

Appendix G: Noise Modeling Output

Michael Brandman Associates
CNEL NOISE IMPACT WORKSHEET

(calculations based on the FHWA-RD-77-108 Highway Noise Prediction Model)

PROJECT INFORMATION

Project: Solano 360	Project #: 2085.0018
City/County: Solano	Date Entered: 82312
Comments: - -	Entered By: Katie

SITE INFORMATION

Building:	Land Use(s): Fwy Commercial
Obs. Loc. Ext.: amphitheater	Scenario: Cal Trans Volumes

ROADWAY SEGMENT, VEHICULAR AND OBSERVER CHARACTERISTICS

Roadway: I-80	Roadway Class: Fwy																				
Segment: s-o Hwy 37	Right of Way: 150 feet																				
CL Dist. to Obs.: 362 feet	Near/Far Lane: 105 feet																				
CL Dist. to Wall: 282 feet																					
ADT: 126,000	Travel Speed: 65 MPH																				
Pad Elev.: 0.0 feet	Obs. Height: 3.0 feet																				
Roadway Elev.: 23.0 feet	Roadway Grade: 0.1%																				
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CALCULATED CNEL NOISE IMPACTS

Noise impact under various scenarios:	<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">74.5</td> <td style="width: 50%; text-align: center; padding: 5px;">55.8</td> </tr> <tr> <td style="text-align: center; padding: 5px;">Exterior without Topo or Barrier Attenuation</td> <td style="text-align: center; padding: 5px;">Exterior Mitigated</td> </tr> </table>	74.5	55.8	Exterior without Topo or Barrier Attenuation	Exterior Mitigated	
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Exterior without Topo or Barrier Attenuation	Exterior Mitigated					

Michael Brandman Associates
NOISE CONTOUR WORKSHEET

(calculations based on the FHWA-RD-77-108 Highway Noise Prediction Model)

PROJECT INFORMATION

Project: --	W.O. #: --
City/County: --	Date Entered:
Comments: --	Entered By: --

SITE INFORMATION

Planning Area(s): --	Land Use(s): --
Obs. Location: (see below)	Scenario: LOS 'C' Volumes

ROADWAY SEGMENT, VEHICULAR AND OBSERVER CHARACTERISTICS

Roadway: "standard roadway"	Roadway Class: --																									
Segment: --	Right of Way: --																									
ADT: 10,000	Travel Speed: 40 MPH																									
Pad Elev. (opt.): 0.0 feet	Obs. Height: 5.0 feet																									
Roadway Elev.: 0.0 feet	Roadway Grade: 0.1%																									
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CALCULATED CNEL NOISE IMPACTS

Noise impact under various scenarios:

67.7
Exterior Umitigated

Noise is a function of both speed and ADTs. Since speed is assumed constant at 40 mph for this analysis, noise is a function of ADT onl and can be calculated by the following equation:

CNEL (dB) = 67.7 + 10 x log (ADT/10,000)

