

APPENDIX E

NOISE MODELING DATA

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Newport Beach HEU
 Project Number: 94698008
 Scenario: Existing
 Ldn/CNEL: CNEL

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

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix		Distance from Centerline of Roadway					Calc Dist	Traffic Volumes										Ref. Energy Levels			Dist Ld			Le			Ln			DISTANCE TO CONTOUR (2)							
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL		Day	Eve	Night	MTd	HTd	MTe	HTe	MTn	HTn	A	MT	HT	Adj	A	MT	HT	Total	A	MT	HT	Total	A	MT	HT	Total	70 CNEL	65 CNEL	60 CNEL	55 CNEL	50 CNEL
								0.0%	0.0%	68.0	63	200	632	2,000		100	22,611	3,696	2,794	509	259	29	8	44	23	69.3	77.6	82.1	-2.8	67.3	59.2	60.8	68.7	64.3	51.7	50.7	64.7	51.6	49.8	51.6	55.8	63	200	632	2,000
1	Campus Drive	Dove to Quail	6	9	29,100	45	0	2.0%	1.0%	68.0	63	200	632	2,000	100	22,611	3,696	2,794	509	259	29	8	44	23	69.3	77.6	82.1	-2.8	67.3	59.2	60.8	68.7	64.3	51.7	50.7	64.7	51.6	49.8	51.6	55.8	63	200	632	2,000	6324
2	Campus Drive	Bristol to Orchard Drive	6	17	28,400	50	0	2.0%	1.0%	69.1	81	255	806	2,548	100	22,067	3,607	2,726	497	253	29	8	43	23	71.1	78.8	83.0	-2.7	68.6	59.9	61.2	69.8	65.6	52.3	51.1	66.0	52.8	50.5	52.0	56.6	81	255	806	2,548	8056
3	Irvine Avenue	Mesa Drive to Del Mar Avenue	4	11	30,600	45	0	2.0%	1.0%	68.1	64	203	642	2,031	100	23,776	3,886	2,938	535	273	31	9	46	25	69.3	77.6	82.1	-3.0	67.4	59.3	60.9	68.8	64.4	51.7	50.7	64.8	51.6	49.9	51.7	55.9	64	203	642	2,031	6421
4	Irvine Avenue	Del Mar Avenue to Monte Vista Avenue	4	15	34,700	25	0	2.0%	1.0%	63.9	-	77	244	771	100	26,962	4,407	3,331	607	309	35	10	52	28	59.4	71.1	78.7	-2.9	60.6	55.9	60.6	64.3	57.6	48.3	50.5	58.8	44.8	46.4	51.4	53.3	24	77	244	771	2439
5	Irvine Avenue	23rd to 22nd Street	4	17	35,100	35	0	2.0%	1.0%	66.3	-	133	422	1,335	100	27,273	4,458	3,370	614	313	35	10	53	28	65.1	74.8	80.0	-2.9	64.9	58.2	60.5	66.9	61.9	50.7	50.4	62.5	49.1	48.8	51.3	54.7	42	133	422	1,335	4221
6	Irvine Avenue	22nd to 20th Street	4	20	30,700	40	0	2.0%	1.0%	67.0	-	157	498	1,574	100	23,854	3,899	2,947	537	274	31	9	46	25	67.4	76.3	81.2	-2.9	66.0	58.6	60.5	67.6	63.0	51.0	50.3	63.5	50.2	49.1	51.3	55.1	50	157	498	1,574	4978
7	Irvine Avenue	20th to 19th Street	4	20	32,100	40	0	2.0%	1.0%	67.2	-	165	520	1,646	100	24,942	4,077	3,082	561	286	32	9	48	26	67.4	76.3	81.2	-2.9	66.2	58.8	60.7	67.8	63.2	51.2	50.5	63.7	50.4	49.3	51.5	55.3	52	165	520	1,646	5205
8	Irvine Avenue	19th to 17th Street	4	26	22,300	40	0	2.0%	1.0%	65.6	-	115	365	1,155	100	17,327	2,832	2,141	390	199	23	6	34	18	67.4	76.3	81.2	-2.9	64.6	57.2	59.2	66.3	61.7	49.7	49.0	62.1	48.9	47.8	49.9	53.7	37	115	365	1,155	3651
9	Jamboree Road	North of Campus Drive	6	15	40,100	50	0	2.0%	1.0%	70.5	113	359	1,132	3,581	100	31,158	5,093	3,850	701	357	41	11	60	32	71.1	78.8	83.0	-2.7	70.1	61.4	62.7	71.3	67.1	53.8	52.5	67.4	54.3	52.0	53.5	58.1	113	359	1,132	3581	11325
10	Jamboree Road	Campus Drive to Birch Street	6	25	43,100	50	0	2.0%	1.0%	71.0	125	394	1,247	3,942	100	33,489	5,474	4,138	754	384	44	12	65	35	71.1	78.8	83.0	-2.6	70.5	61.8	63.1	71.7	67.5	54.2	53.0	67.9	54.7	52.4	53.9	58.5	125	394	1,247	3942	12466
11	Jamboree Road	Birch Street to Bristol	6	20	41,700	55	0	2.0%	1.0%	71.8	150	475	1,502	4,748	100	32,401	5,296	4,003	729	372	42	12	63	34	72.7	79.9	83.8	-2.7	71.1	62.3	63.3	72.5	68.5	54.7	53.1	68.8	55.7	52.8	54.1	59.1	150	475	1,502	4748	15016
12	Jamboree Road	Bristol to Bayview Way	8	15	48,600	55	0	2.0%	1.0%	72.7	185	584	1,846	5,838	100	37,762	6,172	4,666	850	433	49	14	73	39	72.7	79.9	83.8	-2.5	72.4	63.2	64.2	73.4	69.4	55.6	54.0	69.7	56.6	53.7	55.0	60.0	185	584	1,846	5838	18461
13	Jamboree Road	Bayview Way to University Road	6	17	50,500	55	0	2.0%	1.0%	72.6	181	571	1,806	5,711	100	39,239	6,414	4,848	883	430	49	14	76	41	72.7	79.9	83.8	-2.7	72.3	63.1	64.1	73.3	69.3	55.5	53.9	69.6	56.5	53.6	54.9	59.9	181	571	1,806	5711	18059
14	Jamboree Road	University Road to Bison Avenue	6	17	43,000	55	0	2.0%	1.0%	71.9	154	486	1,538	4,863	100	33,411	5,461	4,128	752	383	43	12	65	35	72.7	79.9	83.8	-2.7	71.6	62.4	63.4	72.6	68.6	54.8	53.2	68.9	55.8	52.9	54.2	59.2	154	486	1,538	4863	15377
15	Jamboree Road	Bison Avenue to Ford Road	6	17	41,700	55	0	2.0%	1.0%	71.7	149	472	1,491	4,716	100	32,401	5,296	4,003	729	372	42	12	63	34	72.7	79.9	83.8	-2.7	71.6	62.2	63.3	72.5	68.5	54.7	53.1	68.8	55.7	52.8	54.0	59.1	149	472	1,491	4712	14912
16	Jamboree Road	Ford Road to San Joaquin Hills Road	6	28	53,500	55	0	2.0%	1.0%	72.9	197	622	1,966	6,218	100	41,570	6,795	5,136	936	477	54	15	80	43	72.7	79.9	83.8	-2.6	72.6	63.4	64.5	73.7	69.7	55.9	54.3	70.0	56.9	54.0	55.2	60.3	197	622	1,966	6218	19663
17	Jamboree Road	San Joaquin Hills Road to Santa Barbara Drive	6	27	40,500	55	0	2.0%	1.0%	71.7	148	469	1,484	4,694	100	31,469	5,144	3,888	708	361	41	12	61	33	72.7	79.9	83.8	-2.6	71.4	62.2	63.3	72.5	68.5	54.6	53.1	68.8	55.7	52.8	54.0	59.1	148	469	1,484	4694	14845
18	Jamboree Road	Santa Barbara Drive to Back Bay Drive	6	17	35,400	55	0	2.0%	1.0%	71.0	127	400	1,266	4,003	100	27,506	4,496	3,398	619	315	36	10	53	29	72.7	79.9	83.8	-2.7	70.7	61.5	62.6	71.8	67.8	53.9	52.4	68.1	55.0	52.1	53.3	58.4	127	400	1,266	4003	12659
19	Jamboree Road	Back Bay Drive to PCH	5	17	35,400	55	0	2.0%	1.0%	70.9	124	391	1,235	3,906	100	27,506	4,496	3,398	619	315	36	10	53	29	72.7	79.9	83.8	-2.6	70.6	61.4	62.5	71.7	67.7	53.8	52.3	68.0	54.9	52.0	53.2	58.3	124	391	1,235	3906	12353
20	Jamboree Road	PCH to Bayside Drive	4	13	11,500	35	0	2.0%	1.0%	61.4	-	138	435	100	8,936	1,461	1,104	201	102	12	3	17	9	65.1	74.8	80.0	-2.9	60.0	53.4	55.7	62.0	57.0	45.8	45.5	57.6	44.2	43.9	46.4	49.8	14	43	138	435	1375	
21	University Road	SR 73 to Jamboree Road	4	25	13,800	50	0	2.0%	1.0%	65.8	-	120	379	1,200	100	10,723	1,753	1,325	241	123	14	4	21	11	71.1	78.8	83.0	-2.9	65.3	60.0	63.0	72.2	68.2	54.4	52.8	68.5	55.4	52.5	53.7	58.8	139	439	1,389	4393	13892
22	MacArthur Boulevard	North of Campus Drive	8	16	44,600	55	0	2.0%	1.0%	72.3	170	538	1,700	5,375	100	34,654	5,664	4,282	780	397	45	13	67	36	72.7	79.9	83.8	-2.5	72.0	62.8	63.8	73.1	69.1	55.2	53.7	69.3	56.3	53.4	54.6	59.7	170	538	1,700	5375	16998
23	MacArthur Boulevard	Campus Drive to Birch Street	8	21	29,500	55	0	2.0%	1.0%	70.6	114	362	1,144	3,618	100	22,922	3,747	2,832	516	263	30	8	44	24	72.7	79.9	83.8	-2.4	70.3	61.1	62.1	71.3	67.3	53.5	52.0	67.6	54.5	51.6	52.9	58.0	114	362	1,144	3618	11440
24	MacArthur Boulevard	Birch Street to Van Karman Avenue	6	16	18,100	55	0	2.0%	1.0%	68.1	65	204	646	2,042	100	14,064	2,299	1,738	316	161	18	5	27	15	72.7	79.9	83.8	-2.7	67.8	58.6	59.6	68.9	64.8	51.0	49.5	65.1	52.1	49.2	50.4	55.5	65	204	646	2,042	6458
25	MacArthur Boulevard	Van Karman to Jamboree Road	6	28	37,800	55	0	2.0%	1.0%	71.4	139	439	1,389	4,393	100	29,371	4,841	3,629	661	337	38	11	57	30	72.7	79.9	83.8	-2.6	71.1	61.9	63.0	72.2	68.2	54.4	52.8	68.5	55.4	52.5	53.7	58.8	139	439	1,389	4393	13892
26	MacArthur Boulevard	Jamboree Road to University Road	6	16	36,800	60	0	2.0%</																																					

