

slo

2035



LAND USE &
CIRCULATION
UPDATE



APPENDIX J: NOISE MODELING

Please see the next page.



SLO GPU - Traffic Noise Model - Existing Conditions (2012)

Noise Level Descriptor: CNEL
 Site Conditions: Hard
 Traffic Input: ADT
 Traffic K-Factor:

Number	Name	Segment Description and Location		Speed (mph)	Distance to Directional Centerline, (feet) _d			Traffic Distribution Characteristics						Distance to Contour, (feet) ₃				
		From	To		Near	Far	% Auto	% Medium	% Heavy	% Day	% Eve	% Night	70 dBA	65 dBA	60 dBA	55 dBA		
															70 dBA	65 dBA	60 dBA	55 dBA
1	Augusta	Bishop	Laurel	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	56.4	22	7	69	
3	Broad	S	South	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.9	24	77	773	
4	Broad	Foothill	Lincoln	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.9	4	12	39	
5	Broad	Monterey	Marsh	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	48	
6	Broad	Marsh	Upham	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.3	21	67	212	
7	Broad	Upham	South	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.8	30	96	302	
8	Broad	South	Orcutt	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.3	67	212	670	
9	Broad	Orcutt	Tank Farm	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.1	81	256	810	
10	Broad	Tank Farm	Buckley	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.6	58	183	578	
11	Broad	Buckley South	Buckley	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.8	48	152	480	
12	Buchon	High	Santa Rosa	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	53.4	1	3	35	
13	Buchon	High	Johnson	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.6	3	9	29	
17	California	Cal Poly	Foothill	35	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.4	14	44	138	
18	California	Foothill	Taft	35	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.4	28	87	275	
19	California	Taft	Monterey	35	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.2	17	53	167	
20	California	Taft	San Luis	35	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.3	17	54	170	
21	Capitolo	Broad	Sacramento	30	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.9	4	12	39	
22	Chorro	Highland	Foothill	30	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.4	5	17	55	
23	Chorro	Foothill	Lincoln	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	61.5	7	22	70	
24	Chorro	Lincoln	Palm	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.7	5	15	46	
25	Chorro	Palm	Pismo	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.6	5	14	45	
26	Foothill	Patricia	Los Osos Valley	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.3	21	67	212	
27	Foothill	Patricia	Broad	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.8	30	96	304	
28	Foothill	Broad	Santa Rosa	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.0	39	125	395	
29	Foothill	Santa Rosa	California	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.7	37	118	372	
33	Highland	Higuera	Broad	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	56.0	2	6	20	
34	Highland	Patricia	Ferrini	25	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.6	4	11	36	
35	Highland	Ferrini	Cal Poly	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.4	22	68	217	
36	Higuera	Johnson	Santa Rosa	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	62.8	9	30	94	
37	Higuera	Johnson	Nipomo	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.8	24	75	239	
38	Higuera	Nipomo	Marsh	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.5	28	88	278	
39	Higuera	Marsh	South	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.7	37	117	369	
40	Higuera	South	Madonna	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.1	81	257	811	
41	Higuera	Madonna	Prado	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.6	46	144	455	
42	Higuera	Prado	Tank Farm	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.1	51	161	508	
43	Higuera	Tank Farm	LOVR	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.3	67	212	671	
44	Higuera	LOVR	South of City Limits	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.4	22	68	216	
45	Industrial	Broad	Sacramento	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.1	13	40	127	
46	Johnson	Monterey	San Luis	35	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.3	17	54	171	
47	Johnson	San Luis	Laurel	35	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.0	25	79	250	
48	Johnson	Laurel	Orcutt	35	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.4	11	34	109	
50	Laurel	Johnson	Orcutt	40	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.0	20	62	197	
52	Los Osos Valley	West City Limits	West City Limits	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.9	31	98	311	
53	Los Osos Valley	North City Limits	Prefumo Canyon	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.0	63	200	633	
54	Los Osos Valley	Prefumo Canyon	Madonna	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.9	77	242	767	
55	Los Osos Valley	Madonna	Route 101	45	50	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.6	91	288	911	

