

**APPENDIX F:
NOISE DATA**

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Site: ST-1
Number of one-minute measurements: 15
Average Leq: 54.2
Estimated ST-1 Ldn: 58.5

Start date: 11/6/2013
Start time: 4:31 PM
Long-term 15-min LEQ: 67.9
Long-term 24-hour Ldn: 72.2

Minute	Leq
1	51.9
2	54
3	52.3
4	53.9
5	54
6	56.5
7	53.5
8	57.3
9	57
10	54.9
11	52.7
12	52.6
13	53
14	52
15	51.2

Minute	Leq
16:31:37	69.2
16:32:37	69.6
16:33:37	67.2
16:34:37	70.7
16:35:37	67.1
16:36:37	66.3
16:37:37	66.3
16:38:37	67.1
16:39:37	65
16:40:37	67.5
16:41:37	68.6
16:42:37	67.2
16:43:37	68.4
16:44:37	66.7
16:45:37	68.1

Site: ST-2
Number of one-minute measurements: 15
Average Leq: 69.9
Estimated ST-2 Ldn: 72.6

Start date: 11/5/2013
Start time: 2:32 PM
Long-term 15-min LEQ: 69.5
Long-term 24-hour Ldn: 72.2

Minute	Leq
1	66.7
2	72.4
3	69.8
4	67.1
5	71.4
6	70.6
7	68.8
8	72
9	67
10	70.1
11	68.3
12	70.9
13	70.7
14	66
15	70.2

Minute	Leq
14:32:37	68.9
14:33:37	67.4
14:34:37	66.5
14:35:37	70.9
14:36:37	67.1
14:37:37	66.2
14:38:37	68
14:39:37	66.2
14:40:37	71.9
14:41:37	74
14:42:37	68.6
14:43:37	72.8
14:44:37	66.8
14:45:37	67.6
14:46:37	67

Site: ST-3
Number of one-minute measurements: 15
Average Leq: 59.2
Estimated ST-3 Ldn: 60.8

Start date: 11/6/2013
Start time: 5:00 PM
Long-term 15-min LEQ: 70.6
Long-term 24-hour Ldn: 72.2

Minute	Leq
1	60.1
2	57
3	57.9
4	56.3
5	56.4
6	58
7	60.9
8	56.3
9	56.2
10	57.7
11	64.1
12	55.8
13	55.3
14	60.5
15	62.8

Minute	Leq
17:00:37	75
17:01:37	67.7
17:02:37	66.9
17:03:37	68.1
17:04:37	67.8
17:05:37	72
17:06:37	66.6
17:07:37	75
17:08:37	66.7
17:09:37	66.1
17:10:37	67.7
17:11:37	68
17:12:37	71.7
17:13:37	67.4
17:14:37	74.1

Site: ST-4
Number of one-minute measurements: 15
Average Leq: 64.4
Estimated ST-4 Ldn: 62.4

Start date: 11/5/2013
Start time: 2:13 PM
Long-term 15-min LEQ: 74.2
Long-term 24-hour Ldn: 72.2

Minute	Leq
1	60.5
2	61.2
3	61.7
4	71.4
5	61.9
6	63.5
7	61.8
8	62.4
9	68.3
10	63.4
11	62.1
12	61.5
13	60.9
14	62.8
15	62.3

Minute	Leq
14:13:37	65.9
14:14:37	66.9
14:15:37	65.8
14:16:37	72.9
14:17:37	67.2
14:18:37	67.5
14:19:37	67.3
14:20:37	84.7
14:21:37	66.4
14:22:37	72
14:23:37	66.5
14:24:37	69.1
14:25:37	67
14:26:37	68.9
14:27:37	67.6