89	San Joaquin Hills Road	San Miguel Drive to Marguerite Avenue	6	17	21,000	50	0	2.0%	1.0%	67.8	-	188	596	1,884	100	16,317	2,667	2,016	367	187	21	6	32	17	71.1	78.8	83.0	-2.7	67.3	58.6	59.9	68.5	64.3	51.0	49.8	64.7	51.5	49.2	50.7	55.3	60	188	596	1884	5957
90	San Joaquin Hills Road	Marguerite Avenue to Spyglass Hill Road	4	16	17,900	55	0	2.0%	1.0%	67.9	61	193	612	1,935	100	13,908	2,273	1,718	313	159	18	5	27	14	72.7	79.9	83.8	-2.9	67.6	58.4	59.4	68.6	64.6	50.8	49.2	64.9	51.8	48.9	50.2	55.2	61	193	612	1935	6118
91	San Joaquin Hills Road	East of Spyglass Hill Road	4	22	18,100	55	0	2.0%	1.0%	68.0	62	197	624	1,974	100	14,064	2,299	1,738	316	161	18	5	27	15	72.7	79.9	83.8	-2.9	67.7	58.5	59.5	68.7	64.7	50.9	49.3	65.0	51.9	49.0	50.3	55.3	62	197	624	1974	6241
92	San Joaquin Hills Road	West of Newport Coast Drive	4	25	16,100	55	0	2.0%	1.0%	67.5	-	176	558	1,764	100	12,510	2,045	1,546	282	143	16	5	24	13	72.7	79.9	83.8	-2.9	67.2	58.0	59.0	68.2	64.2	50.4	48.8	64.5	51.4	48.5	49.8	54.8	56	176	558	1764	5579
93	Santa Barbara Drive	Jamboree Road to the Circle	5	12	14,400	45	0	2.0%	1.0%	64.9	-	97	308	974	100	11,189	1,829	1,382	252	128	15	4	22	12	69.3	77.6	82.1	-2.9	64.2	56.1	57.7	65.6	61.2	48.5	47.5	61.6	48.4	46.7	48.5	52.7	31	97	308	974	3079
94	Santa Cruz Drive	San Joaquin Hill Road to the Circle	4	12	12,300	35	0	2.0%	1.0%	61.7	-	-	147	465	100	9,557	1,562	1,181	215	110	12	3	18	10	65.1	74.8	80.0	-3.0	60.3	53.7	55.9	62.3	57.3	46.1	45.8	57.9	44.5	44.2	46.7	50.1	15	46	147	465	1469
95	Santa Rosa Drive	San Joaquin Hill Road to the Circle	4	7	10,500	30	0	2.0%	1.0%	60.1	-	-	102	323	100	8,159	1,334	1,008	184	94	11	3	16	8	62.5	73.1	80.3	-3.0	57.6	51.9	56.1	60.6	54.7	44.3	46.0	55.6	41.9	42.4	46.9	49.1	10	32	102	323	1020
96	Avocado Avenue	San Miguel road to PCH	4	13	15,300	45	0	2.0%	1.0%	65.1	-	102	322	1,018	100	11,888	1,943	1,469	268	136	15	4	23	12	69.3	77.6	82.1	-2.9	64.4	56.3	57.9	65.8	61.4	48.7	47.7	61.8	48.6	46.9	48.7	52.9	32	102	322	1018	3219
97	Superior Avenue	17th Street to Placentia Avenue	4	16	17,200	40	0	2.0%	1.0%	64.4	-	88	277	877	100	13,364	2,184	1,651	301	153	17	5	26	14	67.4	76.3	81.2	-2.9	63.4	56.0	58.0	65.1	60.5	48.5	47.8	60.9	47.7	46.6	48.7	52.5	28	88	277	877	2773
98	Superior Avenue	Placentia Avenue to Hospital Road	4	16	21,400	40	0	2.0%	1.0%	65.4	-	109	345	1,091	100	16,628	2,718	2,054	374	191	22	6	32	17	67.4	76.3	81.2	-2.9	64.4	57.0	58.9	66.0	61.4	49.4	48.7	61.9	48.6	47.5	49.7	53.5	34	109	345	1091	3450
99	Superior Avenue	Hospital Road to PCH	4	15	17,600	40	0	2.0%	1.0%	64.5	-	90	283	896	100	13,675	2,235	1,690	308	157	18	5	26	14	67.4	76.3	81.2	-2.9	63.5	56.1	58.1	65.2	60.6	48.6	47.9	61.0	47.8	46.7	48.8	52.6	28	90	283	896	2833
100	Balboa Boulevard	PCH to 32nd Street	5	12	19,000	30	0	2.0%	1.0%	62.8	-	60	189	598	100	14,763	2,413	1,824	332	169	19	5	29	15	62.5	73.1	80.3	-2.9	60.3	54.6	58.8	63.3	57.3	47.0	48.6	58.2	44.6	45.1	49.6	51.8	19	60	189	598	1890
101	Marguerite Avenue	South of San Joaquin Hills Road	4	11	11,000	40	0	2.0%	1.0%	62.5	-	56	176	557	100	8,547	1,397	1,056	192	98	11	3	17	9	67.4	76.3	81.2	-3.0	61.4	54.1	56.0	63.1	58.5	46.5	45.8	59.0	45.7	44.6	46.8	50.6	18	56	176	557	1761
102	Marguerite Avenue	North of PCH	2	2	5,600	25	0	2.0%	1.0%	55.8	-	-	38	121	100	4,351	711	538	98	50	6	2	8	5	59.4	71.1	78.7	-3.1	52.5	47.8	52.6	56.2	49.6	40.3	42.4	50.7	36.8	38.4	43.3	45.2	4	12	38	121	382
103	Placentia Avenue	Superior Avenue to Hospital Road	2	12	8,700	40	0	2.0%	1.0%	61.3	-	43	136	431	100	6,760	1,105	835	152	78	9	2	13	7	67.4	76.3	81.2	-3.0	60.3	53.0	54.9	62.0	57.4	45.4	44.7	57.9	44.6	43.5	45.6	49.4	14	43	136	431	1364
104	Placentia Avenue	West of Superior Avenue	4	12	14,800	40	0	2.0%	1.0%	63.8	-	75	237	750	100	11,500	1,880	1,421	259	132	15	4	22	12	67.4	76.3	81.2	-3.0	62.7	55.4	57.3	64.4	59.8	47.8	47.1	60.3	47.0	45.9	48.0	51.8	24	75	237	750	2373

¹ Distance is from the centerline of the roadway segment to the receptor location.
 *- = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Newport Beach HEU
 Project Number: 94698008
 Scenario: Horizon Year
 Ldn/CNEL: CNEL

