

**APPENDIX I:
NOISE WORKSHEETS**

TRAFFIC NOISE LEVELS

Project Name: SMC Malibu Campus

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
 Analysis Scenario(s): Existing 2012, Existing + Project, Future 2015 Without Project, Future 2015 With Project
 Source of Traffic Volumes: Linscott, Law and Greenspan, August 8, 2012
 Community Noise Descriptor: L_{dn}: _____ CNEL: X

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

Traffic Noise Levels

Analysis Condition		Land Use	Lanes	Median Width	Peak Hour Volume	ADT Volume	Design Speed (mph)	Dist. from Center to Receptor ¹	Alpha Factor	Barrier Attn. dB(A)	Vehicle Mix Medium Trucks	Vehicle Mix Heavy Trucks	Peak Hour dB(A) L _{eq}	24-Hour dB(A) CNEL
Existing Traffic Noise (2012)														
Civic Center Way														
west of Stuart Ranch Rd/Webb Way		commercial	2	0	0	8,545	40	40	0	0	1.8%	0.7%	0.0	66.5
east of Stuart Ranch Rd/Webb Way		commercial and institutional	2	10	0	3,510	40	50	0	0	1.8%	0.7%	0.0	61.7
Stuart Ranch Rd/Webb Way														
north of Civic Center Way		commercial and institutional	2	0	0	1,000	25	40	0	0	1.8%	0.7%	0.0	52.7
south of Civic Center Way		commercial	4	0	0	8,255	25	40	0	0	1.8%	0.7%	0.0	62.3
Existing Plus Project Traffic Noise (2012)														
Civic Center Way														
west of Stuart Ranch Rd/Webb Way		commercial	2	0	0	8,590	40	40	0	0	1.8%	0.7%	0.0	66.5
east of Stuart Ranch Rd/Webb Way		commercial and institutional	2	10	0	3,995	40	50	0	0	1.8%	0.7%	0.0	62.3
Stuart Ranch Rd/Webb Way														
north of Civic Center Way		commercial and institutional	2	0	0	1,000	25	40	0	0	1.8%	0.7%	0.0	52.7
south of Civic Center Way		commercial	4	0	0	8,695	25	40	0	0	1.8%	0.7%	0.0	62.6
Future Without Project (2015)														
Civic Center Way														
west of Stuart Ranch Rd/Webb Way		commercial	2	0	0	9,010	40	40	0	0	1.8%	0.7%	0.0	66.7
east of Stuart Ranch Rd/Webb Way		commercial and institutional	2	10	0	4,630	40	50	0	0	1.8%	0.7%	0.0	62.9
Stuart Ranch Rd/Webb Way														
north of Civic Center Way		commercial and institutional	2	0	0	1,020	25	40	0	0	1.8%	0.7%	0.0	52.8
south of Civic Center Way		commercial	4	0	0	9,220	25	40	0	0	1.8%	0.7%	0.0	62.8
Future With Project (2015)														
Civic Center Way														
west of Stuart Ranch Rd/Webb Way		commercial	2	0	0	9,055	40	40	0	0	1.8%	0.7%	0.0	66.8
east of Stuart Ranch Rd/Webb Way		commercial and institutional	2	10	0	5,115	40	50	0	0	1.8%	0.7%	0.0	63.4
Stuart Ranch Rd/Webb Way														
north of Civic Center Way		commercial and institutional	2	0	0	1,020	25	40	0	0	1.8%	0.7%	0.0	52.8
south of Civic Center Way		commercial	4	0	0	9,660	25	40	0	0	1.8%	0.7%	0.0	63.0

¹ Distance in feet from the roadway centerline to nearest receptor location.

