

# **Appendix C**

## **Noise Data**

## TRAFFIC NOISE LEVELS AND NOISE CONTOURS

**Project Number:** 150693  
**Project Name:** El Camino Real Corridor Specific Plan  
**Scenario:** Existing

### Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: Ganddini (2018)  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
<b>El Camino Real</b>													
SR-85 to Bernardo Avenue	6	15	64,380	40	0.5	1.8%	0.7%	68.7	82	178	383	824	100
Bernardo Avenue to Hollenbeck Avenue	6	15	52,180	40	0.5	1.8%	0.7%	67.8	72	154	333	716	100
Hollenbeck Avenue to Fair Oaks Avenue	6	15	46,100	35	0.5	1.8%	0.7%	66.0	-	116	250	539	100
Fair Oaks Avenue to Lawrence Road	6	15	68,420	35	0.5	1.8%	0.7%	67.7	70	151	326	702	100
<b>South Bernardo Avenue</b>													
Evelyn Avenue to El Camino Real	2	0	8,350	30	0.5	1.8%	0.7%	57.1	-	-	64	138	100
El Camino Real to Remington Drive	2	0	8,580	30	0.5	1.8%	0.7%	57.2	-	-	65	140	100
<b>Mary Avenue</b>													
Evelyn Avenue to El Camino Real	4	0	21,510	35	0.5	1.8%	0.7%	62.3	-	66	142	306	100
El Camino Real to Remington Drive	2	15	23,640	35	0.5	1.8%	0.7%	62.6	-	70	150	323	100
<b>Hollenbeck Avenue</b>													
El Camino Real to Remington Drive	2	15	15,900	30	0.5	1.8%	0.7%	59.9	-	46	99	213	100
Remington Drive to Fremont Avenue	2	0	10,340	30	0.5	1.8%	0.7%	58.0	-	34	74	159	100
<b>Mathilda Avenue</b>													
Evelyn Avenue to El Camino Real	6	20	67,800	35	0.5	1.8%	0.7%	67.7	71	152	327	705	100
El Camino Real to Sunnyvale Saratoga Road	6	20	48,560	40	0.5	1.8%	0.7%	67.6	69	149	321	691	100
<b>Sunnyvale Saratoga Road</b>													
Mathilda Avenue to Remington Drive	6	24	60,440	40	0.5	1.8%	0.7%	68.6	81	174	375	807	100
Remington Drive to Fremont Avenue	6	24	83,560	40	0.5	1.8%	0.7%	70.0	100	216	465	1,002	100
<b>Sunnyvale Avenue</b>													
Evelyn Avenue to El Camino Real	2	15	13,310	30	0.5	1.8%	0.7%	59.2	-	41	88	189	100
<b>Remington Drive</b>													
West of Bernardo Avenue to Hollenbeck Avenue	2	15	9,940	30	0.5	1.8%	0.7%	57.9	-	-	72	156	100

Hollenbeck Avenue to El Camino Real	4	15	41,710	35	0.5	1.8%	0.7%	65.3	-	104	224	484	100
<b>Fair Oaks Avenue</b>													
El Camino Real to Evelyn Avenue	4	15	40,680	35	0.5	1.8%	0.7%	65.2	-	102	221	476	100
<b>Fremont Avenue</b>													
Hollenbeck Avenue to Wolfe Road	6	20	33,200	40	0.5	1.8%	0.7%	65.9	-	115	249	536	100
<b>Wolfe Road</b>													
Evelyn Avenue to El Camino Real	5	15	27,910	35	0.5	1.8%	0.7%	63.6	-	81	175	377	100
El Camino Real to Homestead Road	4	0	45,890	35	0.5	1.8%	0.7%	65.6	51	109	235	507	100

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.

"-" = contour is located within the roadway right-of-way.