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%

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix					Distance from Centerline of Roadway					Traffic Volumes												Ref. Energy Levels			Dist. Ld				Ln				DISTANCE TO CONTOUR (2)				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	Calc Dist	Day	Even	Night	MTd	HTd	MTe	HTe	MTr	HTr	A	MT	HT	Adj	A	MT	HT	Total	A	MT	HT	Total	A	MT	HT	Total	70 CNEL	65 CNEL	60 CNEL	55 CNEL	50 CNEL
								2.0%	1.0%	68.4	70	221	698	2,206	100	24,942	4,077	3,082	561	286	32	9	48	26	69.3	77.6	82.1	-2.8	67.7	59.7	61.3	69.1	64.8	52.1	51.1	65.2	52.0	50.2	52.0	56.3	70	221	698	2,206	6976
1	Campus Drive	Dove to Quail	6	9	32,100	45	0	2.0%	1.0%	68.4	70	221	698	2,206	100	24,942	4,077	3,082	561	286	32	9	48	26	69.3	77.6	82.1	-2.8	67.7	59.7	61.3	69.1	64.8	52.1	51.1	65.2	52.0	50.2	52.0	56.3	70	221	698	2,206	6976
2	Campus Drive	Bristol to Orchard Drive	6	17	30,600	50	0	2.0%	1.0%	69.4	87	274	868	2,745	100	23,776	3,886	2,938	535	273	31	9	46	25	71.1	78.8	83.0	-2.7	68.9	60.3	61.6	70.1	65.9	52.7	51.4	66.3	53.2	50.8	52.3	57.0	87	274	868	2,745	8680
3	Invine Avenue	Mesa Drive to Del Mar Avenue	4	11	35,500	45	0	2.0%	1.0%	68.7	74	236	745	2,356	100	27,594	4,509	3,408	621	316	36	10	53	29	69.3	77.6	82.1	-3.0	68.0	60.0	61.6	69.4	65.0	52.4	51.4	65.5	52.3	50.5	52.3	56.5	74	236	745	2,356	7449
4	Invine Avenue	Del Mar Avenue to Monte Vista Avenue	4	15	35,100	25	0	2.0%	1.0%	63.9	-	78	247	780	100	27,273	4,458	3,370	614	313	35	10	53	28	59.4	71.1	78.7	-2.9	60.6	56.0	60.7	64.3	57.7	48.4	50.5	58.8	44.9	46.5	51.4	53.3	25	78	247	780	2467
5	Invine Avenue	23rd to 22nd Street	4	17	36,200	35	0	2.0%	1.0%	66.4	-	138	435	1,377	100	28,127	4,597	3,475	633	323	37	10	54	29	65.1	74.8	80.0	-2.9	65.0	58.4	60.7	67.0	62.0	50.8	50.5	62.6	49.2	48.9	51.4	54.8	44	138	435	1,377	4353
6	Invine Avenue	22nd to 20th Street	4	20	32,500	40	0	2.0%	1.0%	67.2	-	167	527	1,666	100	25,253	4,128	3,120	568	290	33	9	49	26	67.4	76.3	81.2	-2.9	66.2	58.8	60.8	67.9	63.2	51.2	50.6	63.7	50.5	49.4	51.5	55.3	53	167	527	1,666	5269
7	Invine Avenue	20th to 19th Street	4	20	33,900	40	0	2.0%	1.0%	67.4	55	174	550	1,738	100	26,340	4,305	3,254	593	302	34	10	51	27	67.4	76.3	81.2	-2.9	66.4	59.0	60.9	68.1	63.4	51.4	50.8	63.9	50.6	49.6	51.7	55.5	55	174	550	1,738	5496
8	Invine Avenue	19th to 17th Street	4	26	27,600	40	0	2.0%	1.0%	66.6	-	143	452	1,429	100	21,445	3,505	2,650	483	246	28	8	42	22	67.4	76.3	81.2	-2.9	65.5	58.2	60.1	67.2	62.6	50.6	49.9	63.1	49.8	48.7	50.8	54.6	45	143	452	1,429	4519
9	Jamboree Road	North of Campus Drive	6	15	44,200	50	0	2.0%	1.0%	71.0	125	395	1,248	3,947	100	34,343	5,613	4,243	773	394	45	13	66	36	71.1	78.8	83.0	-2.7	70.5	61.8	63.1	71.7	67.5	54.2	53.0	67.9	54.7	52.4	53.9	58.5	125	395	1,248	3,947	12483
10	Jamboree Road	Campus Drive to Birch Street	6	25	48,300	50	0	2.0%	1.0%	71.5	140	442	1,397	4,418	100	37,529	6,134	4,637	845	430	49	14	73	39	71.1	78.8	83.0	-2.6	71.0	62.3	63.6	72.2	68.0	54.7	53.5	68.4	55.2	52.9	54.4	59.0	140	442	1,397	4,418	13970
11	Jamboree Road	Birch Street to Bristol	6	20	44,800	55	0	2.0%	1.0%	72.1	161	510	1,613	5,101	100	34,810	5,690	4,301	783	399	45	13	67	36	72.7	79.9	83.8	-2.7	71.8	62.6	63.6	72.8	68.8	55.0	53.5	69.1	56.0	53.1	54.4	59.5	161	510	1,613	5,101	16132
12	Jamboree Road	Bristol to Bayview Way	8	15	53,400	55	0	2.0%	1.0%	73.1	203	641	2,028	6,415	100	41,492	6,782	5,126	934	476	54	15	80	43	72.7	79.9	83.8	-2.5	72.8	63.6	64.6	73.8	69.8	56.0	54.4	70.1	57.0	54.1	55.4	60.4	203	641	2,028	6,415	20285
13	Jamboree Road	Bayview Way to University Road	6	17	50,600	55	0	2.0%	1.0%	72.6	181	572	1,809	5,722	100	39,316	6,426	4,858	885	451	51	14	76	41	72.7	79.9	83.8	-2.7	72.3	63.1	64.1	73.3	69.3	55.5	54.0	69.6	56.5	53.6	54.9	60.0	181	572	1,809	5,722	18094
14	Jamboree Road	University Road to Bison Avenue	6	17	49,000	55	0	2.0%	1.0%	72.4	175	554	1,752	5,541	100	38,073	6,223	4,704	857	437	49	14	74	39	72.7	79.9	83.8	-2.7	71.2	62.9	64.0	73.2	69.2	55.4	53.8	69.5	56.4	53.5	54.7	59.8	175	554	1,752	5,541	17522
15	Jamboree Road	Bison Avenue to Ford Road	6	17	46,700	55	0	2.0%	1.0%	72.2	167	528	1,752	5,281	100	36,286	5,931	4,483	817	416	47	13	70	38	72.7	79.9	83.8	-2.7	71.9	62.7	63.8	73.0	69.0	55.2	53.6	69.3	56.2	53.3	54.5	59.6	167	528	1,752	5,281	16700
16	Jamboree Road	Ford Road to San Joaquin Hills Road	6	28	57,500	55	0	2.0%	1.0%	73.2	211	668	2,113	6,683	100	44,678	7,303	5,520	1,005	512	58	16	86	46	72.7	79.9	83.8	-2.6	73.0	63.8	64.8	74.0	70.0	56.2	54.6	70.3	57.2	54.3	55.6	60.6	211	668	2,113	6,683	21133
17	Jamboree Road	San Joaquin Hills Road to Santa Barbara Drive	6	27	44,600	55	0	2.0%	1.0%	72.1	163	517	1,635	5,169	100	34,654	5,664	4,282	780	397	45	13	67	36	72.7	79.9	83.8	-2.6	71.8	62.7	63.8	72.9	68.9	55.1	53.5	69.2	56.1	53.2	54.4	59.5	163	517	1,635	5,169	16347
18	Jamboree Road	Santa Barbara Drive to Back Bay Drive	6	17	35,400	55	0	2.0%	1.0%	71.0	127	400	1,266	4,003	100	27,506	4,496	3,398	619	315	36	10	53	29	72.7	79.9	83.8	-2.7	70.7	61.5	62.6	71.8	67.8	53.9	52.4	68.1	55.0	52.1	53.3	58.4	127	400	1,266	4,003	12659
19	Jamboree Road	Back Bay Drive to PCH	5	17	40,100	55	0	2.0%	1.0%	71.5	140	443	1,399	4,425	100	31,158	5,093	3,850	701	357	41	11	60	32	72.7	79.9	83.8	-2.8	71.2	62.0	63.0	72.2	68.2	54.4	52.8	68.5	55.4	52.5	53.8	58.8	140	443	1,399	4,425	13993
20	Jamboree Road	PCH to Bayside Drive	4	13	13,200	35	0	2.0%	1.0%	62.0	-	158	499	1,499	100	10,256	1,676	1,267	231	118	13	4	20	11	65.1	74.8	80.0	-2.9	60.6	54.0	56.3	62.6	57.6	46.4	46.1	58.2	44.8	44.5	47.0	50.4	16	50	158	499	1579
21	University Road	SR 73 to Jamboree Road	4	25	17,000	50	0	2.0%	1.0%	66.7	-	148	467	1,478	100	13,209	2,159	1,632	297	151	17	5	26	14	71.1	78.8	83.0	-2.9	66.2	57.6	58.9	67.4	63.3	50.0	48.7	63.6	50.5	48.1	49.6	54.4	47	148	467	1,478	4673
22	MacArthur Boulevard	North of Campus Drive	8	16	47,400	55	0	2.0%	1.0%	72.6	181	571	1,807	5,713	100	36,830	6,020	4,550	829	422	48	13	71	38	72.7	79.9	83.8	-2.5	72.3	63.1	64.1	73.3	69.3	55.5	53.9	69.6	56.5	53.6	54.9	59.9	181	571	1,807	5,713	18065
23	MacArthur Boulevard	Campus Drive to Birch Street	8	21	30,800	55	0	2.0%	1.0%	70.8	119	378	1,194	3,777	100	23,932	3,912	2,957	539	274	31	9	46	25	72.7	79.9	83.8	-2.7	70.5	61.3	62.3	70.5	66.5	53.7	52.1	67.8	54.7	51.8	53.1	58.1	119	378	1,194	3,777	11945
24	MacArthur Boulevard	Birch Street to Van Karman Avenue	6	16	20,600	55	0	2.0%	1.0%	68.7	73	232	735	2,324	100	16,006	2,616	1,978	360	184	21	6	31	17	72.7	79.9	83.8	-2.7	68.4	59.2	60.2	69.4	65.4	51.6	50.0	65.7	52.6	49.7	51.0	56.0	73	232	735	2,324	7350
25	MacArthur Boulevard	Van Karman to Jamboree Road	6	28	39,000	55	0	2.0%	1.0%	71.6	143	453	1,433	4,533	100	30,303	4,953	3,744	682	347	39	11	59	31	72.7	79.9	83.8	-2.6	71.1	62.7	63.8	72.2	68.3	54.5	52.9	68.6	55.5	52.6	53.9	58.9	143				

