

Roadway Noise Analysis

**Existing**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %						VEHICLE SPEED						NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center	Receptor Dist. from Roadway Center (m.)	Adjusted Noise Level (dBA)	Distance from Roadway to 65 dBA (m.)	Distance from Roadway to 65 dBA (ft)
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT	Auto	MT	HT								
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT	25	40	25	40	25	40	55.2	49.9	54.6	roadway center	Center (m.)	(dBA)	(m.)	(ft)
MLK 10th 11th	330	97	320.1	2	6.6	1	3.3	25	40	25	40	25	40	55.2	49.9	54.6	58.5	10	60.3	3.4	11.1
MLK 11th 12th	326	97	316.22	2	6.52	1	3.26	25	40	25	40	25	40	55.1	49.9	54.5	58.5	10	60.2	3.3	11.0
MLK 12th 14th	363	97	352.11	2	7.26	1	3.63	25	40	25	40	25	40	55.6	50.4	55.0	58.9	10	60.7	3.7	12.2
11th Castro MLK	590	95	560.5	3	17.7	2	11.8	30	48	30	48	30	48	59.9	55.5	60.8	64.0	10	65.8	12.0	39.5
12th MLK Castro	750	95	712.5	3	22.5	2	15	30	48	30	48	30	48	60.9	56.5	61.9	65.1	10	66.8	15.3	50.2

**Existing + Project**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %						VEHICLE SPEED						NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center	Receptor Dist. from Roadway Center (m.)	Adjusted Noise Level (dBA)	Distance from Roadway to 65 dBA (m.)	Distance from Roadway to 65 dBA (ft)
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT	Auto	MT	HT								
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT	25	40	25	40	25	40	55.9	50.7	55.4	roadway center	Center (m.)	(dBA)	(m.)	(ft)
MLK 11th 11th	395	97	383.15	2	7.9	1	3.95	25	40	25	40	25	40	55.9	50.7	55.4	59.3	10	61.1	4.1	13.3
MLK 11th 12th	501	97	485.97	2	10.02	1	5.01	25	40	25	40	25	40	57.0	51.8	56.4	60.3	10	62.1	5.1	16.9
MLK 12th 14th	399	97	387.03	2	7.98	1	3.99	25	40	25	40	25	40	56.0	50.8	55.4	59.4	10	61.1	4.1	13.4
11th Castro MLK	638	95	606.1	3	19.14	2	12.76	30	48	30	48	30	48	60.2	55.8	61.2	64.4	10	66.1	13.0	42.7
12th MLK Castro	948	95	900.6	3	28.44	2	18.96	30	48	30	48	30	48	61.9	57.5	62.9	66.1	10	67.9	19.3	63.4

**2040 Base**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %						VEHICLE SPEED						NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center	Receptor Dist. from Roadway Center (m.)	Adjusted Noise Level (dBA)	Distance from Roadway to 65 dBA (m.)	Distance from Roadway to 65 dBA (ft)
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT	Auto	MT	HT								
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT	25	40	25	40	25	40	57.6	52.4	57.0	roadway center	Center (m.)	(dBA)	(m.)	(ft)
MLK 11th 11th	580	97	562.6	2	11.6	1	5.8	25	40	25	40	25	40	57.6	52.4	57.0	61.0	10	62.7	6.0	19.5
MLK 11th 12th	590	97	572.3	2	11.8	1	5.9	25	40	25	40	25	40	57.7	52.5	57.1	61.1	10	62.8	6.1	19.9
MLK 12th 14th	640	97	620.8	2	12.8	1	6.4	25	40	25	40	25	40	58.0	52.8	57.5	61.4	10	63.2	6.6	21.5
11th Castro MLK	720	95	684	3	21.6	2	14.4	30	48	30	48	30	48	60.7	56.3	61.7	64.9	10	66.7	14.7	48.2
12th MLK Castro	1010	95	959.5	3	30.3	2	20.2	30	48	30	48	30	48	62.2	57.8	63.2	66.4	10	68.1	20.6	67.6

**2040 Base + Project**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %						VEHICLE SPEED						NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center	Receptor Dist. from Roadway Center (m.)	Adjusted Noise Level (dBA)	Distance from Roadway to 65 dBA (m.)	Distance from Roadway to 65 dBA (ft)
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT	Auto	MT	HT								
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT	25	40	25	40	25	40	58.1	52.9	57.5	roadway center	Center (m.)	(dBA)	(m.)	(ft)
MLK 10th 11th	648	97	628.56	2	12.96	1	6.48	25	40	25	40	25	40	58.1	52.9	57.5	61.5	10	63.2	6.6	21.8
MLK 11th 12th	765	97	742.05	2	15.3	1	7.65	25	40	25	40	25	40	58.8	53.6	58.2	62.2	10	63.9	7.8	25.8
MLK 12th 14th	676	97	655.72	2	13.52	1	6.76	25	40	25	40	25	40	58.3	53.1	57.7	61.7	10	63.4	6.9	22.8
11th Castro MLK	768	95	729.6	3	23.04	2	15.36	30	48	30	48	30	48	61.0	56.6	62.0	65.2	10	66.9	15.7	51.4
12th MLK Castro	1208	95	1147.6	3	36.24	2	24.16	30	48	30	48	30	48	63.0	58.6	64.0	67.2	10	68.9	24.6	80.9