

# Appendix H

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Noise Measurement and Analyses Data

Freq Weight : A  
Time Weight : SLOW  
Level Range : 40-100  
Max dB : 65.3 - 2020/08/11 07:27:32  
Level Range : 40-100  
SEL : 85.4  
Leq : 55.9

No. s	Date Time	(dB)
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126	2020/08/11 07:33:45	55.5
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252	2020/08/11	07:40:03	54.9
253	2020/08/11	07:40:06	55.3
254	2020/08/11	07:40:09	54.9
255	2020/08/11	07:40:12	54.2
256	2020/08/11	07:40:15	54.3
257	2020/08/11	07:40:18	54.3
258	2020/08/11	07:40:21	54.5
259	2020/08/11	07:40:24	57.5
260	2020/08/11	07:40:27	54.9
261	2020/08/11	07:40:30	55.4
262	2020/08/11	07:40:33	54.7
263	2020/08/11	07:40:36	54.6
264	2020/08/11	07:40:39	54.7
265	2020/08/11	07:40:42	55.1
266	2020/08/11	07:40:45	54.8
267	2020/08/11	07:40:48	55.0
268	2020/08/11	07:40:51	55.4
269	2020/08/11	07:40:54	55.4
270	2020/08/11	07:40:57	56.1
271	2020/08/11	07:41:00	55.6
272	2020/08/11	07:41:03	55.9
273	2020/08/11	07:41:06	55.2
274	2020/08/11	07:41:09	55.3
275	2020/08/11	07:41:12	55.2
276	2020/08/11	07:41:15	54.6
277	2020/08/11	07:41:18	54.7
278	2020/08/11	07:41:21	55.4
279	2020/08/11	07:41:24	55.3
280	2020/08/11	07:41:27	56.6
281	2020/08/11	07:41:30	55.5
282	2020/08/11	07:41:33	54.9
283	2020/08/11	07:41:36	55.0
284	2020/08/11	07:41:39	56.2
285	2020/08/11	07:41:42	56.7
286	2020/08/11	07:41:45	56.9
287	2020/08/11	07:41:48	58.3
288	2020/08/11	07:41:51	55.7
289	2020/08/11	07:41:54	55.5
290	2020/08/11	07:41:57	57.5
291	2020/08/11	07:42:00	55.3
292	2020/08/11	07:42:03	55.5
293	2020/08/11	07:42:06	56.8
294	2020/08/11	07:42:09	55.4
295	2020/08/11	07:42:12	56.7
296	2020/08/11	07:42:15	56.8
297	2020/08/11	07:42:18	56.5
298	2020/08/11	07:42:21	56.0
299	2020/08/11	07:42:24	56.0
300	2020/08/11	07:42:27	56.1

Freq Weight : A  
Time Weight : SLOW  
Level Range : 40-100  
Max dB : 73.1 - 2020/08/11 07: 57: 21  
Level Range : 40-100  
SEL : 99.5  
Leq : 70.0

