#### **Noise Element**

#### Introduction

Noise is part of everyday life in a community. *Noise* is generally defined as unwanted sound. Whether a sound is unwanted depends on when and where it occurs, what the listener is doing when it occurs, characteristics of the sound (loudness, pitch and duration, speech or music content, irregularity), and how intrusive it is above background sound levels.

The Noise Element of the General Plan addresses existing and projected noise in the community, sources of noise, land uses sensitive to noise, and noise guidelines and standards for guiding future development.

# **Purpose of the Noise Element**

The Noise Element is one of the required elements of the General Plan. The Noise Element is required to present information on the existing and projected noise environment, existing noise problems, and noise standards. This information is used as a basis for a set of policies and programs that minimize the exposure of community residents to excessive noise.

#### **Noise Fundamentals**

Sound is the result of air pressure fluctuations created by vibration of an object. Sound travels through the air as waves of minute air pressure fluctuations. In general, sound waves travel away from the sound source as an expanding spherical surface. The energy contained in a sound wave is consequently spread over an increasing area as it travels away from the source. This spread results in a decrease in loudness at greater distances from the sound source.

Sound-level meters measure the pressure fluctuations caused by sound waves. Because of the ability of the human ear to respond to a wide, dynamic range of sound pressure fluctuations, loudness is measured in terms of decibels (dB) on a logarithmic scale. This approach yields a scale that measures pressure fluctuations using a convenient notation and corresponds to our auditory perception of increasing loudness.

Most sounds consist of a broad range of sound frequencies. Because the human ear is not equally sensitive to all frequencies, several frequency-weighting schemes have been used to develop composite decibel scales that approximate the way the human ear responds to sound levels. The "A-weighted" decibel scale (dBA) is the most widely used for this purpose. Typical A-weighted sound levels for various types of sound sources are summarized in Table 1.

Table 1. Typical Noise Levels

Common Outdoor Activities	Noise Level (dBA)	Common Indoor Activities
Jet fly-over at 300 meters (1,000 feet)  Gas lawn mower at 1 meter (3 feet)	— 110 — — 100 —	Rock band concert
Diesel truck at 15 meters (50 feet) at 80 kph (50 mph)  Noisy urban area, daytime	90 80	Food blender at 1 meter (3 feet) Garbage disposal at 1 meter (3 feet)
Gas lawn mower, 30 meters (100 feet)  Commercial area  Heavy traffic at 90 meters (300 feet)	— 70 — — 60 —	Vacuum cleaner at 3 meters (10 feet) Normal speech at 1 meter (3 feet)
Quiet urban daytime	<b>— 50 —</b>	Large business office Dishwasher next room
Quiet urban nighttime Quiet suburban nighttime	<del></del>	Theater, large conference room (background)
Quiet rural nighttime	— 30 — — 20 —	Library Bedroom at night
	<b>— 10 —</b>	Broadcast/recording studio
Lowest threshold of human hearing	<b>— 0 —</b>	Lowest threshold of human hearing

Time-varying sound levels are often described in terms of an equivalent constant decibel level. The *equivalent sound level* ( $L_{eq}$ ) is a single-value description of average sound exposure over various periods of time. Such average sound exposure values often are weighted to account for the potential for the sound to annoy people (because of the time of day or other factors). The  $L_{eq}$  data used for these average sound exposure descriptors are generally based on A-weighted sound-level measurements.

Average sound exposure over a 24-hour period is often presented as a *day-night* average sound level ( $L_{dn}$ ).  $L_{dn}$  values are calculated from hourly  $L_{eq}$  values, with the  $L_{eq}$  values for the nighttime period (10:00 p.m.–7:00 a.m.) increased by 10 dB

to reflect the greater potential for nighttime noises to disturb people.  $L_{\text{dn}}$  is commonly accepted as an appropriate descriptor for evaluating community noise exposure.

## **Existing Noise Environment**

Vallejo is a developed, urban city located at the mouth of the Carquinez Straits on the northeast edge of the San Francisco Bay. On the edges of the city, lower-density residential areas abut other suburban development, rural residential, agricultural areas, and bodies of water. In the downtown area, commercial uses, water-related uses, and residential uses coexist.

# **Existing Noise Sources**

In the City of Vallejo, vehicular traffic on roadways is the predominant source of noise. Airplanes and mechanical equipment also contribute to noise, as do intermittent sources such as leaf blowers and construction equipment. Noise levels are typically highest along highways and major traffic corridors.