Noise Levels 50 feet from Roadway Centerline - Table 3.9-6

Road Segment	Existing		Phase 1 - Project				Phases 1 & 2 - Project				Phases 1, 2 & 3 - Project			
	ADT	dB CNEL	Project ADT	Existing plus Project ADT	dB CNEL	Project-Specific Increase	Project ADT	Existing plus Project ADT	dB CNEL	Project-Specific Increase	Project ADT	Existing plus Project ADT	dB CNEL	Project-Specific Increase
N/S ROADWAYS														
Fairgrounds Drive														
n/o Whitney Ave/Taper Ave	10360	67.9	170	10530	67.9	0.0	340	10700	68.0	0.1	570	10930	68.1	0.2
s/o Whitney Ave/Taper Ave	13010	68.8	330	13340	69.0	0.2	700	13710	69.1	0.3	1140	14150	69.2	0.4
n/o SR-37 WB Ramps	13980	69.2	330	14310	69.3	0.1	700	14680	69.4	0.2	1140	15120	69.5	0.3
s/o SR-37 WB Ramps	18780	70.4	2040	20820	70.9	0.5	4750	23530	71.4	1.0	7630	26410	71.9	1.5
n/o SR-37 EB Ramps	18780	70.4	2040	20820	70.9	0.5	4750	23530	71.4	1.0	7630	26410	71.9	1.5
s/o SR-37 EB Ramps	18680	70.4	3480	22160	71.2	0.8	7400	26080	71.9	1.5	11920	30600	72.6	2.2
n/o Sage St/Six Flags Staff Dwy	18680	70.4	3480	22160	71.2	0.8	7400	26080	71.9	1.5	11920	30600	72.6	2.2
s/o Sage St/Six Flags Staff Dwy	17000	70.0	3590	20590	70.8	0.8	7300	24300	71.6	1.6	11420	28420	72.2	2.2
n/o Marriott Dwy	17640	70.2	3590	21230	71.0	0.8	7300	24940	71.7	1.5	11420	29060	72.3	2.1
s/o Marriott Dwy	17280	70.1	3590	20870	70.9	0.8	7300	24580	71.6	1.5	11420	28700	72.3	2.2
n/o Future Fairgrounds North Dwy	17260	70.1	3590	20850	70.9	0.8	7300	24560	71.6	1.5	11420	28680	72.3	2.2
s/o Future Fairgrounds North Dwy	17260	70.1	1000	18260	70.3	0.2	3870	21130	70.9	0.8	6990	24250	71.5	1.4
n/o Six Flags Entrance Ramp	17330	70.1	1000	18330	70.3	0.2	3870	21200	71.0	0.9	6990	24320	71.6	1.5
s/o Six Flags Entrance Ramp	8450	67.0	1000	9450	67.5	0.5	3870	12320	68.6	1.6	6990	15440	69.6	2.6
n/o Six Flags North Exit Dwy/Fairgrounds Dwy	8440	67.0	1000	9440	67.4	0.4	3870	12310	68.6	1.6	6990	15430	69.6	2.6
s/o Six Flags North Exit Dwy/Fairgrounds Dwy	6480	65.8	1900	8380	66.9	1.1	4830	11310	68.2	2.4	8330	14810	69.4	3.6
n/o Six Flags South Exit Dwy	6110	65.6	1900	8010	66.7	1.1	4830	10940	68.1	2.5	8330	14440	69.3	3.7
