halladay St."	24	1	0	53.9	66	53.9	10 ----	53.9	0	8	-8
2242 Cedar St."	25	1	0	60.8	66	60.8	10 ----	60.8	0	8	-8
2243 Cedar Street"	26	1	0	57.1	66	57.1	10 ----	57.1	0	8	-8
2242 Evergreen St"	27	1	0	56.4	66	56.4	10 ----	56.4	0	8	-8
2243 Evergreen"	28	1	0	55.9	66	55.9	10 ----	55.9	0	8	-8
2242 Standard Av"	29	1	0	56.9	66	56.9	10 ----	56.9	0	8	-8
302 Warner Av"	31	1	0	69.3	66	69.3	10 Snd Lvl	69.3	0	8	-8
230 Warner Av"	32	1	0	69.6	66	69.6	10 Snd Lvl	69.6	0	8	-8
2305 Maple"	33	1	0	64.6	66	64.6	10 ----	64.6	0	8	-8
Monroe School fields'	35	1	0	55.2	66	55.2	10 ----	55.2	0	8	-8
Delhi Park"	36	1	0	64.3	66	64.3	10 ----	64.3	0	8	-8
2305 Halladay"	37	1	0	66.3	66	66.3	10 Snd Lvl	66.3	0	8	-8
1002 Warner Av"	38	1	0	68.6	66	68.6	10 Snd Lvl	68.6	0	8	-8
1016 Warner Av"	39	1	0	69.1	66	69.1	10 Snd Lvl	69.1	0	8	-8
1106 Warner Av"	40	1	0	71.4	66	71.4	10 Snd Lvl	71.4	0	8	-8
2301 Warner"	42	1	0	62.9	66	62.9	10 ----	62.9	0	8	-8
2301 Evergren St"	43	1	0	56	66	56	10 ----	56	0	8	-8
Monitoring Site 1"	45	1	0	69.2	66	69.2	10 Snd Lvl	69.2	0	8	-8
Monitoring Site 2"	47	1	0	69.8	66	69.8	10 Snd Lvl	69.8	0	8	-8
Monitoring Site 3"	48	1	0	70.3	66	70.3	10 Snd Lvl	70.3	0	8	-8
2238 Cypress"	50	1	0	55.9	66	55.9	10 ----	55.9	0	8	-8

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2241 Cypre	2	1	0	60.9	66	60.9	10 ----	60.9
2239 Cypre	3	1	0	59.4	66	59.4	10 ----	59.4
2238 Oranç	4	1	0	59.9	66	59.9	10 ----	59.9
2242 Oranç	5	1	0	60.8	66	60.8	10 ----	60.8
2241 Oranç	6	1	0	61.9	66	61.9	10 ----	61.9
2241 Oranç	8	1	0	60.3	66	60.3	10 ----	60.3
2242 Maplı	10	1	0	60.9	66	60.9	10 ----	60.9
2243 Maplı	12	1	0	61.6	66	61.6	10 ----	61.6
2243 Rouss	14	1	0	63.1	66	63.1	10 ----	63.1
2242 Oak S	15	1	0	63.2	66	63.2	10 ----	63.2
2241 Oak S	16	1	0	61.4	66	61.4	10 ----	61.4
2242 Kilsor	17	1	0	61.4	66	61.4	10 ----	61.4
2237 Kilsor	19	1	0	55.1	66	55.1	10 ----	55.1
2238 Hicko	20	1	0	55.8	66	55.8	10 ----	55.8
2241 Hicko	21	1	0	62	66	62	10 ----	62
2238 Hallar	22	1	0	55.8	66	55.8	10 ----	55.8
2237 Hallar	24	1	0	54.5	66	54.5	10 ----	54.5
2242 Cedar	25	1	0	61.6	66	61.6	10 ----	61.6
2243 Cedar	26	1	0	57.9	66	57.9	10 ----	57.9
2242 Everg	27	1	0	57	66	57	10 ----	57
2243 Everg	28	1	0	57.1	66	57.1	10 ----	57.1
2242 Stand	29	1	0	58.1	66	58.1	10 ----	58.1
302 Warne	31	1	0	69.4	66	69.4	10 Snd Lvl	69.4
230 Warne	32	1	0	69.8	66	69.8	10 Snd Lvl	69.8
2305 Maplı	33	1	0	64.8	66	64.8	10 ----	64.8
Monroe Sc Delhi Park"	35	1	0	55.5	66	55.5	10 ----	55.5
2305 Hallar	36	1	0	64.7	66	64.7	10 ----	64.7
2305 Hallar	37	1	0	67.3	66	67.3	10 Snd Lvl	67.3
1002 Warn	38	1	0	69.8	66	69.8	10 Snd Lvl	69.8
1016 Warn	39	1	0	70.3	66	70.3	10 Snd Lvl	70.3
1106 Warn	40	1	0	72.7	66	72.7	10 Snd Lvl	72.7
2301 Warn	42	1	0	64.2	66	64.2	10 ----	64.2
2301 Everg	43	1	0	57	66	57	10 ----	57
Monitoring	45	1	0	70.5	66	70.5	10 Snd Lvl	70.5
Monitoring	47	1	0	71.1	66	71.1	10 Snd Lvl	71.1
Monitoring	48	1	0	70.5	66	70.5	10 Snd Lvl	70.5
2238 Cypre	50	1	0	56.2	66	56.2	10 ----	56.2