#### **Traffic and Transportation Noise Sources**

Highways in the city include Interstate 80, Interstate 780, and State Routes 29 and 37. Other major traffic corridors include Admiral Callaghan Lane, Benicia Road, Broadway/Alameda Street, Columbus Parkway, Curtola Parkway, Fairgrounds Drive, Georgia Street, Glen Cove Parkway, Lake Herman Road, Redwood Street/Parkway, Sacramento Street, Tennessee Street, and Tuolumne Street.

Bus traffic in the downtown area contributes to noise levels on major streets. A rail line runs north-south through the city along the eastern edge of the downtown area; however, only one to two trains travel on this line each day. Ferries to and from Vallejo dock at the ferry terminal in downtown Vallejo. Horn noise from the ferries can be heard in the downtown area.

No airports are located near Vallejo. Accordingly, noise from aircraft is limited.

Existing traffic noise contours in the city are summarized in Appendix A.

#### **Industrial Uses**

Industrial uses generate varying levels of noise. There are very few major industrial uses that generate significant noise levels located in Vallejo. Those uses more likely to generate noise impacts are located on Mare Island. Other isolated industrial uses with noise impacts are distributed throughout the City.

Primary noise sources are associated with loading and movement of products as well as some manufacturing or service related noises. The distance across the Mare Island Straits to the mainland significantly limits the extent to which noise from these uses is heard off the island; however, residential and commercial uses are currently being developed on Mare Island.

#### **Commercial Uses**

Commercial uses in Vallejo that generate noise include amusement parks, such as Six Flags Marine World; entertainment uses, such as performance facilities and nightclubs; and other uses, such as retail facilities with noise-generating mechanical equipment or loading docks.

#### Other Noise-Generating Uses

Other noise-generating uses produce more limited levels of noise. These types of uses include recreational uses and institutional uses. Specific noise generators can include equipment such as air conditioning systems and loudspeakers at stadiums or ball fields.

#### **Noise-Sensitive Land Uses**

Noise-sensitive land uses in Vallejo include schools, hospitals, nursing homes, parks, and residential areas. In Vallejo, many of these uses are located in areas of high urban activity and are subject to relatively high outside noise levels.

### **Noise Complaints**

The Police Department is responsible for responding to general noise complaints. Noise complaints are scattered throughout the City; however, there is a concentration of noise complaints in some of the older areas of town where industrial uses abut residential uses. The buildings in these areas were constructed prior to the adoption of the Zoning Ordinance in 1947. Many of these buildings, both industrial and residential, are of historic and architectural interest.

There has been a trend in the last few years to adaptively reuse some of the old industrial buildings in these areas for less intense commercial uses that are more compatible with the adjacent and neighboring residential buildings. The adaptive reuse of the historic buildings should be encouraged and will lessen the noise level incompatibilities in these older areas of town; however, development policies that encourage the mixing and co-existence of land uses will continue to make noise attenuation a challenge within Vallejo.

# **Projected Noise Environment**

Projected traffic noise contours in the city for the year 2025 are summarized in Appendix A.

# Effects of Noise on People and Basis for Noise Standards

The noise environment can have a significant effect on overall quality of life. The known effects of noise on people include hearing loss (generally not a factor with community noise), interference with communication, interference with sleep, negative physiological responses, and annoyance. Because of the potentially adverse effects of noise on people, various federal and State agencies have, over the years, developed compatibility thresholds for various types of land uses. Compatibility thresholds for exterior noise developed by the U.S. Environmental Protection Agency form the basis for thresholds recommended by the Governor's Office of Planning and Research (OPR). The exterior noise compatibility standards presented here are based on those recommended by the OPR. The interior noise standard presented here is based on the interior noise standard in the California Noise Insulation Standards (Title 24, California Code of Regulations, Part 2).

#### **Policies**

Goal: Maintain noise compatibility in a manner that is acceptable to residents and reasonable for commercial and industrial land uses

#### **Policies**

Policy 1: Apply the noise guidelines shown in Table 2 to land use decisions and other City actions.

1a: The exterior noise level at primary outdoor use areas for residences should not exceed the maximum "normally acceptable" level in Table 2 ( $L_{dn}$  of 60 dB for residences). Small decks and entry porches do not need to meet this goal. Noise levels up to  $L_{dn}$  65 dB may be allowed at the discretion of the City where it is not economically or aesthetically reasonable to meet the more restrictive outdoor goal.

**1b:** The interior noise standard shall be 45 dB-L<sub>dn</sub> for all residential uses, including single- and multi-family housing, hotels/motels, and residential healthcare facilities.

