APPENDIX 6.11

Noise Measurements

St. John's Seminary Project – Noise Receptor Map

***Red markers indicate monitoring locations**

A. Castillo de Rosas Residences

B. Woodcreek Road Residences

C. Plata Rosa Court Residences

D. Padre Serra Parish

E. Via Secoya Residences

F. Via Arandana Residences

G. Del Rayo Court Residences

H. Somis Road Residences

Imagery via Google Earth

DKA Planning

Castillo De Rosas Cul de Sac

7/7/2016

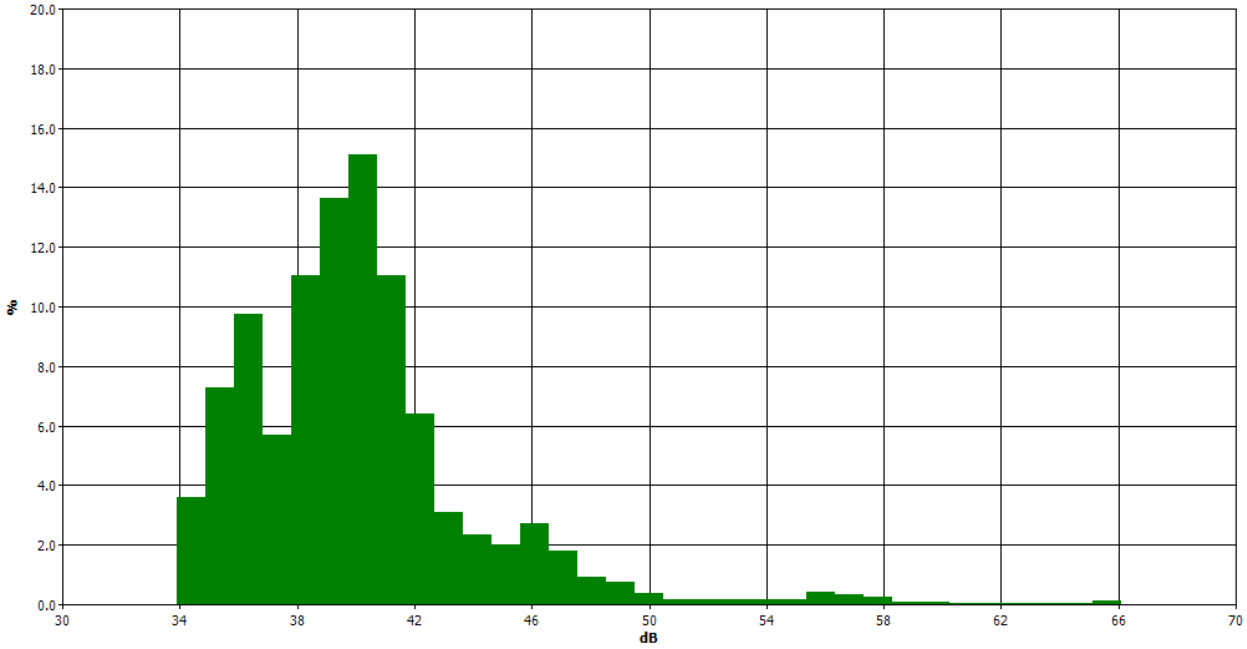
Information Panel

Name	S306_BIJ050019_19092016_193730
Start Time	Thursday, July 7, 2016, 5:10pm
Stop Time	Thursday, July 7, 2016, 5:15pm
Device Model Type	SoundPro DL

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	45.2dB	Exchange Rate	1	3dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	3dB
Weighting	2	C	Response	2	SLOW

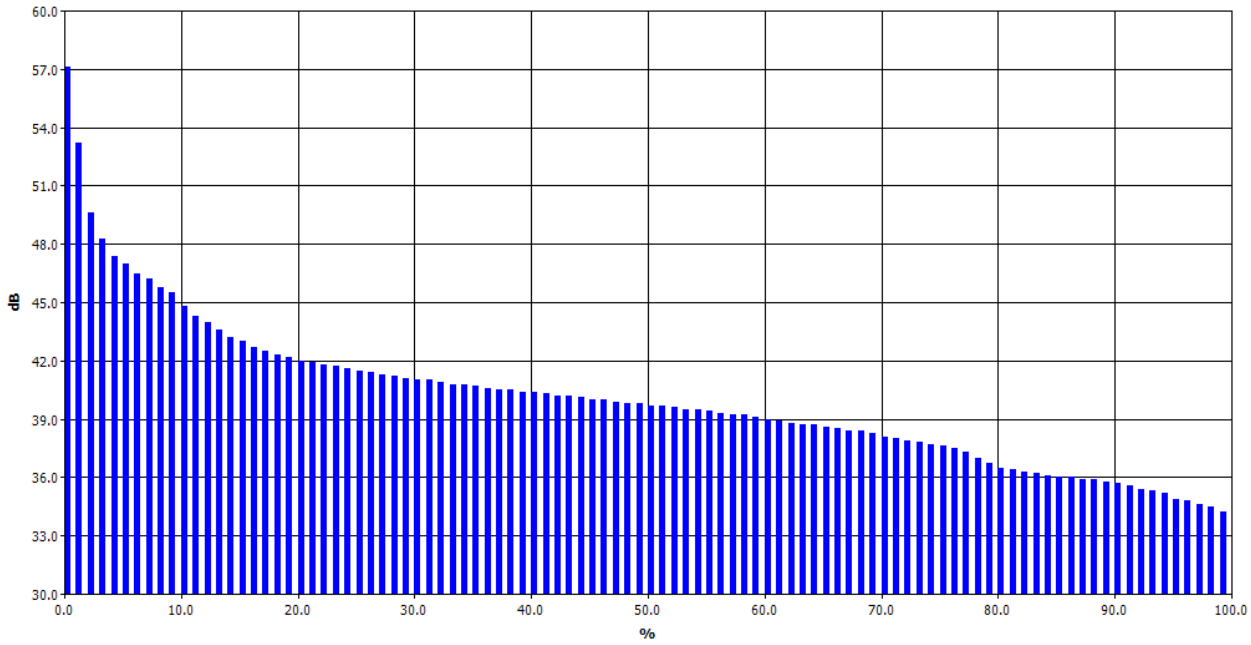
Statistics Chart



Statistics Table

dB	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.06	0.17	0.49	0.60	0.71	0.48	1.07	3.59
35	0.60	0.37	0.41	0.50	0.92	0.62	0.67	0.80	0.80	1.57	7.28
36	1.44	1.79	1.45	1.27	0.76	0.95	0.63	0.48	0.53	0.48	9.77
37	0.35	0.26	0.27	0.37	0.37	0.66	0.65	0.62	0.96	1.19	5.71
38	1.10	1.12	0.69	0.72	0.97	1.20	1.34	1.17	1.42	1.33	11.05
39	1.17	1.20	1.15	1.15	1.21	1.50	1.50	1.50	1.61	1.64	13.63
40	1.46	1.75	1.47	1.37	1.39	1.82	1.74	1.34	1.38	1.37	15.09
41	1.55	1.53	0.97	1.22	1.05	0.76	1.10	0.97	0.94	0.95	11.04
42	0.91	0.96	0.81	0.75	0.44	0.52	0.53	0.49	0.48	0.52	6.42
43	0.40	0.31	0.36	0.35	0.22	0.29	0.28	0.26	0.34	0.29	3.11
44	0.28	0.37	0.25	0.34	0.31	0.22	0.15	0.16	0.13	0.14	2.35
45	0.14	0.13	0.11	0.11	0.18	0.20	0.32	0.30	0.22	0.31	2.03
46	0.30	0.25	0.25	0.32	0.35	0.26	0.22	0.23	0.31	0.22	2.70
47	0.21	0.26	0.18	0.25	0.23	0.17	0.19	0.11	0.09	0.08	1.78
48	0.12	0.11	0.11	0.11	0.08	0.08	0.10	0.10	0.05	0.07	0.93
49	0.08	0.06	0.06	0.07	0.07	0.08	0.07	0.11	0.07	0.09	0.77
50	0.11	0.07	0.03	0.03	0.03	0.03	0.03	0.02	0.01	0.02	0.38
51	0.01	0.02	0.01	0.01	0.01	0.02	0.02	0.01	0.01	0.02	0.15
52	0.01	0.02	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.16
53	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.17
54	0.02	0.01	0.02	0.02	0.03	0.02	0.02	0.01	0.02	0.02	0.19
55	0.01	0.02	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.17
56	0.02	0.02	0.05	0.05	0.04	0.03	0.07	0.07	0.05	0.04	0.44
57	0.06	0.04	0.04	0.03	0.02	0.03	0.02	0.03	0.02	0.05	0.34
58	0.03	0.02	0.03	0.02	0.01	0.02	0.02	0.02	0.03	0.05	0.25
59	0.01	0.01	0.00	0.00	0.01	0.01	0.00	0.01	0.02	0.02	0.09
60	0.00	0.01	0.01	0.00	0.00	0.00	0.01	0.00	0.02	0.01	0.07
61	0.01	0.00	0.01	0.01	0.01	0.00	0.00	0.01	0.02	0.00	0.06
62	0.01	0.01	0.01	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.05
63	0.00	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04
64	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.01	0.01	0.00	0.04
65	0.01	0.00	0.01	0.00	0.01	0.01	0.01	0.01	0.01	0.01	0.05
66	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.02	0.00	0.00	0.12
67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