s/o Six Flags South Exit Dwy	5950	65.4	1900	7850	66.6	1.2	4830	10780	68.0	2.6	8330	14280	69.2	3.8
n/o Future Fairgrounds South Dwy	5800	65.3	1900	7700	66.6	1.3	4830	10630	68.0	2.7	8330	14130	69.2	3.9
s/o Future Fairgrounds South Dwy	5800	65.3	1900	7700	66.6	1.3	4150	9950	67.7	2.4	6650	12450	68.7	3.4
n/o Sereno Dr	5730	65.3	1900	7630	66.5	1.2	4150	9880	67.6	2.3	6650	12380	68.6	3.3
s/o Sereno Dr	5390	65.0	1740	7130	66.2	1.2	3790	9180	67.3	2.3	6080	11470	68.3	3.3
n/o Valle Vista Ave	5380	65.0	1740	7120	66.2	1.2	3790	9170	67.3	2.3	6080	11460	68.3	3.3
s/o Valle Vista Ave	5560	65.2	1740	7300	66.3	1.1	3790	9350	67.4	2.2	6080	11640	68.4	3.2
Fairgrounds Dr/I-80 WB Ramps														
n/o Redwood St	5970	65.5	1740	7710	66.6	1.1	3790	9760	67.6	2.1	6080	12050	68.5	3.0
s/o Redwood St	7000	66.2	480	7480	66.4	0.2	830	7830	66.6	0.4	1290	8290	66.9	0.7
Tuolumne St														
n/o Sereno Dr	5820	65.3	50	5870	65.4	0.1	120	5940	65.4	0.1	200	6020	65.5	0.2
s/o Sereno Dr	6890	66.1	0	6890	66.1	0.0	0	6890	66.1	0.0	0	6890	66.1	0.0
n/o Redwood St	8780	67.1	0	8780	67.1	0.0	0	8780	67.1	0.0	0	8780	67.1	0.0
s/o Redwood St	5890	65.4	50	5940	65.4	0.0	120	6010	65.5	0.1	200	6090	65.5	0.1
Admiral Callaghan Ln														
n/o Columbus Pwy	30	42.5	50	80	46.7	4.2	120	150	49.5	7.0	200	230	51.3	8.8
s/o Columbus Pwy	15690	69.7	50	15740	69.7	0.0	120	15810	69.7	0.0	200	15890	69.7	0.0
n/o I-80 EB Ramps/Safeway Dwy	13540	69.0	110	13650	69.1	0.1	240	13780	69.1	0.1	370	13910	69.1	0.1
s/o I-80 EB Ramps/Safeway Dwy	19550	70.6	750	20300	70.8	0.2	1810	21360	71.0	0.4	2930	22480	71.2	0.6
Admiral Callaghan Ln/I-80 EB Off-Ramp														
n/o Redwood St	19550	70.6	750	20300	70.8	0.2	1810	21360	71.0	0.4	2930	22480	71.2	0.6
s/o Redwood St	4260	64.0	0	4260	64.0	0.0	0	4260	64.0	0.0	0	4260	64.0	0.0
Oakwood Ave														
n/o Redwood St	0	--	0	0	--	--	0	0	--	--	0	0	--	--
s/o Redwood St	4690	64.4	50	4740	64.5	0.1	120	4810	64.5	0.1	200	4890	64.6	0.2
I-80 WB exit ramps														
n/o Redwood St	2920	62.4	30	2950	62.4	0.0	90	3010	62.5	0.1	130	3050	62.5	0.1

