
APPENDIX G

NOISE DATA

OFF-SITE TRAFFIC NOISE LEVELS (Weekday)

Project Name: Laguna Beach Village Entrance Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Analysis Scenario(s): Existing (2009), Future (2015) Without Project, and Future (2015) With Project Traffic Volumes
 Source of Traffic Volumes: Kimley-Horn and Associates, Inc., February 2010
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor ¹	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour L_{eq} dB(A)	24-Hour CNEL dB(A)
Roadway Name	Roadway Segment									Medium Trucks	Heavy Trucks		

Existing (2009) Weekday Traffic Volumes

Laguna Canyon Road													
North of Forest Ave.		4	4	0	29,155	35	50	0	0	1.8%	0.7%	0.0	69.8
Broadway													
South of Forest Ave.		4	0	0	21,940	35	50	0	0	1.8%	0.7%	0.0	68.5
South of Cliff Dr.		3	0	0	16,630	35	50	0	0	1.8%	0.7%	0.0	67.1
South of Beach St. W.		3	0	0	13,350	35	50	0	0	1.8%	0.7%	0.0	66.1
South of Beach St. E.		3	0	0	11,275	35	50	0	0	1.8%	0.7%	0.0	65.4
Cliff Drive													
West of Broadway		2	0	0	4,965	25	50	0	0	1.8%	0.7%	0.0	58.7
Forest Avenue													
East of Broadway		2	0	0	12,945	25	50	0	0	1.8%	0.7%	0.0	62.9
East of Ocean Ave.		2	0	0	12,530	25	50	0	0	1.8%	0.7%	0.0	62.7
South of 3rd St.		2	0	0	5,685	25	50	0	0	1.8%	0.7%	0.0	59.3
3rd Street													
East of Forest Ave.		2	0	0	7,570	25	50	0	0	1.8%	0.7%	0.0	60.5

Future (2015) Without Project Weekday Traffic Volumes

Laguna Canyon Road													
North of Forest Ave.		4	4	0	31,325	35	50	0	0	1.8%	0.7%	0.0	70.1
Broadway													
South of Forest Ave.		4	0	0	23,630	35	50	0	0	1.8%	0.7%	0.0	68.8
South of Cliff Dr.		3	0	0	18,075	35	50	0	0	1.8%	0.7%	0.0	67.4
South of Beach St. W.		3	0	0	14,445	35	50	0	0	1.8%	0.7%	0.0	66.5
South of Beach St. E.		3	0	0	12,270	35	50	0	0	1.8%	0.7%	0.0	65.8
Cliff Drive													
West of Broadway		2	0	0	4,980	25	50	0	0	1.8%	0.7%	0.0	58.7
Forest Avenue													
East of Broadway		2	0	0	14,035	25	50	0	0	1.8%	0.7%	0.0	63.2
East of Ocean Ave.		2	0	0	13,535	25	50	0	0	1.8%	0.7%	0.0	63.1
South of 3rd St.		2	0	0	6,055	25	50	0	0	1.8%	0.7%	0.0	59.6
3rd Street													
East of Forest Ave.		2	0	0	8,230	25	50	0	0	1.8%	0.7%	0.0	60.9

Future (2015) With Project Weekday Traffic Volumes

Laguna Canyon Road													
North of Forest Ave.		4	4	0	31,935	35	50	0	0	1.8%	0.7%	0.0	70.2
Broadway													
South of Forest Ave.		4	0	0	24,170	35	50	0	0	1.8%	0.7%	0.0	68.9
South of Cliff Dr.		3	0	0	18,595	35	50	0	0	1.8%	0.7%	0.0	67.6
South of Beach St. W.		3	0	0	15,025	35	50	0	0	1.8%	0.7%	0.0	66.6
South of Beach St. E.		3	0	0	12,740	35	50	0	0	1.8%	0.7%	0.0	65.9
Cliff Drive													
West of Broadway		2	0	0	5,005	25	50	0	0	1.8%	0.7%	0.0	58.7
Forest Avenue													
East of Broadway		2	0	0	14,105	25	50	0	0	1.8%	0.7%	0.0	63.2
East of Ocean Ave.		2	0	0	13,610	25	50	0	0	1.8%	0.7%	0.0	63.1
South of 3rd St.		2	0	0	6,135	25	50	0	0	1.8%	0.7%	0.0	59.6
3rd Street													
East of Forest Ave.		2	0	0	8,250	25	50	0	0	1.8%	0.7%	0.0	60.9

¹ Distance is from the centerline of the roadway segment to the receptor location.