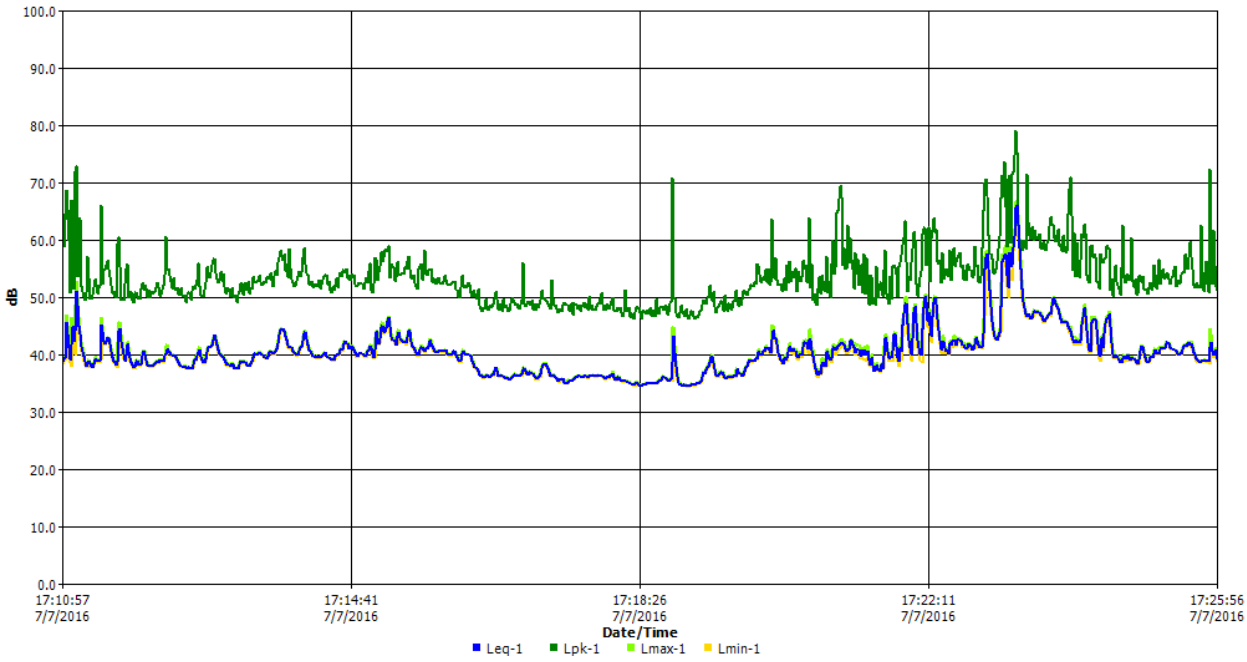
Exceedance Chart



Exceedance Table

	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%
0%		57.1	53.2	49.6	48.3	47.4	47	46.5	46.2	45.8
10%	45.5	44.8	44.3	44	43.6	43.2	43	42.7	42.5	42.3
20%	42.2	42	41.9	41.8	41.7	41.6	41.5	41.4	41.3	41.2
30%	41.1	41	41	40.9	40.8	40.8	40.7	40.6	40.5	40.5
40%	40.4	40.4	40.3	40.2	40.2	40.1	40	40	39.9	39.8
50%	39.8	39.7	39.7	39.6	39.5	39.5	39.4	39.3	39.2	39.2
60%	39.1	39	38.9	38.8	38.7	38.7	38.6	38.5	38.4	38.4
70%	38.3	38.1	38	37.9	37.8	37.7	37.6	37.5	37.3	37
80%	36.7	36.5	36.4	36.3	36.2	36.1	36	36	35.9	35.9
90%	35.8	35.7	35.6	35.4	35.3	35.2	34.9	34.8	34.6	34.5
100%	34.2									

Logged Data Chart



Woodcreek Rd. Bend

7/7/2016

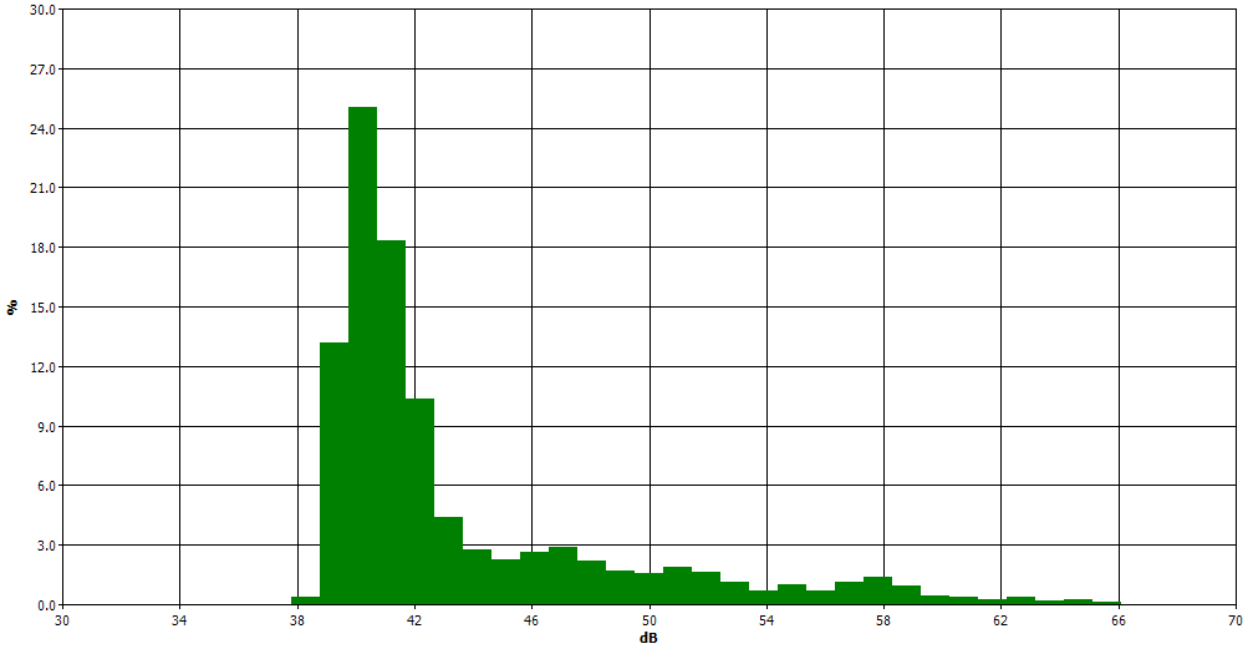
Information Panel

Name	S305_BIJ050019_19092016_193729
Start Time	Thursday, July 7, 2016, 4:49pm
Stop Time	Thursday, July 7, 2016, 5:05pm
Device Model Type	SoundPro DL

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	49.9dB	Exchange Rate	1	3dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	3dB
Weighting	2	C	Response	2	SLOW

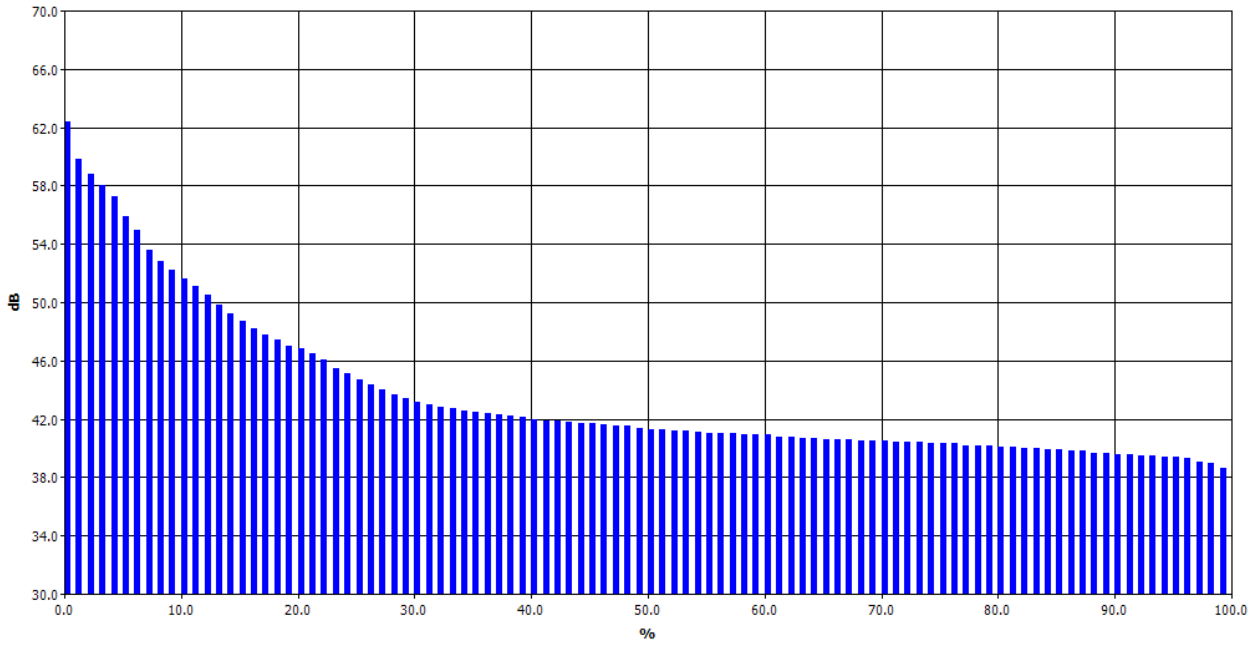
Statistics Chart



Statistics Table

dB	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
32	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
33	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
34	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
37	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.20	0.16	0.39
39	0.37	0.39	0.89	0.94	0.78	1.59	2.02	2.31	2.11	1.76	13.17
40	2.06	1.81	2.22	2.61	3.57	3.04	2.85	2.51	1.93	2.42	25.02
41	2.73	3.16	1.42	1.94	1.56	1.26	1.42	1.65	1.62	1.58	18.34
42	1.44	1.12	0.98	1.20	0.94	0.77	1.01	1.06	0.92	0.91	10.35
43	0.73	0.48	0.42	0.42	0.34	0.44	0.38	0.44	0.40	0.32	4.36
44	0.29	0.28	0.19	0.23	0.27	0.23	0.26	0.28	0.44	0.27	2.74
45	0.26	0.24	0.20	0.35	0.21	0.25	0.18	0.18	0.22	0.16	2.26
46	0.15	0.17	0.17	0.19	0.27	0.32	0.37	0.34	0.31	0.35	2.64
47	0.44	0.37	0.18	0.29	0.40	0.29	0.26	0.21	0.23	0.19	2.86
48	0.20	0.26	0.24	0.21	0.21	0.22	0.20	0.20	0.22	0.23	2.18
49	0.19	0.19	0.22	0.17	0.24	0.19	0.14	0.12	0.11	0.13	1.70
50	0.14	0.17	0.10	0.16	0.15	0.16	0.19	0.18	0.17	0.13	1.56
51	0.16	0.16	0.17	0.22	0.25	0.18	0.22	0.22	0.17	0.11	1.87
52	0.14	0.17	0.18	0.18	0.22	0.17	0.12	0.12	0.12	0.17	1.61
53	0.16	0.17	0.09	0.15	0.19	0.11	0.07	0.07	0.07	0.07	1.15
54	0.07	0.09	0.06	0.06	0.09	0.06	0.07	0.06	0.06	0.08	0.71
55	0.09	0.12	0.08	0.12	0.09	0.09	0.10	0.12	0.11	0.09	1.01
56	0.11	0.08	0.06	0.07	0.06	0.06	0.06	0.06	0.06	0.06	0.67
57	0.06	0.07	0.14	0.14	0.13	0.12	0.12	0.10	0.10	0.15	1.11
58	0.18	0.20	0.19	0.17	0.18	0.10	0.09	0.09	0.08	0.12	1.40
59	0.18	0.17	0.10	0.10	0.07	0.06	0.05	0.07	0.06	0.06	0.91
60	0.07	0.06	0.05	0.04	0.03	0.03	0.04	0.03	0.04	0.05	0.45
61	0.03	0.03	0.02	0.03	0.03	0.03	0.04	0.05	0.04	0.07	0.38
62	0.03	0.03	0.02	0.01	0.02	0.02	0.02	0.03	0.03	0.02	0.24
63	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.07	0.03	0.36
64	0.03	0.02	0.02	0.04	0.01	0.02	0.01	0.01	0.01	0.01	0.21
65	0.02	0.03	0.04	0.02	0.05	0.01	0.01	0.01	0.02	0.01	0.22
66	0.02	0.01	0.02	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.11
67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
68	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
69	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