89	San Joaquin Hills Road	San Miguel Drive to Marguerite Avenue	6	17	21,500	50	0	2.0%	1.0%	67.9	-	193	610	1,929	100	16,706	2,731	2,064	376	192	22	6	32	17	71.1	78.8	83.0	-2.7	67.4	58.7	60.0	68.6	64.4	51.1	49.9	64.8	51.6	49.3	50.8	55.4	61	193	610	1929	6099
90	San Joaquin Hills Road	Marguerite Avenue to Spyglass Hill Road	4	16	18,200	55	0	2.0%	1.0%	67.9	62	197	622	1,967	100	14,141	2,311	1,747	318	162	18	5	27	15	72.7	79.9	83.8	-2.9	67.6	58.4	59.5	68.7	64.7	50.9	49.3	65.0	51.9	49.0	50.2	55.3	62	197	622	1967	6220
91	San Joaquin Hills Road	East of Spyglass Hill Road	4	22	18,700	55	0	2.0%	1.0%	68.1	64	204	645	2,039	100	14,530	2,375	1,795	327	167	19	5	28	15	72.7	79.9	83.8	-2.9	67.8	58.6	59.6	68.8	64.8	51.0	49.5	65.1	52.1	49.1	50.4	55.5	64	204	645	2039	6448
92	San Joaquin Hills Road	West of Newport Coast Drive	4	25	17,300	55	0	2.0%	1.0%	67.8	60	190	599	1,896	100	13,442	2,197	1,661	303	154	17	5	26	14	72.7	79.9	83.8	-2.9	67.5	58.3	59.3	68.5	64.5	50.7	49.2	64.8	51.7	48.8	50.1	55.2	60	190	599	1896	5995
93	Santa Barbara Drive	Jamboree Road to the Circle	5	12	14,600	45	0	2.0%	1.0%	64.9	-	99	312	987	100	11,344	1,854	1,402	255	130	15	4	22	12	69.3	77.6	82.1	-2.9	64.2	56.2	57.8	65.6	61.3	48.6	47.6	61.7	48.5	46.7	48.5	52.8	31	99	312	987	3122
94	Santa Cruz Drive	San Joaquin Hill Road to the Circle	4	12	12,400	35	0	2.0%	1.0%	61.7	-	-	148	468	100	9,635	1,575	1,190	217	110	13	4	19	10	65.1	74.8	80.0	-3.0	60.3	53.7	56.0	62.3	57.3	46.1	45.8	57.9	44.6	44.2	46.7	50.1	15	47	148	468	1481
95	Santa Rosa Drive	San Joaquin Hill Road to the Circle	4	7	10,900	30	0	2.0%	1.0%	60.2	-	-	106	335	100	8,469	1,384	1,046	191	97	11	3	16	9	62.5	73.1	80.3	-3.0	57.8	52.1	56.3	60.7	54.8	44.5	46.1	55.7	42.0	42.6	47.0	49.3	11	33	106	335	1059
96	Avocado Avenue	San Miguel road to PCH	4	13	15,300	45	0	2.0%	1.0%	65.1	-	102	322	1,018	100	11,888	1,943	1,469	268	136	15	4	23	12	69.3	77.6	82.1	-2.9	64.4	56.3	57.9	65.8	61.4	48.7	47.7	61.8	48.6	46.9	48.7	52.9	32	102	322	1018	3219
97	Superior Avenue	17th Street to Placentia Avenue	4	16	17,900	35	0	2.0%	1.0%	63.3	-	68	215	680	100	13,908	2,273	1,718	313	159	18	5	27	14	65.1	74.8	80.0	-2.9	61.9	55.3	57.6	63.9	59.0	47.7	47.4	59.6	46.2	45.9	48.4	51.7	21	68	215	680	2149
98	Superior Avenue	Placentia Avenue to Hospital Road	4	16	22,300	40	0	2.0%	1.0%	65.6	-	114	359	1,137	100	17,327	2,832	2,141	390	199	23	6	34	18	67.4	76.3	81.2	-2.9	64.5	57.2	59.1	66.2	61.6	49.6	48.9	62.1	48.8	47.7	49.9	53.6	36	114	359	1137	3595
99	Superior Avenue	Hospital Road to PCH	4	15	18,300	40	0	2.0%	1.0%	64.7	-	93	295	932	100	14,219	2,324	1,757	320	163	18	5	28	15	67.4	76.3	81.2	-2.9	63.7	56.3	58.2	65.3	60.7	48.7	48.1	61.2	47.9	46.9	49.0	52.8	29	93	295	932	2946
100	Balboa Boulevard	PCH to 32nd Street	5	12	21,200	30	0	2.0%	1.0%	63.2	-	67	211	667	100	16,472	2,692	2,035	371	189	21	6	32	17	62.5	73.1	80.3	-2.9	60.8	55.1	59.3	63.7	57.8	47.5	49.1	58.7	45.0	45.6	50.0	52.3	21	67	211	667	2109
101	Marguerite Avenue	South of San Joaquin Hills Road	4	11	11,300	40	0	2.0%	1.0%	62.6	-	57	181	572	100	8,780	1,435	1,085	198	101	11	3	17	9	67.4	76.3	81.2	-3.0	61.6	54.2	56.1	63.2	58.6	46.6	45.9	59.1	45.8	44.7	46.9	50.7	18	57	181	572	1810
102	Marguerite Avenue	North of PCH	2	2	5,800	25	0	2.0%	1.0%	56.0	-	-	40	125	100	4,507	737	557	101	52	6	2	9	5	59.4	71.1	78.7	-3.1	52.7	48.0	52.7	56.4	49.7	40.4	42.6	50.9	36.9	38.5	43.5	45.4	4	12	40	125	395
103	Placentia Avenue	Superior Avenue to Hospital Road	2	12	9,000	40	0	2.0%	1.0%	61.5	-	45	141	446	100	6,993	1,143	864	157	80	9	3	14	7	67.4	76.3	81.2	-3.0	60.5	53.1	55.0	62.2	57.5	45.5	44.9	58.0	44.7	43.7	45.8	49.6	14	45	141	446	1411
104	Placentia Avenue	West of Superior Avenue	4	12	15,300	40	0	2.0%	1.0%	63.9	-	78	245	776	100	11,888	1,943	1,469	268	136	15	4	23	12	67.4	76.3	81.2	-3.0	62.9	55.5	57.4	64.6	59.9	47.9	47.3	60.4	47.1	46.1	48.2	52.0	25	78	245	776	2453

¹ Distance is from the centerline of the roadway segment to the receptor location.
 - = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Newport Beach HEU
 Project Number: 94698008
 Scenario: Horizon Year Plus Project
 Ldn/CNEL: CNEL