Site Name: LT-1

Number of one-hour measurements: 24

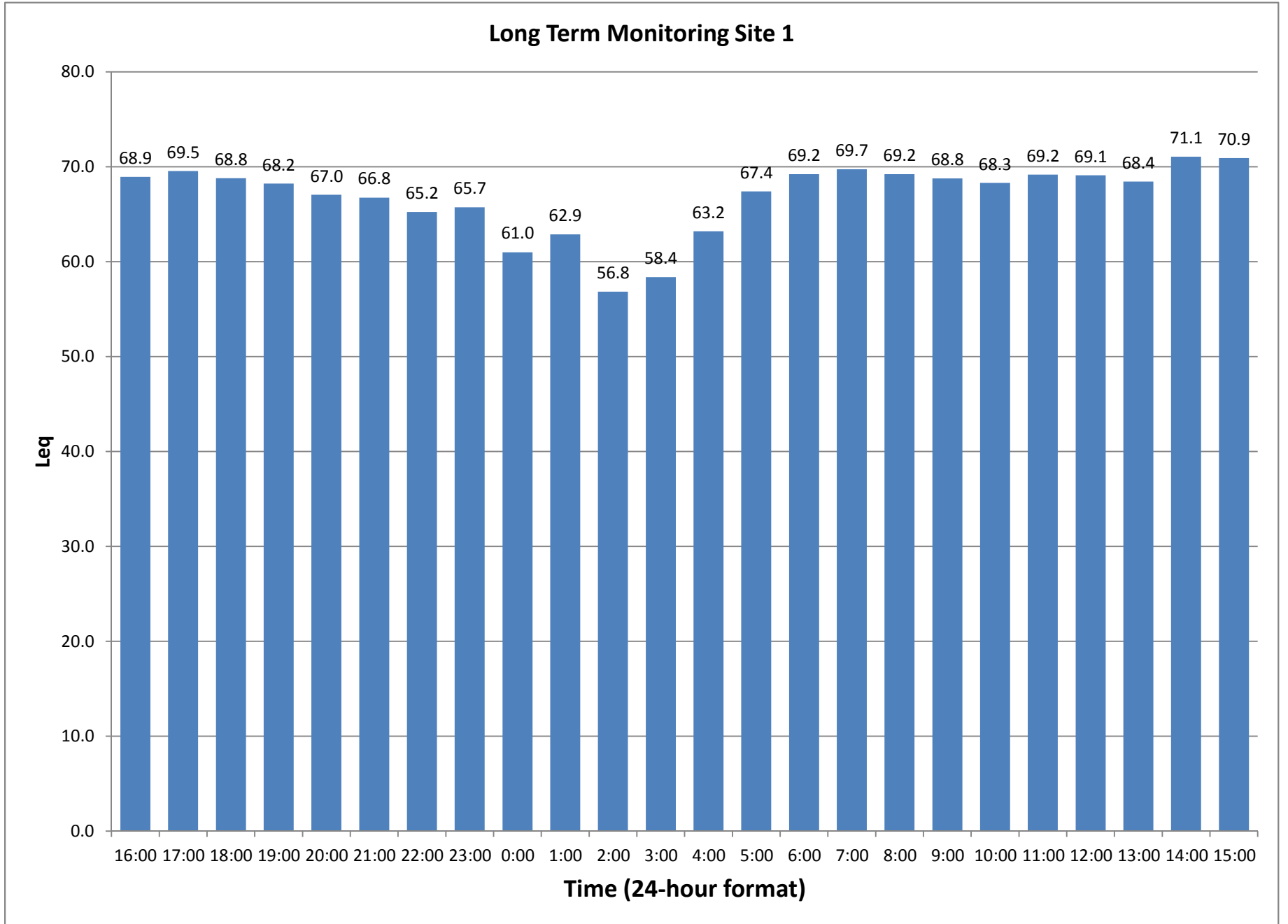
Unweighted Leq: 67.92289 CNEL: 72.5434 LDN: 72.16981