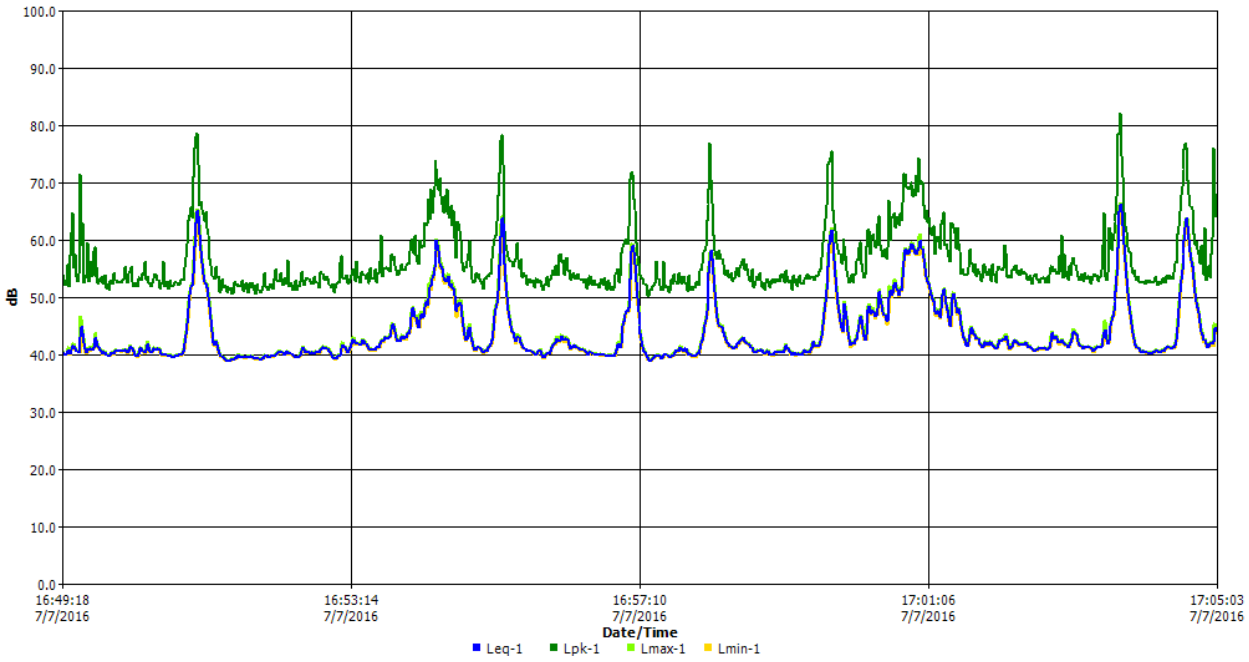
Exceedance Chart



Exceedance Table

	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%
0%		62.4	59.8	58.8	58	57.3	55.9	55	53.6	52.8
10%	52.2	51.6	51.1	50.5	49.8	49.2	48.7	48.2	47.8	47.4
20%	47	46.8	46.5	46.1	45.5	45.1	44.7	44.4	44	43.7
30%	43.4	43.2	43	42.8	42.7	42.6	42.5	42.4	42.3	42.2
40%	42.1	42	41.9	41.9	41.8	41.7	41.7	41.6	41.5	41.5
50%	41.4	41.3	41.3	41.2	41.2	41.1	41	41	41	40.9
60%	40.9	40.9	40.8	40.8	40.7	40.7	40.6	40.6	40.6	40.5
70%	40.5	40.5	40.4	40.4	40.4	40.3	40.3	40.3	40.2	40.2
80%	40.2	40.1	40.1	40	40	39.9	39.9	39.8	39.8	39.7
90%	39.7	39.6	39.6	39.5	39.5	39.4	39.4	39.3	39.1	39
100%	38.6									

Logged Data Chart



Intersection of Upland Rd. and Flynn Rd.

7/7/2016

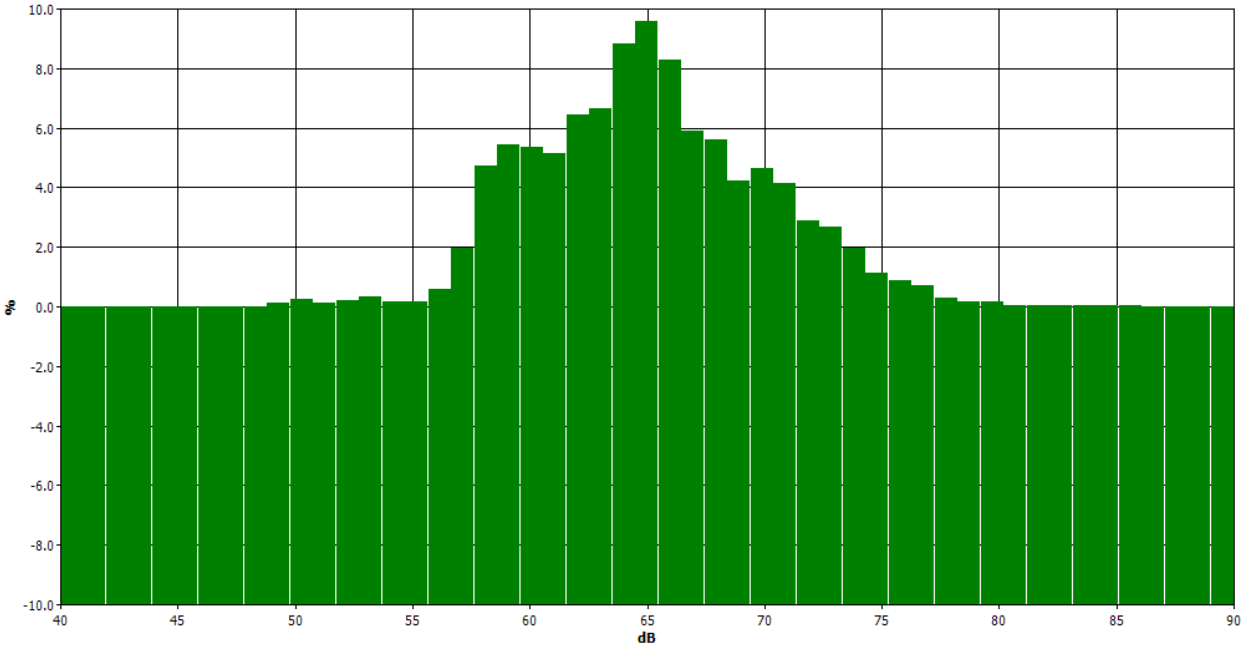
Information Panel

Name	S304_BIJ050019_19092016_193729
Start Time	Thursday, July 7, 2016, 4:00pm
Stop Time	Thursday, July 7, 2016, 4:15pm
Device Model Type	SoundPro DL

General Data Panel

Description	Meter	Value	Description	Meter	Value
Leq	1	68.7dB	Exchange Rate	1	3dB
Weighting	1	A	Response	1	SLOW
Bandwidth	1	OFF	Exchange Rate	2	3dB
Weighting	2	C	Response	2	SLOW