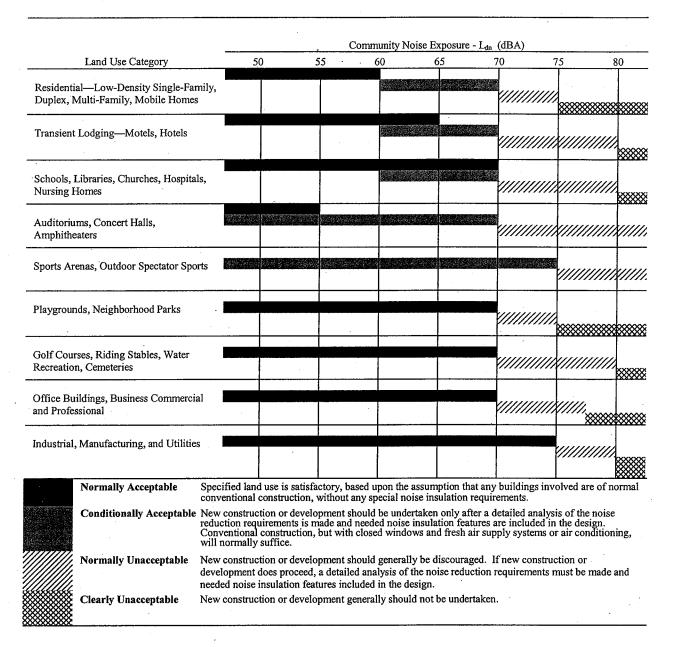
# Policy 2: Avoid adverse effects of noise-producing activities on existing land uses by implementing noise reduction measures, limiting hours of operation, or by limiting increases in noise.

**2a:** Continue to enforce the noise regulations within the Vallejo Municipal Code, including Chapter 7.84 "Regulation of Noise Disturbances" and Chapter 16.72 "Performance Standards Regulations".

**2b:** Where appropriate, limit noise generating activities (for example, construction and maintenance activities and loading and unloading activities) to the hours of 7:00 a.m. to 9:00 p.m.

**2c:** When approving new development limit project-related noise increases to no more than 10 dB in non-residential areas and 5 dB in residential areas where the with-project noise level is less than the maximum "normally acceptable" level in Table 2. Limit project-related increases in all areas to no more than 3 dB where the with-project noise level exceeds the "normally acceptable" level in Table 2.

Table 2. City of Vallejo Land Use Compatibility Guidelines for Community Noise Environment



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# GENERAL PLAN NOISE ELEMENT APPENDIX A

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Table 1: Existing Noise Contours (Page 1 of 3)

	Segme	ent Limits	Exi	sting L <sub>dn</sub>	Contour	Distance	(feet)
Roadway	From	То	80	75	70	65	60
	Jct. Interstate 80	Lemon Street	1		-	85	183
*	Lemon Street	Maine Street		1		85	183
00.000	Maine Street	Tennessee Street	T	-	52	112	240
SR 29 Sonoma Street	Tennessee Street	Marine World Pkwy.	T	_	55	118	255
	Marine World Pkwy.	Mini Drive	_	55	118	254	546
	Mini Drive	City Limits		59	128	276	594
	Solano County	Mare Island, North Gate		59	128	275	592
SR 37 Marine World	Mare Island, North Gate	Sonoma Boulevard			79	169	365
	Sonoma Boulevard	Broadway			92	198	426
Parkway	Broadway	Fairgrounds Drive		86	185	398	857
	Fairgrounds Drive	Jct. Interstate 80	70	151	324	699	1505
	Carquinez Bridge	Jct. SR 29, Sonoma Street	95	205	442	952	2050
	Jct. SR 29, Sonoma Street	Magazine Street	92	198	426	918	1978
	Magazine Street	I-780	96	208	448	964	2078
	I-780	Georgia Street	112	242	520	1121	2416
Interstate 80	Georgia Street	Springs Road	116	250	538	1159	2498
	Springs Road	Tennessee Street	117	253	545	1175	2531
	Tennessee Street	Redwood Street	119	256	552	1190	2563
	Redwood Street	SR 37 Marine World Parkway	105	227	490	1055	2272
	SR 37 Marine World Parkway	Napa County Line	· 91	195	421	907	1955
1-11-1- 700	Glen Cove Road	Jct. Interstate 80	55	118	255	548	1181
Interstate 780	Jct. Interstate 80	Lemon Street (end)	_	89	192	414	892
	Tennessee Street	Redwood Parkway					93
Admiral Callaghan	Redwood Parkway	Turner Parkway	-		62	134	288
Lane	Turner Parkway	Plaza Drive				77	166
	Plaza Drive	Columbus Parkway	-	-	58	126	271
Alameda Street			-		-	-	78
Amador Street							88
Ascot Parkway				·	-	74	160
Benicia Road					-		101
	Mini Drive	SR37	-		53	115	248
	SR37	Tuolumne Street			÷	90	195
	Tuolumne Street	Garibaldi Drive	1	ı	1	105	227
Broadway	Garibaldi Drive	Sereno Drive			51	110	237
•	Sereno Drive	Redwood Street				95	205
	Redwood Street	Tennessee Street			1	79	171
٠,	Tennessee Street	Ohio Street			-	60	129
	Interstate 80	Admiral Callaghan Lane	-	73	156	337	726
	Admiral Callaghan Lane	Ascot Parkway	1	••	91	196	422
	Ascot Parkway	Redwood Parkway	-		84	180	388
	Redwood Parkway	Club House Drive			64	137	296
Columbus Darlavay	Club House Drive	Lake Herman Road	-		65	139	300
Columbus Parkway	Lake Herman Road	Ascot Parkway				67	145
Ī	Ascot Parkway	Springs Road	-		60	129	279
	Springs Road	Georgia Street			67	145	312
ľ	Georgia Street	Regents Park Drive			66	142	306
t	Regents Park Drive	Benicia Road			66	141	305
Corcoran Avenue	Fairgrounds Drive	Mini Drive					73
Couch Street	Sonoma Boulevard (SR29)	Broadway		**	•••		89
	Mare Island Way	Solano Avenue			60	129	279
Curtola Parkway	Solano Avenue	I-780 .			71	154	331
	Corcoran Street	Borges Lane			51	110	236
·	Borges Lane	Taper Avenue	-		52	113	243
<u> </u>	Taper Avenue	Gateway Drive			64	137	295
Fairgrounds Drive	Gateway Drive	SR37			69	148	318
	SR37	Marine World Entrance				68	147
	Marine World Entrance	Sereno Drive				68	146
		Redwood Street	-				101
F	Sereno Unive						
	Sereno Drive Mare Island Wav						65
Florida Street	Mare Island Way Sonoma Boulevard (SR29)	Sonoma Boulevard (SR29) Alameda Street					65 62