0	8	-8
0	8	-8
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0	8	-8

2035 WITH PROJECT CONDITIONS

2241 Cypre	2241 Cypre	2	1	0	63.8	66	63.8	10 ----	63.8	0	8	-8
2239 Cypre	2239 Cypre	3	1	0	59.7	66	59.7	10 ----	59.7	0	8	-8
2238 Oranç	2238 Oranç	4	1	0	60.2	66	60.2	10 ----	60.2	0	8	-8
2242 Oranç	2242 Oranç	5	1	0	64.2	66	64.2	10 ----	64.2	0	8	-8
2241 Oranç	2241 Oranç	6	1	0	66.6	66	66.6	10 Snd Lvl	66.6	0	8	-8
2241 Oranç	2241 Oranç	8	1	0	62	66	62	10 ----	62	0	8	-8
2242 Maplı	2242 Maplı	10	1	0	64.5	66	64.5	10 ----	64.5	0	8	-8
2243 Maplı	2243 Maplı	12	1	0	66.2	66	66.2	10 Snd Lvl	66.2	0	8	-8
2243 Rousç	2243 Rousç	14	1	0	66.6	66	66.6	10 Snd Lvl	66.6	0	8	-8
2242 Oak S	2242 Oak S	15	1	0	66.6	66	66.6	10 Snd Lvl	66.6	0	8	-8
2241 Oak S	2241 Oak S	16	1	0	64.8	66	64.8	10 ----	64.8	0	8	-8
2242 Kilsor	2242 Kilsor	17	1	0	64.8	66	64.8	10 ----	64.8	0	8	-8
2237 Kilsor	2237 Kilsor	19	1	0	56.2	66	56.2	10 ----	56.2	0	8	-8
2238 Hicko	2238 Hicko	20	1	0	56.2	66	56.2	10 ----	56.2	0	8	-8
2241 Hicko	2241 Hicko	21	1	0	66.7	66	66.7	10 Snd Lvl	66.7	0	8	-8
2238 Hallaç	2238 Hallaç	22	1	0	57	66	57	10 ----	57	0	8	-8
2237 Hallaç	2237 Hallaç	24	1	0	56.5	66	56.5	10 ----	56.5	0	8	-8
2242 Cedarı	2242 Cedarı	25	1	0	67.5	66	67.5	10 Snd Lvl	67.5	0	8	-8
2243 Cedarı	2243 Cedarı	26	1	0	61.3	66	61.3	10 ----	61.3	0	8	-8
2242 Everg	2242 Everg	27	1	0	61.5	66	61.5	10 ----	61.5	0	8	-8
2243 Everg	2243 Everg	28	1	0	61.7	66	61.7	10 ----	61.7	0	8	-8
2242 Stand	2242 Stand	29	1	0	61.8	66	61.8	10 ----	61.8	0	8	-8
302 Warne	302 Warne	31	1	0	67.8	66	67.8	10 Snd Lvl	67.8	0	8	-8
230 Warne	230 Warne	32	1	0	68.9	66	68.9	10 Snd Lvl	68.9	0	8	-8
2305 Maplı	2305 Maplı	33	1	0	63.4	66	63.4	10 ----	63.4	0	8	-8
Monroe Sc	Monroe Sc	35	1	0	53.4	66	53.4	10 ----	53.4	0	8	-8
Delhi Park"	Delhi Park"	36	1	0	63.6	66	63.6	10 ----	63.6	0	8	-8
2305 Hallaç	2305 Hallaç	37	1	0	66.5	66	66.5	10 Snd Lvl	66.5	0	8	-8
1002 Warn	1002 Warn	38	1	0	68.8	66	68.8	10 Snd Lvl	68.8	0	8	-8
1016 Warn	1016 Warn	39	1	0	69.2	66	69.2	10 Snd Lvl	69.2	0	8	-8
1106 Warn	1106 Warn	40	1	0	71.1	66	71.1	10 Snd Lvl	71.1	0	8	-8
2301 Warn	2301 Warn	42	1	0	63.2	66	63.2	10 ----	63.2	0	8	-8
2301 Everg	2301 Everg	43	1	0	57.6	66	57.6	10 ----	57.6	0	8	-8
Monitoring	Monitoring	45	1	0	70.4	66	70.4	10 Snd Lvl	70.4	0	8	-8
Monitoring	Monitoring	47	1	0	69.7	66	69.7	10 Snd Lvl	69.7	0	8	-8
Monitoring	Monitoring	48	1	0	69	66	69	10 Snd Lvl	69	0	8	-8
2238 Cypre	2238 Cypre	50	1	0	59.3	66	59.3	10 ----	59.3	0	8	-8

