

# Noise Analysis

## Anoka County State Aid Highway 17 Noise Analysis

Receptor Location	2009 Existing	(1) 2030 No Build	Diff. Btwn Exist & 2030 NB	(2) 2030 Build	Diff. Btwn Exist & 2030 Bld
	L <sub>10</sub> (dBA)	L <sub>10</sub> (dBA)	(dBA)	L <sub>10</sub> (dBA)	(dBA)
R1-Commercial	65	67	2	69	4
R2	60	62	2	63	3
R3	57	58	1	60	3
R4	56	57	1	59	3
R5	60	61	1	63	3
R6	56	57	1	59	3
R7	68	70	2	74	6
R8	66	67	1	70	4
R9	57	58	1	59	2
R10	71	72	1	76	5
R11	70	71	1	74	4
R12	56	59	3	60	4
R13	61	61	0	64	3
R14-Commercial	66	66	0	72	6
R15	64	65	1	* 70	6
R16	61	61	0	* 65	4
R17	64	65	1	* 70	6
R18	61	61	0	* 64	3
R19	64	65	1	* 69	5
R20	61	61	0	* 64	3
R21	64	65	1	* 69	5
R22	60	61	1	* 64	4
R23	51	52	1	54	3
R24	62	63	1	* 66	4
R25	59	60	1	* 62	3
R26	55	56	1	58	3
R27	63	65	2	* 67	4
R28	60	61	1	* 63	3
R29	55	56	1	59	4
R30	63	65	2	* 67	4
R31	60	61	1	* 63	3
R32	53	55	2	56	3
R33	64	64	0	* 67	3
R34	60	60	0	* 63	3
R35	63	63	0	* 66	3
R36	60	60	0	* 62	2
R37	63	63	0	* 65	2
R38	60	60	0	* 61	2
R39	65	66	1	71	5
R40	66	67	1	71	5
R41	62	63	1	65	3
R42	65	67	2	68	3
R43	68	70	2	72	4
R44	65	66	1	68	3
R45	65	67	2	68	3
R46	60	61	1	63	3
R47	65	66	1	67	2
R48	66	66	0	67	1
R49	67	67	0	68	1
R50	66	67	1	67	1
R51	67	68	1	68	1
R52	66	67	1	67	1
R53	64	65	1	65	1
R54	65	65	0	66	1
R55	63	64	1	64	1
R56	64	65	1	66	2
R57	61	63	2	65	4
R58	61	62	1	64	3
R59	60	61	1	63	3
R60	65	66	1	69	4
R61	65	67	2	69	4
R62	65	68	3	70	5
R63	63	64	1	67	4
R64	55	56	1	57	2
R65	64	65	1	67	3
R66	57	58	1	60	3
R67	60	60	0	62	2
R68	62	62	0	64	2
R69	61	61	0	62	1
Federal Residential Criteria	70	70	5	70	5
Federal Commercial Criteria	75	75	5	75	5

**Bold Numbers** approach or exceed Federal Noise Abatement Criteria

## Anoka County State Aid Highway 17 Noise Calibration

Existing Noise Levels and Model Calibration						
Location		Date	Time	L <sub>10</sub> (dBA) Monitored	L <sub>10</sub> (dBA) Modeled	Difference
R40	Parcel 2	5/27/2009	16:29:52	65.3	65.7	-0.4
R52	Parcel 14	5/28/2009	16:29:35	66.4	66.4	0
R62	Parcel 57	5/28/2009	17:00:30	64.6	65.3	-0.7

Table Created October 4, 2009 - Revised Oct. 30, 2009

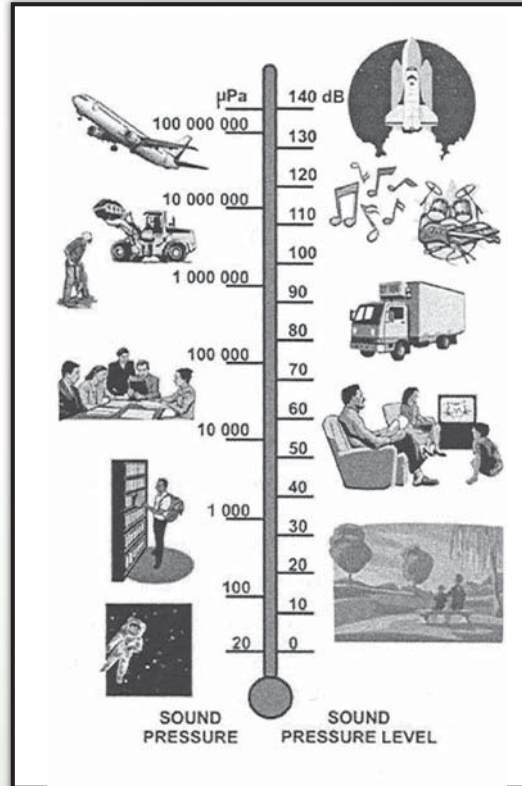


Table Created October 11, 2009

Revised November 3, 2009, Revised December 6, 2009

(1) 2030 No Build Model Includes Speeds from Simulated Traffic Analysis.

2030 No Build Peak Noise Hour is: 3:00-4:00pm

(2) 2030 Build Model Includes Speeds from Simulated Traffic Analysis.

\* - Undeveloped Land, Federal NAC not Applicable



### County Highway 17 (Lexington Avenue)

Transportation Improvements

from 125 th Avenue to Bunker Lake Boulevard  
Blaine and Ham Lake, Minnesota

