

## **APPENDIX G**

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Noise



**Long-Term 24 Hour Continuous Noise Monitoring  
Model Input Sheet**



**Project:** 60447237 - Yamanee SCEA

**Date: Existi**      **Wednesday, November 18, 2015**      **Thursday, November 19, 2015**

**Site:** Project Site, Roof facing parking lot and Jazz Alley, Sacramento, CA 95816

Hour	Leq	Lmax	L50	L90		<b>Averages</b>			
						<u>Leq</u>	<u>Lmax</u>	<u>L50</u>	<u>L90</u>
16:00	60.5	76.7	59.6	58.2					
17:00	59.6	72.2	59.1	57.6	Daytime (7 a.m. - 10 p.m.)	59.4	75.6	58.1	56.0
18:00	59.9	77.7	58.9	57.7	Nighttime (10 p.m. - 7 a.m.)	59.7	68.4	58.3	56.7
19:00	59.6	79.0	58.3	57.1					
20:00	56.5	71.0	55.8	54.1					
21:00	57.7	70.5	56.7	55.1					
22:00	57.0	68.3	56.5	54.5					
23:00	56.4	70.0	56.0	54.1					
0:00	57.4	78.1	56.8	55.2	Daytime (7 a.m. - 10 p.m.)	62.7	82.2	62.1	59.5
1:00	56.5	63.4	56.3	54.4	Nighttime (10 p.m. - 7 a.m.)	64.2	78.1	63.8	62.9
2:00	55.5	60.7	55.2	53.6					
3:00	58.1	65.7	57.8	55.8					
4:00	60.7	65.5	60.5	59.1					
5:00	62.4	68.9	62.2	60.5					
6:00	64.2	75.1	63.8	62.9					
7:00	62.7	82.2	62.1	59.5					
8:00	58.6	73.7	58.0	54.5					
9:00	56.4	68.9	55.2	53.0					
10:00	58.8	77.6	57.2	53.1					
11:00	60.2	80.8	58.4	57.1					
12:00	59.2	73.1	58.5	56.0					
13:00	57.5	78.8	56.2	53.9					
14:00	58.3	71.4	58.0	54.5					
15:00	60.6	80.5	59.2	58.0					
						<b>Percentage of Energy</b>			
						Daytime	61%		
						Nighttime	39%		
						<b>Calculated L<sub>dn</sub>, dBA</b>			
						66.1			

**Long-Term 24 Hour Continuous Noise Monitoring  
Model Input Sheet**



**Project:** 60447237 - Yamanee SCEA

**Date: Existi**      **Wednesday, November 18, 2015**      **Thursday, November 19, 2015**

**Site:**              Project Site, Roof facing J Street, Sacramento, CA 95816

Hour	Leq	Lmax	L50	L90
17:00	67.6	81.6	66.5	55.0
18:00	66.3	84.2	63.9	54.4
19:00	69.6	98.6	62.3	53.8
20:00	65.4	84.0	62.3	54.1
21:00	64.3	76.3	60.1	54.6
22:00	63.8	78.5	59.5	54.8
23:00	62.2	81.0	56.0	53.0
0:00	60.7	74.2	56.0	54.1
1:00	60.1	74.3	55.7	53.4
2:00	58.4	73.3	54.6	52.4
3:00	58.9	74.1	56.7	54.6
4:00	60.3	72.5	59.4	57.8
5:00	63.2	79.4	61.4	59.4
6:00	67.7	95.4	63.3	61.7
7:00	68.1	79.1	64.2	59.6
8:00	67.6	78.7	63.0	54.8
9:00	66.8	78.9	62.2	53.2
10:00	67.5	80.0	63.8	53.9
11:00	67.1	79.2	64.0	55.1
12:00	67.4	83.7	65.0	55.8
13:00	68.2	91.1	65.2	55.7
14:00	67.7	85.0	65.8	55.2
15:00	69.0	93.9	65.0	55.2
16:00	68.7	87.8	67.2	55.8

Daytime (7 a.m. - 10 p.m.)  
Nighttime (10 p.m. - 7 a.m.)

Averages			
Leq	Lmax	L50	L90
67.6	84.1	64.0	55.1
62.7	78.1	58.1	55.7

Daytime (7 a.m. - 10 p.m.)  
Nighttime (10 p.m. - 7 a.m.)