Logging Sound Level Meter Summary
 Translated: 16-Aug-2012 15:28:06

File Translated: C:\Documents and Settings\shane\Desktop\8-15-12 noise measurements\15Aug12I_002.slm

Model Number: 824
 Serial Number: A0997
 Firmware Rev: 3.535
 Software Version: 3.120
 Name: Parker Environmental
 Descr1: SMC Mailbu Project
 Descr2: Enter Address Line 2
 Setup: Logging Log
 Setup Descr: Untitled
 Location: 1
 Note 1:
 Note 2:

Overall Measurement

Current Measurement

Start Time:	15-Aug-2012 12:41:17	Start Time	15-Aug-2012 12:41:17
Elapsed Time:	00:15:00.0	Elapsed Time	00:15:00.0
Leq:	62.6	Leq:	62.6
SEL:	92.2	SEL:	92.2
Dose:	0.00	Dose:	0.00
Proj. Dose:	0.18	Proj. Dose:	0.18
Threshold:	0 dB	Threshold:	0 dB
Criterion:	90 dB	Criterion:	90 dB
Exchange Rate:	3 dB	Exchange Rate:	3 dB
Min:	45.4 15-Aug-2012 12:52:54	Min:	45.4 15-Aug-2012 12:52:54
Max:	75.8 15-Aug-2012 12:43:48	Max:	75.8 15-Aug-2012 12:43:48
Peak-1:	97.8 15-Aug-2012 12:43:49	Peak-1:	97.8 15-Aug-2012 12:43:49
Peak-2:	94.9 15-Aug-2012 12:47:41	Peak-2:	94.9 15-Aug-2012 12:47:41

Ln Start Level: 15 dB

L (1.00)	72.0
L (5.00)	68.4
L (50.00)	58.9
L (90.00)	51.1
L (95.00)	49.8
L (99.00)	46.2

LDN: 62.6
 CNEL: 62.6
 Overall Leq: 62.6

Detector: Slow
 Weighting: A

SPL Exceedance Level 1:	115.00	Exceeded:	0 times
SPL Exceedance Level 2:	120	Exceeded:	0 times
Peak-1 Exceedance Level:	140	Exceeded:	0 times
Peak-2 Exceedance Level:	140	Exceeded:	0 times

Hysteresis: 2
 Overloaded: 0
 Pause Count: 0

Pause Time: 00:00:00.0

Calibrated:	30-Apr-2012 09:20:06	Offset:	-47.2 dB
Checked:	15-Aug-2012 12:21:07	Level:	113.9 dB
Calibrator:	259068		
Level:	114.0		
Cal Record Count:	0		

Interval Records:	Enabled	Number Interval Records:	1
Time History:	Enabled	Number History Records:	17

Logsum2

824 Memory: 2097152
 Free Memory: 1972118 Percent Free: 94.04%
 Battery Level: 83% Source: INT

Overall Any Data

Start Time: 15-Aug-2012 12:41:17
 Elapsed Time: 00:15:00.0

	A Weight	C Weight	Flat
Leq:	62.6 dBA	70.4 dBC	71.6 dBF
SEL:	92.2 dBA	100.0 dBC	101.1 dBF
Peak:	94.9 dBA	96.8 dBC	97.8 dBF
	15-Aug-2012 12:47:41	15-Aug-2012 12:47:41	15-Aug-2012 12:43:49
Lmax (slow):	75.8 dBA	84.0 dBC	85.2 dBF
	15-Aug-2012 12:43:48	15-Aug-2012 12:43:49	15-Aug-2012 12:43:49
Lmin (slow):	45.4 dBA	61.9 dBC	63.8 dBF
	15-Aug-2012 12:52:54	15-Aug-2012 12:48:13	15-Aug-2012 12:48:13
Lmax (fast):	79.5 dBA	87.1 dBC	88.7 dBF
	15-Aug-2012 12:47:41	15-Aug-2012 12:43:49	15-Aug-2012 12:43:49
Lmin (fast):	44.9 dBA	59.8 dBC	61.6 dBF
	15-Aug-2012 12:52:54	15-Aug-2012 12:48:13	15-Aug-2012 12:48:13
Lmax (impulse):	81.1 dBA	88.8 dBC	90.9 dBF
	15-Aug-2012 12:47:41	15-Aug-2012 12:43:49	15-Aug-2012 12:43:49
Lmin (impulse):	45.3 dBA	63.1 dBC	64.9 dBF
	15-Aug-2012 12:52:54	15-Aug-2012 12:48:11	15-Aug-2012 12:48:11