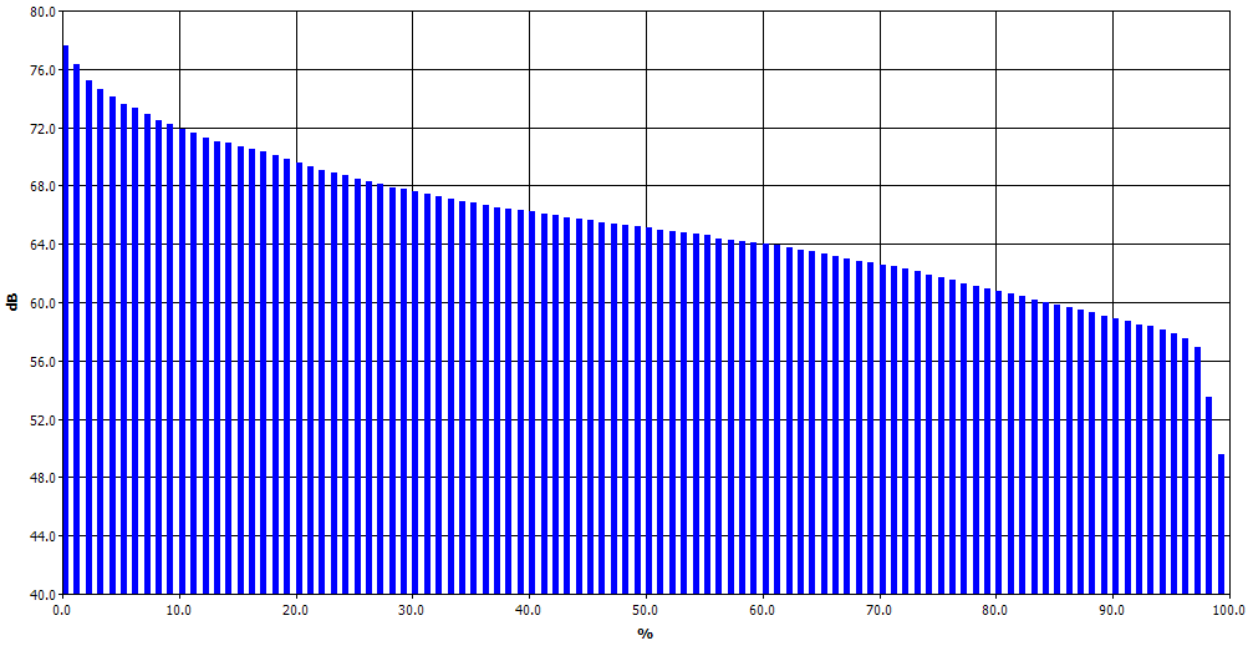
Statistics Chart



Statistics Table

dB	0	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	%
40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
41	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
44	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
45	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
47	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
49	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.05	0.05	0.14
50	0.06	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.02	0.27
51	0.01	0.01	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.13
52	0.01	0.01	0.01	0.02	0.02	0.01	0.02	0.01	0.01	0.08	0.21
53	0.09	0.03	0.02	0.03	0.04	0.02	0.02	0.02	0.02	0.02	0.33
54	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0.18
55	0.01	0.02	0.01	0.02	0.01	0.02	0.02	0.02	0.02	0.02	0.17
56	0.05	0.05	0.03	0.06	0.07	0.05	0.06	0.06	0.06	0.09	0.57
57	0.07	0.08	0.11	0.19	0.15	0.24	0.23	0.24	0.34	0.32	1.97
58	0.37	0.36	0.45	0.34	0.50	0.49	0.59	0.58	0.54	0.49	4.72
59	0.44	0.47	0.52	0.61	0.63	0.53	0.58	0.53	0.44	0.67	5.43
60	0.49	0.42	0.45	0.57	0.57	0.69	0.55	0.53	0.51	0.55	5.34
61	0.66	0.50	0.57	0.54	0.58	0.44	0.42	0.40	0.52	0.50	5.14
62	0.59	0.56	0.50	0.38	0.65	0.71	0.91	0.74	0.74	0.65	6.44
63	0.59	0.63	0.73	0.74	0.73	0.55	0.54	0.72	0.76	0.68	6.66
64	0.79	0.95	0.90	0.88	1.00	0.83	0.72	0.74	0.86	1.14	8.81
65	1.06	1.03	1.18	0.71	1.25	1.02	0.77	0.88	0.82	0.88	9.60
66	0.89	0.84	0.84	0.81	0.87	0.97	0.84	0.86	0.70	0.69	8.30
67	0.64	0.63	0.56	0.62	0.63	0.55	0.50	0.59	0.60	0.57	5.89
68	0.73	0.72	0.80	0.42	0.48	0.44	0.48	0.42	0.52	0.59	5.60
69	0.45	0.45	0.49	0.44	0.39	0.52	0.36	0.39	0.36	0.38	4.23
70	0.40	0.36	0.37	0.38	0.48	0.51	0.57	0.60	0.51	0.48	4.64
71	0.57	0.70	0.47	0.28	0.45	0.39	0.34	0.31	0.34	0.32	4.15
72	0.35	0.33	0.36	0.39	0.26	0.26	0.24	0.22	0.20	0.28	2.89
73	0.24	0.23	0.31	0.31	0.32	0.31	0.32	0.22	0.18	0.23	2.69
74	0.17	0.18	0.26	0.18	0.17	0.28	0.28	0.23	0.14	0.09	1.99
75	0.11	0.18	0.13	0.18	0.10	0.09	0.08	0.07	0.07	0.11	1.13
76	0.11	0.09	0.08	0.09	0.09	0.07	0.09	0.06	0.10	0.08	0.87
77	0.06	0.15	0.11	0.09	0.04	0.03	0.03	0.04	0.07	0.09	0.72
78	0.06	0.10	0.03	0.04	0.01	0.01	0.01	0.01	0.01	0.01	0.31
79	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.02	0.16
80	0.02	0.02	0.02	0.02	0.04	0.03	0.00	0.00	0.00	0.00	0.15
81	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.03
82	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03
83	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.03
84	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03
85	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03
86	0.01	0.00	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.03
87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
88	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
89	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

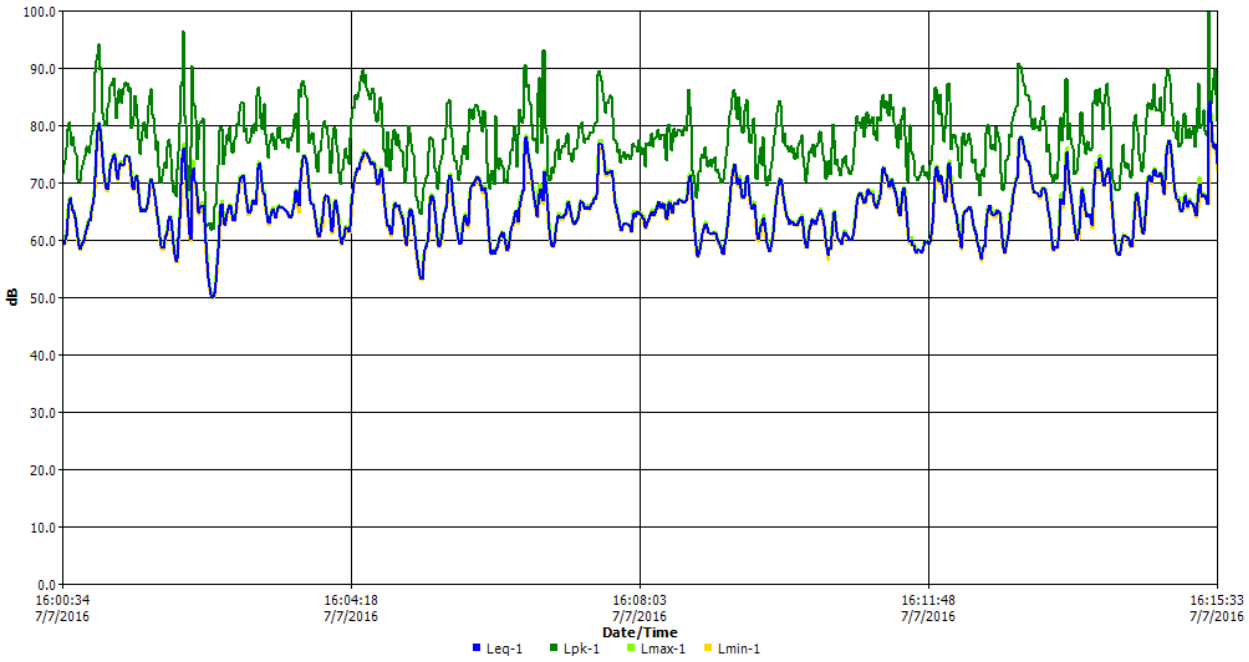
Exceedance Chart



Exceedance Table

	0%	1%	2%	3%	4%	5%	6%	7%	8%	9%
0%		77.6	76.3	75.2	74.6	74.1	73.6	73.3	72.9	72.5
10%	72.2	71.9	71.6	71.3	71	70.9	70.7	70.5	70.3	70.1
20%	69.8	69.6	69.3	69.1	68.9	68.7	68.5	68.3	68.1	67.9
30%	67.8	67.6	67.4	67.3	67.1	66.9	66.8	66.7	66.5	66.4
40%	66.3	66.2	66.1	66	65.8	65.7	65.6	65.5	65.4	65.3
50%	65.2	65.1	65	64.9	64.8	64.7	64.6	64.4	64.3	64.2
60%	64.1	64	63.9	63.8	63.6	63.5	63.3	63.2	63	62.8
70%	62.7	62.6	62.5	62.3	62.1	61.9	61.7	61.5	61.3	61.1
80%	60.9	60.8	60.6	60.4	60.2	60	59.8	59.7	59.5	59.3
90%	59.1	58.9	58.7	58.5	58.4	58.1	57.9	57.5	56.9	53.5
100%	49.6									

Logged Data Chart



Castillo de Rosas Residences: SITE PREP/DEMOLITION

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Castillo de Rosas Residences: SITE PREP/DEMOLITION

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1	
Cumulative Shielding	0	
G	0	
D	100	*Distance from source to receptor
Unmitigated Construction Noise	**73.1**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	73.1	
Existing Ambient Noise	45.2	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Unmitigated Ambient Noise	73.1	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**27.9**	

Castillo de Rosas Residences: SITE PREP/DEMOLITION

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

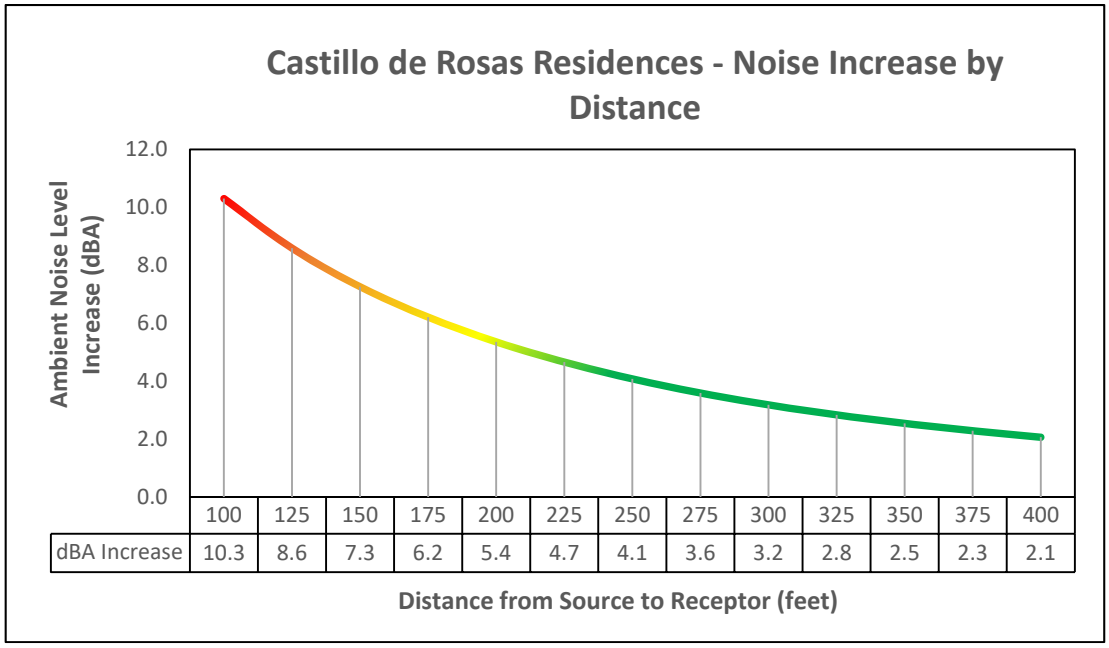
Mitigated Construction Noise Level

Total Equipment Noise Level	76.1	
Cumulative Shielding	0	
Sound Barrier Shielding	15	
G	0	
D	100	*Distance from source to receptor
Mitigated Construction Noise	**55.1**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	55.1	
Existing Ambient Noise	45.2	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	55.5	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**10.3**	

Castillo de Rosas Residences: SITE PREP/DEMOLITION



	100	125	150	175	200	225	250	275	300	325	350	375	400
dBA Increase	10.3	8.6	7.3	6.2	5.4	4.7	4.1	3.6	3.2	2.8	2.5	2.3	2.1

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Woodcreek Road Residences: SITE PREP/DEMOLITION

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

Terrain	5
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**5**

Woodcreek Road Residences: SITE PREP/DEMOLITION

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1	
Cumulative Shielding	5	
G	0.23	
D	200	*Distance from source to receptor
Unmitigated Construction Noise	**60.7**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	60.7	
Existing Ambient Noise	49.9	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Unmitigated Ambient Noise	61.1	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**11.2**	