Hour	Time	Leq	CNEL Penalty	Adj. Leq	LDN Penalty	Adj. Leq
1	16:00	68.9	0	68.9401	0	68.94012
2	17:00	69.5	0	69.5446	0	69.5446
3	18:00	68.8	0	68.7841	0	68.78406
4	19:00	68.2	5	73.2201	0	68.22013
5	20:00	67.0	5	72.0403	0	67.04035
6	21:00	66.8	5	71.7554	0	66.75537
7	22:00	65.2	10	75.239	10	75.23904
8	23:00	65.7	10	75.7335	10	75.73353
9	0:00	61.0	10	70.9973	10	70.99729
10	1:00	62.9	10	72.8827	10	72.88273
11	2:00	56.8	10	66.8389	10	66.83894
12	3:00	58.4	10	68.3688	10	68.36881
13	4:00	63.2	10	73.2077	10	73.20765
14	5:00	67.4	10	77.4007	10	77.40073
15	6:00	69.2	10	79.2298	10	79.22979
16	7:00	69.7	0	69.7377	0	69.73769
17	8:00	69.2	0	69.2168	0	69.21676
18	9:00	68.8	0	68.7823	0	68.78228
19	10:00	68.3	0	68.2951	0	68.29514
20	11:00	69.2	0	69.1626	0	69.16258
21	12:00	69.1	0	69.0927	0	69.09266
22	13:00	68.4	0	68.4349	0	68.4349
23	14:00	71.1	0	71.0621	0	71.06215
24	15:00	70.9	0	70.9121	0	70.91214

Site Description

Long-term noise monitoring Location 1 is representative of the overall noise environment at the project site and, in conjunction with the results of the short-term monitoring, serves as a means to estimate overall noise levels and all noise monitoring locations. Long-term noise monitoring Location 1 was subject to noise from Ygnacio Valley Road, Oakland Boulevard, I-680, the BART line, and, to a lesser extent, other area roadways. Existing land uses in the vicinity of the long-term monitoring location are the same as those for the short-term monitoring locations. This site was located on an undeveloped portion of the project site, approximately 65 feet to the southeast of the centerline of Oakland Boulevard, 125 feet to the south of the centerline of Ygnacio Valley Road, 120 feet to the southeast of the BART tracks, and 550 feet to the east of I-680. The microphone and sound meter were positioned approximately 115 feet to the southeast of the center of the intersection of Oakland Boulevard and Ygnacio Valley Road, in the northwestern corner of the project site. Just over twenty-four hours of noise measurements were acquired, beginning at 3:45 p.m. on Tuesday, November 5th. When measurements were initiated, winds were light and variable, and the air temperature was 72°F. No inclement weather occurred during the measurement period. Weather records from nearby reporting stations indicate that the overnight low the night of November 5th was around 42°F, with average wind speeds of less than 5 mph during the measurement period.

LT-1 Histogram



The Landing at Walnut Creek

EXISTING

#	ROADWAY	SEGMENT	ADT	POSTED SPEED LIMIT	LANE DISTANCE	SITE CONDITION	ROAD CLASS.	GRADE (%)
1	Lacassie Avenue between Project	Lacassie Avenue between Project and N. California Blvd.	600	35	18	Soft	Collector	0%
2	Lacassie Avenue between N. Calif	Lacassie Avenue between N. California Blvd. and Main	1,920	35	18	Soft	Collector	0%
3	Trinity Avenue between Oakland B	Trinity Avenue between Oakland Blvd. and N. California	3,160	35	18	Soft	Collector	0%
4	N. California Boulevard between T	N. California Boulevard between Trinity Ave. and Lacas	16,210	35	45	Soft	Primary Arterial	0%
5	N. California Boulevard between L	N. California Boulevard between Lacassie Ave. and Yg	16,760	35	45	Soft	Primary Arterial	0%
6	N. California Boulevard between Y	N. California Boulevard between Ygnacio Valley Road	17,450	35	45	Soft	Primary Arterial	0%
7	Ygnacio Valley Road between N.	Ygnacio Valley Road between N. Main St. and N. Calif	37,840	35	45	Soft	Primary Arterial	0%
8	Ygnacio Valley Road between N.	Ygnacio Valley Road between N. California Blvd. and C	37,910	40	45	Soft	Primary Arterial	0%
9	Ygnacio Valley Road between Oal	Ygnacio Valley Road between Oakland Blvd. and I-680	23,050	40	45	Soft	Primary Arterial	0%
10	Oakland Blvd. South of Ygnacio V	Oakland Blvd. South of Ygnacio Valley Road	25,300	40	45	Soft	Primary Arterial	0%
11	I-680	Cartmill Avenue to Oakdale Avenue		40	138	Soft	FreewayA	0%
12					#N/A	Soft		0%
13					#N/A	Soft		0%
14					#N/A	Soft		0%
15					#N/A	Soft		0%
16					#N/A	Soft		0%
17					#N/A	Soft		0%
18					#N/A	Soft		0%