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

#	Roadway	Segment	Lanes	Median Width	ADT Volume	Speed (mph)	Alpha Factor	Vehicle Mix					Distance from Centerline of Roadway					Calc Dist	Traffic Volumes											Ref. Energy Levels		Dist. Ld				Le				Ln				DISTANCE TO CONTOUR (2)				
								Medium Trucks	Heavy Trucks	CNEL at 100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	Day	Even	Night		MTd	HTd	MTe	HTe	MTn	HTn	A	MT	HT	Adj	A	MT	HT	Total	A	MT	HT	Total	A	MT	HT	Total	70 CNEL	65 CNEL	60 CNEL	55 CNEL	50 CNEL			
								2.0%	1.0%	68.5	71	226	715	2,261	100	25,563	4,178		3,158	575	293	33	9	49	27	69.3	77.6	82.1	-2.8	67.8	59.8	61.4	69.2	64.9	52.2	51.2	65.3	52.1	50.3	52.1	56.4	71	226	715	2,261	7150		
1	Campus Drive	Dove to Quail	6	9	32,900	45	0	2.0%	1.0%	68.5	71	226	715	2,261	100	25,563	4,178	3,158	575	293	33	9	49	27	69.3	77.6	82.1	-2.8	67.8	59.8	61.4	69.2	64.9	52.2	51.2	65.3	52.1	50.3	52.1	56.4	71	226	715	2,261	7150			
2	Campus Drive	Bristol to Orchard Drive	6	17	32,400	50	0	2.0%	1.0%	69.6	92	291	919	2,906	100	25,175	4,115	3,110	567	289	33	9	49	26	71.1	78.8	83.0	-2.7	69.2	60.5	61.8	70.4	66.2	52.9	51.6	66.5	53.4	51.0	52.6	57.2	92	291	919	2,906	9191			
3	Invine Avenue	Mesa Drive to Del Mar Avenue	4	11	37,600	45	0	2.0%	1.0%	69.0	79	250	789	2,496	100	29,215	4,775	3,610	657	335	38	11	57	30	69.3	77.6	82.1	-3.0	68.3	60.2	61.8	69.7	65.3	52.6	51.6	65.7	52.5	50.8	52.6	56.8	79	250	789	2,496	7890			
4	Invine Avenue	Del Mar Avenue to Monte Vista Avenue	4	15	36,000	25	0	2.0%	1.0%	64.0	-	80	253	800	100	27,972	4,572	3,456	629	321	36	10	54	29	59.4	71.1	78.7	-2.9	60.7	56.1	60.8	64.5	57.8	48.5	50.6	59.0	45.0	46.6	51.5	53.4	25	80	253	800	2530			
5	Invine Avenue	23rd to 22nd Street	4	17	37,000	35	0	2.0%	1.0%	66.5	-	141	445	1,407	100	28,749	4,699	3,552	647	330	37	11	56	30	65.1	74.8	80.0	-2.9	65.1	58.5	60.8	67.1	62.1	50.9	50.6	62.7	49.3	49.0	51.5	54.9	44	141	445	1,407	4449			
6	Invine Avenue	22nd to 20th Street	4	20	33,900	40	0	2.0%	1.0%	67.4	55	174	550	1,738	100	26,340	4,305	3,254	593	302	34	10	51	27	67.4	76.3	81.2	-2.9	66.4	59.0	60.9	68.1	63.4	51.4	50.8	63.9	50.6	49.6	51.7	55.5	55	174	550	1,738	5496			
7	Invine Avenue	20th to 19th Street	4	20	35,200	40	0	2.0%	1.0%	67.6	57	180	571	1,805	100	27,350	4,470	3,379	616	314	36	10	53	28	67.4	76.3	81.2	-2.9	66.6	59.2	61.1	68.2	63.6	51.6	50.9	64.1	50.8	49.7	51.9	55.7	57	180	571	1,805	5707			
8	Invine Avenue	19th to 17th Street	4	26	28,600	40	0	2.0%	1.0%	66.7	-	148	468	1,481	100	22,222	3,632	2,746	500	255	29	8	43	23	67.4	76.3	81.2	-2.9	65.7	58.3	60.2	67.4	62.7	50.7	50.1	63.2	50.0	48.9	51.0	54.8	47	148	468	1,481	4682			
9	Jamboree Road	North of Campus Drive	6	15	45,300	50	0	2.0%	1.0%	71.1	128	405	1,279	4,046	100	35,198	5,753	4,349	792	404	46	13	68	37	71.1	78.8	83.0	-2.7	70.6	61.9	63.2	71.8	67.5	54.4	53.1	68.0	54.8	52.5	54.0	58.7	128	405	1,279	4,046	12793			
10	Jamboree Road	Campus Drive to Birch Street	6	25	49,800	50	0	2.0%	1.0%	71.6	144	455	1,440	4,555	100	36,695	6,325	4,781	871	444	50	14	75	40	71.1	78.8	83.0	-2.6	71.1	62.5	63.8	72.3	68.1	54.9	53.6	68.5	55.4	53.0	54.5	59.2	144	455	1,440	4,555	14404			
11	Jamboree Road	Birch Street to Bristol	6	20	47,000	55	0	2.0%	1.0%	72.3	169	535	1,692	5,352	100	36,519	5,969	4,512	822	419	47	13	71	38	72.7	79.9	83.8	-2.7	72.0	62.8	63.8	73.0	69.0	55.2	53.7	69.3	56.3	53.3	54.6	59.7	169	535	1,692	5,352	16924			
12	Jamboree Road	Bristol to Bayview Way	8	15	55,900	55	0	2.0%	1.0%	73.3	212	671	2,123	6,715	100	43,344	7,099	5,366	977	498	56	16	84	45	72.7	79.9	83.8	-2.5	73.0	63.8	64.8	74.0	70.0	56.2	54.6	70.3	57.2	54.3	55.6	60.6	212	671	2,123	6,715	21234			
13	Jamboree Road	Bayview Way to University Road	6	17	53,100	55	0	2.0%	1.0%	72.8	190	600	1,899	6,005	100	41,259	6,744	5,098	929	473	54	15	80	43	72.7	79.9	83.8	-2.7	72.5	63.3	64.3	73.5	69.5	55.7	54.2	69.8	56.7	53.8	55.1	60.2	190	600	1,899	6,005	18998			
14	Jamboree Road	University Road to Bison Avenue	6	17	50,700	55	0	2.0%	1.0%	72.6	181	573	1,813	5,733	100	39,394	6,439	4,867	887	452	51	14	76	41	72.7	79.9	83.8	-2.7	72.3	63.1	64.1	73.3	69.3	55.5	54.0	69.6	56.5	53.6	54.9	60.0	181	573	1,813	5,733	18130			
15	Jamboree Road	Bison Avenue to Ford Road	6	17	48,700	55	0	2.0%	1.0%	72.4	174	551	1,741	5,507	100	37,840	6,185	4,675	852	434	49	14	73	39	72.7	79.9	83.8	-2.7	72.1	62.9	64.0	73.2	69.2	55.3	53.8	69.5	56.4	53.7	54.7	59.8	174	551	1,741	5,507	17415			
16	Jamboree Road	Ford Road to San Joaquin Hills Road	6	28	60,000	55	0	2.0%	1.0%	73.4	221	697	2,205	6,973	100	46,620	7,820	5,760	1,049	535	61	17	90	48	72.7	79.9	83.8	-2.6	73.1	63.9	65.0	74.2	70.2	56.4	54.8	70.5	57.4	54.5	55.7	60.8	221	697	2,205	6,973	22052			
17	Jamboree Road	San Joaquin Hills Road to Santa Barbara Drive	6	27	46,100	55	0	2.0%	1.0%	72.3	169	534	1,690	5,343	100	35,820	5,855	4,426	806	411	47	13	69	37	72.7	79.9	83.8	-2.6	72.0	62.8	63.8	73.0	69.0	55.2	53.7	69.3	56.2	53.3	54.6	59.7	169	534	1,690	5,343	16937			
18	Jamboree Road	Santa Barbara Drive to Back Bay Drive	6	17	40,600	55	0	2.0%	1.0%	71.6	145	459	1,452	4,491	100	31,546	5,156	3,898	710	362	41	12	61	33	72.7	79.9	83.8	-2.7	71.3	62.1	63.2	72.4	68.4	54.5	53.0	68.7	55.6	52.7	53.9	59.0	145	459	1,452	4,491	14518			
19	Jamboree Road	Back Bay Drive to PCH	5	17	40,600	55	0	2.0%	1.0%	71.5	142	448	1,417	4,480	100	31,546	5,156	3,898	710	362	41	12	61	33	72.7	79.9	83.8	-2.8	71.2	62.0	63.1	72.3	68.3	54.4	52.9	68.6	55.5	52.6	53.8	58.9	142	448	1,417	4,480	14168			
20	Jamboree Road	PCH to Bayside Drive	4	13	13,500	35	0	2.0%	1.0%	62.1	-	51	161	511	100	10,490	1,715	1,296	236	120	14	4	20	11	65.1	74.8	80.0	-2.9	60.7	54.1	56.4	62.7	57.7	46.5	46.2	58.3	44.9	44.6	47.1	50.5	16	51	161	511	1614			
21	University Road	SR 73 to Jamboree Road	4	25	17,500	50	0	2.0%	1.0%	66.8	-	152	481	1,521	100	13,598	2,223	1,680	306	156	18	5	26	14	71.1	78.8	83.0	-2.9	66.3	57.7	59.0	67.5	63.4	50.1	48.8	63.7	50.6	48.2	49.8	54.4	48	152	481	1,521	4811			
22	MacArthur Boulevard	North of Campus Drive	8	16	49,900	55	0	2.0%	1.0%	72.8	190	601	1,902	6,014	100	38,772	6,337	4,790	873	445	50	14	75	40	72.7	79.9	83.8	-2.5	72.5	63.3	64.3	73.5	69.5	55.7	54.2	69.8	56.8	53.8	55.1	60.2	190	601	1,902	6,014	19018			
23	MacArthur Boulevard	Campus Drive to Birch Street	8	21	32,900	55	0	2.0%	1.0%	71.1	128	403	1,276	4,035	100	25,563	4,178	3,158	575	293	33	9	49	27	72.7	79.9	83.8	-2.4	70.8	61.6	62.6	71.8	67.8	54.0	52.4	68.1	55.0	52.4	53.4	58.4	128	403	1,276	4,035	12759			
24	MacArthur Boulevard	Birch Street to Van Karman Avenue	6	16	21,600	55	0	2.0%	1.0%	68.9	77	244	771	2,437	100	16,783	2,743	2,074	378	192	22	6	32	17	72.7	79.9	83.8	-2.7	68.6	59.4	60.4	69.6	65.6	51.8	50.2	65.9	52.8	49.9	51.2	56.2	77	244	771	2,437	7707			
25	MacArthur Boulevard	Van Karman Avenue to Jamboree Road	6	28	41,100	55	0	2.0%	1.0%	71.8	151	478	1,511	4,777	100	31,935	5,220	3,946	719	366	42	12	62	33	72.7	79.9	83.8	-2.6	71.5	62.3	63.3	72.5	68.5	54.7	53.2	68.8	55.8	52.8	54.1	59.2	151	478	1,511	4,777	15105			
26	MacArthur Boulevard	Jamboree Road to University Road	6	1																																												