Table 1: Existing Noise Contours (Page 2 of 3)

Roadway	Segme	ent Limits	Ex	isting L <sub>dn</sub>	Contour	Distance	(feet)
rioduway	From	To	80	75	70	65	60
	Santa Clara Street	Sacramento Street	T			-	_
	Sacramento Street	Marin Street				-	
	Marin Street	Sonoma Boulevard (SR29)					
	Sonoma Boulevard (SR29)	Alameda Street				<u> </u>	100
	Alameda Street	Amador Street	-	<del>-</del> -		51	111
Georgia Street	Amador Street	Solano Avenue			<del> </del>	54	117
	Solano Avenue	1-80	-		<del> </del>	53	114
	1-80	Maple Street	<del>  -</del>	<del>  -</del>	<del> </del> -	61	132
	Maple Street	Oakwood Avenue	<del>-</del>	<del>  -</del>	<del>  -</del> -	58	124
	Oakwood Avenue Rollingwood Drive	Rollingwood Drive Columbus Parkway	<del>  -</del>	+=	<del> </del> -	<del>  =</del>	105 73
	Columbus Parkway	Ascot Parkway	-	+=	<del>                                     </del>	+=	75
	Interstate 780	Robles Way	<del>                                     </del>	<del>                                     </del>	52	113	242
	Robles Way	New Bedford Drive	<del> </del>	<del> </del>		98	212
Glen Cove Parkway	New Bedford Drive	South Regatta Drive	<del>  _</del>	-		80	173
	South Regatta Drive	end	-	-	<del>  </del>	66	143
Glen Cove Road	Benicia Road	Glen Cove Parkway				71	153
Hiddenbrooke Parkway	Interstate 80	Bennington Drive					85
niudelibiooke Parkway	Bennington Drive	Landmark Drive			-		73
Lake Herman Road	East of Columbus Parkway		-	-	52	111	239
	Derr Avenue	Sonoma Boulevard (SR29)	<u> </u>	-		57	123
Lemon Street	Sonoma Boulevard (SR29)	Sixth Street		-		57	123
	Sixth Street	Curtola Parkway	-	-		55	119
Managina Otract	Sonoma Boulevard (SR29)	1-80			<del>-</del>		92
Magazine Street	I-80 Laurel Street	Laurel Street City Limits		<del> </del> -	<del> </del>		66 75
Mare Island Way	Lauter Sueet	Oity Littles	<del></del>	-	-	107	231
Iviale Islanu vvay	Curtola Parkway	Maine Street		=		107	201
	Maine Street	Georgia Street	1		<del></del>		
Marin Street	Georgia Street	Virginia Street					
· ·	Virginia Street	Tennessee Street	-				
Meadows Drive	Sonoma Boulevard (SR29)	Echo Summit Drive				55	119
Meadows Drive	Echo Summit Drive	Catalina Way			-	69	148
	City Limits	Sonoma Boulevard (SR29)		-		57	122
Mini Drive	Sonoma Boulevard (SR29)	Broadway		·	-	58	126
	Broadway	Corcoran Avenue					90
	Corcoran Avenue	\$R37					92
ļ.	Interstate 80	Admiral Callaghan Lane		·	57	122	263
Redwood Parkway	Admiral Callaghan Lane Oakwood Avenue	Oakwood Avenue Ascot Parkway				87 86	186 184
Tedwood Faikway	Ascot Parkway	Rocky Shore Pl.				64	138
	Rocky Shore Pl.	Columbus Parkway			-	<del></del>	86
	Sacramento Street	Sonoma Boulevard (SR29)				79	169
. [-	Sonoma Boulevard (SR29)	Couch Street				83	179
Redwood Street	Couch Street	Broadway	-		-	92	198
Ī	Broadway	Valle Vista Avenue	-	-	-	93	200
	Valle Vista Avenue	Interstate 80	-		61	131	282
Rollingwood Drive						50	109
	Maine Street	Florida Street		- ]	-		59 ·
. [	Florida Street	Tennessee Street	'				90
Sacramento Street	Tennessee Street	Hichborn Street				70	151
_	Hichborn Street	Valle Vista Avenue	_=_			74	159
<u></u>	Valle Vista Avenue	Redwood Street	_=_			64	137
Conta Clara Cira et	. Redwood Street	SR37	_=_				106
Santa Clara Street	Sanama Baulayard (SB20)	Broodway	_=_			52	53 445
<b> -</b>	Sonoma Boulevard (SR29)	Broadway North Camino Alto				53 69	115
Sereno Drive	Broadway North Camino Alto	Tuolumne Street			<del></del>	56	148 122
.  -	Tuolumne Street	Fairgrounds Drive		=			86
	Sonoma Boulevard (SR29)	Fifth Street				-	<del>75</del>
<u> </u>	Fifth Street	Curtola Parkway				= +	74
Solano Avenue –	Curtola Parkway	Benicia Road				-	91
1	outour attital	- NOON 1 100MM					119