Woodcreek Road Residences: SITE PREP/DEMOLITION

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

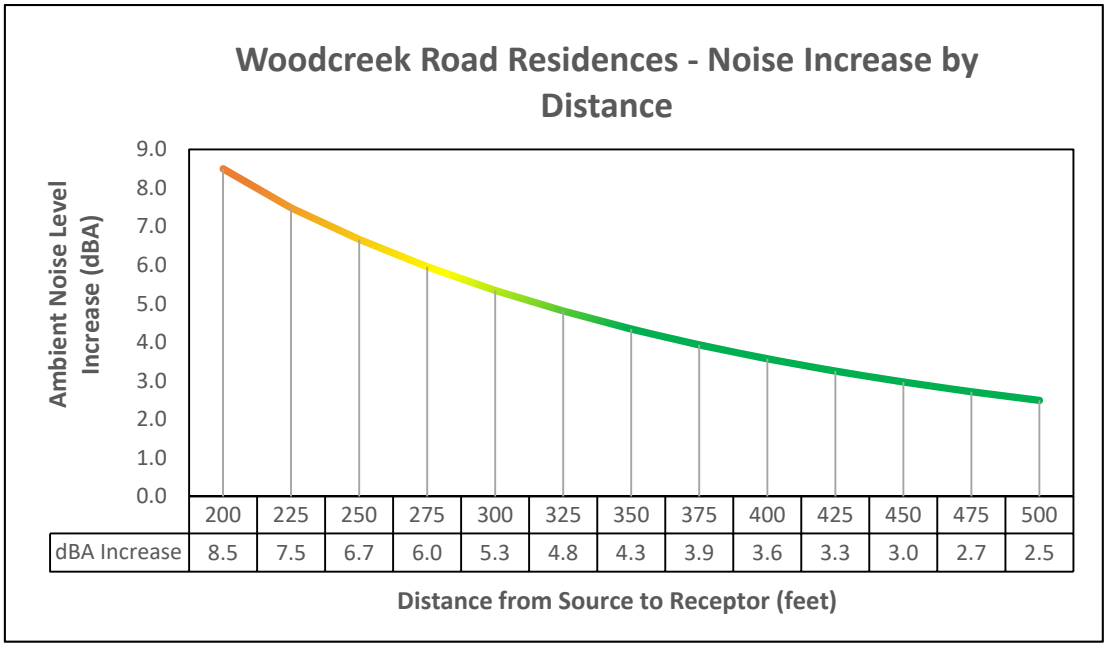
Mitigated Construction Noise Level

Total Equipment Noise Level	76.1	
Cumulative Shielding	5	
Sound Barrier Shielding	0	
G	0.23	
D	200	*Distance from source to receptor
Mitigated Construction Noise	**57.7**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	57.7	
Existing Ambient Noise	49.9	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	58.4	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**8.5**	

Woodcreek Road Residences: SITE PREP/DEMOLITION



Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Plata Rosa Cul de Sac Residences: SITE PREP/DEMOLITION

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Plata Rosa Cul de Sac Residences: SITE PREP/DEMOLITION

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1	
Cumulative Shielding	0	
G	0	
D	100	*Distance from source to receptor
Unmitigated Construction Noise	**73.1**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	73.1	
Existing Ambient Noise	45.2	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Unmitigated Ambient Noise	73.1	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**27.9**	

Plata Rosa Cul de Sac Residences: SITE PREP/DEMOLITION

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

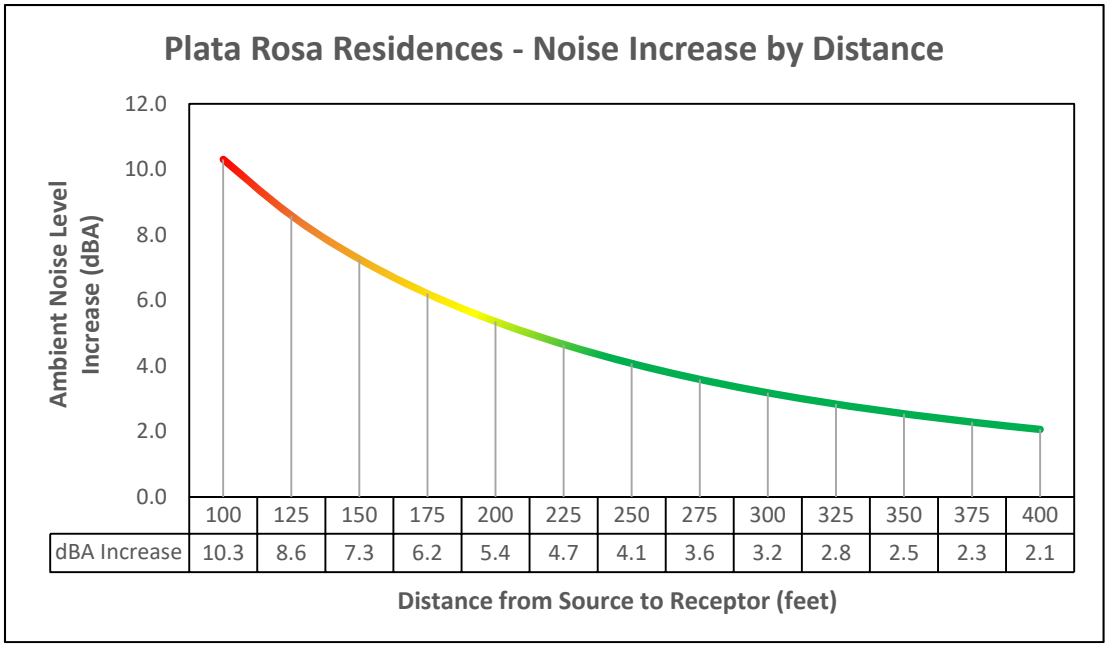
Mitigated Construction Noise Level

Total Equipment Noise Level	76.1	
Cumulative Shielding	0	
Sound Barrier Shielding	15	
G	0	
D	100	*Distance from source to receptor
Mitigated Construction Noise	**55.1**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	55.1	
Existing Ambient Noise	45.2	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	55.5	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**10.3**	

Plata Rosa Cul de Sac Residences: SITE PREP/DEMOLITION



	100	125	150	175	200	225	250	275	300	325	350	375	400
dBA Increase	10.3	8.6	7.3	6.2	5.4	4.7	4.1	3.6	3.2	2.8	2.5	2.3	2.1

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Padre Serra Parish: SITE PREP/DEMOLITION

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Construction Noise Impact Analysis

Padre Serra Parish: SITE PREP/DEMOLITION

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1	
Cumulative Shielding	0	
G	0	
D	150	*Distance from source to receptor
Unmitigated Construction Noise	**69.6**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	69.6	
Existing Ambient Noise	52.8	*Represents estimated ambient noise conditions.
Unmitigated Ambient Noise	69.7	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**16.9**	

Estimated Ambient Noise Level at Receptor

Monitored Noise Level	68.7	
Reference Distance	45	*from monitoring location to centerline of Upland Road.
G	0	
D	280	*Distance from noise source to receptor
Estimated Noise Level	**52.8**	

Padre Serra Parish: SITE PREP/DEMOLITION

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

Mitigated Construction Noise Level

Total Equipment Noise Level	76.1	
Cumulative Shielding	0	
Sound Barrier Shielding	15	
G	0	
D	150	*Distance from source to receptor
Mitigated Construction Noise	**51.6**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	51.6	
Existing Ambient Noise	52.8	*Represents estimated ambient noise conditions
Mitigated Ambient Noise	55.3	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**2.5**	

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Via Secoya Residences: SITE PREP/DEMOLITION

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Construction Noise Impact Analysis

Via Secoya Residences: SITE PREP/DEMOLITION

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1	
Cumulative Shielding	0	
G	0	
D	700	*Distance from source to receptor
Unmitigated Construction Noise	**56.2**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	56.2	
Existing Ambient Noise	50.3	*Represents estimated ambient noise conditions.
Unmitigated Ambient Noise	57.2	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**6.9**	

Estimated Ambient Noise Level at Receptor

Monitored Noise Level	68.7	
Reference Distance	45	*from monitoring location to centerline of Upland Road.
G	0	
D	375	*Distance from noise source to receptor
Estimated Noise Level	**50.3**	

Via Secoya Residences: SITE PREP/DEMOLITION

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

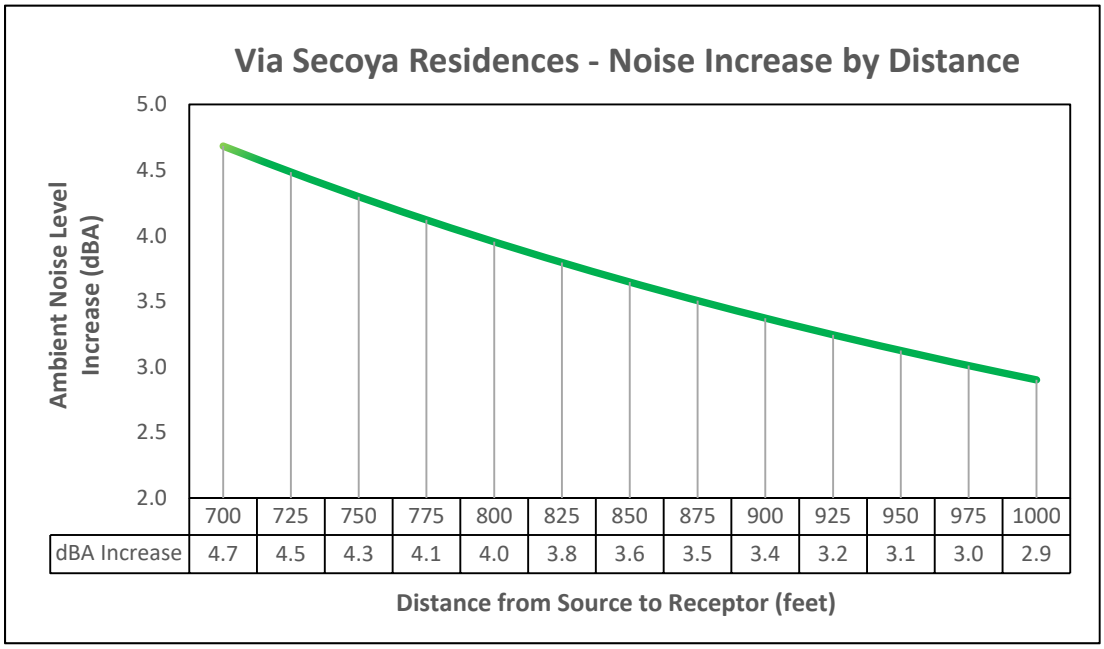
Mitigated Construction Noise Level

Total Equipment Noise Level	76.1	
Cumulative Shielding	0	
Sound Barrier Shielding	0	
G	0	
D	700	*Distance from source to receptor
Mitigated Construction Noise	**53.2**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	53.2	
Existing Ambient Noise	50.3	*Represents estimated ambient noise conditions.
Mitigated Ambient Noise	55.0	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**4.7**	