91	San Joaquin Hills Road	East of Spyglass Hill Road	4	22	19,500	55	0	2.0%	1.0%	68.3	67	213	672	2,126	100	15,152	2,477	1,872	341	174	20	6	29	16	72.7	79.9	83.8	-2.9	68.0	58.8	59.8	69.0	65.0	51.2	49.7	65.3	52.2	49.3	50.6	55.7	67	213	672	2126	6724
92	San Joaquin Hills Road	West of Newport Coast Drive	4	25	17,700	55	0	2.0%	1.0%	67.9	61	194	613	1,940	100	13,753	2,248	1,699	310	158	18	5	27	14	72.7	79.9	83.8	-2.9	67.6	58.4	59.4	68.6	64.6	50.8	49.3	64.9	51.8	48.9	50.2	55.3	61	194	613	1940	6134
93	Santa Barbara Drive	Jamboree Road to the Circle	5	12	15,400	45	0	2.0%	1.0%	65.2	-	104	329	1,041	100	11,966	1,956	1,478	269	137	16	4	23	12	69.3	77.6	82.1	-2.9	64.5	56.4	58.0	65.9	61.5	48.8	47.8	61.9	48.7	47.0	48.8	53.0	33	104	329	1041	3293
94	Santa Cruz Drive	San Joaquin Hill Road to the Circle	4	12	12,900	35	0	2.0%	1.0%	61.9	-	-	154	487	100	10,023	1,638	1,238	226	115	13	4	19	10	65.1	74.8	80.0	-3.0	60.5	53.9	56.2	62.5	57.5	46.3	46.0	58.1	44.7	44.4	46.9	50.3	15	49	154	487	1541
95	Santa Rosa Drive	San Joaquin Hill Road to the Circle	4	7	10,500	30	0	2.0%	1.0%	60.1	-	-	102	323	100	8,159	1,334	1,008	184	94	11	3	16	8	62.5	73.1	80.3	-3.0	57.6	51.9	56.1	60.6	54.7	44.3	46.0	55.6	41.9	42.4	46.9	49.1	10	32	102	323	1020
96	Avocado Avenue	San Miguel road to PCH	4	13	15,300	45	0	2.0%	1.0%	65.1	-	102	322	1,018	100	11,888	1,943	1,469	268	136	15	4	23	12	69.3	77.6	82.1	-2.9	64.4	56.3	57.9	65.8	61.4	48.7	47.7	61.8	48.6	46.9	48.7	52.9	32	102	322	1018	3219
97	Superior Avenue	17th Street to Placentia Avenue	4	16	18,300	35	0	2.0%	1.0%	63.4	-	69	220	695	100	14,219	2,324	1,757	320	163	18	5	28	15	65.1	74.8	80.0	-2.9	62.0	55.4	57.7	64.0	59.1	47.8	47.5	59.6	46.3	46.0	48.5	51.8	22	69	220	695	2197
98	Superior Avenue	Placentia Avenue to Hospital Road	4	16	23,100	40	0	2.0%	1.0%	65.7	-	118	372	1,178	100	17,949	2,934	2,218	404	206	23	7	35	19	67.4	76.3	81.2	-2.9	64.7	57.3	59.2	66.4	61.7	49.7	49.1	62.2	49.0	47.9	50.0	53.8	37	118	372	1178	3724
99	Superior Avenue	Hospital Road to PCH	4	15	19,300	40	0	2.0%	1.0%	64.9	-	98	311	982	100	14,996	2,451	1,853	337	172	19	5	29	16	67.4	76.3	81.2	-2.9	63.9	56.5	58.5	65.6	61.0	49.0	48.3	61.4	48.2	47.1	49.2	53.0	31	98	311	982	3107
100	Balboa Boulevard	PCH to 32nd Street	5	12	21,600	30	0	2.0%	1.0%	63.3	-	68	215	679	100	16,783	2,743	2,074	378	192	22	6	32	17	62.5	73.1	80.3	-2.9	60.9	55.1	59.4	63.8	57.9	47.6	49.2	58.8	45.1	45.7	50.1	52.4	21	68	215	679	2149
101	Marguerite Avenue	South of San Joaquin Hills Road	4	11	11,500	40	0	2.0%	1.0%	62.7	-	58	184	582	100	8,936	1,461	1,104	201	102	12	3	17	9	67.4	76.3	81.2	-3.0	61.6	54.3	56.2	63.3	58.7	46.7	46.0	59.2	45.9	44.8	46.9	50.7	18	58	184	582	1842
102	Marguerite Avenue	North of PCH	2	2	5,800	25	0	2.0%	1.0%	56.0	-	-	40	125	100	4,507	737	557	101	52	6	2	9	5	59.4	71.1	78.7	-3.1	52.7	48.0	52.7	56.4	49.7	40.4	42.6	50.9	36.9	38.5	43.5	45.4	4	12	40	125	395
103	Placentia Avenue	Superior Avenue to Hospital Road	2	12	9,700	40	-	2.0%	1.0%	61.8	-	48	152	481	100	7,537	1,232	931	170	86	10	3	15	8	67.4	76.3	81.2	-3.0	60.8	53.4	55.4	62.5	57.8	45.9	45.2	58.3	45.1	44.0	46.1	49.9	15	48	152	481	1521
104	Placentia Avenue	West of Superior Avenue	4	12	15,300	40	0	2.0%	1.0%	63.9	-	78	245	776	100	11,888	1,943	1,469	268	136	15	4	23	12	67.4	76.3	81.2	-3.0	62.9	55.5	57.4	64.6	59.9	47.9	47.3	60.4	47.1	46.1	48.2	52.0	25	78	245	776	2453

¹ Distance is from the centerline of the roadway segment to the receptor location.
 ** = contour is located within the roadway right-of-way.