OFF-SITE TRAFFIC NOISE LEVELS (Weekend)

Project Name: Laguna Beach Village Entrance Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Analysis Scenario(s): Existing (2009), Future (2015) Without Project, and Future (2015) With Project Traffic Volumes
 Source of Traffic Volumes: Kimley-Horn and Associates, Inc., February 2010
 Community Noise Descriptor: L_{dn} : _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition		Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor'	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix		Peak Hour L_{dn} dB(A)	24-Hour CNEL dB(A)
Roadway Name	Roadway Segment									Medium Trucks	Heavy Trucks		

Existing (2009) Weekend Traffic Volumes

Laguna Canyon Road													
North of Forest Ave.		4	4	2,574	25,740	35	50	0	0	1.8%	0.7%	70.0	69.2
Broadway													
South of Forest Ave.		4	0	1,935	19,350	35	50	0	0	1.8%	0.7%	68.7	67.9
South of Cliff Dr.		3	0	1,747	17,470	35	50	0	0	1.8%	0.7%	68.1	67.3
South of Beach St. W.		3	0	1,779	17,790	35	50	0	0	1.8%	0.7%	68.1	67.4
South of Beach St. E.		3	0	1,471	14,710	35	50	0	0	1.8%	0.7%	67.3	66.5
Cliff Drive													
West of Broadway		2	0	443	4,430	25	50	0	0	1.8%	0.7%	59.0	58.2
Forest Avenue													
East of Broadway		2	0	1,113	11,130	25	50	0	0	1.8%	0.7%	63.0	62.2
East of Ocean Ave.		2	0	1,188	11,880	25	50	0	0	1.8%	0.7%	63.3	62.5
South of 3rd St.		2	0	519	5,190	25	50	0	0	1.8%	0.7%	59.7	58.9
3rd Street													
East of Forest Ave.		2	0	787	7,870	25	50	0	0	1.8%	0.7%	61.5	60.7

Future (2015) Without Project Weekend Traffic Volumes

Laguna Canyon Road													
North of Forest Ave.		4	4	2,785	27,850	35	50	0	0	1.8%	0.7%	70.3	69.6
Broadway													
South of Forest Ave.		4	0	2,107	21,070	35	50	0	0	1.8%	0.7%	69.0	68.3
South of Cliff Dr.		3	0	1,918	19,180	35	50	0	0	1.8%	0.7%	68.5	67.7
South of Beach St. W.		3	0	1,938	19,380	35	50	0	0	1.8%	0.7%	68.5	67.7
South of Beach St. E.		3	0	1,614	16,140	35	50	0	0	1.8%	0.7%	67.7	66.9
Cliff Drive													
West of Broadway		2	0	438	4,380	25	50	0	0	1.8%	0.7%	58.9	58.2
Forest Avenue													
East of Broadway		2	0	1,238	12,380	25	50	0	0	1.8%	0.7%	63.4	62.7
East of Ocean Ave.		2	0	1,313	13,130	25	50	0	0	1.8%	0.7%	63.7	62.9
South of 3rd St.		2	0	561	5,610	25	50	0	0	1.8%	0.7%	60.0	59.2
3rd Street													
East of Forest Ave.		2	0	881	8,810	25	50	0	0	1.8%	0.7%	62.0	61.2

Future (2015) With Project Weekend Traffic Volumes

Laguna Canyon Road													
North of Forest Ave.		4	4	2,847	28,470	35	50	0	0	1.8%	0.7%	70.4	69.7
Broadway													
South of Forest Ave.		4	0	2,161	21,610	35	50	0	0	1.8%	0.7%	69.1	68.4
South of Cliff Dr.		3	0	1,969	19,690	35	50	0	0	1.8%	0.7%	68.6	67.8
South of Beach St. W.		3	0	1,972	19,720	35	50	0	0	1.8%	0.7%	68.6	67.8
South of Beach St. E.		3	0	1,662	16,620	35	50	0	0	1.8%	0.7%	67.8	67.1
Cliff Drive													
West of Broadway		2	0	441	4,410	25	50	0	0	1.8%	0.7%	59.0	58.2
Forest Avenue													
East of Broadway		2	0	1,246	12,460	25	50	0	0	1.8%	0.7%	63.5	62.7
East of Ocean Ave.		2	0	1,320	13,200	25	50	0	0	1.8%	0.7%	63.7	62.9
South of 3rd St.		2	0	567	5,670	25	50	0	0	1.8%	0.7%	60.1	59.3
3rd Street													
East of Forest Ave.		2	0	881	8,810	25	50	0	0	1.8%	0.7%	62.0	61.2

¹ Distance is from the centerline of the roadway segment to the receptor location.