Via Secoya Residences: SITE PREP/DEMOLITION



	700	725	750	775	800	825	850	875	900	925	950	975	1000
dBA Increase	4.7	4.5	4.3	4.1	4.0	3.8	3.6	3.5	3.4	3.2	3.1	3.0	2.9

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Via Arandana Residences: SITE PREP/DEMOLITION

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Excavator	81	0.4	77.0
Loader	79	0.4	75.0
		Combined dBA	**79.1**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Via Arandana Residences: SITE PREP/DEMOLITION

Unmitigated Construction Noise Level

Total Equipment Noise Level	79.1	
Cumulative Shielding	0	
G	0	
D	650	*Distance from source to receptor
Unmitigated Construction Noise	**56.9**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	56.9	
Existing Ambient Noise	68.7	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Unmitigated Ambient Noise	69.0	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**0.3**	

Via Arandana Residences: SITE PREP/DEMOLITION

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Excavator	81	0.4	3	74.0
Loader	79	0.4	3	72.0
		Combined dBA, Mitigated		**76.1**

Mitigated Construction Noise Level

Total Equipment Noise Level	76.1	
Cumulative Shielding	0	
Sound Barrier Shielding	0	
G	0	
D	650	*Distance from source to receptor
Mitigated Construction Noise	**53.9**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	53.9	
Existing Ambient Noise	68.7	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	68.8	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**0.1**	

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Castillo de Rosas Residences: GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Scraper	84	0.4	80.0
		Combined dBA	**80.0**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Castillo de Rosas Residences: GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	80.0	
Cumulative Shielding	0	
G	0	
D	100	*Distance from source to receptor
Unmitigated Construction Noise	**74.0**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	74.0	
Existing Ambient Noise	45.2	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Unmitigated Ambient Noise	74.0	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**28.8**	

Castillo de Rosas Residences: GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Scraper	84	0.4	3	77.0
		Combined dBA, Mitigated		**77.0**

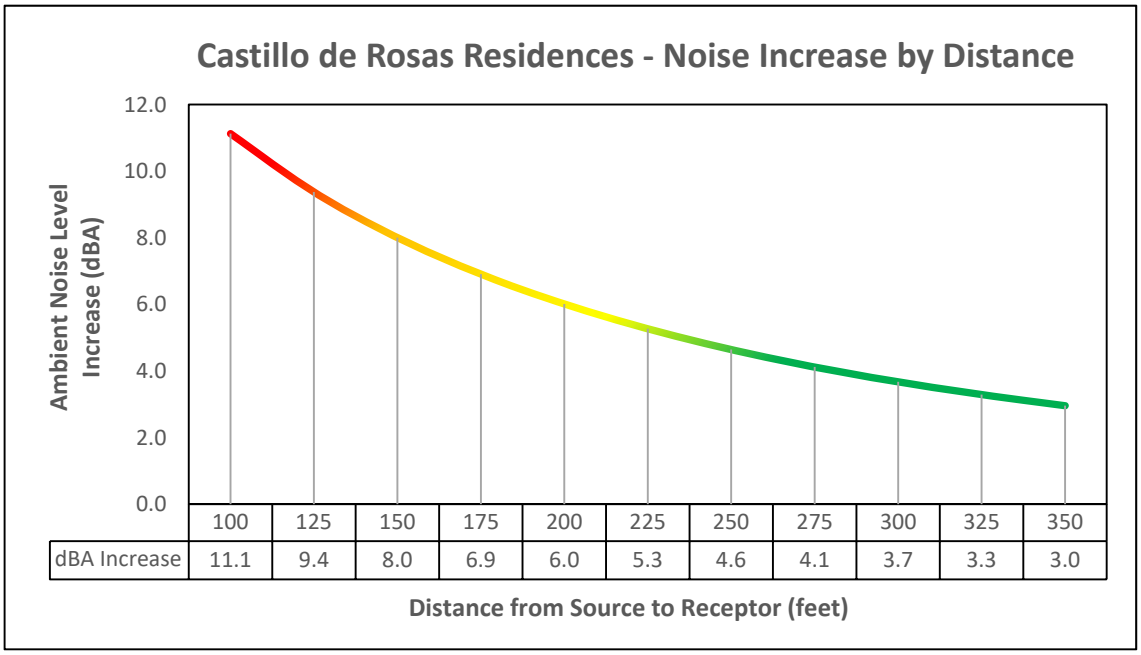
Mitigated Construction Noise Level

Total Equipment Noise Level	77.0	
Cumulative Shielding	0	
Sound Barrier Shielding	15	
G	0	
D	100	*Distance from source to receptor
Mitigated Construction Noise	**56.0**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	56.0	
Existing Ambient Noise	45.2	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	56.3	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**11.1**	

Castillo de Rosas Residences: GRADING



	100	125	150	175	200	225	250	275	300	325	350
dBA Increase	11.1	9.4	8.0	6.9	6.0	5.3	4.6	4.1	3.7	3.3	3.0

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Woodcreek Road Residences: GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Scraper	84	0.4	80.0
		Combined dBA	**80.0**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

Terrain	5
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**5**

Woodcreek Road Residences: GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	80.0	
Cumulative Shielding	5	
G	0.23	
D	200	*Distance from source to receptor
Unmitigated Construction Noise	**61.6**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	61.6	
Existing Ambient Noise	49.9	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Unmitigated Ambient Noise	61.9	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**12.0**	

Woodcreek Road Residences: GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Scraper	84	0.4	3	77.0
		Combined dBA, Mitigated		**77.0**

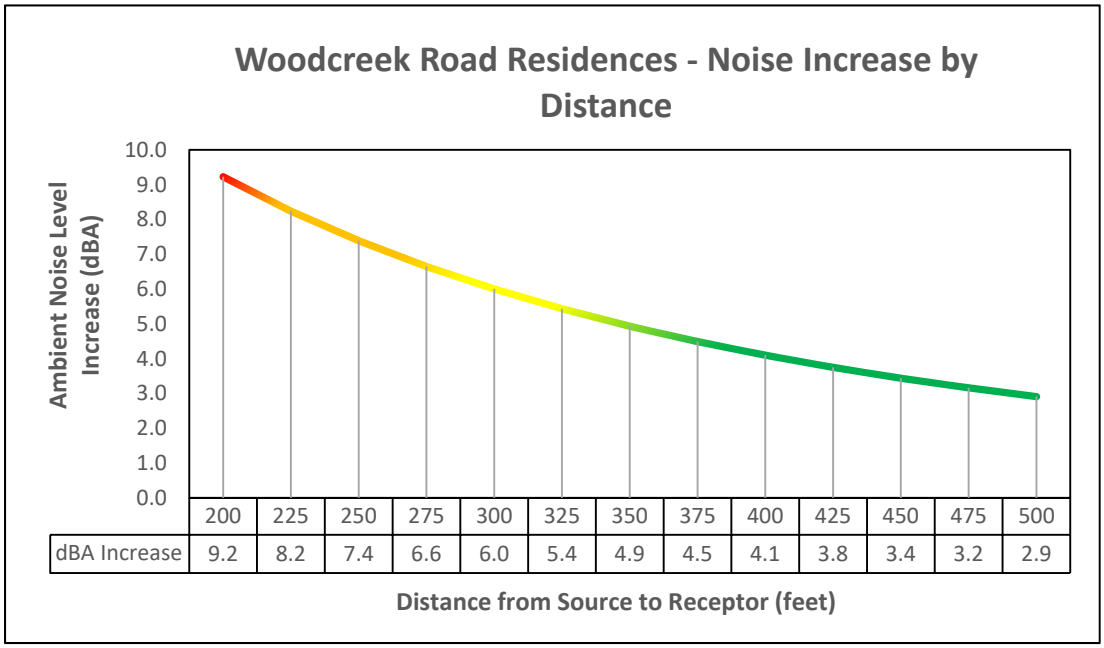
Mitigated Construction Noise Level

Total Equipment Noise Level	77.0	
Cumulative Shielding	5	
Sound Barrier Shielding	0	
G	0.23	
D	200	*Distance from source to receptor
Mitigated Construction Noise	**58.6**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	58.6	
Existing Ambient Noise	49.9	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	59.1	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**9.2**	

Woodcreek Road Residences: GRADING



Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Plata Rosa Cul de Sac Residences: Grading

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Scraper	84	0.4	80.0
		Combined dBA	**80.0**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Plata Rosa Cul de Sac Residences: Grading

Unmitigated Construction Noise Level

Total Equipment Noise Level	80.0	
Cumulative Shielding	0	
G	0	
D	100	*Distance from source to receptor
Unmitigated Construction Noise	**74.0**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	74.0	
Existing Ambient Noise	45.2	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Unmitigated Ambient Noise	74.0	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**28.8**	

Plata Rosa Cul de Sac Residences: Grading

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Scraper	84	0.4	3	77.0
		Combined dBA, Mitigated		**77.0**

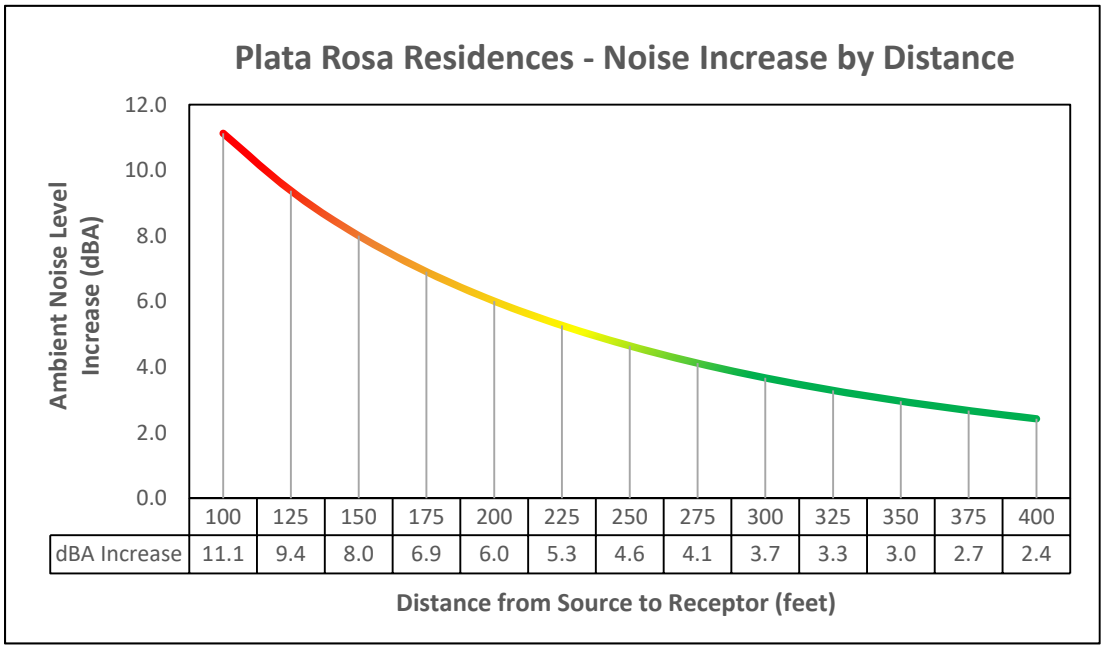
Mitigated Construction Noise Level

Total Equipment Noise Level	77.0	
Cumulative Shielding	0	
Sound Barrier Shielding	15	
G	0	
D	100	*Distance from source to receptor
Mitigated Construction Noise	**56.0**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	56.0	
Existing Ambient Noise	45.2	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	56.3	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**11.1**	