Noise Level Comparison						
Roadway	Roadway Segment	Future Without Project		Future With Project		Change
		ADT	dBa CNEL at 100 feet from Roadway Centerline	ADT	dBa CNEL at 100 feet from Roadway Centerline	
Campus Drive	Dove to Quail	32,100	68.4	32,900	68.5	0.1
	Bristol to Orchard Drive	30,600	69.4	32,400	69.6	0.2
Irvine Avenue	Mesa Drive to Del Mar Avenue	35,500	68.7	37,600	69.0	0.2
	Del Mar Avenue to Monte Vista Avenue	35,100	63.9	36,000	64.0	0.1
	23rd to 22nd Street	36,200	66.4	37,000	66.5	0.1
	22nd to 20th Street	32,500	67.2	33,900	67.4	0.2
	20th to 19th Street	33,900	67.3	35,200	67.5	0.2
Jamboree Road	19th to 17th Street	27,600	66.4	28,600	66.6	0.2
	North of Campus Drive	44,200	70.8	45,300	70.9	0.1
	Campus Drive to Birch Street	48,300	71.2	49,800	71.3	0.1
	Birch Street to Bristol	44,800	71.8	47,000	72.0	0.2
	Bristol to Bayview Way	53,400	72.7	55,900	72.9	0.2
	Bayview Way to University Road	50,600	72.2	53,100	72.4	0.2
	University Road to Bison Avenue	49,000	72.0	50,700	72.2	0.1
	Bison Avenue to Ford Road	46,700	71.7	48,700	71.9	0.2
	Ford Road to San Joaquin Hills Road	57,500	72.7	60,000	72.9	0.2
	San Joaquin Hills Road to Santa Barbara Drive	44,600	71.5	46,100	71.7	0.1
	Santa Barbara Drive to Back Bay Drive	35,400	70.4	40,600	71.0	0.6
University Road	Back Bay Drive to PCH	40,100	70.8	40,600	70.9	0.1
	PCH to Bayside Drive	13,200	61.3	13,500	61.4	0.1
	SR 73 to Jamboree Road	17,000	66.0	17,500	66.1	0.1
	North of Campus Drive	47,400	71.7	49,900	71.9	0.2
	Campus Drive to Birch Street	30,800	69.8	32,900	70.1	0.3
	Birch Street to Van Karman Avenue	20,600	67.8	21,600	68.0	0.2
	Van Karman to Jamboree Road	39,000	70.6	41,100	70.8	0.2
	Jamboree Road to University Road	37,300	71.2	38,000	71.3	0.1
	University Road to Bison Avenue	68,100	73.0	69,400	73.1	0.1
	Bison Avenue to Ford Road	71,200	73.3	74,000	73.5	0.2
MacArthur Boulevard	South of Ford Road	64,300	73.7	64,900	73.7	0.0
	North of San Joaquin Hills Road	64,300	73.5	64,900	73.6	0.0
	San Joaquin Hills Road to San Miguel Drive	38,500	70.3	39,700	70.5	0.1
	San Miguel Drive to PCH	44,300	70.8	44,700	70.8	0.0
	Bonita Canyon Drive to Spyglass Hill Road	20,100	66.2	20,100	66.2	0.0
San Miguel Drive	South of Spyglass Hill Road	16,000	65.2	16,000	65.2	0.0
	North of San Joaquin Hills Road	16,000	65.2	16,000	65.2	0.0
	San Joaquin Hills Road to MacArthur Boulevard	13,700	62.2	13,700	62.2	0.0
	SR 73 to San Joaquin Hills Road	26,800	69.4	29,400	69.8	0.4
Newport Coast Drive	South of San Joaquin Hills Road	24,400	69.0	24,900	69.1	0.1
	North of PCH	24,200	68.9	24,400	68.9	0.0
	17th to Hospital Road	45,500	69.7	45,800	69.7	0.0
SR 55/Newport Boulevard	Hospital Road to PCH	51,700	69.0	52,400	69.1	0.1
	Via Lido to 32nd Street	30,600	65.6	30,800	65.6	0.0
	32nd Street to West Balboa Boulevard	22,600	62.2	22,800	62.2	0.0
	North of Campus Drive	24,100	65.6	24,900	65.7	0.1
Von Karman Avenue	Campus Drive to Birch Street	21,100	63.8	21,400	63.8	0.1
	East of San Miguel Drive	4,200	56.7	4,300	56.8	0.1
Spyglass Hill Road	North of San Joaquin Hills Road	4,200	56.6	4,300	56.7	0.1
	Newport Circuit Drive	23,900	65.5	23,900	65.5	0.0
Dover Drive	19th to 17th Street	14,600	59.8	15,000	60.0	0.1
	17th to 16th Street	26,900	63.4	27,100	63.4	0.0
	16th to Cliff Drive	31,900	66.6	31,700	66.5	0.0
Birch Street	MacArthur Boulevard and SR 73	21,400	64.8	22,200	64.9	0.2
Bristol Street North	West of Campus Drive	44,400	67.9	45,300	68.0	0.1
Bristol Street South	West of Campus Drive	26,400	65.6	27,000	65.7	0.1
Bristol Street South	East of Birch Street	23,100	65.0	23,800	65.1	0.1
Campus Drive	West of Jamboree Road	38,300	67.2	38,600	67.2	0.0
	MacArthur Boulevard to Von Karman Avenue	21,100	64.6	27,800	65.8	1.2
Campus Drive	Von Karman Avenue to Jamboree Road	21,100	64.5	21,800	64.7	0.1
Mesa Drive	Jamboree Road to University Road	30,200	66.1	30,500	66.1	0.0
	SR 55 to Irvine Avenue	11,100	59.2	11,100	59.2	0.0
Birch Street	Irvine Avenue to SR 73	15,100	63.0	15,500	63.1	0.1
22nd Street	East of SR 55	4,600	54.4	4,600	54.4	0.0
19th Street	East of SR 55	7,600	55.2	7,600	55.2	0.0
17th Street	Irvine Avenue to Dover Drive	17,300	61.1	17,900	61.2	0.1
PCH	West of Superior Avenue	55,100	69.7	56,100	69.8	0.1
	Superior Avenue to SR 55	46,700	67.9	47,200	68.0	0.0
	SR 55 to Riverside Avenue	65,300	68.0	66,400	68.1	0.1
	Riverside Avenue to Dover Drive	50,800	68.1	51,700	68.2	0.1
	Dover Drive to Bayside Drive	71,200	69.6	72,900	69.7	0.1
	Bayside Drive to Jamboree Road	65,600	70.5	66,900	70.6	0.1
	Jamboree Road to Newport Circuit Drive	46,800	68.8	47,800	68.9	0.1
	Newport Circuit Drive to Avocado Avenue	37,900	67.9	38,100	67.9	0.0
	Avocado Avenue to MacArthur Boulevard	37,300	67.8	37,500	67.8	0.0
	MacArthur Boulevard to Goldenrod Avenue	50,400	66.7	50,600	66.7	0.0
	Golden Road Avenue to Marguerite Avenue	50,100	65.5	50,400	65.5	0.0
	Marguerite Avenue to Poppy Avenue	49,800	65.3	50,000	65.4	0.0
	East of Poppy Avenue	45,000	67.3	45,300	67.3	0.0
Bison Avenue	West of Newport Coast Drive	32,400	68.0	32,600	68.0	0.0
	East of Newport Coast Drive	43,300	70.2	43,300	70.2	0.0
	Jamboree Road to MacArthur Boulevard	13,600	62.1	13,500	62.1	0.0
Ford Road	MacArthur Boulevard to SR 73	24,200	65.7	25,100	65.9	0.2
	East of SR 73	35,400	66.2	35,800	66.3	0.0
	West of MacArthur Boulevard	11,300	62.2	11,400	62.3	0.0
Bonita Canyon Drive	East of Jamboree Road	11,300	62.2	11,100	62.1	-0.1
	MacArthur Boulevard to San Miguel Drive	37,600	67.4	38,200	67.5	0.1
San Joaquin Hills Road	Jamboree Road to Santa Cruz Drive	23,400	65.4	24,200	65.6	0.1
	Santa Cruz Drive to Santa Rosa Drive	15,500	63.6	15,200	63.6	-0.1
	Santa Rosa Drive to MacArthur Boulevard	25,600	65.8	25,600	65.8	0.0
	San Miguel Drive to Marguerite Avenue	21,500	65.0	21,700	65.0	0.0
	Marguerite Avenue to Spyglass Hill Road	18,200	65.2	18,200	65.2	0.0
	East of Spyglass Hill Road	18,700	65.3	19,500	65.4	0.2
Santa Barbara Drive	West of Newport Coast Drive	17,300	64.9	17,700	65.0	0.1
Santa Cruz Drive	Jamboree Road to the Circle	14,600	62.1	15,400	62.3	0.2
Santa Rosa Drive	San Joaquin Hill Road to the Circle	12,400	58.8	12,900	59.0	0.2
Avocado Avenue	San Joaquin Hill Road to the Circle	10,900	57.4	10,500	57.2	-0.2
Superior Avenue	San Miguel road to PCH	15,300	62.2	15,300	62.2	0.0
	17th Street to Placencia Avenue	17,900	60.4	18,300	60.5	0.1
	Placencia Avenue to Hospital Road	22,300	62.6	23,100	62.7	0.2
Balboa Boulevard	Hospital Road to PCH	18,300	61.7	19,300	61.9	0.2
	PCH to 32nd Street	21,200	60.2	21,600	60.3	0.1
Marguerite Avenue	South of San Joaquin Hills Road	11,300	59.5	11,500	59.6	0.1
	North of PCH	5,800	53.0	5,800	53.0	0.0
Placencia Avenue	Superior Avenue to Hospital Road	9,000	58.5	9,700	58.8	0.3
	West of Superior Avenue	15,300	60.9	15,300	60.9	0.0