E/W ROADWAYS														
Whitney Ave/Taper Ave														
e/o Fairgrounds Dr	2560	61.8	50	2610	61.9	0.1	120	2680	62.0	0.2	200	2760	62.1	0.3
w/o Faigrounds Dr	4290	64.0	110	4400	64.1	0.1	240	4530	64.3	0.3	370	4660	64.4	0.4
SR-37 WB Ramps														
e/o Fairgrounds Dr	13790	69.1	1460	15250	69.5	0.4	3630	17420	70.1	1.0	5850	19640	70.6	1.5
w/o Faigrounds Dr	2070	60.9	250	2320	61.4	0.5	420	2490	61.7	0.8	640	2710	62.0	1.1
SR-37 EB Ramps														
e/o Fairgrounds Dr	8540	67.0	1130	9670	67.6	0.6	1880	10420	67.9	0.9	3050	11590	68.3	1.3
w/o Faigrounds Dr	3020	62.5	310	3330	62.9	0.4	770	3790	63.5	1.0	1240	4260	64.0	1.5
Sage St/Six Flags Staff Dwy														
e/o Fairgrounds Dr	4650	64.4	110	4760	64.5	0.1	1360	6010	65.5	1.1	3120	7770	66.6	2.2
w/o Faigrounds Dr	1010	57.7	0	1010	57.7	0.0	0	1010	57.7	0.0	0	1010	57.7	0.0
Marriott Dwy														
e/o Fairgrounds Dr	680	56.0	0	680	56.0	0.0	0	680	56.0	0.0	0	680	56.0	0.0
w/o Faigrounds Dr	0	--	0	0	--	--	0	0	--	--	0	0	--	--
Six Flags Entrance Ramp														
e/o Fairgrounds Dr	0	--	0	0	--	--	0	0	--	--	0	0	--	--
w/o Faigrounds Dr	9740	67.6	0	9740	67.6	0.0	0	9740	67.6	0.0	0	9740	67.6	0.0
Six Flags North Exit Dwy/Fairgrounds Dwy														
e/o Fairgrounds Dr	5470	65.1	2080	7550	66.5	1.4	2880	8350	66.9	1.8	3800	9270	67.4	2.3
w/o Faigrounds Dr	1010	57.7	0	1010	57.7	0.0	0	1010	57.7	0.0	0	1010	57.7	0.0
Six Flags South Exit Dwy														
e/o Fairgrounds Dr	100	47.7	0	100	47.7	0.0	0	100	47.7	0.0	0	100	47.7	0.0
w/o Faigrounds Dr	100	47.7	0	100	47.7	0.0	0	100	47.7	0.0	0	100	47.7	0.0
Sereno Dr														
e/o Fairgrounds Dr	0	--	0	0	--	--	0	0	--	--	0	0	--	--
w/o Faigrounds Dr	2540	61.7	160	2700	62.0	0.3	360	2900	62.3	0.6	570	3110	62.6	0.9
e/o Tuolemne St	2240	61.2	160	2400	61.5	0.3	360	2600	61.8	0.6	570	2810	62.2	1.0
w/o Tuolemne St	3270	62.8	110	3380	63.0	0.2	240	3510	63.2	0.4	370	3640	63.3	0.5
Valle Vista Ave														
e/o Fairgrounds Dr	0	--	0	0	--	--	0	0	--	--	0	0	--	--
w/o Faigrounds Dr	660	55.9	0	660	55.9	0.0	0	660	55.9	0.0	0	660	55.9	0.0
Redwood St														
e/o Fairgrounds Dr/I-80 WB Ramps	20590	70.8	910	21500	71.0	0.2	2170	22760	71.3	0.5	3500	24090	71.5	0.7
w/o Faigrounds Dr/I-80 WB Ramps	17980	70.2	320	18300	70.3	0.1	700	18680	70.4	0.2	1160	19140	70.5	0.3
e/o Tuolemne St	16250	69.8	320	16570	69.9	0.1	700	16950	70.0	0.2	1160	17410	70.1	0.3
w/o Tuolemne St	12120	68.5	270	12390	68.6	0.1	580	12700	68.7	0.2	960	13080	68.9	0.4
e/o Admiral Callaghan Ln/I-80 EB Off-Ramp	12320	68.6	160	12480	68.7	0.1	360	12680	68.7	0.1	570	12890	68.8	0.2
w/o Admiral Callaghan Ln/I-80 EB Off-Ramp	20590	70.8	910	21500	71.0	0.2	2170	22760	71.3	0.5	3500	24090	71.5	0.7
e/o Oakwood Ave	6590	65.9	110	6700	66.0	0.1	240	6830	66.0	0.1	370	6960	66.1	0.2
w/o Oakwood Ave	6320	65.7	160	6480	65.8	0.1	360	6680	65.9	0.2	570	6890	66.1	0.4
Columbus Pwy														
e/o Admiral Callaghan Ln	10070	67.7	170	10240	67.8	0.1	340	10410	67.9	0.2	570	10640	68.0	0.3
w/o Admiral Callaghan Ln	20530	70.8	270	20800	70.9	0.1	580	21110	70.9	0.1	970	21500	71.0	0.2
I-80 EB Ramps/Safeway Dwy														
e/o Admiral Callaghan Ln	1750	60.1	0	1750	60.1	0.0	0	1750	60.1	0.0	0	1750	60.1	0.0
w/o Admiral Callaghan Ln	5920	65.4	640	6560	65.9	0.5	1570	7490	66.4	1.0	2560	8480	67.0	1.6