Uppermost-Level			
Leq	Lmax	L50	L90
69.6	98.6	67.2	59.6
67.7	95.4	63.3	61.7

Percentage of Energy	
Daytime	84%
Nighttime	16%

**Calculated L<sub>dn</sub>, dBA**  

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70.2

**Traffic Noise Prediction Model, (FHWA RD-77-108)**  
**Model Input Sheet**



**Project Name :** Yamanee SCEA  
**Project Number :** 60447237  
**Modeling Condition :** Existing  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

**K Factor :** NA  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	J Street	West of 25th Street	25th Street	1431	30	50	93	2	5	61	0	39	
2	J Street	25th Street	26th Street	1438	30	50	93	2	5	61	0	39	
3	J Street	26th Street	East of 26th Street	1500	30	50	93	2	5	61	0	39	
4	Jazz Alley	West of 25th Street	25th Street	30	15	50	93	2	5	84	0	16	
5	Jazz Alley	25th Street	26th Street	60	15	50	93	2	5	84	0	16	
6	Jazz Alley	26th Street	East of 26th Street	40	15	50	93	2	5	84	0	16	
7	K Street	West of 25th Street	25th Street	677	25	50	93	2	5	84	0	16	
8	K Street	25th Street	26th Street	728	25	50	93	2	5	84	0	16	
9	K Street	26th Street	East of 26th Street	703	25	50	93	2	5	84	0	16	
10	25th Street	South of K Street	K Street	205	25	50	93	2	5	84	0	16	
11	25th Street	K Street	Jazz Alley	190	25	50	93	2	5	84	0	16	
12	25th Street	Jazz Alley	J Street	199	25	50	93	2	5	84	0	16	
13	25th Street	J Street	North of J Street	139	25	50	93	2	5	84	0	16	
14	26th Street	South of K Street	K Street	287	30	50	93	2	5	61	0	39	
15	26th Street	K Street	Jazz Alley	291	30	50	93	2	5	61	0	39	
16	26th Street	Jazz Alley	J Street	266	30	50	93	2	5	61	0	39	
17	26th Street	J Street	North of J Street	195	30	50	93	2	5	61	0	39	

**Traffic Noise Prediction Model, (FHWA RD-77-108)**  
**Predicted Noise Levels**



**Project Name :** Yamanee SCEA  
**Project Number :** 60447237  
**Modeling Condition :** Existing  
**Metric (Leq, Ldn, CNEL) :** Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	J Street	West of 25th Street	25th Street	63.6	57.5	68.6	70.0	51	160	506	1599	5056
2	J Street	25th Street	26th Street	63.6	57.5	68.6	70.1	51	161	508	1607	5080
3	J Street	26th Street	East of 26th Street	63.8	57.7	68.8	70.3	53	168	530	1676	5299
4	Jazz Alley	West of 25th Street	25th Street	38.1	36.0	-25.4	40.2	0	0	1	2	5
5	Jazz Alley	25th Street	26th Street	41.2	39.0	-22.4	43.2	0	0	1	3	11
6	Jazz Alley	26th Street	East of 26th Street	39.4	37.3	-24.1	41.5	0	0	1	2	7
7	K Street	West of 25th Street	25th Street	58.1	53.0	64.6	65.7	19	59	187	592	1872
8	K Street	25th Street	26th Street	58.4	53.3	64.9	66.0	20	64	201	637	2013
9	K Street	26th Street	East of 26th Street	58.2	53.2	64.8	65.9	19	61	194	615	1944
10	25th Street	South of K Street	K Street	52.9	47.8	59.4	60.5	6	18	57	179	567
11	25th Street	K Street	Jazz Alley	52.6	47.5	59.1	60.2	5	17	53	166	525
12	25th Street	Jazz Alley	J Street	52.8	47.7	59.3	60.4	6	17	55	174	550
13	25th Street	J Street	North of J Street	51.2	46.1	57.8	58.9	4	12	38	122	384
14	26th Street	South of K Street	K Street	56.6	50.5	61.6	63.1	10	32	101	321	1014
15	26th Street	K Street	Jazz Alley	56.7	50.6	61.7	63.1	10	33	103	325	1028
16	26th Street	Jazz Alley	J Street	56.3	50.2	61.3	62.7	9	30	94	297	940
17	26th Street	J Street	North of J Street	54.9	48.8	60.0	61.4	7	22	69	218	689