OHE Removal_10.txt
 Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E_OHE Removal

**** Receptor #2 ****

Descri pti on	Land Use	Dayti me	Basel i nes (dBA)	
			Eveni ng	Ni ght
OHE Removal	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment		Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80. 6	10. 0	0. 0
Crane	No	16		80. 6	10. 0	0. 0
Man Li ft	No	20		74. 7	10. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Ni ght	Day	Cal cul ated (dBA)			Day Ni ght		Eveni ng	
		Lmax	Leq	Eveni ng	Lmax	Leq	Lmax	Leq
Crane			94. 5	86. 6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane			94. 5	86. 6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Li ft			88. 7	81. 7	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	94. 5	90. 2	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OHE Removal_100.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/05/2013
 Case Description: SNT-08.3E_OHE Removal

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
OHE Removal	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	100.0	0.0
Crane	No	16		80.6	100.0	0.0
Man Lift	No	20		74.7	100.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Night		Evening	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane				74.5	66.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane				74.5	66.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift				68.7	61.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total		74.5	70.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OHE Removal_200.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/05/2013
 Case Description: SNT-08.3E_OHE Removal

***** Receptor #2 *****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
OHE Removal	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	200.0	0.0
Crane	No	16		80.6	200.0	0.0
Man Lift	No	20		74.7	200.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Night		Evening	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane				68.5	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane				68.5	60.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift				62.7	55.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total		68.5	64.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OHE Removal_25.txt
 Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E_OHE Removal

**** Receptor #2 ****

Descri pti on	Land Use	Dayti me	Basel i nes (dBA)	
			Eveni ng	Ni ght
OHE Removal	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment		Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80. 6	25. 0	0. 0
Crane	No	16		80. 6	25. 0	0. 0
Man Li ft	No	20		74. 7	25. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Ni ght	Day	Cal cul ated (dBA)			Day Ni ght		Eveni ng	
		Lmax	Leq	Eveni ng	Lmax	Leq	Lmax	Leq
Crane			86. 6	78. 6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane			86. 6	78. 6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Li ft			80. 7	73. 7	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	86. 6	82. 3	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OHE Removal_400.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/05/2013
 Case Description: SNT-08.3E_OHE Removal

***** Receptor #2 *****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
OHE Removal	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	400.0	0.0
Crane	No	16		80.6	400.0	0.0
Man Lift	No	20		74.7	400.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)			Day		Night		Evening	
		Lmax	Leq	Evening	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane			62.5	54.5	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane			62.5	54.5	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift			56.6	49.6	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	62.5	58.2	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OHE Removal_50.txt
 Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E_OHE Removal

**** Receptor #2 ****

Descri pti on	Land Use	Dayti me	Basel i nes (dBA)	
			Eveni ng	Ni ght
OHE Removal	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment		Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80. 6	50. 0	0. 0
Crane	No	16		80. 6	50. 0	0. 0
Man Li ft	No	20		74. 7	50. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Ni ght	Day	Cal cul ated (dBA)			Day Ni ght		Eveni ng	
		Lmax	Leq	Leq	Lmax	Leq	Lmax	Leq
Crane			80. 6	72. 6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane			80. 6	72. 6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Li ft			74. 7	67. 7	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		80. 6	76. 3	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

OHE Removal_650.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/05/2013
 Case Description: SNT-08.3E_OHE Removal

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
OHE Removal	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	650.0	0.0
Crane	No	16		80.6	650.0	0.0
Man Lift	No	20		74.7	650.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Night		Evening	
			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane				58.3	50.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Crane				58.3	50.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Man Lift				52.4	45.4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total		58.3	54.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 03/05/2013
 Case Description: SNT-08.3E

***** Receptor #1 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
ROW Demolition	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	10.0	0.0
Backhoe	No	40		77.6	10.0	0.0
Front End Loader	No	40		79.1	10.0	0.0
Dump Truck	No	40		76.5	10.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Calculated (dBA)				Day		Night		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	91.5	87.6	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	91.5	87.6	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	93.1	89.1	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck	N/A	N/A	90.4	86.5	N/A	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	93.1	93.8	N/A	N/A	N/A	N/A	N/A	N/A