ANALYST
EHP

ROAD CLASSIFICATION	SPEED	LANE DISTANCE
Collector		18
Minor Arterial		24
Primary Arterial		45
FreewayA		138
FreewayB		65
FreewayC		120

VEHICLE MIX INPUTS			
DAILY	HOURLY		
% A	77.3%	DAY	78.1%
% MT	16.2%	EVENING	9.1%
% HT	6.5%	NIGHT	12.9%

DISTANCE TO CENTERLINE
100 feet

The Landing at Walnut Creek
EXISTING CONDITIONS NOISE CONTOURS RESULT SUMMARY TABLE

#	ROADWAY	SEGMENT	DAILY TRAFIC VOLUMES	NOISE LEVEL AT 100 FT. (dBA CNEL)	DISTANCE TO NOISE CONTOUR (FT.)		
					70 dBA CNEL	65 dBA CNEL	60 dBA CNEL
1	Lacassie Avenue between	Lacassie Avenue between Project and N. Cali	600	53.8	8	18	39
2	Lacassie Avenue between	Lacassie Avenue between N. California Blvd. a	1,920	58.9	18	39	84
3	Trinity Avenue between	Trinity Avenue between Oakland Blvd. and N.	3,160	61.0	25	54	117
4	N. California Boulevard b	N. California Boulevard between Trinity Ave. a	16,210	68.3	77	165	356
5	N. California Boulevard b	N. California Boulevard between Lacassie Ave	16,760	68.4	78	169	364
6	N. California Boulevard b	N. California Boulevard between Ygnacio Valle	17,450	68.6	81	174	374
7	Ygnacio Valley Road bet	Ygnacio Valley Road between N. Main St. and	37,840	72.0	135	291	627
8	Ygnacio Valley Road bet	Ygnacio Valley Road between N. California Bl	37,910	72.9	155	334	719
9	Ygnacio Valley Road bet	Ygnacio Valley Road between Oakland Blvd. a	23,050	70.7	111	240	516
10	Oakland Blvd. South of Y	Oakland Blvd. South of Ygnacio Valley Road	25,300	71.1	118	255	549
11	I-680	Cartmill Avenue to Oakdale Avenue	232,000	82.7	698	1,504	3,239