No. s	Date Time	(dB)
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3	2020/08/11 07: 47: 36	66.5
4	2020/08/11 07: 47: 39	67.2
5	2020/08/11 07: 47: 42	66.9
6	2020/08/11 07: 47: 45	67.3
7	2020/08/11 07: 47: 48	67.4
8	2020/08/11 07: 47: 51	67.1
9	2020/08/11 07: 47: 54	66.5
10	2020/08/11 07: 47: 57	67.2
11	2020/08/11 07: 48: 00	71.6
12	2020/08/11 07: 48: 03	70.7
13	2020/08/11 07: 48: 06	68.6
14	2020/08/11 07: 48: 09	67.2
15	2020/08/11 07: 48: 12	67.6
16	2020/08/11 07: 48: 15	66.7
17	2020/08/11 07: 48: 18	66.2
18	2020/08/11 07: 48: 21	67.3
19	2020/08/11 07: 48: 24	66.8
20	2020/08/11 07: 48: 27	66.8
21	2020/08/11 07: 48: 30	69.7
22	2020/08/11 07: 48: 33	68.7
23	2020/08/11 07: 48: 36	68.8
24	2020/08/11 07: 48: 39	69.6
25	2020/08/11 07: 48: 42	68.8
26	2020/08/11 07: 48: 45	67.6
27	2020/08/11 07: 48: 48	67.2
28	2020/08/11 07: 48: 51	68.0
29	2020/08/11 07: 48: 54	67.7
30	2020/08/11 07: 48: 57	67.7
31	2020/08/11 07: 49: 00	66.8
32	2020/08/11 07: 49: 03	67.4
33	2020/08/11 07: 49: 06	67.0
34	2020/08/11 07: 49: 09	67.2
35	2020/08/11 07: 49: 12	67.2
36	2020/08/11 07: 49: 15	67.0
37	2020/08/11 07: 49: 18	66.8
38	2020/08/11 07: 49: 21	67.9
39	2020/08/11 07: 49: 24	69.5
40	2020/08/11 07: 49: 27	71.3
41	2020/08/11 07: 49: 30	68.1
42	2020/08/11 07: 49: 33	68.7
43	2020/08/11 07: 49: 36	68.3
44	2020/08/11 07: 49: 39	68.9
45	2020/08/11 07: 49: 42	67.7
46	2020/08/11 07: 49: 45	69.0
47	2020/08/11 07: 49: 48	67.1
48	2020/08/11 07: 49: 51	66.7
49	2020/08/11 07: 49: 54	69.7
50	2020/08/11 07: 49: 57	70.9
51	2020/08/11 07: 50: 00	70.2
52	2020/08/11 07: 50: 03	67.3
53	2020/08/11 07: 50: 06	65.8
54	2020/08/11 07: 50: 09	66.4
55	2020/08/11 07: 50: 12	67.0
56	2020/08/11 07: 50: 15	69.1
57	2020/08/11 07: 50: 18	67.9
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61	2020/08/11 07: 50: 30	66.9
62	2020/08/11 07: 50: 33	67.2
63	2020/08/11 07: 50: 36	68.5
64	2020/08/11 07: 50: 39	69.2
65	2020/08/11 07: 50: 42	68.6
66	2020/08/11 07: 50: 45	67.7
67	2020/08/11 07: 50: 48	67.9
68	2020/08/11 07: 50: 51	67.2
69	2020/08/11 07: 50: 54	67.1
70	2020/08/11 07: 50: 57	69.4
71	2020/08/11 07: 51: 00	68.3
72	2020/08/11 07: 51: 03	68.4
73	2020/08/11 07: 51: 06	68.0
74	2020/08/11 07: 51: 09	67.5
75	2020/08/11 07: 51: 12	67.6
76	2020/08/11 07: 51: 15	65.9
77	2020/08/11 07: 51: 18	65.8
78	2020/08/11 07: 51: 21	68.4
79	2020/08/11 07: 51: 24	67.8
80	2020/08/11 07: 51: 27	67.9
81	2020/08/11 07: 51: 30	68.6
82	2020/08/11 07: 51: 33	69.1
83	2020/08/11 07: 51: 36	68.9
84	2020/08/11 07: 51: 39	70.5
85	2020/08/11 07: 51: 42	70.5