ROW Demo_100. txt
 Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E

**** Receptor #1 ****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
ROW Demol i ti on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Backhoe	No	40		77. 6	100. 0	0. 0
Backhoe	No	40		77. 6	100. 0	0. 0
Front End Loader	No	40		79. 1	100. 0	0. 0
Dump Truck	No	40		76. 5	100. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Equi pment	Ni ght	Day	Cal cul ated (dBA)			Day Ni ght	Eveni ng
			Lmax	Leq	Eveni ng		
Backhoe							
N/A	N/A	N/A	71. 5	67. 6	N/A	N/A	N/A
Backhoe							
N/A	N/A	N/A	71. 5	67. 6	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader							
N/A	N/A	N/A	73. 1	69. 1	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck							
N/A	N/A	N/A	70. 4	66. 5	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	73. 1	73. 8	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 03/05/2013
 Case Description: SNT-08.3E

***** Receptor #1 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
ROW Demolition	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	200.0	0.0
Backhoe	No	40		77.6	200.0	0.0
Front End Loader	No	40		79.1	200.0	0.0
Dump Truck	No	40		76.5	200.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Calculated (dBA)					Day		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	65.5	61.5	N/A	N/A	N/A	N/A	
Backhoe	N/A	N/A	65.5	61.5	N/A	N/A	N/A	N/A	
Front End Loader	N/A	N/A	67.1	63.1	N/A	N/A	N/A	N/A	
Dump Truck	N/A	N/A	64.4	60.4	N/A	N/A	N/A	N/A	
Total			67.1	67.8	N/A	N/A	N/A	N/A	

ROW Demo_25.txt
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/05/2013
Case Description: SNT-08.3E

***** Receptor #1 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
ROW Demolition	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	25.0	0.0
Backhoe	No	40		77.6	25.0	0.0
Front End Loader	No	40		79.1	25.0	0.0
Dump Truck	No	40		76.5	25.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Calculated (dBA)				Day Night		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe	N/A	N/A	83.6	79.6	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	83.6	79.6	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	85.1	81.2	N/A	N/A	N/A	N/A
Dump Truck	N/A	N/A	82.5	78.5	N/A	N/A	N/A	N/A
Total			85.1	85.8				

ROW Demo_400. txt
Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/05/2013
Case Descri pti on: SNT-08. 3E

**** Receptor #1 ****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
ROW Demol i ti on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Backhoe	No	40		77. 6	400. 0	0. 0
Backhoe	No	40		77. 6	400. 0	0. 0
Front End Loader	No	40		79. 1	400. 0	0. 0
Dump Truck	No	40		76. 5	400. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Equi pment	Cal cul ated (dBA)					Day Ni ght		Eveni ng	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	59. 5	55. 5	N/A	N/A	N/A	N/A	N/A
Backhoe	N/A	N/A	59. 5	55. 5	N/A	N/A	N/A	N/A	N/A
Front End Loader	N/A	N/A	61. 0	57. 1	N/A	N/A	N/A	N/A	N/A
Dump Truck	N/A	N/A	58. 4	54. 4	N/A	N/A	N/A	N/A	N/A
Total			61. 0	61. 8	N/A	N/A	N/A	N/A	N/A

Report date: 03/05/2013
 Case Description: SNT-08.3E

***** Receptor #1 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
ROW Demolition	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Front End Loader	No	40		79.1	50.0	0.0
Dump Truck	No	40		76.5	50.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Calculated (dBA)					Day		Evening	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	77.6	73.6	N/A	N/A	N/A	N/A	
Backhoe	N/A	N/A	77.6	73.6	N/A	N/A	N/A	N/A	
Front End Loader	N/A	N/A	79.1	75.1	N/A	N/A	N/A	N/A	
Dump Truck	N/A	N/A	76.5	72.5	N/A	N/A	N/A	N/A	
Total			79.1	79.8	N/A	N/A	N/A	N/A	

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E

**** Receptor #1 ****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
ROW Demol i ti on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Backhoe	No	40		77. 6	650. 0	0. 0
Backhoe	No	40		77. 6	650. 0	0. 0
Front End Loader	No	40		79. 1	650. 0	0. 0
Dump Truck	No	40		76. 5	650. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Equi pment	Cal cul ated (dBA)					Day Ni ght		Eveni ng	
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	55. 3	51. 3	N/A	N/A	N/A	N/A	
Backhoe	N/A	N/A	55. 3	51. 3	N/A	N/A	N/A	N/A	
Front End Loader	N/A	N/A	56. 8	52. 9	N/A	N/A	N/A	N/A	
Dump Truck	N/A	N/A	54. 2	50. 2	N/A	N/A	N/A	N/A	
Total			56. 8	57. 5	N/A	N/A	N/A	N/A	