*The uniform distance of 50 feet allows for direct comparisons of potential increases or decreases in noise levels based upon various traffic scenarios; however, at this distance, no specific noise standard necessarily applies

Noise Levels 50 feet from Roadway Centerline - Table 3.9-7

Road Segment	2035 - (no project)		2035 - Plus Phase 1			2035 - Plus Phases 1 & 2			2035 - Plus Phases 1, 2 & 3		
	ADT	dB CNEL	ADT	dB CNEL	Project-Specific Increase	ADT	dB CNEL	Project-Specific Increase	ADT	dB CNEL	Project-Specific Increase
N/S ROADWAYS											
Fairgrounds Drive											
n/o Whitney Ave/Taper Ave	15300	69.5	15470	69.6	0.1	15640	69.6	0.1	15870	69.7	0.2
s/o Whitney Ave/Taper Ave	17900	70.2	18230	70.3	0.1	18600	70.4	0.2	19040	70.5	0.3
n/o SR-37 WB Ramps	19700	70.6	20030	70.7	0.1	20400	70.8	0.2	20840	70.9	0.3
s/o SR-37 WB Ramps	21800	71.1	23840	71.5	0.4	26550	71.9	0.8	29430	72.4	1.3
n/o SR-37 EB Ramps	21800	71.1	23840	71.5	0.4	26550	71.9	0.8	29430	72.4	1.3
s/o SR-37 EB Ramps	18800	70.4	22280	71.2	0.8	26200	71.9	1.5	30720	72.6	2.2
n/o Sage St/Six Flags Staff Dwy	18800	70.4	22280	71.2	0.8	26200	71.9	1.5	30720	72.6	2.2
s/o Sage St/Six Flags Staff Dwy	17200	70.1	20790	70.9	0.8	24500	71.6	1.5	28620	72.3	2.2
n/o Marriott Dwy	17800	70.2	21390	71.0	0.8	25100	71.7	1.5	29220	72.4	2.2
s/o Marriott Dwy	17400	70.1	20990	70.9	0.8	24700	71.6	1.5	28820	72.3	2.2
n/o Future Fairgrounds North Dwy	17500	70.1	21090	70.9	0.8	24800	71.6	1.5	28920	72.3	2.2
s/o Future Fairgrounds North Dwy	17500	70.1	18500	70.4	0.3	21370	71.0	0.9	24490	71.6	1.5
n/o Six Flags Entrance Ramp	17500	70.1	18500	70.4	0.3	21370	71.0	0.9	24490	71.6	1.5
s/o Six Flags Entrance Ramp	8600	67.0	9600	67.5	0.5	12470	68.7	1.7	15590	69.6	2.6
n/o Six Flags North Exit Dwy/Fairgrounds Dwy	8600	67.0	9600	67.5	0.5	12470	68.7	1.7	15590	69.6	2.6
s/o Six Flags North Exit Dwy/Fairgrounds Dwy	6700	66.0	8600	67.0	1.0	11530	68.3	2.3	15030	69.5	3.5