Current Any Data

Start Time: 15-Aug-2012 12:41:17
 Elapsed Time: 00:15:00.0

	A Weight	C Weight	Flat
Leq:	62.6 dBA	70.4 dBC	71.6 dBF
SEL:	92.2 dBA	100.0 dBC	101.1 dBF
Peak:	94.9 dBA	96.8 dBC	97.8 dBF
	15-Aug-2012 12:47:41	15-Aug-2012 12:47:41	15-Aug-2012 12:43:49
Lmax (slow):	75.8 dBA	84.0 dBC	85.2 dBF
	15-Aug-2012 12:43:48	15-Aug-2012 12:43:49	15-Aug-2012 12:43:49
Lmin (slow):	45.4 dBA	61.9 dBC	63.8 dBF
	15-Aug-2012 12:52:54	15-Aug-2012 12:48:13	15-Aug-2012 12:48:13
Lmax (fast):	79.5 dBA	87.1 dBC	88.7 dBF
	15-Aug-2012 12:47:41	15-Aug-2012 12:43:49	15-Aug-2012 12:43:49
Lmin (fast):	44.9 dBA	59.8 dBC	61.6 dBF
	15-Aug-2012 12:52:54	15-Aug-2012 12:48:13	15-Aug-2012 12:48:13
Lmax (impulse):	81.1 dBA	88.8 dBC	90.9 dBF
	15-Aug-2012 12:47:41	15-Aug-2012 12:43:49	15-Aug-2012 12:43:49
Lmin (impulse):	45.3 dBA	63.1 dBC	64.9 dBF
	15-Aug-2012 12:52:54	15-Aug-2012 12:48:11	15-Aug-2012 12:48:11

Logsum3

Logging Sound Level Meter Summary
 Translated: 16-Aug-2012 15:30:41

File Translated: C:\Documents and Settings\shane\Desktop\8-15-12 noise measurements\15Aug12I_003.slm

Model Number: 824
 Serial Number: A0997
 Firmware Rev: 3.535
 Software Version: 3.120
 Name: Parker Environmental
 Descr1: SMC Malibu Project
 Descr2: Enter Address Line 2
 Setup: Logging Log
 Setup Descr: Untitled
 Location: 2
 Note 1:
 Note 2:

Overall Measurement

Current Measurement

Start Time:	15-Aug-2012 12:58:56	Start Time	15-Aug-2012 12:58:56
Elapsed Time:	00:15:00.0	Elapsed Time	00:15:00.0
Leq:	60.9	Leq:	60.9
SEL:	90.5	SEL:	90.5
Dose:	0.00	Dose:	0.00
Proj. Dose:	0.12	Proj. Dose:	0.12
Threshold:	0 dB	Threshold:	0 dB
Criterion:	90 dB	Criterion:	90 dB
Exchange Rate:	3 dB	Exchange Rate:	3 dB
Min:	47.9 15-Aug-2012 13:09:45	Min:	47.9 15-Aug-2012 13:09:45
Max:	73.0 15-Aug-2012 13:03:15	Max:	73.0 15-Aug-2012 13:03:15
Peak-1:	98.2 15-Aug-2012 13:03:14	Peak-1:	98.2 15-Aug-2012 13:03:14
Peak-2:	86.7 15-Aug-2012 13:03:15	Peak-2:	86.7 15-Aug-2012 13:03:15

Ln Start Level: 15 dB
 L (1.00) 68.6
 L (5.00) 65.7
 L (50.00) 58.2
 L (90.00) 52.4
 L (95.00) 51.5
 L (99.00) 50.3
 LDN: 60.9
 CNEL: 60.9
 Overall Leq: 60.9