RW_Demo_10.txt
 Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E_RW Demo

**** Receptor #3 ****

Descri pti on	Land Use	Dayti me	Basel ines (dBA)	
			Eveni ng	Ni ght
Roadway-Demo	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Hydra Break Ram	Yes	10	90. 0		10. 0	0. 0
Dump Truck	No	40		76. 5	10. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Descri pti on	Equi pment	Day	Cal cul ated (dBA)			Day		Eveni ng	
			Eveni ng	Ni ght	Ni ght	Eveni ng	Eveni ng		
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Hydra Break Ram	N/A	N/A	104. 0	94. 0	N/A	N/A	N/A	N/A	
Dump Truck	N/A	N/A	90. 4	86. 5	N/A	N/A	N/A	N/A	
		Total	104. 0	94. 7	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	

Report date: 03/05/2013
 Case Description: SNT-08.3E_RW Demo

***** Receptor #3 *****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Roadway-Demo	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Hydra Break Ram	Yes	10	90.0		100.0	0.0
Dump Truck	No	40		76.5	100.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day		Evening	
			Evening	Night	Night	Evening		
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Hydra Break Ram	N/A	N/A	84.0	74.0	N/A	N/A	N/A	N/A
Dump Truck	N/A	N/A	70.4	66.5	N/A	N/A	N/A	N/A
		Total	84.0	74.7	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A	N/A

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E_RW Demo

**** Receptor #3 ****

Descri pti on	Land Use	Dayti me	Basel ines (dBA)	
			Eveni ng	Ni ght
Roadway-Demo	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Hydra Break Ram	Yes	10	90. 0		200. 0	0. 0
Dump Truck	No	40		76. 5	200. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Descri pti on	Equi pment	Day	Cal cul ated (dBA)		Day		Eveni ng	
			Eveni ng	Ni ght	Ni ght	Eveni ng		
	Lmax Leq	Lmax Leq	Lmax Leq	Lmax Leq	Lmax Leq	Lmax Leq	Lmax Leq	
Hydra Break Ram	N/A N/A	N/A	78. 0 N/A	68. 0 N/A	N/A N/A	N/A N/A	N/A N/A	
Dump Truck	N/A N/A	N/A	64. 4 N/A	60. 4 N/A	N/A N/A	N/A N/A	N/A N/A	
		Total	78. 0	68. 7	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	

RW_Demo_25.txt
 Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E_RW Demo

***** Receptor #3 *****

Descri pti on	Land Use	Dayti me	Basel i nes (dBA)	
			Eveni ng	Ni ght
Roadway-Demo	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Hydra Break Ram	Yes	10	90. 0		25. 0	0. 0
Dump Truck	No	40		76. 5	25. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Descri pti on	Equi pment	Day	Cal cul ated (dBA)			Day		Eveni ng	
			Eveni ng	Ni ght	Ni ght	Eveni ng	Eveni ng		
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Hydra Break Ram	N/A	N/A	96. 0	86. 0	N/A	N/A	N/A	N/A	
Dump Truck	N/A	N/A	82. 5	78. 5	N/A	N/A	N/A	N/A	
		Total	96. 0	86. 7	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E_RW Demo

**** Receptor #3 ****

Descri pti on	Land Use	Dayti me	Basel i nes (dBA)	
			Eveni ng	Ni ght
Roadway-Demo	Resi denti al	70. 0	65. 0	55. 0

Equi pment

Descri pti on	Impact Devi ce	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Dump Truck	No	40		76. 5	400. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Descri pti on	Equi pment	Day	Cal cul ated (dBA)			Day		Eveni ng	
			Eveni ng	Ni ght	Ni ght	Eveni ng	Eveni ng		
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Hydra Break Ram			71. 9	61. 9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck			58. 4	54. 4	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		71. 9	62. 6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 03/05/2013
 Case Descri pti on: SNT-08. 3E_RW Demo

**** Receptor #3 ****

Descri pti on	Land Use	Dayti me	Basel ines (dBA)	
			Eveni ng	Ni ght
Roadway-Demo	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment		Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Hydra Break Ram	Yes	10	90. 0		50. 0	0. 0
Dump Truck	No	40		76. 5	50. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Descri pti on	Equi pment	Day	Cal cul ated (dBA)			Day		Eveni ng	
			Eveni ng	Day	Ni ght	Eveni ng	Eveni ng		
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Hydra Break Ram	N/A	N/A	90. 0	80. 0	N/A	N/A	N/A	N/A	
Dump Truck	N/A	N/A	76. 5	72. 5	N/A	N/A	N/A	N/A	
		Total	90. 0	80. 7	N/A	N/A	N/A	N/A	
			N/A	N/A	N/A	N/A	N/A	N/A	