n/o Six Flags South Exit Dwy	6500	65.8	8400	66.9	1.1	11330	68.2	2.4	14830	69.4	3.6
s/o Six Flags South Exit Dwy	6500	65.8	8400	66.9	1.1	11330	68.2	2.4	14830	69.4	3.6
n/o Future Fairgrounds South Dwy	6500	65.8	8400	66.9	1.1	11330	68.2	2.4	14830	69.4	3.6
s/o Future Fairgrounds South Dwy	6500	65.8	8400	66.9	1.1	10650	68.0	2.2	13150	68.9	3.1
n/o Sereno Dr	6600	65.9	8500	67.0	1.1	10750	68.0	2.1	13250	68.9	3.0
s/o Sereno Dr	6100	65.6	7840	66.6	1.0	9890	67.7	2.1	12180	68.6	3.0
n/o Valle Vista Ave	6700	66.0	8440	67.0	1.0	10490	67.9	1.9	12780	68.8	2.8
s/o Valle Vista Ave	6900	66.1	8640	67.1	1.0	10690	68.0	1.9	12980	68.8	2.7
Fairgrounds Dr/I-80 WB Ramps											
n/o Redwood St	7800	66.6	9540	67.5	0.9	11590	68.3	1.7	13880	69.1	2.5
s/o Redwood St	8900	67.2	9380	67.4	0.2	9730	67.6	0.4	10190	67.8	0.6
Tuolumne St											
n/o Sereno Dr	7500	66.5	7550	66.5	0.0	7620	66.5	0.0	7700	66.6	0.1
s/o Sereno Dr	8900	67.2	8900	67.2	0.0	8900	67.2	0.0	8900	67.2	0.0
n/o Redwood St	11400	68.3	11400	68.3	0.0	11400	68.3	0.0	11400	68.3	0.0
s/o Redwood St	7600	66.5	7650	66.5	0.0	7720	66.6	0.1	7800	66.6	0.1
Admiral Callaghan Ln											
n/o Columbus Pwy	3400	63.0	3450	63.1	0.1	3520	63.2	0.2	3600	63.3	0.3
s/o Columbus Pwy	20900	70.9	20950	70.9	0.0	21020	70.9	0.0	21100	70.9	0.0
n/o I-80 EB Ramps/Safeway Dwy	17100	70.0	17210	70.1	0.1	17340	70.1	0.1	17470	70.1	0.1
s/o I-80 EB Ramps/Safeway Dwy	24700	71.6	25450	71.8	0.2	26510	71.9	0.3	27630	72.1	0.5
Admiral Callaghan Ln/I-80 EB Off-Ramp											
n/o Redwood St	24700	71.6	25450	71.8	0.2	26510	71.9	0.3	27630	72.1	0.5
s/o Redwood St	5400	65.0	5400	65.0	0.0	5400	65.0	0.0	5400	65.0	0.0
Oakwood Ave											
n/o Redwood St	0	--	0	--	--	0	--	--	0	--	--
s/o Redwood St	6000	65.5	6050	65.5	0.0	6120	65.6	0.1	6200	65.6	0.1
I-80 WB exit ramps											
n/o Redwood St	3800	63.5	3830	63.5	0.0	3890	63.6	0.1	3930	63.6	0.1
E/W ROADWAYS											