## TRAFFIC NOISE LEVELS AND NOISE CONTOURS

**Project Number:** 150693  
**Project Name:** El Camino Real Corridor Specific Plan  
**Scenario:** Existing+Project

### Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: Ganddini (2018)  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	
<b>El Camino Real</b>													
SR-85 to Bernardo Avenue	6	15	88,150	40	0.5	1.8%	0.7%	70.1	102	219	472	1,016	100
Bernardo Avenue to Hollenbeck Avenue	6	15	74,530	40	0.5	1.8%	0.7%	69.4	91	196	422	909	100
Hollenbeck Avenue to Fair Oaks Avenue	6	15	66,730	35	0.5	1.8%	0.7%	67.6	69	149	320	690	100
Fair Oaks Avenue to Lawrence Road	6	15	80,350	35	0.5	1.8%	0.7%	68.4	78	168	363	781	100
<b>South Bernardo Avenue</b>													
Evelyn Avenue to El Camino Real	2	0	11,820	30	0.5	1.8%	0.7%	58.6	-	37	81	174	100
El Camino Real to Remington Drive	2	0	12,640	30	0.5	1.8%	0.7%	58.9	-	39	84	182	100
<b>Mary Avenue</b>													
Evelyn Avenue to El Camino Real	4	0	28,910	35	0.5	1.8%	0.7%	63.6	-	80	173	372	100
El Camino Real to Remington Drive	2	15	26,630	35	0.5	1.8%	0.7%	63.2	-	75	162	350	100
<b>Hollenbeck Avenue</b>													
El Camino Real to Remington Drive	2	15	20,870	30	0.5	1.8%	0.7%	61.1	-	55	119	256	100
Remington Drive to Fremont Avenue	2	0	14,550	30	0.5	1.8%	0.7%	59.5	-	43	93	199	100
<b>Mathilda Avenue</b>													
Evelyn Avenue to El Camino Real	6	20	77,190	35	0.5	1.8%	0.7%	68.3	77	166	357	769	100
El Camino Real to Sunnyvale Saratoga Road	6	20	60,210	40	0.5	1.8%	0.7%	68.5	80	172	370	797	100
<b>Sunnyvale Saratoga Road</b>													
Mathilda Avenue to Remington Drive	6	24	78,750	40	0.5	1.8%	0.7%	69.8	96	207	447	963	100
Remington Drive to Fremont Avenue	6	24	98,960	40	0.5	1.8%	0.7%	70.7	112	242	520	1,121	100
<b>Sunnyvale Avenue</b>													
Evelyn Avenue to El Camino Real	2	15	15,920	30	0.5	1.8%	0.7%	59.9	-	46	99	213	100
<b>Remington Drive</b>													
West of Bernardo Avenue to Hollenbeck Avenue	2	15	12,820	30	0.5	1.8%	0.7%	59.0	-	40	86	185	100

Hollenbeck Avenue to El Camino Real	4	15	49,020	35	0.5	1.8%	0.7%	66.0	54	116	250	539	100
<b>Fair Oaks Avenue</b>													
El Camino Real to Evelyn Avenue	4	15	50,830	35	0.5	1.8%	0.7%	66.1	55	119	256	552	100
<b>Fremont Avenue</b>													
Hollenbeck Avenue to Wolfe Road	6	20	40,970	40	0.5	1.8%	0.7%	66.9	-	133	286	617	100
<b>Wolfe Road</b>													
Evelyn Avenue to El Camino Real	5	15	32,970	35	0.5	1.8%	0.7%	64.4	-	91	196	421	100
El Camino Real to Homestead Road	4	0	50,470	35	0.5	1.8%	0.7%	66.0	54	116	251	540	100

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.

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## TRAFFIC NOISE LEVELS AND NOISE CONTOURS

**Project Number:** 150693  
**Project Name:** El Camino Real Corridor Specific Plan  
**Scenario:** Cumulative Without Project

### Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.  
 Source of Traffic Volumes: Ganddini (2018)  
 Community Noise Descriptor:  $L_{dn}$ : \_\_\_\_\_ CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
<b>El Camino Real</b>													
SR-85 to Bernardo Avenue	6	15	69,190	40	0.5	1.8%	0.7%	69.1	86	186	401	865	100
Bernardo Avenue to Hollenbeck Avenue	6	15	62,320	40	0.5	1.8%	0.7%	68.6	81	174	374	806	100
Hollenbeck Avenue to Fair Oaks Avenue	6	15	53,250	35	0.5	1.8%	0.7%	66.6	-	128	276	594	100
Fair Oaks Avenue to Lawrence Road	6	15	77,140	35	0.5	1.8%	0.7%	68.2	76	164	353	760	100
<b>South Bernardo Avenue</b>													
Evelyn Avenue to El Camino Real	2	0	10,400	30	0.5	1.8%	0.7%	58.0	-	34	74	159	100
El Camino Real to Remington Drive	2	0	9,690	30	0.5	1.8%	0.7%	57.7	-	33	71	152	100
<b>Mary Avenue</b>													
Evelyn Avenue to El Camino Real	4	0	29,690	35	0.5	1.8%	0.7%	63.7	-	82	176	379	100
El Camino Real to Remington Drive	2	15	24,210	35	0.5	1.8%	0.7%	62.7	-	71	152	328	100
<b>Hollenbeck Avenue</b>													
El Camino Real to Remington Drive	2	15	21,920	30	0.5	1.8%	0.7%	61.3	-	57	123	264	100
Remington Drive to Fremont Avenue	2	0	17,810	30	0.5	1.8%	0.7%	60.4	-	49	106	228	100
<b>Mathilda Avenue</b>													
Evelyn Avenue to El Camino Real	6	20	67,120	35	0.5	1.8%	0.7%	67.7	70	151	325	701	100
El Camino Real to Sunnyvale Saratoga Road	6	20	53,660	40	0.5	1.8%	0.7%	68.0	74	159	343	738	100
<b>Sunnyvale Saratoga Road</b>													
Mathilda Avenue to Remington Drive	6	24	65,060	40	0.5	1.8%	0.7%	68.9	85	183	394	848	100
Remington Drive to Fremont Avenue	6	24	81,630	40	0.5	1.8%	0.7%	69.9	99	212	458	986	100
<b>Sunnyvale Avenue</b>													
Evelyn Avenue to El Camino Real	2	15	16,550	30	0.5	1.8%	0.7%	60.1	-	47	102	219	100
<b>Remington Drive</b>													
West of Bernardo Avenue to Hollenbeck Avenue	2	15	15,210	30	0.5	1.8%	0.7%	59.7	-	45	96	207	100