Report date: 03/05/2013
 Case Description: SNT-08.3E

***** Receptor #3 *****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Roadway-Demo	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Hydra Break Ram	Yes	10	90.0		650.0	0.0
Dump Truck	No	40		76.5	650.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)			Day		Evening	
			Evening	Night	Evening	Night	Evening	Night	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Hydra Break Ram	N/A	N/A	67.7	57.7	N/A	N/A	N/A	N/A	N/A
Dump Truck	N/A	N/A	54.2	50.2	N/A	N/A	N/A	N/A	N/A
		Total	67.7	58.4	N/A	N/A	N/A	N/A	N/A
			N/A	N/A	N/A	N/A	N/A	N/A	N/A

RW_Exc_10.txt
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/07/2013
Case Description: SNT-08.3E_RW Excavation

***** Receptor #4 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Excavation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	10.0	0.0
Backhoe	No	40		77.6	10.0	0.0
Front End Loader	No	40		79.1	10.0	0.0
Dump Truck	No	40		76.5	10.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day Night	Evening	Night
			Lmax	Leq			
Backhoe	N/A	N/A	91.5	87.6	N/A	N/A	N/A
Backhoe	N/A	N/A	91.5	87.6	N/A	N/A	N/A
Front End Loader	N/A	N/A	93.1	89.1	N/A	N/A	N/A
Dump Truck	N/A	N/A	90.4	86.5	N/A	N/A	N/A
Total	N/A	N/A	93.1	93.8	N/A	N/A	N/A

RW_Exc_100.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/07/2013
 Case Description: SNT-08.3E_RW Excavation

***** Receptor #4 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Excavation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	100.0	0.0
Backhoe	No	40		77.6	100.0	0.0
Front End Loader	No	40		79.1	100.0	0.0
Dump Truck	No	40		76.5	100.0	0.0

Results

		Noise Limit Exceedance (dBA)					Noise Limits (dBA)	
Night	Day	Calculated (dBA)			Day Night	Evening		
		Lmax	Leq	Lmax		Lmax	Leq	
Equipment Lmax	Equipment Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	
Backhoe	N/A	N/A	71.5	67.6	N/A	N/A	N/A	
Backhoe	N/A	N/A	71.5	67.6	N/A	N/A	N/A	
Front End Loader	N/A	N/A	73.1	69.1	N/A	N/A	N/A	
Dump Truck	N/A	N/A	70.4	66.5	N/A	N/A	N/A	
		Total	73.1	73.8	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

RW_Exc_200.txt
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/07/2013
Case Description: SNT-08.3E_RW Excavation

***** Receptor #4 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Excavation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	200.0	0.0
Backhoe	No	40		77.6	200.0	0.0
Front End Loader	No	40		79.1	200.0	0.0
Dump Truck	No	40		76.5	200.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)	
Night		Calculated (dBA)			Day Night		Evening				
Equipment		Day		Evening		Day Night		Evening			
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Backhoe			65.5	61.5		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			65.5	61.5		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			67.1	63.1		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck			64.4	60.4		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	67.1	67.8		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

RW_Exc_25.txt
 Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/07/2013
 Case Descri pti on: SNT-08. 3E_RW Excavati on

**** Receptor #4 ****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
Roadway-Excavati on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Backhoe	No	40		77. 6	25. 0	0. 0
Backhoe	No	40		77. 6	25. 0	0. 0
Front End Loader	No	40		79. 1	25. 0	0. 0
Dump Truck	No	40		76. 5	25. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA)

Noi se Li mi ts (dBA)

Ni ght	Day	Cal cul ated (dBA)			Day Ni ght	Eveni ng
		Lmax	Leq	Lmax		
Equi pment						
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Backhoe	N/A	N/A	83. 6	79. 6	N/A	N/A
Backhoe	N/A	N/A	83. 6	79. 6	N/A	N/A
Front End Loader	N/A	N/A	85. 1	81. 2	N/A	N/A
Dump Truck	N/A	N/A	82. 5	78. 5	N/A	N/A
		Total	85. 1	85. 8	N/A	N/A
			N/A	N/A	N/A	N/A

RW_Exc_400.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/07/2013
 Case Description: SNT-08.3E_RW Excavation

***** Receptor #4 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Excavation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	400.0	0.0
Backhoe	No	40		77.6	400.0	0.0
Front End Loader	No	40		79.1	400.0	0.0
Dump Truck	No	40		76.5	400.0	0.0

