

## **APPENDIX G**

### Existing and Buildout Traffic Noise Calculations

**FHWA RD-77-108**  
**Traffic Noise Prediction Model**  
 Data Input Sheet

**Project Name :** Gaviota Coast  
**Project Number :** 7621  
**Modeled Condition :** Existing

**Surface Refelction:** CNEL  
**Assessment Metric:** Soft  
**Peak ratio to ADT:** 10.00  
**Traffic Desc. (Peak or ADT) :** ADT

Segment	Roadway	Segment From	To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
1	Highway 1	West of Highway 101		6600	65	50	89.00	5.00	6.00	77.00	10.00	13.00	
2	Highway 101	Hollister Avenue	El Capitan State Beach	31500	65	50	89.00	5.00	6.00	77.00	10.00	13.00	
3	Highway 101	El Capitan State Beach	Highway 1	30200	65	50	89.00	5.00	6.00	77.00	10.00	13.00	
4	Highway 101	Highway 1	Santa Rosa Road	23700	65	50	89.00	5.00	6.00	77.00	10.00	13.00	
5	Calle Real	East of Refugio Road		218	55	50	89.00	5.00	6.00	77.00	10.00	13.00	
6	Refugio Road	North of Calle Real		193	35	50	89.00	5.00	6.00	77.00	10.00	13.00	
7	Jalama Road	West of Highway 1		569	55	50	89.00	5.00	6.00	77.00	10.00	13.00	

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**FHWA RD-77-108**  
**Traffic Noise Prediction Model**  
 Predicted Noise Levels

**Project Name :** Gaviota Coast  
**Project Number :** 7621  
**Modeled Condition :** Existing  
**Assessment Metric:** Soft

Segment	Roadway	Segment From	To	Noise Levels, dBA Soft					Distance to Traffic Noise Level Contours, Feet				
				Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
1	Highway 1	West of Highway 101		70.0	63.7	67.9	73	35	76	163	351	757	1,630
2	Highway 101	Hollister Avenue	El Capitan State Beach	76.8	70.4	74.7	80	100	215	463	998	2,149	4,631
3	Highway 101	El Capitan State Beach	Highway 1	76.6	70.3	74.5	79	97	208	449	967	2,084	4,491
4	Highway 101	Highway 1	Santa Rosa Road	75.6	69.2	73.5	78	82	176	379	817	1,761	3,793
5	Calle Real	East of Refugio Road		53.1	47.7	52.4	56	3	6	13	29	62	134
6	Refugio Road	North of Calle Real		46.9	44.1	50.1	53	2	3	7	16	34	73
7	Jalama Road	West of Highway 1		57.3	51.9	56.6	61	5	12	25	55	118	254

**FHWA RD-77-108**  
**Traffic Noise Prediction Model**  
**Data Input Sheet**

**Project Name :** Gaviota Coast  
**Project Number :** 7621  
**Modeled Condition :** Buildout

**Surface Refelction:** CNEL  
**Assessment Metric:** Soft  
**Peak ratio to ADT:** 10.00  
**Traffic Desc. (Peak or ADT) :** ADT

Segment	Roadway	From	Segment To	Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	K-Factor
1	Highway 1	West of Highway 101		8378	65	50	89.00	5.00	6.00	77.00	10.00	13.00	
2	Highway 101	Hollister Avenue	El Capitan State Beach	39987	65	50	89.00	5.00	6.00	77.00	10.00	13.00	
3	Highway 101	El Capitan State Beach	Highway 1	38337	65	50	89.00	5.00	6.00	77.00	10.00	13.00	
4	Highway 101	Highway 1	Santa Rosa Road	30086	65	50	89.00	5.00	6.00	77.00	10.00	13.00	
5	Calle Real	East of Refugio Road		277	55	50	89.00	5.00	6.00	77.00	10.00	13.00	
6	Refugio Road	North of Calle Real		245	35	50	89.00	5.00	6.00	77.00	10.00	13.00	
7	Jalama Road	West of Highway 1		722	55	50	89.00	5.00	6.00	77.00	10.00	13.00	

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**FHWA RD-77-108**  
**Traffic Noise Prediction Model**  
**Predicted Noise Levels**

**Project Name :** Gaviota Coast  
**Project Number :** 7621  
**Modeled Condition :** Buildout  
**Assessment Metric:** Soft

Segment	Roadway	From	Segment To	Noise Levels, dBA Soft				Distance to Traffic Noise Level Contours, Feet					
				Auto	MT	HT	Total	75 dB	70 dB	65 dB	60 dB	55 dB	50 dB
1	Highway 1	West of Highway 101		71.1	64.7	69.0	74	41	88	190	410	882	1,901
2	Highway 101	Hollister Avenue	El Capitan State Beach	77.8	71.5	75.7	81	116	251	540	1,163	2,506	5,399
3	Highway 101	El Capitan State Beach	Highway 1	77.7	71.3	75.6	80	113	243	524	1,128	2,430	5,236
4	Highway 101	Highway 1	Santa Rosa Road	76.6	70.2	74.5	79	97	208	449	967	2,084	4,491
5	Calle Real	East of Refugio Road		54.2	48.8	53.5	58	3	7	16	34	73	158
6	Refugio Road	North of Calle Real		48.0	45.2	51.1	54	2	4	9	18	40	86
7	Jalama Road	West of Highway 1		58.3	52.9	57.6	62	6	14	30	64	138	297