86	2020/08/11	07:51:45	68.7
87	2020/08/11	07:51:48	68.2
88	2020/08/11	07:51:51	67.1
89	2020/08/11	07:51:54	67.2
90	2020/08/11	07:51:57	68.4
91	2020/08/11	07:52:00	68.2
92	2020/08/11	07:52:03	69.1
93	2020/08/11	07:52:06	67.8
94	2020/08/11	07:52:09	66.9
95	2020/08/11	07:52:12	66.4
96	2020/08/11	07:52:15	67.1
97	2020/08/11	07:52:18	68.1
98	2020/08/11	07:52:21	68.6
99	2020/08/11	07:52:24	68.2
100	2020/08/11	07:52:27	68.6
101	2020/08/11	07:52:30	69.3
102	2020/08/11	07:52:33	68.1
103	2020/08/11	07:52:36	68.2
104	2020/08/11	07:52:39	68.1
105	2020/08/11	07:52:42	68.1
106	2020/08/11	07:52:45	67.7
107	2020/08/11	07:52:48	68.7
108	2020/08/11	07:52:51	71.3
109	2020/08/11	07:52:54	69.8
110	2020/08/11	07:52:57	69.7
111	2020/08/11	07:53:00	68.5
112	2020/08/11	07:53:03	68.0
113	2020/08/11	07:53:06	68.2
114	2020/08/11	07:53:09	67.6
115	2020/08/11	07:53:12	68.3
116	2020/08/11	07:53:15	68.0
117	2020/08/11	07:53:18	68.0
118	2020/08/11	07:53:21	67.6
119	2020/08/11	07:53:24	68.2
120	2020/08/11	07:53:27	69.1
121	2020/08/11	07:53:30	69.3
122	2020/08/11	07:53:33	69.2
123	2020/08/11	07:53:36	68.1
124	2020/08/11	07:53:39	68.2
125	2020/08/11	07:53:42	67.8
126	2020/08/11	07:53:45	67.7
127	2020/08/11	07:53:48	71.2
128	2020/08/11	07:53:51	71.9
129	2020/08/11	07:53:54	68.7
130	2020/08/11	07:53:57	67.7
131	2020/08/11	07:54:00	67.2
132	2020/08/11	07:54:03	68.9
133	2020/08/11	07:54:06	71.4
134	2020/08/11	07:54:09	71.7
135	2020/08/11	07:54:12	68.9
136	2020/08/11	07:54:15	69.3
137	2020/08/11	07:54:18	68.7
138	2020/08/11	07:54:21	69.4
139	2020/08/11	07:54:24	68.9
140	2020/08/11	07:54:27	70.6
141	2020/08/11	07:54:30	69.7
142	2020/08/11	07:54:33	67.7
143	2020/08/11	07:54:36	66.8
144	2020/08/11	07:54:39	67.8
145	2020/08/11	07:54:42	67.4
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147	2020/08/11	07:54:48	68.1
148	2020/08/11	07:54:51	68.0
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150	2020/08/11	07:54:57	68.6
151	2020/08/11	07:55:00	67.8
152	2020/08/11	07:55:03	68.4
153	2020/08/11	07:55:06	67.9
154	2020/08/11	07:55:09	68.4
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156	2020/08/11	07:55:15	68.2
157	2020/08/11	07:55:18	68.0
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159	2020/08/11	07:55:24	69.6
160	2020/08/11	07:55:27	70.0
161	2020/08/11	07:55:30	68.1
162	2020/08/11	07:55:33	67.8
163	2020/08/11	07:55:36	67.5
164	2020/08/11	07:55:39	72.5
165	2020/08/11	07:55:42	71.4
166	2020/08/11	07:55:45	69.8
167	2020/08/11	07:55:48	68.0
168	2020/08/11	07:55:51	68.0
169	2020/08/11	07:55:54	67.6
170	2020/08/11	07:55:57	66.7
171	2020/08/11	07:56:00	65.8
172	2020/08/11	07:56:03	67.0
173	2020/08/11	07:56:06	67.8
174	2020/08/11	07:56:09	68.0
175	2020/08/11	07:56:12	68.0
176	2020/08/11	07:56:15	67.8
177	2020/08/11	07:56:18	68.6
178	2020/08/11	07:56:21	69.9
179	2020/08/11	07:56:24	69.4
180	2020/08/11	07:56:27	67.7
181	2020/08/11	07:56:30	66.7
182	2020/08/11	07:56:33	68.8
183	2020/08/11	07:56:36	69.5
184	2020/08/11	07:56:39	71.3



