

APPENDIX I

NOISE DATA

ON-SITE TRAFFIC NOISE LEVELS

Project Name: Big Wave Wellness Center

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Analysis Scenario(s): Future Without Project
 Source of Traffic Volumes: Hexagon Traffic Study
 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		Land Use	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 dB(A) L _{dn}	24-Hour dB(A) CNEL
Roadway Name	Roadway Segment										Medium Trucks	Heavy Trucks		
Existing Conditions														
Airport Street														
	La Granada to Stanford	Residential	2	0	439	3,680	35	150	0	0	1.8%	0.7%	57.2	55.6
		Office	2	0	439	3,680	35	175	0	0	1.8%	0.7%	56.5	55.0

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

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Roadway Name	Land Use									Medium Trucks	Heavy Trucks		
Existing Conditions													
Cabrillo Highway (Hwy 1)													
Cypress to Capistrano N	Residential/Airport	2	0	1,303	11,930	50	50	0	0	1.8%	0.7%	70.6	69.5
Capistrano S to Cap N	Residential	2	0	1,306	11,585	50	50	0	0	1.8%	0.7%	70.6	69.3
North of Cypress Ave	Residential	2	0	1,305	12,105	50	50	0	0	1.8%	0.7%	70.6	69.5
South of Capistrano S	Residential/Commercial	2	0	1,474	12,920	50	50	0	0	1.8%	0.7%	71.1	69.8
Airport Street													
Los Banos to La Granada	Residential/Airport	2	0	129	1,075	35	50	0	0	1.8%	0.7%	56.6	55.1
La Granada to Stanford	Residential/Commercial	2	0	186	1,745	35	50	0	0	1.8%	0.7%	58.2	57.2
North of Los Banos	Residential	2	0	170	1,515	35	50	0	0	1.8%	0.7%	57.8	56.6

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Roadway Name	Land Use									Medium Trucks	Heavy Trucks		
Existing Conditions													
Cabrillo Highway (Hwy 1)													
Cypress to Capistrano N	Residential/Airport	2	0	1,585	14,460	50	50	0	0	1.8%	0.7%	71.5	70.3
Capistrano S to Cap N	Residential	2	0	1,621	14,680	50	50	0	0	1.8%	0.7%	71.6	70.4
North of Cypress Ave	Residential	2	0	1,652	15,405	50	50	0	0	1.8%	0.7%	71.6	70.6
South of Capistrano S	Residential/Commercial	2	0	2,049	17,820	50	50	0	0	1.8%	0.7%	72.6	71.2
Airport Street													
Los Banos to La Granada	Residential/Airport	2	0	281	2,600	35	50	0	0	1.8%	0.7%	60.0	58.9
La Granada to Stanford	Residential/Commercial	2	0	439	3,680	35	50	0	0	1.8%	0.7%	62.0	60.4
North of Los Banos	Residential	2	0	306	2,690	35	50	0	0	1.8%	0.7%	60.4	59.1

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Existing Conditions													
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Capistrano S to Cap N	Residential	2	0	1,621	14,680	50	50	0	0	1.8%	0.7%	71.6	70.4
North of Cypress Ave	Residential	2	0	1,566	14,525	50	50	0	0	1.8%	0.7%	71.4	70.3
South of Capistrano S	Residential/Commercial	2	0	1,948	16,780	50	50	0	0	1.8%	0.7%	72.4	71.0
Airport Street													
Los Banos to La Granada	Residential/Airport	2	0	165	1,385	35	50	0	0	1.8%	0.7%	57.7	56.2
La Granada to Stanford	Residential/Commercial	2	0	236	2,215	35	50	0	0	1.8%	0.7%	59.3	58.2
North of Los Banos	Residential	2	0	205	1,650	35	50	0	0	1.8%	0.7%	58.6	56.9

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Site 1: Corner near Stanford Ave and Airport St

Sunny, birds, sparse vehicular traffic, 3 airplanes overhead

Lmin: 49.2 dBA

Lmax: 83.3 dBA

Leq: 64.6 dBA

Run time: 15 min, 0 sec

Site 2: Near airport, along Airport Street

Sunny, sparse vehicular traffic, sprinklers

Lmin: 50.2 dBA

Lmax: 78.3 dBA

Leq: 61.9 dBA

Run time: 15 min, 0 sec

Site 3: Corner of Mobile Park and Airport Street

Sunny, sparse vehicular traffic, 2 overhead planes

Lmin: 54.1 dBA

Lmax: 86.7 dBA

Leq: 64.5 dBA

Run time: 15 min, 0 sec

Site 5: Corner of Barranca Lane and Codo Lane

Sunny, sparse vehicular traffic, dogs barking, birds

Lmin: 46.4 dBA

Lmax: 72.4 dBA

Leq: 57.1 dBA

Run time: 15 min, 0 sec

Site 4: Where Barranca Lane curves

Sunny, sparse vehicular traffic, dogs barking, birds

Lmin: 45.8 dBA

Lmax: 70.5 dBA

Leq: 57.4 dBA

Run time: 15 min, 0 sec