56	Los Osos Valley	Route 101	26,028	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.1	80	254	802	2535
57	Los Osos Valley	Route 101	27,028	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.2	83	263	833	2633
58	Madonna	LOVR	20,105	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.9	62	196	619	1958
59	Madonna	Oceanaire	23,606	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.6	73	230	727	2299
60	Madonna	US 101	24,175	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.7	74	235	745	2355
61	Margarita	E Higuera	3,735	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.8	3	10	30	96
62	Marsh	Higuera	10,156	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.6	11	36	114	361
63	Marsh	Santa Rosa	4,498	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.0	5	16	51	160
64	Mill	Grand	2,042	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	55.2	2	5	17	53
65	Monterey	Chorro	4,220	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	47	150
66	Monterey	Santa Rosa	10,425	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.7	12	37	117	370
67	Monterey	California	10,167	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.6	11	36	114	361
69	Oceanaire	LOVR	2,403	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	55.9	2	6	20	62
70	Oceanaire	LOVR	702	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	50.6	1	2	6	18
71	Orcutt	Broad	14,640	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.0	80	253	801	2533
72	Orcutt	Laurel	2,416	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.2	13	42	132	418
73	Orcutt	Johnson	6,819	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.7	37	118	373	1180
74	Orcutt	Tank Farm	2,151	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.7	12	37	118	372
75	Palm	South City Limits	4,194	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.3	3	11	34	108
77	Pismo	Chorro	3,218	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.6	4	11	36	114
78	Pismo	Higuera	3,013	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.3	3	11	34	107
79	Prado	Santa Rosa	6,818	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.8	15	48	152	482
80	Prado	Madonna	6,818	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.8	15	48	152	482
81	Prado	US 101	3,302	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.2	5	17	53	166
82	Prefumo	Higuera	4,825	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.3	11	34	108	341
83	Ramona	Broad	4,873	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.0	4	13	40	126
84	Sacramento	CL (W LOVR)	3,558	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.5	6	18	57	179
85	San Luis	Broad (W Broad)	9,761	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.4	11	35	110	347
85	San Luis	Industrial															
85	San Luis	Johnson															
85	San Luis	California															

Vehicle Fleet based on EMFAC 2010 for SLO County

Temporal split based on default percentages in the FHWA TNM

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.



Noise Level Descriptor: CNEL
 Site Conditions: Hard
 Traffic Input: ADT
 Traffic K-Factor:

Number	Name	Segment Description and Location		Input										Output				
		From	To	Speed (mph)	Distance to Directional Centerline, (feet) _d		% Auto	Traffic Distribution Characteristics			% Night	CNEL, (dBA) _{5,6,7}	Distance to Contour, (feet) ₃					
					Near	Far		% Heavy	% Day	% Eve			70 dBA	65 dBA	60 dBA	55 dBA		
1	Augusta	Bishop	Laurel	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	56.4	2	7	22	69	
3	Broad	S	South	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.4	27	87	275	869	
4	Broad	Foothill	Lincoln	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.9	4	12	39	124	
5	Broad	Monterey	Marsh	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	48	151	
6	Broad	Marsh	Upham	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.0	25	80	252	796	
7	Broad	Upham	South	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.8	38	120	378	1196	
8	Broad	South	Orcutt	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.2	83	262	830	2624	
9	Broad	Orcutt	Tank Farm	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.8	120	380	1203	3803	
10	Broad	Tank Farm	Buckley	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.7	93	295	934	2953	
11	Broad	Buckley South		45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.9	77	243	767	2426	
12	Buchon	High	Santa Rosa	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	54.0	1	4	12	39	
13	Buchon	Tank Farm	Johnson	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.6	9	29	91	311	
17	California	Cal Poly	Santa Rosa	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.6	15	46	145	460	
18	California	Foothill	Foothill	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.5	35	111	351	1109	
19	California	Taft	Taft	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.5	18	56	176	556	
20	California	Taft	San Luis	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.3	21	67	213	673	
21	Capitolo	Broad	Sacramento	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	48	151	
22	Chorro	Highland	Foothill	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	61.8	8	24	75	237	
23	Chorro	Foothill	Lincoln	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	62.7	9	29	93	295	
24	Chorro	Lincoln	Palm	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.4	5	17	54	172	
25	Chorro	Palm	Pismo	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	61.3	7	21	68	214	
26	Foothill	Los Osos Valley	Patricia	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.6	23	73	230	728	
27	Foothill	Patricia	Broad	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.8	30	96	305	963	
28	Foothill	Broad	Santa Rosa	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.0	39	125	395	1248	
29	Foothill	Santa Rosa	California	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.7	47	148	466	1475	
33	High	Higuera	Broad	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.5	3	9	28	90	
34	Highland	Higuera	Ferrini	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.6	4	11	36	114	
35	Highland	Ferrini	Cal Poly	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.0	32	100	315	997	
36	Higuera	Johnson	Santa Rosa	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.4	11	34	109	343	
37	Higuera	Johnson	Nipomo	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.2	33	104	328	1037	
38	Higuera	Nipomo	Marsh	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.2	33	104	329	1040	
39	Higuera	Marsh	South	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	69.9	49	155	491	1554	
40	Higuera	South	Madonna	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.0	99	313	990	3131	
41	Higuera	Madonna	Prado	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.6	71	223	706	2234	
42	Higuera	Prado	Tank Farm	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.9	77	245	774	2448	
43	Higuera	Tank Farm	LOVR	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.5	88	280	884	2796	
44	Higuera	LOVR	South of City Limits	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	67.1	26	82	259	818	
45	Industrial	Broad	Sacramento	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.5	14	44	140	443	
46	Johnson	Monterey	San Luis	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.8	19	60	190	600	
47	Johnson	San Luis	Laurel	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	68.4	34	108	342	1081	
48	Johnson	Laurel	Orcutt	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.3	17	54	170	539	
50	Laurel	Johnson	Orcutt	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.9	24	77	242	766	
52	Los Osos Valley	West City Limits	West City Limits	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.5	56	176	555	1756	
53	Los Osos Valley	North City Limits	North City Limits	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.8	95	300	949	3002	
54	Los Osos Valley	Prefumo Canyon	Prefumo Canyon	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.4	109	345	1092	3454	
55	Los Osos Valley	Madonna	Route 101	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.5	112	353	1117	3534	

56	Los Osos Valley	Route 101	37,050	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.6	114	361	1141	3609
57	Los Osos Valley	Route 101	27,775	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.3	86	271	856	2706
58	Madonna	LOVR	22,700	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.5	70	221	699	2211
59	Madonna	Oceanaire	23,610	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.6	73	230	727	2300
60	Madonna	US 101	24,175	45	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.7	74	235	745	2355
61	Margarita	E Higuera	3,735	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.8	3	10	30	96
62	Marsh	Higuera	16,740	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	65.8	19	59	188	595
63	Marsh	Santa Rosa	4,500	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.0	5	16	51	160
64	Mill	Grand	3,735	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	57.8	3	10	30	96
65	Monterey	Chorro	4,220	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	59.8	5	15	47	150
66	Monterey	Chorro	10,570	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.8	12	38	119	376
67	Monterey	Santa Rosa	12,520	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.5	14	44	141	445
69	Oceanaire	California	2,405	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	55.9	2	6	20	62
70	Oceanaire	LOVR	790	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	51.1	1	2	6	20
71	Orcutt	Broad	18,030	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	73.0	99	312	986	3119
72	Orcutt	Laurel	3,930	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	66.3	21	68	215	680
73	Orcutt	Johnson	13,515	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.7	74	234	739	2338
74	Orcutt	Tank Farm	13,125	55	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.6	72	227	718	2270
75	Palm	South City Limits	4,195	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.4	3	11	34	108
77	Pismo	Chorro	3,295	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.7	4	12	37	117
78	Pismo	Higuera	3,015	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	58.3	3	11	34	107
79	Prado	Santa Rosa	29,725	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	71.2	66	210	664	2101
80	Prado	Madonna	38,230	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	72.3	85	270	855	2702
81	Prado	US 101	34,690	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	70.4	55	174	552	1745
82	Prefumo	Higuera	4,990	40	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	63.5	11	35	112	353
83	Ramona	CL (W LOVR)	6,325	25	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	60.1	5	16	52	163
84	Sacramento	Broad (W Broad)	5,280	35	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	62.3	8	27	84	266
85	San Luis	Industrial	13,870	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.9	16	49	156	493
85	San Luis	Johnson	13,870	30	50	50	95.6%	2.4%	2.0%	85.0%	10.0%	5.0%	64.9	16	49	156	493

Vehicle Fleet based on EMFAC 2010 for SLO County

Temporal split based on default percentages in the FHWA TNM

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.