Hollenbeck Avenue to El Camino Real	4	15	43,570	35	0.5	1.8%	0.7%	65.5	-	107	231	498	100
<b>Fair Oaks Avenue</b>													
El Camino Real to Evelyn Avenue	4	15	49,270	35	0.5	1.8%	0.7%	66.0	54	116	251	540	100
<b>Fremont Avenue</b>													
Hollenbeck Avenue to Wolfe Road	6	20	44,990	40	0.5	1.8%	0.7%	67.3	-	141	305	656	100
<b>Wolfe Road</b>													
Evelyn Avenue to El Camino Real	5	15	62,370	35	0.5	1.8%	0.7%	67.1	64	139	299	644	100
El Camino Real to Homestead Road	4	0	49,980	35	0.5	1.8%	0.7%	65.9	54	116	249	536	100

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## TRAFFIC NOISE LEVELS AND NOISE CONTOURS

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**Scenario:** Cumulative With Project

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Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition Roadway, Segment	Lanes	Median Width	ADT Volume	Design Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist
						Medium Trucks	Heavy Trucks	CNEL at 100 Feet	Distance to Contour				
								70 CNEL	65 CNEL	60 CNEL	55 CNEL		
<b>El Camino Real</b>													
SR-85 to Bernardo Avenue	6	15	92,960	40	0.5	1.8%	0.7%	70.3	105	227	489	1,053	100
Bernardo Avenue to Hollenbeck Avenue	6	15	84,670	40	0.5	1.8%	0.7%	69.9	99	213	459	989	100
Hollenbeck Avenue to Fair Oaks Avenue	6	15	73,880	35	0.5	1.8%	0.7%	68.0	74	159	343	738	100
Fair Oaks Avenue to Lawrence Road	6	15	89,070	35	0.5	1.8%	0.7%	68.8	84	180	388	837	100
<b>South Bernardo Avenue</b>													
Evelyn Avenue to El Camino Real	2	0	13,870	30	0.5	1.8%	0.7%	59.3	-	42	90	193	100
El Camino Real to Remington Drive	2	0	13,750	30	0.5	1.8%	0.7%	59.3	-	41	89	192	100
<b>Mary Avenue</b>													
Evelyn Avenue to El Camino Real	4	0	37,090	35	0.5	1.8%	0.7%	64.6	-	95	204	440	100
El Camino Real to Remington Drive	2	15	27,200	35	0.5	1.8%	0.7%	63.3	-	76	165	355	100
<b>Hollenbeck Avenue</b>													
El Camino Real to Remington Drive	2	15	26,890	30	0.5	1.8%	0.7%	62.2	-	65	140	303	100
Remington Drive to Fremont Avenue	2	0	22,020	30	0.5	1.8%	0.7%	61.3	-	57	122	263	100
<b>Mathilda Avenue</b>													
Evelyn Avenue to El Camino Real	6	20	76,510	35	0.5	1.8%	0.7%	68.3	76	165	355	765	100
El Camino Real to Sunnyvale Saratoga Road	6	20	65,310	40	0.5	1.8%	0.7%	68.9	84	181	391	842	100
<b>Sunnyvale Saratoga Road</b>													
Mathilda Avenue to Remington Drive	6	24	83,370	40	0.5	1.8%	0.7%	70.0	100	215	464	1,000	100
Remington Drive to Fremont Avenue	6	24	97,030	40	0.5	1.8%	0.7%	70.7	111	238	514	1,107	100
<b>Sunnyvale Avenue</b>													
Evelyn Avenue to El Camino Real	2	15	19,160	30	0.5	1.8%	0.7%	60.7	-	52	112	241	100
<b>Remington Drive</b>													
West of Bernardo Avenue to Hollenbeck Avenue	2	15	18,090	30	0.5	1.8%	0.7%	60.5	-	50	108	232	100



Hollenbeck Avenue to El Camino Real	4	15	50,880	35	0.5	1.8%	0.7%	66.1	55	119	256	552	100
<b>Fair Oaks Avenue</b>													
El Camino Real to Evelyn Avenue	4	15	59,420	35	0.5	1.8%	0.7%	66.8	61	132	284	612	100
<b>Fremont Avenue</b>													
Hollenbeck Avenue to Wolfe Road	6	20	52,760	40	0.5	1.8%	0.7%	67.9	73	157	339	730	100
<b>Wolfe Road</b>													
Evelyn Avenue to El Camino Real	5	15	67,430	35	0.5	1.8%	0.7%	67.5	68	146	315	679	100
El Camino Real to Homestead Road	4	0	54,560	35	0.5	1.8%	0.7%	66.3	57	122	264	569	100

<sup>1</sup> Distance is from the centerline of the roadway segment to the receptor location.

"-" = contour is located within the roadway right-of-way.