Detector: Slow
 Weighting: A
 SPL Exceedance Level 1: 115.00 Exceeded: 0 times
 SPL Exceedance Level 2: 120 Exceeded: 0 times
 Peak-1 Exceedance Level: 140 Exceeded: 0 times
 Peak-2 Exceedance Level: 140 Exceeded: 0 times
 Hysteresis: 2
 Overloaded: 0
 Pause Count: 0 Pause Time: 00:00:00.0

Calibrated: 30-Apr-2012 09:20:06 Offset: -47.2 dB
 Checked: 15-Aug-2012 12:21:07 Level: 113.9 dB
 Calibrator: 259068
 Level: 114.0
 Cal Record Count: 0

Interval Records: Enabled Number Interval Records: 1
 Time History: Enabled Number History Records: 17

Logsum3

824 Memory: 2097152
 Free Memory: 1972118
 Battery Level: 83%

Percent Free: 94.04%
 Source: INT

Overall Any Data

Start Time: 15-Aug-2012 12:58:56
 Elapsed Time: 00:15:00.0

	A Weight	C Weight	Flat
Leq:	60.9 dBA	71.3 dBC	72.9 dBF
SEL:	90.5 dBA	100.8 dBC	102.4 dBF
Peak:	86.7 dBA	96.9 dBC	98.2 dBF
	15-Aug-2012 13:03:15	15-Aug-2012 13:03:14	15-Aug-2012 13:03:14
Lmax (slow):	73.0 dBA	85.8 dBC	86.1 dBF
	15-Aug-2012 13:03:15	15-Aug-2012 13:03:15	15-Aug-2012 13:03:15
Lmin (slow):	47.9 dBA	63.4 dBC	65.4 dBF
	15-Aug-2012 13:09:45	15-Aug-2012 13:09:39	15-Aug-2012 13:09:39
Lmax (fast):	75.2 dBA	88.1 dBC	88.4 dBF
	15-Aug-2012 13:03:15	15-Aug-2012 13:03:15	15-Aug-2012 13:03:15
Lmin (fast):	47.0 dBA	61.9 dBC	63.6 dBF
	15-Aug-2012 13:09:44	15-Aug-2012 13:09:38	15-Aug-2012 13:09:38
Lmax (impulse):	75.6 dBA	88.9 dBC	89.4 dBF
	15-Aug-2012 13:03:15	15-Aug-2012 13:03:14	15-Aug-2012 13:03:14
Lmin (impulse):	47.2 dBA	64.2 dBC	66.0 dBF
	15-Aug-2012 13:09:44	15-Aug-2012 13:09:43	15-Aug-2012 12:58:56

Current Any Data

Start Time: 15-Aug-2012 12:58:56
 Elapsed Time: 00:15:00.0

	A Weight	C Weight	Flat
Leq:	60.9 dBA	71.3 dBC	72.9 dBF
SEL:	90.5 dBA	100.8 dBC	102.4 dBF
Peak:	86.7 dBA	96.9 dBC	98.2 dBF
	15-Aug-2012 13:03:15	15-Aug-2012 13:03:14	15-Aug-2012 13:03:14
Lmax (slow):	73.0 dBA	85.8 dBC	86.1 dBF
	15-Aug-2012 13:03:15	15-Aug-2012 13:03:15	15-Aug-2012 13:03:15
Lmin (slow):	47.9 dBA	63.4 dBC	65.4 dBF
	15-Aug-2012 13:09:45	15-Aug-2012 13:09:39	15-Aug-2012 13:09:39
Lmax (fast):	75.2 dBA	88.1 dBC	88.4 dBF
	15-Aug-2012 13:03:15	15-Aug-2012 13:03:15	15-Aug-2012 13:03:15
Lmin (fast):	47.0 dBA	61.9 dBC	63.6 dBF
	15-Aug-2012 13:09:44	15-Aug-2012 13:09:38	15-Aug-2012 13:09:38
Lmax (impulse):	75.6 dBA	88.9 dBC	89.4 dBF
	15-Aug-2012 13:03:15	15-Aug-2012 13:03:14	15-Aug-2012 13:03:14
Lmin (impulse):	47.2 dBA	64.2 dBC	66.0 dBF
	15-Aug-2012 13:09:44	15-Aug-2012 13:09:43	15-Aug-2012 12:58:56