185	2020/08/11	07:56:42	69.7
186	2020/08/11	07:56:45	69.9
187	2020/08/11	07:56:48	69.4
188	2020/08/11	07:56:51	69.5
189	2020/08/11	07:56:54	68.8
190	2020/08/11	07:56:57	68.3
191	2020/08/11	07:57:00	68.1
192	2020/08/11	07:57:03	68.0
193	2020/08/11	07:57:06	69.1
194	2020/08/11	07:57:09	69.6
195	2020/08/11	07:57:12	70.0
196	2020/08/11	07:57:15	70.5
197	2020/08/11	07:57:18	73.0
198	2020/08/11	07:57:21	70.6
199	2020/08/11	07:57:24	69.9
200	2020/08/11	07:57:27	67.7
201	2020/08/11	07:57:30	67.0
202	2020/08/11	07:57:33	68.5
203	2020/08/11	07:57:36	69.5
204	2020/08/11	07:57:39	68.9
205	2020/08/11	07:57:42	68.2
206	2020/08/11	07:57:45	67.2
207	2020/08/11	07:57:48	66.7
208	2020/08/11	07:57:51	67.3
209	2020/08/11	07:57:54	67.5
210	2020/08/11	07:57:57	68.2
211	2020/08/11	07:58:00	69.0
212	2020/08/11	07:58:03	69.2
213	2020/08/11	07:58:06	69.3
214	2020/08/11	07:58:09	68.8
215	2020/08/11	07:58:12	68.8
216	2020/08/11	07:58:15	68.9
217	2020/08/11	07:58:18	68.6
218	2020/08/11	07:58:21	67.5
219	2020/08/11	07:58:24	68.6
220	2020/08/11	07:58:27	69.2
221	2020/08/11	07:58:30	69.1
222	2020/08/11	07:58:33	66.7
223	2020/08/11	07:58:36	67.4
224	2020/08/11	07:58:39	69.3
225	2020/08/11	07:58:42	69.4
226	2020/08/11	07:58:45	69.9
227	2020/08/11	07:58:48	69.8
228	2020/08/11	07:58:51	69.6
229	2020/08/11	07:58:54	70.0
230	2020/08/11	07:58:57	69.7
231	2020/08/11	07:59:00	70.7
232	2020/08/11	07:59:03	69.3
233	2020/08/11	07:59:06	69.7
234	2020/08/11	07:59:09	69.5
235	2020/08/11	07:59:12	69.7
236	2020/08/11	07:59:15	69.7
237	2020/08/11	07:59:18	68.4
238	2020/08/11	07:59:21	69.0
239	2020/08/11	07:59:24	69.5
240	2020/08/11	07:59:27	69.4
241	2020/08/11	07:59:30	68.8
242	2020/08/11	07:59:33	69.0
243	2020/08/11	07:59:36	69.0
244	2020/08/11	07:59:39	70.7
245	2020/08/11	07:59:42	71.4
246	2020/08/11	07:59:45	70.6
247	2020/08/11	07:59:48	70.2
248	2020/08/11	07:59:51	70.3
249	2020/08/11	07:59:54	69.2
250	2020/08/11	07:59:57	68.8
251	2020/08/11	08:00:00	68.5
252	2020/08/11	08:00:03	69.9
253	2020/08/11	08:00:06	71.1
254	2020/08/11	08:00:09	70.2
255	2020/08/11	08:00:12	69.6
256	2020/08/11	08:00:15	69.6
257	2020/08/11	08:00:18	69.8
258	2020/08/11	08:00:21	70.1
259	2020/08/11	08:00:24	69.6
260	2020/08/11	08:00:27	69.5
261	2020/08/11	08:00:30	69.2
262	2020/08/11	08:00:33	69.7
263	2020/08/11	08:00:36	69.0
264	2020/08/11	08:00:39	68.7
265	2020/08/11	08:00:42	68.5
266	2020/08/11	08:00:45	67.8
267	2020/08/11	08:00:48	68.4
268	2020/08/11	08:00:51	68.6
269	2020/08/11	08:00:54	68.2
270	2020/08/11	08:00:57	68.6
271	2020/08/11	08:01:00	68.4
272	2020/08/11	08:01:03	67.9
273	2020/08/11	08:01:06	67.9
274	2020/08/11	08:01:09	68.5
275	2020/08/11	08:01:12	67.5
276	2020/08/11	08:01:15	67.5
277	2020/08/11	08:01:18	66.9
278	2020/08/11	08:01:21	67.2
279	2020/08/11	08:01:24	68.7
280	2020/08/11	08:01:27	70.9
281	2020/08/11	08:01:30	70.0
282	2020/08/11	08:01:33	69.0
283	2020/08/11	08:01:36	68.3

284	2020/08/11	08:01:39	69.4
285	2020/08/11	08:01:42	69.2
286	2020/08/11	08:01:45	69.2
287	2020/08/11	08:01:48	67.5
288	2020/08/11	08:01:51	67.4
289	2020/08/11	08:01:54	68.8
290	2020/08/11	08:01:57	69.0
291	2020/08/11	08:02:00	69.4
292	2020/08/11	08:02:03	70.3
293	2020/08/11	08:02:06	69.6
294	2020/08/11	08:02:09	68.7
295	2020/08/11	08:02:12	67.5
296	2020/08/11	08:02:15	66.7
297	2020/08/11	08:02:18	68.2
298	2020/08/11	08:02:21	68.4
299	2020/08/11	08:02:24	69.4
300	2020/08/11	08:02:27	68.6

Freq Weight : A  
Time Weight : SLOW  
Level Range : 40-100  
Max dB : 79.7 - 2020/08/11 08:19:58  
Level Range : 40-100  
SEL : 99.5  
Leq : 70.0