Table 1: Existing Noise Contours (Page 3 of 3)

Roadway	Segme	Segment Limits		Existing L <sub>dn</sub> Contour Distance (feet)					
Roaoway	From	То	80	75	70	65	60		
Curinas Dand	Interstate 80	Maple Avenue				84	182		
Springs Road	Maple Avenue	Columbus Parkway			-	80	173		
Steffan Street	Benicia Road	Georgia Street	1			-	57		
	Mare Island Way	Sonoma Boulevard (SR29)				85	183		
	Sonoma Boulevard (SR29)	Broadway	·	-	53	114	245		
	Broadway	Tuolumne Street		-	62	133	288		
Tennessee Street	Tuolumne Street	Interstate 80			62	134	290		
	Interstate 80	Oakwood Avenue	-			77	166		
	Oakwood Avenue	Rollingwood Drive				56	120		
	Rollingwood Drive	Columbus Parkway				57	122		
	Broadway	Walnut Street				-	81		
	Walnut Street	Del Mar Avenue				67	145		
Total man Charat	Del Mar Avenue	Valle Vista Avenue	-			76	163		
Tuolumne Street	Valle Vista Avenue	Nebraska Street				52	111		
	Nebraska Street	Tennessee Street				-	89		
	Tennessee Street	Solano Avenue				-	105		
T D. J	Admiral Callaghan Lane	Ascot Parkway		-		83	178		
Turner Parkway	Ascot Parkway	East of Ascot Parkway	-	-		66	143		
Malla Maka Arranya	Sacramento Street	Sonoma Boulevard (SR29)	_				67		
Valle Vista Avenue	Sonoma Boulevard (SR29)	Fairgrounds Drive	-	-			75		
Mileon Avenue	SR37	Hichborn Street				51	110		
Wilson Avenue	Hichborn Street	Tennessee Street				61	131		

Table 2: Future Noise Contours (Page 1 of 3)