Whitney Ave/Taper Ave											
e/o Fairgrounds Dr	2800	62.2	2850	62.2	0.0	2920	62.4	0.2	3000	62.5	0.3
w/o Faigrounds Dr	4600	64.3	4710	64.4	0.1	4840	--	--	4970	--	--
SR-37 WB Ramps											
e/o Fairgrounds Dr	16100	69.8	17560	70.1	0.3	19730	70.7	0.9	21950	71.1	1.3
w/o Faigrounds Dr	2800	62.2	3050	62.5	0.3	3220	62.8	0.6	3440	63.1	0.9
SR-37 EB Ramps											
e/o Fairgrounds Dr	11200	68.2	12330	68.6	0.4	13080	68.9	0.7	14250	69.2	1.0
w/o Faigrounds Dr	3400	63.0	3710	63.4	0.4	4170	63.9	0.9	4640	64.4	1.4
Sage St/Six Flags Staff Dwy											
e/o Fairgrounds Dr	4900	64.6	5010	64.7	0.1	6260	65.7	1.1	8020	66.7	2.1
w/o Faigrounds Dr	1100	58.1	1100	58.1	0.0	1100	58.1	0.0	1100	58.1	0.0
Marriott Dwy											
e/o Fairgrounds Dr	800	56.7	800	56.7	0.0	800	56.7	0.0	800	56.7	0.0
w/o Faigrounds Dr	0	--	0	--	--	0	--	--	0	--	--
Six Flags Entrance Ramp											
e/o Fairgrounds Dr	0	--	0	--	--	0	--	--	0	--	--
w/o Faigrounds Dr	9900	67.7	9900	67.7	0.0	9900	67.7	0.0	9900	67.7	0.0
Six Flags North Exit Dwy/Fairgrounds Dwy											
e/o Fairgrounds Dr	5600	65.2	7680	66.6	1.4	8480	67.0	1.8	9400	67.4	2.2
w/o Faigrounds Dr	1100	58.1	1100	58.1	0.0	1100	58.1	0.0	1100	58.1	0.0
Six Flags South Exit Dwy											
e/o Fairgrounds Dr	0	--	0	--	--	0	--	--	0	--	--
w/o Faigrounds Dr	200	50.7	200	50.7	0.0	200	50.7	0.0	200	50.7	0.0
Sereno Dr											
e/o Fairgrounds Dr	0	--	0	--	--	0	--	--	0	--	--
w/o Faigrounds Dr	3300	62.9	3460	63.1	0.2	3660	63.3	0.4	3870	63.6	0.7
e/o Tuolemne St	3300	62.9	3460	63.1	0.2	3660	63.3	0.4	3870	63.6	0.7
w/o Tuolemne St	4500	64.2	4610	64.3	0.1	4740	64.5	0.3	4870	64.6	0.4
Valle Vista Ave											
e/o Fairgrounds Dr	0	--	0	--	--	0	--	--	0	--	--
w/o Faigrounds Dr	800	56.7	800	56.7	0.0	800	56.7	0.0	800	56.7	0.0
Redwood St											
e/o Fairgrounds Dr/I-80 WB Ramps	26000	71.8	26910	72.0	0.2	28170	72.2	0.4	29500	72.4	0.6
w/o Faigrounds Dr/I-80 WB Ramps	22900	71.3	23720	71.5	0.2	23600	71.4	0.1	24060	71.5	0.2
e/o Tuolemne St	20600	70.8	20920	70.9	0.1	21300	71.0	0.2	21760	71.1	0.3
w/o Tuolemne St	15600	69.6	15870	69.7	0.1	16180	69.8	0.2	16560	69.9	0.3
e/o Admiral Callaghan Ln/I-80 EB Off-Ramp	15700	69.7	15860	69.7	0.0	16060	69.8	0.1	16270	69.8	0.1
w/o Admiral Callaghan Ln/I-80 EB Off-Ramp	26000	71.8	26910	72.0	0.2	28170	72.2	0.4	29500	72.4	0.6
e/o Oakwood Ave	8400	66.9	8510	67.0	0.1	8640	67.1	0.2	8770	67.1	0.2
w/o Oakwood Ave	8000	66.7	8160	66.8	0.1	8360	66.9	0.2	8570	67.0	0.3
e/o Future I-80 WB Ramps	26000	71.8	26910	72.0	0.2	28170	72.2	0.4	29500	72.4	0.6
w/o Future I-80 WB Ramps	26000	71.8	26910	72.0	0.2	28170	72.2	0.4	29500	72.4	0.6
e/o Future I-80 EB Ramps	26000	71.8	26910	72.0	0.2	28170	72.2	0.4	29500	72.4	0.6
w/o Future I-80 EB Ramps	26000	71.8	26910	72.0	0.2	28170	72.2	0.4	29500	72.4	0.6
Columbus Pwy											
e/o Admiral Callaghan Ln	13500	69.0	13670	69.1	0.1	13840	69.1	0.1	14070	69.2	0.2
w/o Admiral Callaghan Ln	27200	72.0	27470	72.1	0.1	27780	72.1	0.1	28170	72.2	0.2
I-80 EB Ramps/Safeway Dwy											
e/o Admiral Callaghan Ln	2300	61.3	2300	61.3	0.0	2300	61.3	0.0	2300	61.3	0.0
w/o Admiral Callaghan Ln	7500	66.5	8140	66.8	0.3	9070	67.3	0.8	10060	67.7	1.2

*The uniform distance of 50 feet allows for direct comparisons of potential increases or decreases in noise levels based upon various traffic scenarios; however, at this distance, no specific noise standard necessarily applies