SLO GPU - Traffic Noise Model - Highway 101- Existing Conditions (2012)

Noise Level Descriptor: CNEL
 Site Conditions: Hard
 Traffic Input: ADT
 Traffic K-Factor:

Segment Description and Location

Number	Name	ADT	Speed (mph)	Distance to Directional Centerline, (feet) ⁴		Traffic Distribution Characteristics			CNEL, (dBA) _{5,6,7}	Distance to Contour, (feet) ₃							
				Near	Far	% Auto	% Medium	% Heavy		% Day	% Eve	% Night	70 dBA	65 dBA	60 dBA	55 dBA	
Highway 101																	
1	North of LOVR	58,700	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.2	662	2094	6621	20937
2	South of LOVR	63,300	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.5	714	2258	7140	22578
3	North of Madonna	67,100	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.8	757	2393	7568	23933
4	South of Madonna	57,700	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.1	651	2058	6508	20581
5	North of Route 227	62,300	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	81.5	703	2222	7027	22221
6	South of Route 227	67,100	65	50	50	91.3%	2.7%	6.0%	85.0%	10.0%	10.0%	5.0%	81.8	763	2412	7626	24117
7	North of Route 1 N	54,800	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	81.2	666	2106	6660	21059
8	South of Route 1 N	60,300	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	81.7	733	2317	7328	23173
9	North of California	44,800	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	80.4	545	1722	5446	17221
10	South of California	47,400	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	80.6	576	1822	5762	18220
11	North of Grand	37,600	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	79.6	457	1445	4571	14453
12	South of Grand	44,800	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	80.4	545	1722	5446	17221
13	North of Buena Vista	43,800	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	79.9	488	1545	4884	15446
14	South of Buena Vista	40,800	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	79.6	455	1439	4550	14388
15	North of Northern City Limit	43,800	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	79.9	488	1545	4884	15446
16	South of Northern City Limit	43,800	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	79.9	488	1545	4884	15446

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.



Noise Level Descriptor: CNEL
 Site Conditions: Hard
 Traffic Input: ADT
 Traffic K-Factor:

Segment Description and Location

Number	Name	Segment Description and Location	Input										Output					
			ADT	Speed (mph)	Distance to Directional Centerline, (feet) ⁴ Near	Distance to Directional Centerline, (feet) ⁴ Far	% Auto	% Medium	% Heavy	% Day	% Eve	% Night	CNEL, (dBA) _{5,6,7}	70 dBA	65 dBA	60 dBA	55 dBA	
Highway 101																		
1		North of LOVR	79,520	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	82.5	897	2836	8969	28363
2		South of LOVR	85,215	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	82.8	961	3039	9612	30395
3		North of Madonna	90,090	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	83.1	1016	3213	10161	32133
4		South of Madonna	81,475	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	82.6	919	2906	9190	29061
5		North of Route 227	84,490	65	50	50	91.3%	2.9%	5.8%	85.0%	10.0%	10.0%	5.0%	82.8	953	3014	9530	30136
6		South of Route 227	90,090	65	50	50	91.3%	2.7%	6.0%	85.0%	10.0%	10.0%	5.0%	83.1	1024	3238	10240	32380
7		North of Route 1 N	85,680	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	83.2	1041	3293	10412	32926
8		South of Route 1 N	77,975	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.8	948	2997	9476	29965
9		North of California	74,590	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.6	907	2867	9067	28672
10		South of California	76,170	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.7	926	2928	9259	29280
11		North of Grand	67,470	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.1	820	2594	8201	25935
12		South of Grand	74,590	65	50	50	90.2%	2.3%	7.5%	85.0%	10.0%	10.0%	5.0%	82.6	907	2867	9067	28672
13		North of Buena Vista	79,045	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	82.5	881	2787	8815	27875
14		South of Buena Vista	71,910	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	82.1	802	2536	8019	25359
15		North of Northern City Limit	79,045	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	82.5	881	2787	8815	27875
16		South of Northern City Limit	79,045	65	50	50	91.9%	2.3%	5.8%	85.0%	10.0%	10.0%	5.0%	82.5	881	2787	8815	27875

*All modeling assumes average pavement, level roadways (less than 1.5% grade), constant traffic flow and does not account for shielding of any type or finite roadway adjustments. All levels are reported as A-weighted noise levels.