No. s	Date Time	(dB)
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4	2020/08/11 08:16:22	71.8
5	2020/08/11 08:16:25	72.1
6	2020/08/11 08:16:28	73.4
7	2020/08/11 08:16:31	73.2
8	2020/08/11 08:16:34	72.5
9	2020/08/11 08:16:37	71.0
10	2020/08/11 08:16:40	69.9
11	2020/08/11 08:16:43	72.3
12	2020/08/11 08:16:46	70.1
13	2020/08/11 08:16:49	71.0
14	2020/08/11 08:16:52	71.8
15	2020/08/11 08:16:55	73.8
16	2020/08/11 08:16:58	71.9
17	2020/08/11 08:17:01	72.5
18	2020/08/11 08:17:04	72.0
19	2020/08/11 08:17:07	72.0
20	2020/08/11 08:17:10	72.8
21	2020/08/11 08:17:13	72.1
22	2020/08/11 08:17:16	70.5
23	2020/08/11 08:17:19	71.0
24	2020/08/11 08:17:22	71.3
25	2020/08/11 08:17:25	71.9
26	2020/08/11 08:17:28	71.2
27	2020/08/11 08:17:31	72.2
28	2020/08/11 08:17:34	73.3
29	2020/08/11 08:17:37	70.7
30	2020/08/11 08:17:40	71.2
31	2020/08/11 08:17:43	71.7
32	2020/08/11 08:17:46	73.4
33	2020/08/11 08:17:49	72.0
34	2020/08/11 08:17:52	72.9
35	2020/08/11 08:17:55	73.8
36	2020/08/11 08:17:58	72.8
37	2020/08/11 08:18:01	72.4
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41	2020/08/11 08:18:13	72.7
42	2020/08/11 08:18:16	72.0
43	2020/08/11 08:18:19	71.1
44	2020/08/11 08:18:22	73.5
45	2020/08/11 08:18:25	72.3
46	2020/08/11 08:18:28	70.6
47	2020/08/11 08:18:31	70.4
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49	2020/08/11 08:18:37	71.8
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51	2020/08/11 08:18:43	70.7
52	2020/08/11 08:18:46	71.4
53	2020/08/11 08:18:49	72.4
54	2020/08/11 08:18:52	71.7
55	2020/08/11 08:18:55	71.9
56	2020/08/11 08:18:58	71.0
57	2020/08/11 08:19:01	76.3
58	2020/08/11 08:19:04	73.4
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60	2020/08/11 08:19:10	71.2
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62	2020/08/11 08:19:16	72.6
63	2020/08/11 08:19:19	73.8
64	2020/08/11 08:19:22	74.0
65	2020/08/11 08:19:25	71.2
66	2020/08/11 08:19:28	72.5
67	2020/08/11 08:19:31	72.3
68	2020/08/11 08:19:34	72.9
69	2020/08/11 08:19:37	71.0
70	2020/08/11 08:19:40	71.1
71	2020/08/11 08:19:43	72.7
72	2020/08/11 08:19:46	71.7
73	2020/08/11 08:19:49	72.7
74	2020/08/11 08:19:52	73.1
75	2020/08/11 08:19:55	72.8
76	2020/08/11 08:19:58	76.2
77	2020/08/11 08:20:01	73.5
78	2020/08/11 08:20:04	72.6
79	2020/08/11 08:20:07	74.7
80	2020/08/11 08:20:10	73.1
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Time Weight : SLOW  
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Max dB : 62.4 - 2020/08/11 08:46:05  
Level Range : 40-100  
SEL : 84.4  
Leq : 54.9

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13	2020/08/11 08:41:21	53.9
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208	2020/08/11	08:51:06	55.4
209	2020/08/11	08:51:09	55.3
210	2020/08/11	08:51:12	55.8
211	2020/08/11	08:51:15	55.6
212	2020/08/11	08:51:18	55.6
213	2020/08/11	08:51:21	55.2
214	2020/08/11	08:51:24	55.6
215	2020/08/11	08:51:27	55.7
216	2020/08/11	08:51:30	54.9
217	2020/08/11	08:51:33	55.4
218	2020/08/11	08:51:36	55.2
219	2020/08/11	08:51:39	54.9
220	2020/08/11	08:51:42	55.1
221	2020/08/11	08:51:45	55.2
222	2020/08/11	08:51:48	55.1
223	2020/08/11	08:51:51	60.2
224	2020/08/11	08:51:54	55.5
225	2020/08/11	08:51:57	55.2
226	2020/08/11	08:52:00	54.9
227	2020/08/11	08:52:03	54.7
228	2020/08/11	08:52:06	54.4
229	2020/08/11	08:52:09	54.5
230	2020/08/11	08:52:12	54.7
231	2020/08/11	08:52:15	55.2
232	2020/08/11	08:52:18	55.3
233	2020/08/11	08:52:21	55.6
234	2020/08/11	08:52:24	55.6
235	2020/08/11	08:52:27	55.3
236	2020/08/11	08:52:30	55.6
237	2020/08/11	08:52:33	55.8
238	2020/08/11	08:52:36	55.4
239	2020/08/11	08:52:39	55.2
240	2020/08/11	08:52:42	55.3
241	2020/08/11	08:52:45	55.3
242	2020/08/11	08:52:48	55.6
243	2020/08/11	08:52:51	55.8
244	2020/08/11	08:52:54	55.7
245	2020/08/11	08:52:57	56.0
246	2020/08/11	08:53:00	55.6
247	2020/08/11	08:53:03	55.4
248	2020/08/11	08:53:06	55.4
249	2020/08/11	08:53:09	55.5
250	2020/08/11	08:53:12	55.8
251	2020/08/11	08:53:15	56.1
252	2020/08/11	08:53:18	55.3
253	2020/08/11	08:53:21	55.1
254	2020/08/11	08:53:24	54.6
255	2020/08/11	08:53:27	54.2
256	2020/08/11	08:53:30	54.4
257	2020/08/11	08:53:33	54.5
258	2020/08/11	08:53:36	54.8
259	2020/08/11	08:53:39	54.1
260	2020/08/11	08:53:42	53.9
261	2020/08/11	08:53:45	54.0
262	2020/08/11	08:53:48	54.1
263	2020/08/11	08:53:51	54.2
264	2020/08/11	08:53:54	54.8
265	2020/08/11	08:53:57	54.9
266	2020/08/11	08:54:00	55.0
267	2020/08/11	08:54:03	55.1
268	2020/08/11	08:54:06	54.9
269	2020/08/11	08:54:09	54.8
270	2020/08/11	08:54:12	55.0
271	2020/08/11	08:54:15	55.8
272	2020/08/11	08:54:18	55.6
273	2020/08/11	08:54:21	55.1
274	2020/08/11	08:54:24	54.6
275	2020/08/11	08:54:27	54.8
276	2020/08/11	08:54:30	54.9
277	2020/08/11	08:54:33	54.7
278	2020/08/11	08:54:36	54.8
279	2020/08/11	08:54:39	54.1
280	2020/08/11	08:54:42	53.7
281	2020/08/11	08:54:45	54.0
282	2020/08/11	08:54:48	54.4
283	2020/08/11	08:54:51	54.8