Plata Rosa Cul de Sac Residences: Grading



	100	125	150	175	200	225	250	275	300	325	350	375	400
dBA Increase	11.1	9.4	8.0	6.9	6.0	5.3	4.6	4.1	3.7	3.3	3.0	2.7	2.4

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Padre Serra Parish: GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Scraper	84	0.4	80.0
		Combined dBA	**80.0**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Construction Noise Impact Analysis

Padre Serra Parish: GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	80.0	
Cumulative Shielding	0	
G	0	
D	150	*Distance from source to receptor
Unmitigated Construction Noise	**70.5**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	70.5	
Existing Ambient Noise	52.8	*Represents estimated ambient noise conditions.
Unmitigated Ambient Noise	70.6	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**17.8**	

Estimated Ambient Noise Level at Receptor

Monitored Noise Level	68.7	
Reference Distance	45	*from monitoring location to centerline of Upland Road.
G	0	
D	280	*Distance from noise source to receptor
Estimated Noise Level	**52.8**	

Padre Serra Parish: GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Scraper	84	0.4	3	77.0
		Combined dBA, Mitigated		**77.0**

Mitigated Construction Noise Level

Total Equipment Noise Level	77.0	
Cumulative Shielding	0	
Sound Barrier Shielding	15	
G	0	
D	150	*Distance from source to receptor
Mitigated Construction Noise	**52.5**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	52.5	
Existing Ambient Noise	52.8	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	55.7	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**2.9**	

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Via Secoya Residences: GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Scraper	84	0.4	80.0
		Combined dBA	**80.0**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Construction Noise Impact Analysis

Via Secoya Residences: GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	80.0	
Cumulative Shielding	0	
G	0	
D	700	*Distance from source to receptor
Unmitigated Construction Noise	**57.1**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	57.1	
Existing Ambient Noise	50.3	*Represents estimated ambient noise conditions.
Unmitigated Ambient Noise	57.9	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**7.6**	

Estimated Ambient Noise Level at Receptor

Monitored Noise Level	68.7	
Reference Distance	45	*from monitoring location to centerline of Upland Road.
G	0	
D	375	*Distance from noise source to receptor
Estimated Noise Level	**50.3**	

Via Secoya Residences: GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Scraper	84	0.4	3	77.0
		Combined dBA, Mitigated		**77.0**

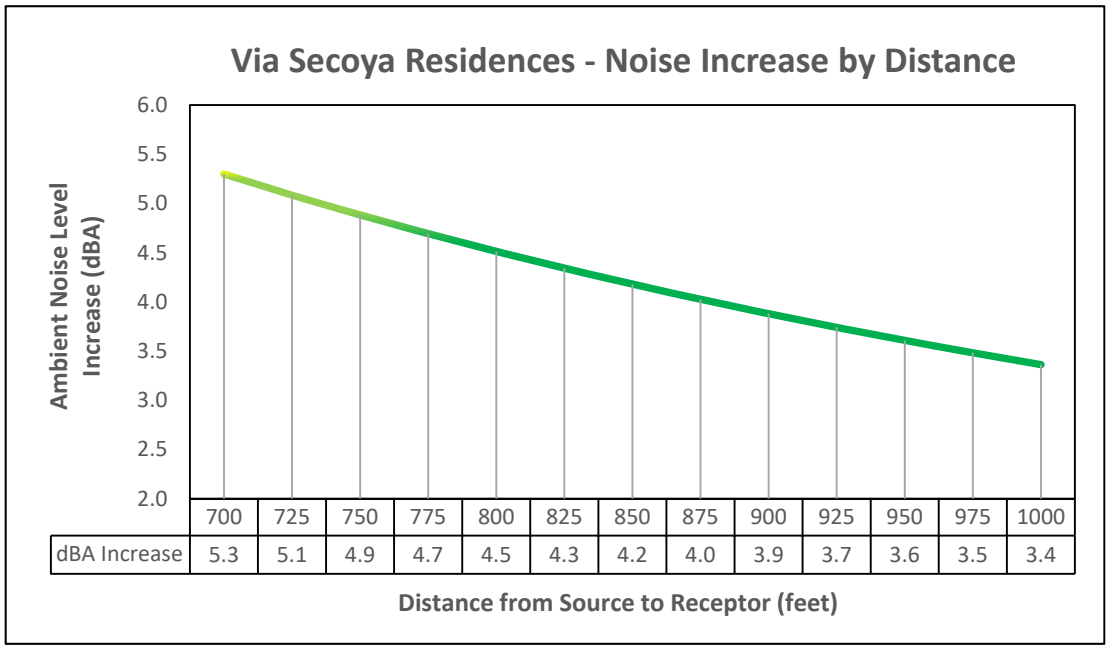
Mitigated Construction Noise Level

Total Equipment Noise Level	77.0	
Cumulative Shielding	0	
Sound Barrier Shielding	0	
G	0	
D	700	*Distance from source to receptor
Mitigated Construction Noise	**54.1**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	54.1	
Existing Ambient Noise	50.3	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	55.6	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**5.3**	

Via Secoya Residences: GRADING



	700	725	750	775	800	825	850	875	900	925	950	975	1000
dBA Increase	5.3	5.1	4.9	4.7	4.5	4.3	4.2	4.0	3.9	3.7	3.6	3.5	3.4

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Via Arandana Residences: GRADING

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Scraper	84	0.4	80.0
		Combined dBA	**80.0**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Via Arandana Residences: GRADING

Unmitigated Construction Noise Level

Total Equipment Noise Level	80.0	
Cumulative Shielding	0	
G	0	
D	650	*Distance from source to receptor
Unmitigated Construction Noise	**57.7**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	57.7	
Existing Ambient Noise	68.7	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Unmitigated Ambient Noise	69.0	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**0.3**	

Via Arandana Residences: GRADING

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Scraper	84	0.4	3	77.0
		Combined dBA, Mitigated		**77.0**

Mitigated Construction Noise Level

Total Equipment Noise Level	77.0	
Cumulative Shielding	0	
Sound Barrier Shielding	0	
G	0	
D	650	*Distance from source to receptor
Mitigated Construction Noise	**54.7**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	54.7	
Existing Ambient Noise	68.7	*Represents existing ambient noise conditions, as recorded in monitoring studies.
Mitigated Ambient Noise	68.9	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**0.2**	

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Somis Road Residences: PARKLAND DEVELOPMENT

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Dozer	82	0.4	78.0
		Combined dBA	**78.0**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Somis Road Residences: PARKLAND DEVELOPMENT

Unmitigated Construction Noise Level

Total Equipment Noise Level	78.0	
Cumulative Shielding	0	
G	0	
D	30	*Distance from source to receptor
Unmitigated Construction Noise	**78.0**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigated Construction Noise	78.0	
Existing Ambient Noise	72	*Represents existing ambient noise conditions
Unmitigated Ambient Noise	79.0	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**7.0**	

Somis Road Residences: PARKLAND DEVELOPMENT

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Dozer	82	0.4	3	75.0
		Combined dBA, Mitigated		**75.0**

Mitigated Construction Noise Level

Total Equipment Noise Level	75.0	
Cumulative Shielding	0	
Sound Barrier Shielding	10	
G	0	
D	30	*Distance from source to receptor
Mitigated Construction Noise	**65.0**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	65.0	
Existing Ambient Noise	72	*Represents existing ambient noise conditions
Mitigated Ambient Noise	72.8	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**0.8**	

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

Del Rayo Court Residences: PARKLAND DEVELOPMENT

Construction Noise - Unmitigated

Total Equipment Noise Levels

Source	Emission Level (dBA)	Usage Factor	Adjusted dBA
Dozer	82	0.4	78.0
		Combined dBA	**78.0**

Housing Row Shielding

If gaps in the row of buildings constitute less than 35% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute between 35-65% of the length of the row:		
R	0	*number of rows of houses between source and receiver
A(buildings)	**0**	

If gaps in the row of buildings constitute more than 65% of the length of the row:		
A(buildings)	**0**	

Tree Zone Shielding

Where at least 100 feet of trees intervene between source and receiver, ***and*** *if no clear line of sight exists between source and receiver,* ***and*** *if the trees extend 15 feet or more above the line of sight:*		
W	0	*width of the tree zone along the line of sight between source and receiver, in feet.
A(trees)	**0**	

Cumulative Shielding

X	0
X	0
X	0
Buildings(1)	0
Buildings(2)	0
Tree Zone	0
Cumulative	**0**

Del Rayo Court Residences: PARKLAND DEVELOPMENT

Unmitigated Construction Noise Level

Total Equipment Noise Level	78.0	
Cumulative Shielding	0	
G	0	
D	175	*Distance from source to receptor
Unmitigated Construction Noise	**67.1**	*Represents level of unmitigated construction noise at receptor location

Unmitigated Receptor Noise Level

Unmitigaed Construction Noise	67.1	
Existing Ambient Noise	68.7	*Represents existing ambient noise conditions
Unmitigated Ambient Noise	71.0	*Represents projected ambient noise conditions with the addition of unmitigated construction noise.
Unmitigated Increase	**2.3**	

Construction Noise - Mitigated

Construction Equipment Mitigation

Source	Emission Level (dBA)	Usage Factor	Mitigative Attenuation	Adjusted dBA
Dozer	82	0.4	3	75.0
		Combined dBA, Mitigated		**75.0**

Mitigated Construction Noise Level

Total Equipment Noise Level	75.0	
Cumulative Shielding	0	
Sound Barrier Shielding	0	
G	0	
D	175	*Distance from source to receptor
Mitigated Construction Noise	**64.1**	*Represents level of mitigated construction noise at receptor location.