**Traffic Noise Prediction Model, (FHWA RD-77-108)**  
**Model Input Sheet**



**Project Name :** Yamanee SCEA  
**Project Number :** 60447237  
**Modeling Condition :** Existing + Construction Traffic  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Leq

**K Factor :** NA  
**Traffic Desc. (Peak or ADT) :** Peak

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	J Street	West of 25th Street	25th Street	1496	30	50	93	2	5	61	0	39	
2	J Street	25th Street	26th Street	1503	30	50	93	2	5	61	0	39	
3	J Street	26th Street	East of 26th Street	1565	30	50	93	2	5	61	0	39	
4	Jazz Alley	West of 25th Street	25th Street	95	15	50	93	2	5	84	0	16	
5	Jazz Alley	25th Street	26th Street	125	15	50	93	2	5	84	0	16	
6	Jazz Alley	26th Street	East of 26th Street	105	15	50	93	2	5	84	0	16	
7	K Street	West of 25th Street	25th Street	742	25	50	93	2	5	84	0	16	
8	K Street	25th Street	26th Street	793	25	50	93	2	5	84	0	16	
9	K Street	26th Street	East of 26th Street	768	25	50	93	2	5	84	0	16	
10	25th Street	South of K Street	K Street	270	25	50	93	2	5	84	0	16	
11	25th Street	K Street	Jazz Alley	255	25	50	93	2	5	84	0	16	
12	25th Street	Jazz Alley	J Street	264	25	50	93	2	5	84	0	16	
13	25th Street	J Street	North of J Street	204	25	50	93	2	5	84	0	16	
14	26th Street	South of K Street	K Street	352	30	50	93	2	5	61	0	39	
15	26th Street	K Street	Jazz Alley	356	30	50	93	2	5	61	0	39	
16	26th Street	Jazz Alley	J Street	331	30	50	93	2	5	61	0	39	
17	26th Street	J Street	North of J Street	260	30	50	93	2	5	61	0	39	

**Traffic Noise Prediction Model, (FHWA RD-77-108)**  
**Predicted Noise Levels**



**Project Name** : Yamanee SCEA  
**Project Number** : 60447237  
**Modeling Condition** : Existing + Construction Traffic  
**Metric (Leq, Ldn, CNEL)** : Leq

Segment	Roadway	Segment		Noise Levels, dB Leq				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	J Street	West of 25th Street	25th Street	63.8	57.7	68.8	70.2	53	167	529	1671	5285
2	J Street	25th Street	26th Street	63.8	57.7	68.8	70.3	53	168	531	1679	5310
3	J Street	26th Street	East of 26th Street	64.0	57.9	69.0	70.4	55	175	553	1748	5529
4	Jazz Alley	West of 25th Street	25th Street	43.2	41.0	-20.4	45.2	0	1	2	5	17
5	Jazz Alley	25th Street	26th Street	44.3	42.2	-19.2	46.4	0	1	2	7	22
6	Jazz Alley	26th Street	East of 26th Street	43.6	41.5	-20.0	45.7	0	1	2	6	18
7	K Street	West of 25th Street	25th Street	58.5	53.4	65.0	66.1	21	65	205	649	2052
8	K Street	25th Street	26th Street	58.8	53.7	65.3	66.4	22	69	219	694	2193
9	K Street	26th Street	East of 26th Street	58.6	53.6	65.2	66.3	21	67	212	672	2124
10	25th Street	South of K Street	K Street	54.1	49.0	60.6	61.7	7	24	75	236	747
11	25th Street	K Street	Jazz Alley	53.8	48.8	60.4	61.5	7	22	71	223	705
12	25th Street	Jazz Alley	J Street	54.0	48.9	60.5	61.6	7	23	73	231	730
13	25th Street	J Street	North of J Street	52.9	47.8	59.4	60.5	6	18	56	178	564
14	26th Street	South of K Street	K Street	57.5	51.4	62.5	64.0	12	39	124	393	1244
15	26th Street	K Street	Jazz Alley	57.6	51.5	62.6	64.0	13	40	126	398	1258
16	26th Street	Jazz Alley	J Street	57.2	51.1	62.2	63.7	12	37	117	370	1169
17	26th Street	J Street	North of J Street	56.2	50.1	61.2	62.6	9	29	92	290	919