SLO GPU - HWY 101 Vehicle Fleet Calculation											
Mile Post	Highway 101 Location	ADT ²	Truck ADT by Axle ¹					MT ³	HT ⁴	MT %	HT %
			2	3	4	5+					
25.911	North of LOVR	NA	NA	NA	NA	NA	NA	NA	NA	3%	6%
25.911	South of LOVR	NA	NA	NA	NA	NA	NA	NA	NA	3%	6%
27.501	North of Madonna	NA	NA	NA	NA	NA	NA	NA	NA	3%	6%
27.501	South of Madonna	NA	NA	NA	NA	NA	NA	NA	NA	3%	6%
28.088	North of Route 227	57,000	1,651	481	253	2,574	1,651	3,308	1,651	3%	6%
28.088	South of Route 227	60,000	1,645	478	246	2,557	1,645	3,281	1,645	3%	6%
29.067	North of Route 1 N	43,900	1,020	628	215	2,439	1,020	3,282	1,020	2%	7%
29.067	South of Route 1 N	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.375	North of California	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.375	South of California	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.767	North of Grand	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.767	South of Grand	NA	NA	NA	NA	NA	NA	NA	NA	2%	7%
29.985	North of Buena Vista	NA	NA	NA	NA	NA	NA	NA	NA	2%	6%
29.985	South of Buena Vista	NA	NA	NA	NA	NA	NA	NA	NA	2%	6%
30.36	North of Northern City Limit	41000	960	405	133	1823	960	2361	960	2%	6%
30.36	South of Northern City Limit	NA	NA	NA	NA	NA	NA	NA	NA	2%	6%

Notes:

1. ADT= Average Daily Traffic
 2. Truck ADT derived from Caltrans 2010 Annual Average Daily Truck Data.
 2. MT=Medium Trucks include all 2 axle trucks.
 3. HT=Heavy Trucks includes all trucks with 3 or more axles.
 4. Where Truck Data or AADT was not available, truck percentages were used from a nearby segment of the same road with similar AADT counts.
 5. Orange text represents values based on calculated values from other segments for which data was available.
- Source: Caltrans 2010. Annual Average Daily Truck Traffic on California State Highway System. Available: <http://traffic-counts.dot.ca.gov/truck2010final.pdf>

SLO GPU - Highway 101 Traffic Volumes

County	Location	Back AADT	Ahead AADT	Sum
SLO	101/Los Osos Valley Road	62700	57400	120100
SLO	101/Madonna	59200	66000	125200
SLO	101/Jct. 227	66000	60500	126500
SLO	101/Jct. 1 N	57300	50500	107800
SLO	101/California	43500	41800	85300
SLO	101/Grand	41800	34000	75800
SLO	101/Buena Vista	34000	37000	71000
SLO	101/North City (Not sure where this one is)	37000	39500	76500