Mitigated Receptor Noise Level

Mitigated Construction Noise	64.1	
Existing Ambient Noise	68.7	*Represents existing ambient noise conditions
Mitigated Ambient Noise	70.0	*Represents projected ambient noise conditions with the addition of mitigated construction noise.
Mitigated Increase	**1.3**	

Sources

Federal Highway Administration (FHWA), *Construction Noise Handbook* , August 2006

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006

California Department of Transportation, *Technical Noise Supplement to the Traffic Noise Analysis Protocol* , September 2013

St. John's Seminary Project - Unmitigated

Construction Vibration - PPV

Receptor: Castillo de Rosas Residences
Equipment: Large Bulldozer

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	100
Unmitigated Vibration Level (in/sec)	**0.022**

Receptor: Woodcreek Road Residences
Equipment: Large Bulldozer

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	200
Unmitigated Vibration Level (in/sec)	**0.011**

Receptor: Plata Rosa Court Residences
Equipment: Large Bulldozer

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	100
Unmitigated Vibration Level (in/sec)	**0.022**

Receptor: Padre Serra Parish
Equipment: Caisson Drilling, Large Bulldozer

Source PPV (in/sec)	0.089
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	150
Unmitigated Vibration Level (in/sec)	**0.015**

Receptor: Somis Road Residences
Equipment: Small Bulldozer

Source PPV (in/sec)	0.003
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	30
Unmitigated Vibration Level (in/sec)	**0.003**

Receptor: Del Rayo Court Residences
Equipment: Small Bulldozer

Source PPV (in/sec)	0.003
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	175
Unmitigated Vibration Level (in/sec)	**0.000**

Construction Vibration - VdB

Receptor: Castillo de Rosas Residences
Equipment: Large Bulldozer

Source VdB	87
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	100
Unmitigated Vibration Level (VdB)	**68.9**

Receptor: Woodcreek Road Residences
Equipment: Large Bulldozer

Source VdB	87
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	200
Unmitigated Vibration Level (VdB)	**59.9**

Receptor: Plata Rosa Court Residences
Equipment: Large Bulldozer

Source VdB	87
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	100
Unmitigated Vibration Level (VdB)	**68.9**

Receptor: Padre Serra Parish
Equipment: Large Bulldozer

Source VdB	87
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	150
Unmitigated Vibration Level (VdB)	**63.7**

St. John's Seminary Project - Unmitigated

Receptor: Somis Road Residences
Equipment: Small Bulldozer

Source VdB	58
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	30
Unmitigated Vibration Level (VdB)	**55.6**

Receptor: Del Rayo Court Residences
Equipment: Small Bulldozer

Source VdB	58
Reference Distance (ft)	25
Ground Factor (N)	1
Distance (ft)	175
Unmitigated Vibration Level (VdB)	**32.6**

Sources

Federal Transit Administration (FTA), *Transit Noise and Vibration Assessment* , May 2006
California Department of Transportation, *Transportation and Construction Vibration Guidance Manual*, September 2013

DKA Planning
Noah Tanski
23 September 2016
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X1: AM Existing + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
EB Las Posas to Lewis	1	1	0.0	70.6	66	70.6	10	Snd Lvl	70.6	0.0	8	-8.0
WB Las Posas from Lewis	2	1	0.0	67.1	66	67.1	10	Snd Lvl	67.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
Noah Tanski
23 September 2016
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X1: AM Existing
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
EB Las Posas to Lewis	1	1	0.0	70.6	66	70.6	10	Snd Lvl	70.6	0.0	8	-8.0
WB Las Posas from Lewis	2	1	0.0	67.0	66	67.0	10	Snd Lvl	67.0	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
Noah Tanski
23 September 2016
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X1: AM Future + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
EB Las Posas to Lewis	1	1	0.0	70.8	66	70.8	10	Snd Lvl	70.8	0.0	8	-8.0
WB Las Posas from Lewis	2	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
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RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X1: AM Future
BARRIER DESIGN: INPUT HEIGHTS
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Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
EB Las Posas to Lewis	1	1	0.0	70.8	66	70.8	10	Snd Lvl	70.8	0.0	8	-8.0
WB Las Posas from Lewis	2	1	0.0	67.2	66	67.2	10	Snd Lvl	67.2	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
EB Las Posas to Lewis	1	1	0.0	70.1	66	70.1	10	Snd Lvl	70.1	0.0	8	-8.0
WB Las Posas from Lewis	2	1	0.0	66.6	66	66.6	10	Snd Lvl	66.6	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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23 September 2016
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RESULTS: SOUND LEVELS
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RUN: X1: PM Existing
BARRIER DESIGN: INPUT HEIGHTS
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Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc					
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
EB Las Posas to Lewis	1	1	0.0	70.0	66	70.0	10	Snd Lvl	70.0	0.0	8	-8.0
WB Las Posas from Lewis	2	1	0.0	66.4	66	66.4	10	Snd Lvl	66.4	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
EB Las Posas to Lewis	1	1	0.0	70.5	66	70.5	10	Snd Lvl	70.5	0.0	8	-8.0
WB Las Posas from Lewis	2	1	0.0	67.0	66	67.0	10	Snd Lvl	67.0	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
EB Las Posas to Lewis	1	1	0.0	70.4	66	70.4	10	Snd Lvl	70.4	0.0	8	-8.0
WB Las Posas from Lewis	2	1	0.0	66.8	66	66.8	10	Snd Lvl	66.8	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
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RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X2: AM Existing + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Flynn from Avenida	1	1	0.0	66.4	66	66.4	10	Snd Lvl	66.4	0.0	8	-8.0
SB Flynn to Avenida	2	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Flynn from Avenida	1	1	0.0	66.2	66	66.2	10	Snd Lvl	66.2	0.0	8	-8.0
SB Flynn to Avenida	2	1	0.0	67.1	66	67.1	10	Snd Lvl	67.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
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23 September 2016
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RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X2: AM Future + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Flynn from Avenida	1	1	0.0	66.4	66	66.4	10	Snd Lvl	66.4	0.0	8	-8.0
SB Flynn to Avenida	2	1	0.0	67.3	66	67.3	10	Snd Lvl	67.3	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
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23 September 2016
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Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X2: AM Future
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Flynn from Avenida	1	1	0.0	66.2	66	66.2	10	Snd Lvl	66.2	0.0	8	-8.0
SB Flynn to Avenida	2	1	0.0	67.1	66	67.1	10	Snd Lvl	67.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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23 September 2016
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RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X2: PM Existing + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Flynn from Avenida	1	1	0.0	67.1	66	67.1	10	Snd Lvl	67.1	0.0	8	-8.0
SB Flynn to Avenida	2	1	0.0	66.1	66	66.1	10	Snd Lvl	66.1	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
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23 September 2016
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RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X2: PM Existing
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		Type Impact	With Barrier Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Flynn from Avenida	1	1	0.0	66.9	66	66.9	10	Snd Lvl	66.9	0.0	8	-8.0
SB Flynn to Avenida	2	1	0.0	65.9	66	65.9	10	----	65.9	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	1	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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PROJECT/CONTRACT: St. John's Seminary
RUN: X2: PM Future + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Flynn from Avenida	1	1	0.0	67.2	66	67.2	10	Snd Lvl	67.2	0.0	8	-8.0
SB Flynn to Avenida	2	1	0.0	66.2	66	66.2	10	Snd Lvl	66.2	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Noah Tanski
23 September 2016
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PROJECT/CONTRACT: St. John's Seminary
RUN: X2: PM Future
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		Type Impact	With Barrier Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Flynn from Avenida	1	1	0.0	67.0	66	67.0	10	Snd Lvl	67.0	0.0	8	-8.0
SB Flynn to Avenida	2	1	0.0	66.0	66	66.0	10	Snd Lvl	66.0	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
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23 September 2016
TNM 2.5
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RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X3: AM Existing + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Santa Rosa from Adolfo	1	1	0.0	71.3	66	71.3	10	Snd Lvl	71.3	0.0	8	-8.0
SB Santa Rosa to Adolfo	2	1	0.0	71.9	66	71.9	10	Snd Lvl	71.9	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X3: AM Existing
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc					
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Santa Rosa from Adolfo	1	1	0.0	71.2	66	71.2	10	Snd Lvl	71.2	0.0	8	-8.0
SB Santa Rosa to Adolfo	2	1	0.0	71.9	66	71.9	10	Snd Lvl	71.9	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

DKA Planning
Noah Tanski
23 September 2016
TNM 2.5
Calculated with TNM 2.5

RESULTS: SOUND LEVELS
PROJECT/CONTRACT: St. John's Seminary
RUN: X3: AM Future + Project
BARRIER DESIGN: INPUT HEIGHTS
ATMOSPHERICS: 68 deg F, 50% RH

Average pavement type shall be used unless a State highway agency substantiates the use of a different type with approval of FHWA.

Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Santa Rosa from Adolfo	1	1	0.0	71.3	66	71.3	10	Snd Lvl	71.3	0.0	8	-8.0
SB Santa Rosa to Adolfo	2	1	0.0	71.9	66	71.9	10	Snd Lvl	71.9	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Santa Rosa from Adolfo	1	1	0.0	71.2	66	71.2	10	Snd Lvl	71.2	0.0	8	-8.0
SB Santa Rosa to Adolfo	2	1	0.0	71.9	66	71.9	10	Snd Lvl	71.9	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Santa Rosa from Adolfo	1	1	0.0	72.1	66	72.1	10	Snd Lvl	72.1	0.0	8	-8.0
SB Santa Rosa to Adolfo	2	1	0.0	71.7	66	71.7	10	Snd Lvl	71.7	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min dB	Noise Reduction Avg dB	Noise Reduction Max dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h		Increase over existing		Type Impact	With Barrier Calculated LAeq1h	Noise Reduction		
				Calculated	Crit'n	Calculated	Crit'n Sub'l Inc			Calculated	Goal	Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Santa Rosa from Adolfo	1	1	0.0	72.1	66	72.1	10	Snd Lvl	72.1	0.0	8	-8.0
SB Santa Rosa to Adolfo	2	1	0.0	71.7	66	71.7	10	Snd Lvl	71.7	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction		
		Min	Avg	Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Santa Rosa from Adolfo	1	1	0.0	72.1	66	72.1	10	Snd Lvl	72.1	0.0	8	-8.0
SB Santa Rosa to Adolfo	2	1	0.0	71.7	66	71.7	10	Snd Lvl	71.7	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0

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Receiver Name	No.	#DUs	Existing LAeq1h	No Barrier LAeq1h Calculated	Crit'n	Increase over existing Calculated	Increase over existing Crit'n Sub'l Inc	With Barrier Type Impact	With Barrier Calculated LAeq1h	Noise Reduction Calculated	Noise Reduction Goal	Noise Reduction Calculated minus Goal
			dBA	dBA	dBA	dB	dB		dBA	dB	dB	dB
NB Santa Rosa from Adolfo	1	1	0.0	72.1	66	72.1	10	Snd Lvl	72.1	0.0	8	-8.0
SB Santa Rosa to Adolfo	2	1	0.0	71.7	66	71.7	10	Snd Lvl	71.7	0.0	8	-8.0

Dwelling Units	# DUs	Noise Reduction Min	Noise Reduction Avg	Noise Reduction Max
		dB	dB	dB
All Selected	2	0.0	0.0	0.0
All Impacted	2	0.0	0.0	0.0
All that meet NR Goal	0	0.0	0.0	0.0