**Traffic Noise Prediction Model, (FHWA RD-77-108)**  
**Model Input Sheet**



**Project Name :** Yamanee SCEA  
**Project Number :** 60447237  
**Modeling Condition :** Existing  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** NA  
**Traffic Desc. (Peak or ADT) :** ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	J Street	West of 25th Street	25th Street	14310	30	50	97	2	1	61	0	39	
2	J Street	25th Street	26th Street	14380	30	50	97	2	1	61	0	39	
3	J Street	26th Street	East of 26th Street	15000	30	50	97	2	1	61	0	39	
4	Jazz Alley	West of 25th Street	25th Street	300	15	50	97	2	1	84	0	16	
5	Jazz Alley	25th Street	26th Street	600	15	50	97	2	1	84	0	16	
6	Jazz Alley	26th Street	East of 26th Street	400	15	50	97	2	1	84	0	16	
7	K Street	West of 25th Street	25th Street	6770	25	50	97	2	1	84	0	16	
8	K Street	25th Street	26th Street	7280	25	50	97	2	1	84	0	16	
9	K Street	26th Street	East of 26th Street	7030	25	50	97	2	1	84	0	16	
10	25th Street	South of K Street	K Street	2050	25	50	97	2	1	84	0	16	
11	25th Street	K Street	Jazz Alley	1900	25	50	97	2	1	84	0	16	
12	25th Street	Jazz Alley	J Street	1990	25	50	97	2	1	84	0	16	
13	25th Street	J Street	North of J Street	1390	25	50	97	2	1	84	0	16	
14	26th Street	South of K Street	K Street	2870	30	50	97	2	1	61	0	39	
15	26th Street	K Street	Jazz Alley	2910	30	50	97	2	1	61	0	39	
16	26th Street	Jazz Alley	J Street	2660	30	50	97	2	1	61	0	39	
17	26th Street	J Street	North of J Street	1950	30	50	97	2	1	61	0	39	

**Traffic Noise Prediction Model, (FHWA RD-77-108)**  
**Predicted Noise Levels**



**Project Name :** Yamanee SCEA  
**Project Number :** 60447237  
**Modeling Condition :** Existing  
**Metric (Leq, Ldn, CNEL) :** Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	J Street	West of 25th Street	25th Street	66.6	60.3	64.4	69.2	42	132	418	1321	4177
2	J Street	25th Street	26th Street	66.6	60.3	64.4	69.2	42	133	420	1327	4198
3	J Street	26th Street	East of 26th Street	66.8	60.5	64.6	69.4	44	138	438	1385	4379
4	Jazz Alley	West of 25th Street	25th Street	38.4	36.1	-32.3	40.5	0	0	1	2	6
5	Jazz Alley	25th Street	26th Street	41.5	39.1	-29.3	43.5	0	0	1	4	11
6	Jazz Alley	26th Street	East of 26th Street	39.7	37.4	-31.0	41.7	0	0	1	2	7
7	K Street	West of 25th Street	25th Street	58.4	53.1	57.8	61.7	7	24	74	235	744
8	K Street	25th Street	26th Street	58.7	53.4	58.1	62.0	8	25	80	253	800
9	K Street	26th Street	East of 26th Street	58.5	53.3	57.9	61.9	8	24	77	244	773
10	25th Street	South of K Street	K Street	53.2	47.9	52.6	56.5	2	7	23	71	225
11	25th Street	K Street	Jazz Alley	52.9	47.6	52.2	56.2	2	7	21	66	209
12	25th Street	Jazz Alley	J Street	53.1	47.8	52.4	56.4	2	7	22	69	219
13	25th Street	J Street	North of J Street	51.5	46.3	50.9	54.9	2	5	15	48	153
14	26th Street	South of K Street	K Street	59.6	53.3	57.4	62.2	8	26	84	265	838
15	26th Street	K Street	Jazz Alley	59.6	53.4	57.5	62.3	8	27	85	269	849
16	26th Street	Jazz Alley	J Street	59.3	53.0	57.1	61.9	8	25	78	246	776
17	26th Street	J Street	North of J Street	57.9	51.6	55.7	60.6	6	18	57	180	569

**Traffic Noise Prediction Model, (FHWA RD-77-108)**  
**Model Input Sheet**



**Project Name :** Yamanee SCEA  
**Project Number :** 60447237  
**Modeling Condition :** Existing + Project Traffic  
**Ground Type :** Hard  
**Metric (L<sub>eq</sub>, L<sub>dn</sub>, CNEL) :** Ldn