Roadway	Segme	ent Limits	F	uture L <sub>dn</sub>	Contour	Distance	(feet)
Noadway	From	То	80	75	70	65	60
	Jct. Interstate 80	Lemon Street	T	T		108	232
•	Lemon Street	Maine Street				108	232
SR 29 Sonoma Street	Maine Street	Tennessee Street	-		66	141	30
on 29 Sonoma Street	Tennessee Street	Marine World Pkwy.	_	-	70	150	323
•	Marine World Pkwy.	Mini Drive		69	149	321	692
	Mini Drive	City Limits		75	162	349	752
	Solano County	Mare Island, North Gate		106	228	492	106
SR 37 Marine World	Mare Island, North Gate	Sonoma Boulevard		65	141	. 304	654
Parkway	Sonoma Boulevard	Broadway	<u> </u>	69	148	320	689
, aikiia)	Broadway	Fairgrounds Drive	53	114	246	529	114
	Fairgrounds Drive	Jct. Interstate 80	71	153	331	712	153
	Carquinez Bridge	Jct. SR 29, Sonoma Street	133	287	619	1334	287
	Jct. SR 29, Sonoma Street	Magazine Street	131	282	607	1307	2815
	Magazine Street	I-780	134	288	620	1337	2880
•	1-780	Georgia Street	136	294	633	1365	2940
Interstate 80	Georgia Street	Springs Road	137	296	638	1374	2960
	Springs Road	Tennessee Street	138	297	641	1380	2973
	Tennessee Street	Redwood Street	139	300	646	1392	2998
	Redwood Street	SR 37 Marine World Parkway	133	287	618	1333	2871
-	SR 37 Marine World Parkway	Napa County Line	129	278	600	1292	2783
Interstate 780	Glen Cove Road	Jct. Interstate 80	65	141	303	653	1406
mersiale 700	Jct. Interstate 80	Lemon Street (end)	-	106	229	493	1062
	Tennessee Street	Redwood Parkway					102
Admiral Callaghan	Redwood Parkway	Turner Parkway			68	147	316
Lane	Turner Parkway	Plaza Drive				85	183
	Plaza Drive	Columbus Parkway			64	138	298
Alameda Street					-		95
Amador Street				1 =		-	90
Ascot Parkway				-	54	117	253
Benicia Road			-			54	117
	Mini Drive	SR37		-	61	132	285
	SR37	Tuolumne Street		-		104	224.
	Tuolumne Street	Garibaldi Drive			56	. 121	260
Broadway	Garibaldi Drive	Sereno Drive			59	126	272
	Sereno Drive	Redwood Street		-	51	109	236
	Redwood Street	Tennessee Street				91	196
	Tennessee Street	Ohio Street				69	148
	Interstate 80	Admiral Callaghan Lane	53	115	248	533	1149
	Admiral Callaghan Lane	Ascot Parkway	_	67	144	310	667
	Ascot Parkway	Redwood Parkway		61	132	285	615
[	Redwood Parkway	Club House Drive		ŧ	101	217	468
Columbus Parkway	Club House Drive	Lake Herman Road		•	102	220	474
Columbus Faikway	Lake Herman Road	Ascot Parkway	-	**	-	106	229
	Ascot Parkway	Springs Road			95	205	441
	Springs Road	Georgia Street		-	106	229	494
. [	Georgia Street	Regents Park Drive	<u> </u>		104	225	484
	Regents Park Drive	Benicia Road	-		104	224	482
Corcoran Avenue	Fairgrounds Drive	Mini Drive	-	-			73
Couch Street	Sonoma Boulevard (SR29)	Broadway		-		62	134
Curtola Parkway	Mare Island Way	Solano Avenue		-	88	189	406
Cuitola Farkway	Solano Avenue	I-780		-	104	224	483
	Corcoran Street	Borges Lane			59	126	272
Γ	Borges Lane	Taper Avenue			60	130	280
ľ	Taper Avenue	Gateway Drive			73	158	341
Fairgrounds Drive	Gateway Drive	SR37			79	171	368
•	SR37	Marine World Entrance			-	79	170
F	Marine World Entrance	Sereno Drive				78	169
-	Sereno Drive	Redwood Street				54	116
	Mare Island Way	Sonoma Boulevard (SR29)	_				66
Florida Street	Sonoma Boulevard (SR29)	Alameda Street					63

Table 2: Future Noise Contours (Page 2 of 3)