Results

Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Equipment	Night	Calculated (dBA)			Day		Evening		Night		
		Day	Evening	Night	Day	Night	Day	Night	Day	Night	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Backhoe			59.5	55.5		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			59.5	55.5		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Front End Loader			61.0	57.1		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dump Truck			58.4	54.4		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	61.0	61.8		N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

RW_Exc_50.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/07/2013
 Case Description: SNT-08.3E_RW Excavation

***** Receptor #4 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Excavation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Front End Loader	No	40		79.1	50.0	0.0
Dump Truck	No	40		76.5	50.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)	
Night		Calculated (dBA)			Day Night		Evening				
Equipment		Day		Evening		Day Night		Evening			
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Backhoe			77.6	73.6		N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Backhoe			77.6	73.6		N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Front End Loader			79.1	75.1		N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Dump Truck			76.5	72.5		N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
		Total	79.1	79.8		N/A	N/A	N/A	N/A		
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

RW_Exc_650.txt
 Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 03/07/2013
 Case Description: SNT-08.3E_RW Excavation

***** Receptor #4 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Excavation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Backhoe	No	40		77.6	650.0	0.0
Backhoe	No	40		77.6	650.0	0.0
Front End Loader	No	40		79.1	650.0	0.0
Dump Truck	No	40		76.5	650.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)	
Night		Calculated (dBA)			Day Night		Evening				
Equipment		Day		Evening		Day Night		Evening			
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq		
Backhoe			55.3	51.3		N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Backhoe			55.3	51.3		N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Front End Loader			56.8	52.9		N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
Dump Truck			54.2	50.2		N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A
		Total	56.8	57.5		N/A	N/A	N/A	N/A		N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		N/A

Report date: 03/07/2013
 Case Description: SNT-08.3E_RW Foundation

***** Receptor #5 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Foundation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	10.0	0.0
Roller	No	20		80.0	10.0	0.0
Roller	No	20		80.0	10.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day Night	Evening	
			Day	Evening			
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver			91.2	88.2	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			94.0	87.0	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller			94.0	87.0	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	94.0	92.2	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 03/07/2013
 Case Descri pti on: SNT-08. 3E_RW Foundati on

***** Receptor #5 *****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
Roadway-Foundati on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Spec Lmax (dBA)	Equi pment		
				Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Paver	No	50		77. 2	100. 0	0. 0
Ro l l er	No	20		80. 0	100. 0	0. 0
Ro l l er	No	20		80. 0	100. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Ni ght	Equi pment	Day	Cal cul ated (dBA)				Day Ni ght	Eveni ng
			Lmax	Leq	Lmax	Leq		
	Lmax	Lmax	Lmax	Leq	Lmax	Lmax	Lmax	Leq
	Leq		Leq	Lmax	Leq	Leq	Leq	
	Paver		71. 2	68. 2	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ro l l er		74. 0	67. 0	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Ro l l er		74. 0	67. 0	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	74. 0	72. 2	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

RW_Foundati on_Pavi ng_200. txt
 Roadway Constructi on Noi se Model (RCNM), Versi on 1. 1

Report date: 03/07/2013
 Case Descri pti on: SNT-08. 3E_RW Foundati on

***** Receptor #5 *****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
Roadway-Foundati on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Spec Lmax (dBA)	Equi pment		
				Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Paver	No	50		77. 2	200. 0	0. 0
Rol l er	No	20		80. 0	200. 0	0. 0
Rol l er	No	20		80. 0	200. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Ni ght	Equi pment	Day	Cal cul ated (dBA)				Day Ni ght	Eveni ng
			Lmax	Leq	Lmax	Leq		
	Lmax	Lmax	Lmax	Leq	Lmax	Lmax	Lmax	Leq
	Leq							
Paver			65. 2	62. 2	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rol l er			68. 0	61. 0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rol l er			68. 0	61. 0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	68. 0	66. 2	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 03/07/2013
 Case Description: SNT-08.3E_RW Foundation

***** Receptor #5 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Foundation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	25.0	0.0
Roller	No	20		80.0	25.0	0.0
Roller	No	20		80.0	25.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Night	Day	Calculated (dBA)		Day Night	Evening
			Lmax	Leq		
Paver						
N/A	N/A	N/A	83.2	80.2	N/A	N/A
Roller						
N/A	N/A	N/A	86.0	79.0	N/A	N/A
Roller						
N/A	N/A	N/A	86.0	79.0	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	86.0	84.2	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 03/07/2013
 Case Descri pti on: SNT-08. 3E_RW Foundati on