**K Factor :** NA  
**Traffic Desc. (Peak or ADT) :** ADT

Segment	Roadway	Segment		Traffic Vol.	Speed (Mph)	Distance to CL	% Autos	%MT	% HT	Day %	Eve %	Night %	Offset (dB)
		From	To										
1	J Street	West of 25th Street	25th Street	15771	30	50	97	2	1	61	0	39	
2	J Street	25th Street	26th Street	15838	30	50	97	2	1	61	0	39	
3	J Street	26th Street	East of 26th Street	16550	30	50	97	2	1	61	0	39	
4	Jazz Alley	West of 25th Street	25th Street	330	15	50	97	2	1	84	0	16	
5	Jazz Alley	25th Street	26th Street	860	15	50	97	2	1	84	0	16	
6	Jazz Alley	26th Street	East of 26th Street	550	15	50	97	2	1	84	0	16	
7	K Street	West of 25th Street	25th Street	7537	25	50	97	2	1	84	0	16	
8	K Street	25th Street	26th Street	8008	25	50	97	2	1	84	0	16	
9	K Street	26th Street	East of 26th Street	7813	25	50	97	2	1	84	0	16	
10	25th Street	South of K Street	K Street	2325	25	50	97	2	1	84	0	16	
11	25th Street	K Street	Jazz Alley	2240	25	50	97	2	1	84	0	16	
12	25th Street	Jazz Alley	J Street	2239	25	50	97	2	1	84	0	16	
13	25th Street	J Street	North of J Street	1549	25	50	97	2	1	84	0	16	
14	26th Street	South of K Street	K Street	3277	30	50	97	2	1	61	0	39	
15	26th Street	K Street	Jazz Alley	3351	30	50	97	2	1	61	0	39	
16	26th Street	Jazz Alley	J Street	2976	30	50	97	2	1	61	0	39	
17	26th Street	J Street	North of J Street	2155	30	50	97	2	1	61	0	39	

**Traffic Noise Prediction Model, (FHWA RD-77-108)**  
**Predicted Noise Levels**



**Project Name :** Yamanee SCEA  
**Project Number :** 60447237  
**Modeling Condition :** Existing + Project Traffic  
**Metric (Leq, Ldn, CNEL) :** Ldn

Segment	Roadway	Segment		Noise Levels, dB Ldn				Distance to Traffic Noise Contours, Feet				
		From	To	Auto	MT	HT	Total	70 dB	65 dB	60 dB	55 dB	50 dB
1	J Street	West of 25th Street	25th Street	67.0	60.7	64.8	69.6	46	146	460	1456	4604
2	J Street	25th Street	26th Street	67.0	60.7	64.8	69.7	46	146	462	1462	4623
3	J Street	26th Street	East of 26th Street	67.2	60.9	65.0	69.9	48	153	483	1528	4831
4	Jazz Alley	West of 25th Street	25th Street	38.9	36.5	-31.9	40.9	0	0	1	2	6
5	Jazz Alley	25th Street	26th Street	43.0	40.7	-27.7	45.0	0	1	2	5	16
6	Jazz Alley	26th Street	East of 26th Street	41.1	38.8	-29.6	43.1	0	0	1	3	10
7	K Street	West of 25th Street	25th Street	58.8	53.6	58.2	62.2	8	26	83	262	828
8	K Street	25th Street	26th Street	59.1	53.9	58.5	62.5	9	28	88	278	880
9	K Street	26th Street	East of 26th Street	59.0	53.8	58.4	62.3	9	27	86	272	859
10	25th Street	South of K Street	K Street	53.7	48.5	53.1	57.1	3	8	26	81	256
11	25th Street	K Street	Jazz Alley	53.6	48.3	52.9	56.9	2	8	25	78	246
12	25th Street	Jazz Alley	J Street	53.6	48.3	52.9	56.9	2	8	25	78	246
13	25th Street	J Street	North of J Street	52.0	46.7	51.3	55.3	2	5	17	54	170
14	26th Street	South of K Street	K Street	60.2	53.9	58.0	62.8	10	30	96	302	957
15	26th Street	K Street	Jazz Alley	60.3	54.0	58.1	62.9	10	31	98	309	978
16	26th Street	Jazz Alley	J Street	59.7	53.5	57.6	62.4	9	27	87	275	869
17	26th Street	J Street	North of J Street	58.3	52.1	56.2	61.0	6	20	63	199	629