Beedway	Segme	ent Limits	F	iture L <sub>dn</sub>	Contour	Distance	(řeet)
Roadway	From	То	80	75	70	65	60
	Santa Clara Street	Sacramento Street	_		<b>I</b> -	Ι =	
	Sacramento Street	Marin Street	<del>  -</del>	<del>  -</del>	<u> </u>		- 56
· ·	Marin Street	Sonoma Boulevard (SR29)	<del> </del>	<del></del>	<del> </del>		407
	Sonoma Boulevard (SR29) Alameda Street	Alameda Street Amador Street	<del>  -</del>	<del>-</del>	<del>                                     </del>	59 65	127 140
	Amador Street	Solano Avenue	+==	<del>                                     </del>	+=	69	148
Georgia Street	Solano Avenue	I-80	<del> </del>	<del>  _</del>		67	145
	1-80	Maple Street		T	-	78	167
	Maple Street	Oakwood Avenue			_	73	158
	Oakwood Avenue	Rollingwood Drive			-	62	133
	Rollingwood Drive	Columbus Parkway	<u> </u>	<del>  -</del>	<del>  -</del>		93
	Columbus Parkway	Ascot Parkway	<del>  -</del>	<del>  -</del>		400	95
٠.	Interstate 780	Robles Way New Bedford Drive	=	<del>  -</del>	56	120	258 226
Glen Cove Parkway	Robles Way  New Bedford Drive	South Regatta Drive	<del>                                     </del>	<del></del>	<del>  -</del> -	86	185
	South Regatta Drive	end	<del>                                     </del>	<del>                                     </del>	<del>                                     </del>	71	152
Glen Cove Road	Benicia Road	Glen Cove Parkway		-	-	73	158
	Interstate 80	Bennington Drive	-	-	<del> </del>		96
Hiddenbrooke Parkway	Bennington Drive	Landmark Drive	_			=	82
Lake Herman Road	East of Columbus Parkway			-	55	118	255
	Derr Avenue	Sonoma Boulevard (SR29)	-	-		59	128
Lemon Street	Sonoma Boulevard (SR29)	Sixth Street	-	<u> </u>	<u> </u>	59	128
	Sixth Street	Curtola Parkway	<u> </u>		ļ <u> </u>	57	124
Managina Ofmat	Sonoma Boulevard (SR29)	1-80	-	<del> </del> -		<u> </u>	96
Magazine Street	I-80 Laurel Street	Laurel Street City Limits	<del>  -</del>	-	<del> </del> -	<del></del>	69 78
Mare Island Way	Laurer Street	City Limits			89	191	411
Iviale Islanu vvay	Curtola Parkway	Maine Street	<del> </del>	-			
	Maine Street	Georgia Street		<del>  _</del>		-	
Marin Street	Georgia Street	Virginia Street		-			54
	Virginia Street	Tennessee Street					61
Meadows Drive	Sonoma Boulevard (SR29)	Echo Summit Drive	-		-	62	134
INCAGONS DITTE	Echo Summit Drive	Catalina Way	-			77	167
	City Limits	Sonoma Boulevard (SR29)		<u> </u>	-	64	137
Mini Drive	Sonoma Boulevard (SR29)	Broadway	<del></del>	<u> </u>		65	141
	Broadway	Corcoran Avenue SR37					101
	Corcoran Avenue Interstate 80	Admiral Callaghan Lane			66	142	305
<b>}</b>	Admiral Callaghan Lane	Oakwood Avenue				100	216
Redwood Parkway	Oakwood Avenue	Ascot Parkway				99	214
	Ascot Parkway	Rocky Shore Pl.				75 .	161
·†	Rocky Shore Pl.	Columbus Parkway	-				100
	Sacramento Street	Sonoma Boulevard (SR29)				84	181
[	Sonoma Boulevard (SR29)	Couch Street		-		89	191
Redwood Street	Couch Street	Broadway				98	211
	Broadway	Valle Vista Avenue			 65	99	213
Pollingwood Drive	Valle Vista Avenue	Interstate 80			65	139 52	301
Rollingwood Drive	Maine Street	Florida Street				52 	113 66
<u>}</u>	Florida Street	Tennessee Street					102
<u> </u>	Tennessee Street	Hichborn Street				79	170
Sacramento Street	Hichborn Street	Valle Vista Avenue				83	180
ļ t	Valle Vista Avenue	Redwood Street				72	155
	Redwood Street	SR37				55	119
Santa Clara Street						-	58
	Sonoma Boulevard (SR29)	Broadway			-	64	137
Sereno Drive	Broadway	North Camino Alto				82	176
	North Camino Alto	Tuolumne Street		<u> ·  </u>		67	145
	Tuolumne Street	Fairgrounds Drive		-			102
	Sonoma Boulevard (SR29)	Fifth Street				-	82
Solano Avenue	Fifth Street	Curtola Parkway  Benicia Road					82 100
·  -	Curtola Parkway  Benicia Road	Interstate 80			<del>-</del> +	61	131
<u> </u>	Denina Noau	maistate ov				<u> </u>	

Table 2: Future Noise Contours (Page 3 of 3)