Average Daily Traffic					
	Road Name	Roadway Segment	Existing	GP Buildout	GP HE Update
1	Campus Drive	Dove to Quail	29100.0	32100.0	32900.0
2	Campus Drive	Bristol to Orchard Drive	28400.0	30600.0	32400.0
3	Irvine Avenue	Mesa Drive to Del Mar Avenue	30600.0	35500.0	37600.0
4	Irvine Avenue	Del Mar Avenue to Monte Vista Avenue	34700.0	35100.0	36000.0
5	Irvine Avenue	23rd to 22nd Street	35100.0	36200.0	37000.0
6	Irvine Avenue	22nd to 20th Street	30700.0	32500.0	33900.0
7	Irvine Avenue	20th to 19th Street	32100.0	33900.0	35200.0
8	Irvine Avenue	19th to 17th Street	22300.0	27600.0	28600.0
9	Jamboree Road	North of Campus Drive	40100.0	44200.0	45300.0
10	Jamboree Road	Campus Drive to Birch Street	43100.0	48300.0	49800.0
11	Jamboree Road	Birch Street to Bristol	41700.0	44800.0	47000.0
12	Jamboree Road	Bristol to Bayview Way	48600.0	53400.0	55900.0
13	Jamboree Road	Bayview Way to University Road	50500.0	50600.0	53100.0
14	Jamboree Road	University Road to Bison Avenue	43000.0	49000.0	50700.0
15	Jamboree Road	Bison Avenue to Ford Road	41700.0	46700.0	48700.0
16	Jamboree Road	Ford Road to San Joaquin Hills Road	53500.0	57500.0	60000.0
17	Jamboree Road	San Joaquin Hills Road to Santa Barbara Drive	40500.0	44600.0	46100.0
18	Jamboree Road	Santa Barbara Drive to Back Bay Drive	35400.0	40100.0	40600.0
19	Jamboree Road	Back Bay Drive to PCH	35400.0	40100.0	40600.0
20	Jamboree Road	PCH to Bayside Drive	11500.0	13200.0	13500.0
21	University Road	SR 73 to Jamboree Road	13800.0	17000.0	17500.0
22	MacArthur Boulevard	North of Campus Drive	44600.0	47400.0	49900.0
23	MacArthur Boulevard	Campus Drive to Birch Street	29500.0	30800.0	32900.0
24	MacArthur Boulevard	Birch Street to Van Karman Avenue	18100.0	20600.0	21600.0
25	MacArthur Boulevard	Van Karman to Jamboree Road	37800.0	39000.0	41100.0
26	MacArthur Boulevard	Jamboree Road to University Road	36800.0	37300.0	38000.0
27	MacArthur Boulevard	University Road to Bison Avenue	67300.0	68100.0	69400.0
28	MacArthur Boulevard	Bison Avenue to Ford Road	70600.0	71200.0	74000.0
29	MacArthur Boulevard	South of Ford Road	61800.0	64300.0	64900.0
30	MacArthur Boulevard	North of San Joaquin Hills Road	61800.0	64300.0	64900.0
31	MacArthur Boulevard	San Joaquin Hills Road to San Miguel Drive	37800.0	38500.0	39700.0
32	MacArthur Boulevard	San Miguel Drive to PCH	41800.0	44300.0	44700.0
33	San Miguel Drive	Bonita Canyon Drive to Spyglass Hill Road	19500.0	20100.0	20100.0
34	San Miguel Drive	South of Spyglass Hill Road	15300.0	16000.0	16000.0
35	San Miguel Drive	North of San Joaquin Hills Road	15300.0	16000.0	16000.0
36	San Miguel Drive	San Joaquin Hills Road to MacArthur Boulevard	13100.0	13700.0	13700.0
37	Newport Coast Drive	SR 73 to San Joaquin Hills Road	26800.0	28300.0	29400.0
38	Newport Coast Drive	South of San Joaquin Hills Road	24000.0	24400.0	24900.0
39	Newport Coast Drive	North of PCH	24000.0	24200.0	24400.0
40	SR 55/Newport Boulevard	17th to Hospital Road	43600.0	45500.0	45800.0
41	SR 55/Newport Boulevard	Hospital Road to PCH	48700.0	51700.0	52400.0
42	SR 55/Newport Boulevard	Via Lido to 32nd Street	30000.0	30600.0	30800.0
43	SR 55/Newport Boulevard	32nd Street to West Balboa Boulevard	22600.0	22600.0	22800.0
44	Von Karman Avenue	North of Campus Drive	19300.0	24100.0	24900.0
45	Von Karman Avenue	Campus Drive to Birch Street	17700.0	20200.0	21400.0
46	Spyglass Hill Road	East of San Miguel Drive	3200.0	4200.0	4300.0
47	Spyglass Hill Road	North of San Joaquin Hills Road	3200.0	4200.0	4300.0
48	Newport Circuit Drive	Circle to PCH	22900.0	23900.0	23900.0
49	Dover Drive	19th to 17th Street	14400.0	14600.0	15000.0
50	Dover Drive	17th to 16th Street	25900.0	26900.0	27100.0
51	Dover Drive	16th to Cliff Drive	29700.0	31900.0	31700.0
52	Birch Street	MacArthur Boulevard and SR 73	19400.0	21400.0	22200.0
53	Bristol Street North	West of Campus Drive	41600.0	44400.0	45300.0
54	Bristol Street South	West of Campus Drive	24700.0	26400.0	27000.0
55	Bristol Street South	East of Birch Street	20600.0	23100.0	23800.0
56	Bristol Street South	West of Jamboree Road	34900.0	37800.0	38600.0
57	Campus Drive	MacArthur Boulevard to Von Karman Avenue	22700.0	27100.0	27800.0
58	Campus Drive	Von Karman Avenue to Jamboree Road	18400.0	21100.0	21800.0
59	Campus Drive	Jamboree Road to University Road	22700.0	30200.0	30500.0
60	Mesa Drive	SR 55 to Irvine Avenue	10800.0	11100.0	11100.0
61	Birch Street	Irvine Avenue to SR 73	13200.0	15100.0	15500.0
62	22nd Street	East of SR 55	4500.0	4600.0	4600.0
63	19th Street	East of SR 55	7300.0	7600.0	7600.0
64	17th Street	Irvine Avenue to Dover Drive	16300.0	17300.0	17900.0
65	PCH	West of Superior Avenue	51100.0	55100.0	56100.0
66	PCH	Superior Avenue to SR 55	43400.0	46700.0	47200.0
67	PCH	SR 55 to Riverside Avenue	53500.0	65300.0	66400.0
68	PCH	Riverside Avenue to Dover Drive	49000.0	50800.0	51700.0
69	PCH	Dover Drive to Bayside Drive	64800.0	71200.0	72900.0
70	PCH	Bayside Drive to Jamboree Road	60500.0	65600.0	66900.0
71	PCH	Jamboree Road to Newport Circuit Drive	43300.0	46800.0	47800.0
72	PCH	Newport Circuit Drive to Avocado Avenue	35800.0	37900.0	38100.0
73	PCH	Avocado Avenue to MacArthur Boulevard	34300.0	37300.0	37500.0
74	PCH	MacArthur Boulevard to Goldenrod Avenue	48500.0	50400.0	50600.0
75	PCH	Goldenrod Avenue to Marguerite Avenue	48500.0	50100.0	50400.0
76	PCH	Marguerite Avenue to Poppy Avenue	48500.0	49800.0	50000.0
77	PCH	East of Poppy Avenue	32400.0	45000.0	45300.0
78	PCH	West of Newport Coast Drive	32400.0	32400.0	32600.0
79	PCH	East of Newport Coast Drive	41600.0	43300.0	43300.0
80	Bison Avenue	Jamboree Road to MacArthur Boulevard	7900.0	13600.0	13500.0
81	Bison Avenue	MacArthur Boulevard to SR 73	14400.0	24200.0	25100.0
82	Bison Avenue	East of SR 73	34500.0	35400.0	35800.0
83	Ford Road	West of MacArthur Boulevard	10900.0	11300.0	11400.0
84	Ford Road	East of Jamboree Road	10900.0	11300.0	11100.0
85	Bonita Canyon Drive	MacArthur Boulevard to San Miguel Drive	36600.0	37600.0	38200.0
86	San Joaquin Hills Road	Jamboree Road to Santa Cruz Drive	23400.0	23400.0	24200.0
87	San Joaquin Hills Road	Santa Cruz Drive to Santa Rosa Drive	15000.0	15500.0	15200.0
88	San Joaquin Hills Road	Santa Rosa Drive to MacArthur Boulevard	24600.0	25600.0	25600.0
89	San Joaquin Hills Road	San Miguel Drive to Marguerite Avenue	21000.0	21500.0	21700.0
90	San Joaquin Hills Road	Marguerite Avenue to Spyglass Hill Road	17900.0	18200.0	18200.0
91	San Joaquin Hills Road	East of Spyglass Hill Road	18100.0	18700.0	19500.0
92	San Joaquin Hills Road	West of Newport Coast Drive	16100.0	17300.0	17700.0
93	Santa Barbara Drive	Jamboree Road to the Circle	14400.0	14600.0	15400.0
94	Santa Cruz Drive	San Joaquin Hill Road to the Circle	12300.0	12400.0	12900.0
95	Santa Rosa Drive	San Joaquin Hill Road to the Circle	10500.0	10900.0	10500.0
96	Avocado Avenue	San Miguel road to PCH	15300.0	15300.0	15300.0
97	Superior Avenue	17th Street to Placentia Avenue	17200.0	17900.0	18300.0
98	Superior Avenue	Placentia Avenue to Hospital Road	21400.0	22300.0	23100.0
99	Superior Avenue	Hospital Road to PCH	17600.0	18300.0	19300.0
100	Balboa Boulevard	PCH to 32nd Street	19000.0	21200.0	21600.0
101	Marguerite Avenue	South of San Joaquin Hills Road	11000.0	11300.0	11500.0
102	Marguerite Avenue	North of PCH	5600.0	5800.0	5800.0
103	Placentia Avenue	Superior Avenue to Hospital Road	8700.0	9000.0	9700.0
104	Placentia Avenue	West of Superior Avenue	14800.0	15300.0	15300.0