The Landing at Walnut Creek

CUMULATIVE

#	ROADWAY	SEGMENT	ADT	POSTED SPEED LIMIT	LANE DISTANCE	SITE CONDITION	ROAD CLASS.	GRADE (%)
1	Lacassie Avenue between Project	Lacassie Avenue between Project and N. California Blvd.	1,070	35	18	Soft	Collector	0%
2	Lacassie Avenue between N. California	Lacassie Avenue between N. California Blvd. and Main St.	2,110	35	18	Soft	Collector	0%
3	Trinity Avenue between Oakland Blvd.	Trinity Avenue between Oakland Blvd. and N. California Blvd.	3,860	35	18	Soft	Collector	0%
4	N. California Boulevard between Trinity	N. California Boulevard between Trinity Ave. and Lacassie Ave.	18,280	35	45	Soft	Primary Arterial	0%
5	N. California Boulevard between Lacassie	N. California Boulevard between Lacassie Ave. and Ygnacio Valley Road	18,930	35	45	Soft	Primary Arterial	0%
6	N. California Boulevard between Ygnacio	N. California Boulevard between Ygnacio Valley Road and N. Main St.	18,990	35	45	Soft	Primary Arterial	0%
7	Ygnacio Valley Road between N. Main St.	Ygnacio Valley Road between N. Main St. and N. California Blvd.	42,910	35	45	Soft	Primary Arterial	0%
8	Ygnacio Valley Road between N. California	Ygnacio Valley Road between N. California Blvd. and Oakland Blvd.	43,170	40	45	Soft	Primary Arterial	0%
9	Ygnacio Valley Road between Oakland Blvd.	Ygnacio Valley Road between Oakland Blvd. and I-680	25,990	40	45	Soft	Primary Arterial	0%
10	Oakland Blvd. South of Ygnacio Valley	Oakland Blvd. South of Ygnacio Valley Road	27,470	40	45	Soft	Primary Arterial	0%
11	I-680	Cartmill Avenue to Oakdale Avenue	237,260	40	138	Soft	FreewayA	0%
12					#N/A	Soft		0%
13					#N/A	Soft		0%
14					#N/A	Soft		0%
15					#N/A	Soft		0%
16					#N/A	Soft		0%
17					#N/A	Soft		0%
18					#N/A	Soft		0%

ANALYST
EHP

ROAD CLASSIFICATION	SPEED	LANE DISTANCE
Collector		18
Minor Arterial		24
Primary Arterial		45
FreewayA		138
FreewayB		65
FreewayC		120

VEHICLE MIX INPUTS			
DAILY	HOURLY		
% A	77.3%	DAY	78.1%
% MT	16.2%	EVENING	9.1%
% HT	6.5%	NIGHT	12.9%

DISTANCE TO CENTERLINE
100 feet

The Landing at Walnut Creek
 CUMULATIVE CONDITIONS NOISE CONTOURS RESULT SUMMARY TABLE

#	ROADWAY	SEGMENT	DAILY TRAFIC VOLUMES	NOISE LEVEL AT 100 FT. (dBA CNEL)	DISTANCE TO NOISE CONTOUR (FT.)		
					70 dBA CNEL	65 dBA CNEL	60 dBA CNEL
1	Lacassie Avenue between	Lacassie Avenue between Project and N. Cali	1,070	56.3	12	26	57
2	Lacassie Avenue between	Lacassie Avenue between N. California Blvd. a	2,110	59.3	19	42	90
3	Trinity Avenue between	Trinity Avenue between Oakland Blvd. and N.	3,860	61.9	29	62	134
4	N. California Boulevard b	N. California Boulevard between Trinity Ave. a	18,280	68.8	83	179	386
5	N. California Boulevard b	N. California Boulevard between Lacassie Ave	18,930	68.9	85	183	395
6	N. California Boulevard b	N. California Boulevard between Ygnacio Valle	18,990	69.0	85	184	396
7	Ygnacio Valley Road bet	Ygnacio Valley Road between N. Main St. and	42,910	72.5	147	316	682
8	Ygnacio Valley Road bet	Ygnacio Valley Road between N. California Bl	43,170	73.4	169	364	784
9	Ygnacio Valley Road bet	Ygnacio Valley Road between Oakland Blvd. a	25,990	71.2	120	260	559
10	Oakland Blvd. South of Y	Oakland Blvd. South of Ygnacio Valley Road	27,470	71.5	125	269	580
11	I-680	Cartmill Avenue to Oakdale Avenue	237,260	82.8	708	1,526	3,288