Roadway	Segme	nt Limits	Future L <sub>dn</sub> Contour Distance (feet)				
Roadway	From	То	80	75	70	65	60
Coringe Dood	Interstate 80	Maple Avenue			<b>—</b>	88	189
Springs Road	Maple Avenue	Columbus Parkway		-		84	180
Steffan Street	Benicia Road	Georgia Street	-			_	60
	Mare Island Way	Sonoma Boulevard (SR29)			-	98	211
	Sonoma Boulevard (SR29)	Broadway			61	131	283
	Broadway	Tuolumne Street		-	72	154	332
Tennessee Street	Tuolumne Street	Interstate 80			72	155	334
	Interstate 80	Oakwood Avenue		·		89	191
	Oakwood Avenue	Rollingwood Drive		-	-	64	138
	Rollingwood Drive	Columbus Parkway		-	-	65	141
	Broadway	Walnut Street					89
•	Walnut Street	Del Mar Avenue		_		74	161
Tueluman a Otan a f	Del Mar Avenue	Valle Vista Avenue		-	-	83	180
Tuolumne Street	Valle Vista Avenue	Nebraska Street	-			57	123
	Nebraska Street	Tennessee Street		-			98
	Tennessee Street	Solano Avenue		-		54	116
Turner Deduces	Admiral Callaghan Lane	Ascot Parkway				98	211
Turner Parkway	Ascot Parkway	East of Ascot Parkway				79	169
Valla Viata Avanua	Sacramento Street	Sonoma Boulevard (SR29)		,			74
Valle Vista Avenue	Sonoma Boulevard (SR29)	Fairgrounds Drive					82
Mileon Avenue	SR37	Hichborn Street				78	167
Wilson Avenue	Hichborn Street	Tennessee Street	-			92	199

Table 3: Existing and Future Railroad Noise Contours

Location		Railroad	L <sub>dn</sub> Contou	r Distances	(feet)
Location	75	70	.65	60	55
Within 1/4 mile of an at-grade roadway crossing		<b></b>	51	109	235
Farther than 1/4 mile from an at-grade roadway crossing					50

Figure 1: 24-Hour Noise Measurement: State Route 29, Sonoma Boulevard
North of Virginia Street, East Side
33 Feet from Centerline of Near Lane

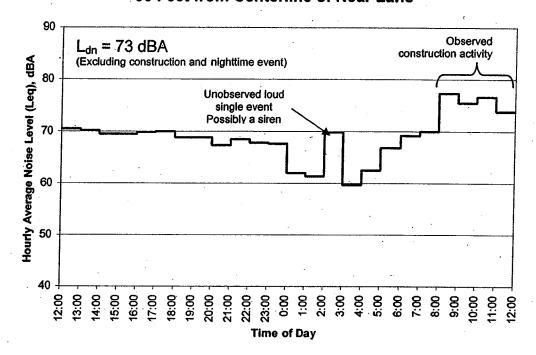


Figure 2: 24-Hour Noise Measurement: Columbus Parkway
North of Springs Road, West Side
33 Feet from Centerline of Near Lane

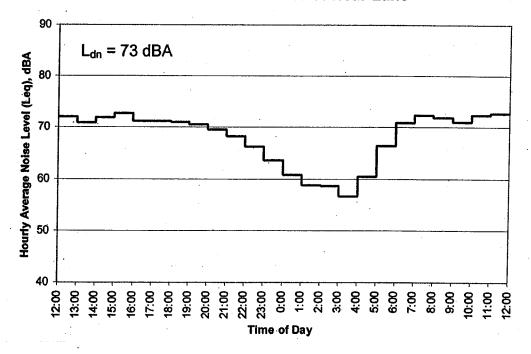


Figure 3: 24-Hour Noise Measurement: Interstate 780
At Cedar Street, North Side
105 Feet from Centerline of Near Lane

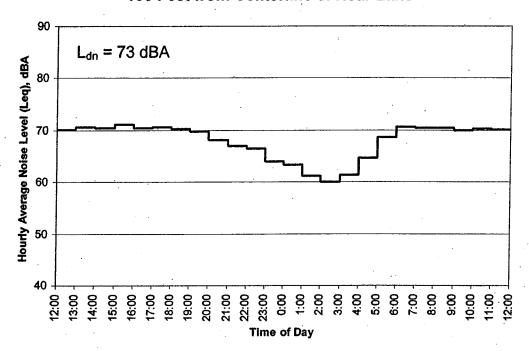


Figure 4: 24-Hour Noise Measurement: Interstate 80 South of Florida Street, East Side 100 Feet from Centerline of Near Lane