***** Receptor #5 *****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
Roadway-Foundati on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Spec Lmax (dBA)	Equi pment		
				Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Paver	No	50		77. 2	400. 0	0. 0
Rol l er	No	20		80. 0	400. 0	0. 0
Rol l er	No	20		80. 0	400. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Descri pti on	Impact Devi ce	Usage (%)	Cal cul ated (dBA)							
			Day	Eveni ng	Day Ni ght	Eveni ng				
Equi pment			Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	N/A	N/A	N/A	59. 2	56. 1	N/A	N/A	N/A	N/A	N/A
Rol l er	N/A	N/A	N/A	61. 9	54. 9	N/A	N/A	N/A	N/A	N/A
Rol l er	N/A	N/A	N/A	61. 9	54. 9	N/A	N/A	N/A	N/A	N/A
Total				61. 9	60. 2				N/A	N/A

Report date: 03/07/2013
 Case Description: SNT-08.3E_RW Foundation

***** Receptor #5 *****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Roadway-Foundation	Residential	70.0	65.0	55.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Equipment		
				Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Paver	No	50		77.2	50.0	0.0
Roller	No	20		80.0	50.0	0.0
Roller	No	20		80.0	50.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Calculated (dBA)				Day		Night		Evening				
	Day	Evening	Day	Night	Day	Night	Day	Night	Day	Night			
Equipment		Lmax		Leq		Lmax		Leq		Lmax		Leq	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	N/A	N/A	77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	N/A	N/A	80.0	73.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	N/A	N/A	80.0	73.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		N/A	80.0	78.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Report date: 03/07/2013
 Case Descri pti on: SNT-08. 3E_RW Foundati on

**** Receptor #1 ****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
ROW Demol i ti on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Paver	No	50		77. 2	75. 0	0. 0
Rol l er	No	20		80. 0	75. 0	0. 0
Rol l er	No	20		80. 0	75. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Ni ght	Day	Cal cul ated (dBA)				Day Ni ght	Eveni ng
		Day		Eveni ng			
Equi pment Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver			73. 7	70. 7		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rol l er			76. 5	69. 5		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rol l er			76. 5	69. 5		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	76. 5	74. 7		N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
OHE Removal	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Paver	No	50		77. 2	25. 0	0. 0
Rol l er	No	20		80. 0	25. 0	0. 0
Rol l er	No	20		80. 0	25. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA)

Ni ght		Cal cul ated (dBA)				Day		Eveni ng	
		Day		Eveni ng		Ni ght			
Equi pment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver			83.2	80.2		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ro l l er			86.0	79.0		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ro l l er			86.0	79.0		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	86.0	84.2		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #3 ****

Descri pti on	Land Use	Dayti me	Basel i nes (dBA)	
			Eveni ng	Ni ght
Roadway-Demo	Resi denti al	70.0	65.0	55.0

Descri pti on	I mpact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Paver	No	50		77.2	50.0	0.0
Ro l l er	No	20		80.0	50.0	0.0
Ro l l er	No	20		80.0	650.0	0.0

Resul ts

Noi se Li mi t Exceedance (dBA)

Ni ght		Cal cul ated (dBA)				Day		Eveni ng	
		Day		Eveni ng		Ni ght			
Equi pment		Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver			77.2	74.2		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ro l l er			80.0	73.0		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ro l l er			57.7	50.7		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	80.0	76.7		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #4 ****

RW_Foundati on_Pavi ng_650. txt

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
Roadway-Excavati on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Paver	No	50		77. 2	650. 0	0. 0
Rol l er	No	20		80. 0	650. 0	0. 0
Rol l er	No	20		80. 0	650. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

Ni ght	Day	Cal cul ated (dBA)				Day Ni ght	Eveni ng
		Day		Eveni ng			
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	N/A	N/A	54. 9	51. 9	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rol l er	N/A	N/A	57. 7	50. 7	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Rol l er	N/A	N/A	57. 7	50. 7	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		N/A	57. 7	55. 9	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #5 ****

Descri pti on	Land Use	Basel i nes (dBA)		
		Dayti me	Eveni ng	Ni ght
Roadway-Foundati on	Resi denti al	70. 0	65. 0	55. 0

Descri pti on	Impact Devi ce	Usage (%)	Equi pment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Di stance (feet)	Esti mated Shi el di ng (dBA)
Paver	No	50		77. 2	650. 0	0. 0
Rol l er	No	20		80. 0	650. 0	0. 0
Rol l er	No	20		80. 0	650. 0	0. 0

Resul ts

Noi se Li mi t Exceedance (dBA) Noi se Li mi ts (dBA)

RW_Foundati on_Pavi ng_650. txt

Ni ght		Cal cul ated (dBA)						Eveni ng	
		Day			Ni ght				
Equi pment		Lmax	Lmax	Leq	Leq	Lmax	Leq	Lmax	Leq
Lmax	Leq								
Paver			54.9	51.9		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ro l l er			57.7	50.7		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Ro l l er			57.7	50.7		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	57.7	55.9		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A