284	2020/08/11	08:54:54	55.2
285	2020/08/11	08:54:57	54.0
286	2020/08/11	08:55:00	54.0
287	2020/08/11	08:55:03	53.5
288	2020/08/11	08:55:06	53.7
289	2020/08/11	08:55:09	54.2
290	2020/08/11	08:55:12	54.2
291	2020/08/11	08:55:15	54.0
292	2020/08/11	08:55:18	54.5
293	2020/08/11	08:55:21	54.0
294	2020/08/11	08:55:24	53.9
295	2020/08/11	08:55:27	54.0
296	2020/08/11	08:55:30	53.8
297	2020/08/11	08:55:33	53.6
298	2020/08/11	08:55:36	53.9
299	2020/08/11	08:55:39	54.5
300	2020/08/11	08:55:42	54.8

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 10/07/2020  
 Case Description: Garvey Avenue Shopping Center

\*\*\*\* Receptor #1 \*\*\*\*

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Sensitive Receiver	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dozer	No	40		81.7	50.0	0.0
Excavator	No	40		80.7	50.0	0.0
Jackhammer	Yes	20		88.9	50.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day		Calculated (dBA) Evening		Day Night		Evening		
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Dozer	N/A	N/A	81.7	77.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	80.7	76.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Jackhammer	N/A	N/A	88.9	81.9	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Total	88.9	84.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*\*\*\* Receptor #2 \*\*\*\*

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
Sensitive Receiver	Residential	65.0	65.0	65.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Dozer	No	40		81.7	100.0	0.0
Excavator	No	40		80.7	100.0	0.0
Jackhammer	Yes	20		88.9	100.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Equipment	Calculated (dBA)				Day		Evening		Lmax
	Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	
Dozer	N/A	N/A	75.6	71.7	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	74.7	70.7	N/A	N/A	N/A	N/A	N/A
Jackhammer	N/A	N/A	82.9	75.9	N/A	N/A	N/A	N/A	N/A
<b>Total</b>	N/A	N/A	82.9	78.1	N/A	N/A	N/A	N/A	N/A

\*\*\*\* Receptor #3 \*\*\*\*

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Sensitive Receiver	Residential	65.0	65.0	65.0

Equipment

Impact	Usage	Spec Lmax	Actual Lmax	Receptor Distance	Estimated Shielding
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Description	Device	(%)	(dBA)	(dBA)	(feet)	(dBA)
Dozer	No	40		81.7	150.0	0.0
Excavator	No	40		80.7	150.0	0.0
Jackhammer	Yes	20		88.9	150.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Night	Calculated (dBA)				Day		Evening		Lmax
	Day	Evening	Evening	Day	Night	Lmax	Leq		
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Dozer	N/A	N/A	72.1	68.1	N/A	N/A	N/A	N/A	N/A
Excavator	N/A	N/A	71.2	67.2	N/A	N/A	N/A	N/A	N/A
Jackhammer	N/A	N/A	79.3	72.4	N/A	N/A	N/A	N/A	N/A
		Total	79.3	74.6	N/A	N/A	N/A	N/A	N/A