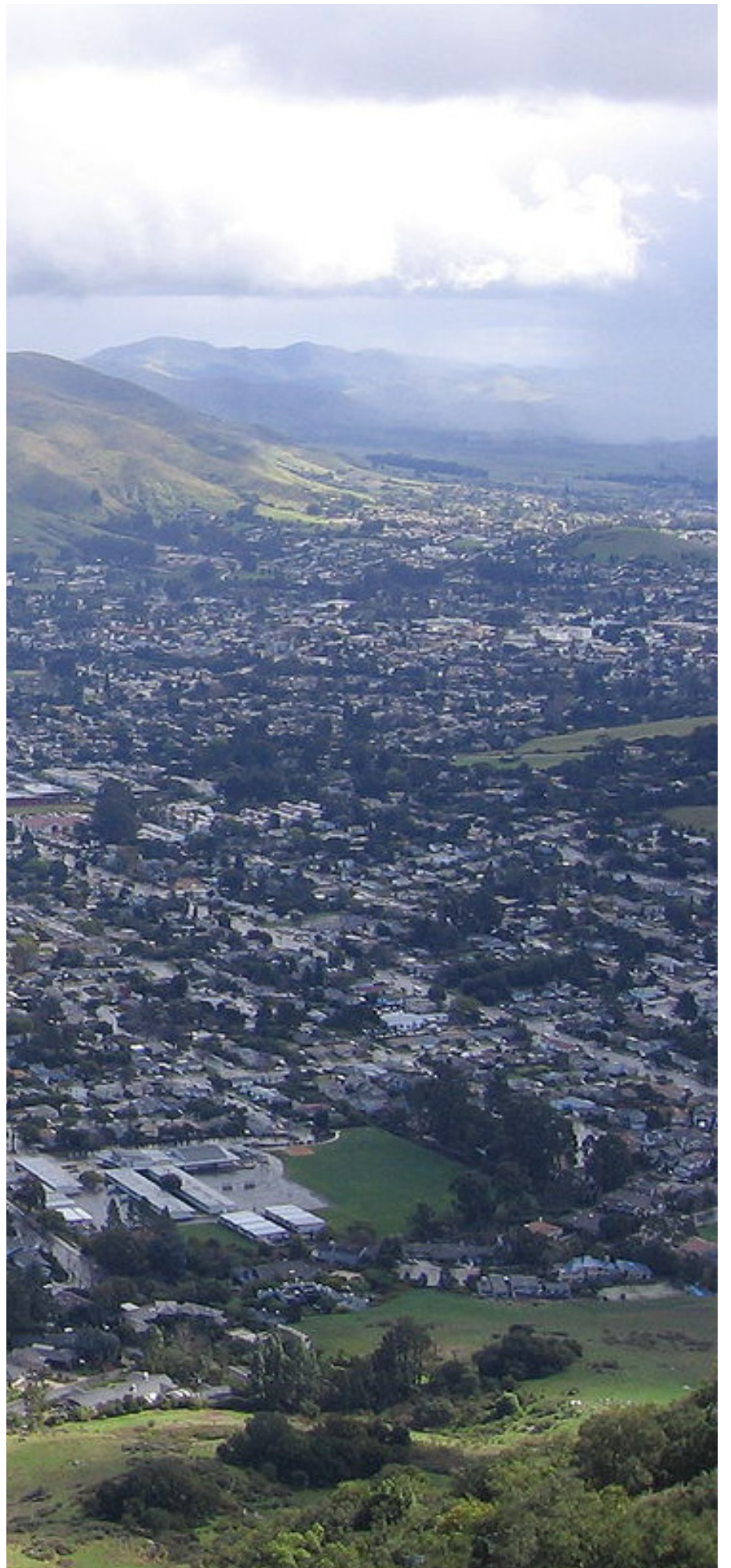
Reference

State of California Department of Transportation [Caltrans] (2012). 2011 All Traffic Volumes on California State Highway System. State of California, Department of Transportation. Traffic Operations Division.

<u>Citation</u>	<u>Reference</u>
1	Caltrans Technical Noise Supplement. 2009 (November). Table (5-11), Pg 5-60.
2	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-26), Pg 5-60.
3	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-16), Pg 2-32.
4	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-11), Pg 5-47, 48.
5	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-26), Pg 2-55, 56.
6	Caltrans Technical Noise Supplement. 2009 (November). Equation (2-27), Pg 2-57.
7	Caltrans Technical Noise Supplement. 2009 (November). Pg 2-53.
8	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-7), Pg 5-45.
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11	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-13), Pg 5-49.
12	Caltrans Technical Noise Supplement. 2009 (November). Equation (5-14), Pg 5-49.
13	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (16), Pg 67
14	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (20), Pg 69
15	Federal Highway Administration Traffic Noise Model Technical Manual. Report No. FHWA-PD-96-010. 1998 (January). Equation (18), Pg 69

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