\*\*\*\* Receptor #4 \*\*\*\*

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Sensitive Receiver	Residential	65.0	65.0	65.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dozer	No	40	81.7	81.7	200.0	0.0
Excavator	No	40	80.7	80.7	200.0	0.0
Jackhammer	Yes	20	88.9	88.9	200.0	0.0

Results



Home (/) > Programs (/programs/) > Environmental Review (/programs/environmental-review/) > BPM Calculator

## Barrier Performance Module

This module provides to the user a measure on the barrier's effectiveness on noise reduction. A list of the input/output variables and their definitions, as well as illustrations of different scenarios are provided.

### Calculator

View Day/Night Noise Level Calculator (/programs/environmental-review/dnl-calculator/)

View Descriptions of the Input/Output variables.

**Note:** Tool tips, containing field specific information, have been added in this tool and may be accessed by hovering over the Input and Output variables with the mouse.

**WARNING: If there is direct line-of-sight between the Source and the Observer, the module will report erroneous attenuation. "Direct line-of-sight" means if the 5' tall Observer can see the noise Source (cars, trucks, trains, etc.) over the Barrier (wall, hill/excavation, building, etc.), the current version of Barrier Performance Module will not accurately calculate the attenuation provided. In this instance, there is unlikely to be any appreciable attenuation.**

**Note:** Barrier height must block the line of sight

### Input Data

H	<input type="text" value="10"/>	R <sup>1</sup>	<input type="text" value="50"/>
S	<input type="text" value="10"/>	D <sup>1</sup>	<input type="text" value="5"/>
	<input type="text"/>		<input type="text"/>

<b>u</b>	<input type="text" value="6"/>	<b>α</b>	<input type="text" value="160"/>
----------	--------------------------------	----------	----------------------------------

Calculate Output

## Output Data

<b>h</b>	<input type="text" value="4"/>	<b>R</b>	<input type="text" value="50"/>
----------	--------------------------------	----------	---------------------------------

<b>D</b>	<input type="text" value="5"/>	<b>FS</b>	<input type="text" value="9.5027"/>
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### Reduction From Barrier (dB):

Refresh

**Note:** If you have separate Road and Rail DNL values, please enter the values below to calculate the new site DNL:

### Road DNL:

### Rail DNL:

Calculate

### Combined New Road/Rail DNL:

## Input/Output Variables



## Input Variables

The following variables and definitions from the barrier being assessed are the input required for the web-based barrier performance module:

- $H$  = Barrier Height
- $S$  = Noise Source Height
- $O$  = Observer Height (known as the receiver)
- $R^1$  = Distance from Noise Source to Barrier
- $D^1$  = Distance from the Observer to the Barrier
- $\alpha$  = Line of sight angle between the Observer and the Noise Source, subtended by the barrier at observer's location

## Output Variables

Definitions of the output variables from the mitigation module of the Day/Night Noise Level Assessment Tools as part of the Assessment Tools for Environmental Compliance:

- $h$  = The shortest distance from the barrier top to the line of sight from the Noise source to the Observer.
- $R$  = Slant distance along the line of sight from the Barrier to the Noise Source
- $D$  = Slant distance along the line of sight from the Barrier to the Observer

The “actual barrier performance for barriers of finite length” is noted on the worksheets(in the Guidebook) as **FS**.



# Appendix \_\_\_\_ Rincon FHWA Traffic Noise Model



<b>Project Number :</b>	2539 East Garvey Avenue North
<b>Modeling Condition :</b>	20-09787
<b>Ground Type :</b>	Existing Plus Project
<b>Metric (Leq, Ldn, CNEL) :</b>	CNEL

## Model Results

Segment Number	Roadway	Segment		Noise Levels (dB) CNEL					
		From	To	Automobiles	Motorcycles	Bus	Medium Trucks	Heavy Trucks	Total
1	I-10 Freeway	Azusa Ave	Barranca St	80.0	0.0	0.0	64.9	71.6	80.7
2	East Garvey Avenue North	Morningbird Ln	Citrus St	65.4	0.0	0.0	55.8	58.4	66.6
0									
0									
0									

Distance to Traffic Noise Contours (feet)				
70 dB	65 dB	60 dB	55 dB	50 dB
3,532	11,168	35,316	111,680	353,163
18	58	182	576	1,821



# Appendix \_\_\_\_

## Rincon FHWA Traffic Noise Model



<b>Project Number :</b>	2539 East Garvey Avenue North
<b>Modeling Condition :</b>	20-09787
<b>Ground Type :</b>	Existing Plus Project
<b>Metric (Leq, Ldn, CNEL) :</b>	CNEL

### Model Results

Segment Number	Roadway	Segment		Noise Levels (dB) Leq					
		From	To	Automobiles	Motorcycles	Bus	Medium Trucks	Heavy Trucks	Total
1	I-10 Freeway	Azusa Ave	Barranca St	79.9	0.0	0.0	64.8	71.5	80.6
2	East Garvey Avenue North	Morningbird Ln	Citrus St	61.5	0.0	0.0	55.7	58.3	63.9
0									
0									
0									
0									

Distance to Traffic Noise Contours (feet)				
70 dB	65 dB	60 dB	55 dB	50 dB
3,460	10,940	34,596	109,401	345,956
10	31	98	311	982

## Groundborne Noise and Vibration Modeling

### Notes

The reference distance is measured from the nearest anticipated point of construction equipment to the nearest structure.

Equipment	Reference Level Inputs			
	PPV <sub>ref</sub> (in/sec)	Lv <sub>ref</sub> (VdB)	RMS <sub>ref</sub> (in/sec)	Reference Distance
Large bulldozer	0.089	87	0.022	25
Loaded trucks	0.076	83	0.014	25
Jack hammer	0.035	79	0.009	25
Small bulldozer	0.003	58	0.001	25

Equipment	Vibration Level at Receiver			
	Distance (feet)	PPV <sub>x</sub> (in/sec)	Lv <sub>x</sub> (VdB)	RMS <sub>x</sub> (in/sec)
Large bulldozer	15	0.1561	92	0.039
Loaded trucks	15	0.1333	88	0.025
Jack hammer	15	0.0614	84	0.016
Small bulldozer	15	0.0053	63	0.001

### Source

California Department of Transportation (Caltrans). 2020. Transportation and Construction Vibration Guidance Manual. April 2020. Available at: <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf>  
Last Updated: 4/24/2020

## Groundborne Noise and Vibration Modeling

### Notes

The reference distance is measured from the nearest anticipated point of construction equipment to the nearest structure.

Equipment	Reference Level Inputs			
	PPV <sub>ref</sub> (in/sec)	Lv <sub>ref</sub> (VdB)	RMS <sub>ref</sub> (in/sec)	Reference Distance
Large bulldozer	0.089	87	0.022	25
Loaded trucks	0.076	83	0.014	25
Jack hammer	0.035	79	0.009	25
Small bulldozer	0.003	58	0.001	25

Equipment	Vibration Level at Receiver			
	Distance (feet)	PPV <sub>x</sub> (in/sec)	Lv <sub>x</sub> (VdB)	RMS <sub>x</sub> (in/sec)
Large bulldozer	50	0.0415	80	0.010
Loaded trucks	50	0.0355	76	0.007
Jack hammer	50	0.0163	72	0.004
Small bulldozer	50	0.0014	51	0.000

### Source

California Department of Transportation (Caltrans). 2020. Transportation and Construction Vibration Guidance Manual. April 2020. Available at: <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf>  
Last Updated: 4/24/2020

## Groundborne Noise and Vibration Modeling

### Notes

The reference distance is measured from the nearest anticipated point of construction equipment to the nearest structure.

Equipment	Reference Level Inputs			
	PPV <sub>ref</sub> (in/sec)	Lv <sub>ref</sub> (VdB)	RMS <sub>ref</sub> (in/sec)	Reference Distance
Large bulldozer	0.089	87	0.022	25
Loaded trucks	0.076	83	0.014	25
Jack hammer	0.035	79	0.009	25
Small bulldozer	0.003	58	0.001	25

Equipment	Vibration Level at Receiver			
	Distance (feet)	PPV <sub>x</sub> (in/sec)	Lv <sub>x</sub> (VdB)	RMS <sub>x</sub> (in/sec)
Large bulldozer	150	0.0124	70	0.003
Loaded trucks	150	0.0106	66	0.002
Jack hammer	150	0.0049	62	0.001
Small bulldozer	150	0.0004	41	0.000

### Source

California Department of Transportation (Caltrans). 2020. Transportation and Construction Vibration Guidance Manual. April 2020. Available at: <https://dot.ca.gov/-/media/dot-media/programs/environmental-analysis/documents/env/tcvgm-apr2020-a11y.pdf>  
Last Updated: 4/24/2020