Logging Sound Level Meter Summary
 Translated: 16-Aug-2012 15:32:13

File Translated: C:\Documents and Settings\shane\Desktop\8-15-12 noise measurements\15Aug13I_004.slm

Model Number: 824
 Serial Number: A0997
 Firmware Rev: 3.535
 Software Version: 3.120
 Name: Parker Environmental
 Descr1: SMC Malibu Project
 Descr2: Enter Address Line 2
 Setup: Logging Log
 Setup Descr: Untitled
 Location: 3
 Note 1:
 Note 2:

Overall Measurement

Current Measurement

Start Time:	15-Aug-2012 13:15:59	Start Time	15-Aug-2012 13:15:59
Elapsed Time:	00:15:00.0	Elapsed Time	00:15:00.0
Leq:	50.1	Leq:	50.1
SEL:	79.6	SEL:	79.6
Dose:	0.00	Dose:	0.00
Proj. Dose:	0.00	Proj. Dose:	0.00
Threshold:	0 dB	Threshold:	0 dB
Criterion:	90 dB	Criterion:	90 dB
Exchange Rate:	3 dB	Exchange Rate:	3 dB
Min:	43.9 15-Aug-2012 13:22:47	Min:	43.9 15-Aug-2012 13:22:47
Max:	67.3 15-Aug-2012 13:23:03	Max:	67.3 15-Aug-2012 13:23:03
Peak-1:	86.2 15-Aug-2012 13:16:05	Peak-1:	86.2 15-Aug-2012 13:16:05
Peak-2:	88.3 15-Aug-2012 13:16:05	Peak-2:	88.3 15-Aug-2012 13:16:05

Ln Start Level: 15 dB
 L (1.00) 57.1
 L (5.00) 53.7
 L (50.00) 48.3
 L (90.00) 46.2
 L (95.00) 45.7
 L (99.00) 45.0
 LDN: 50.1
 CNEL: 50.1
 Overall Leq: 50.1

Detector: Slow
 Weighting: A
 SPL Exceedance Level 1: 115.00 Exceeded: 0 times
 SPL Exceedance Level 2: 120 Exceeded: 0 times
 Peak-1 Exceedance Level: 140 Exceeded: 0 times
 Peak-2 Exceedance Level: 140 Exceeded: 0 times
 Hysteresis: 2
 Overloaded: 0
 Pause Count: 0 Pause Time: 00:00:00.0

Calibrated: 30-Apr-2012 09:20:06 Offset: -47.2 dB
 Checked: 15-Aug-2012 12:21:07 Level: 113.9 dB
 Calibrator: 259068
 Level: 114.0
 Cal Record Count: 0

Interval Records: Enabled Number Interval Records: 1
 Time History: Enabled Number History Records: 17

Logsum4

824 Memory: 2097152
 Free Memory: 1972118
 Battery Level: 82%

Percent Free: 94.04%
 Source: INT

Overall Any Data

Start Time: 15-Aug-2012 13:15:59
 Elapsed Time: 00:15:00.0

	A Weight	C Weight	Flat
Leq:	50.1 dBA	65.2 dBC	66.8 dBF
SEL:	79.6 dBA	94.7 dBC	96.3 dBF
Peak:	88.3 dBA	85.9 dBC	86.2 dBF
	15-Aug-2012 13:16:05	15-Aug-2012 13:16:05	15-Aug-2012 13:16:05
Lmax (slow):	67.3 dBA	74.6 dBC	75.0 dBF
	15-Aug-2012 13:23:03	15-Aug-2012 13:20:23	15-Aug-2012 13:20:23
Lmin (slow):	43.9 dBA	59.6 dBC	62.1 dBF
	15-Aug-2012 13:22:47	15-Aug-2012 13:15:59	15-Aug-2012 13:15:59
Lmax (fast):	73.3 dBA	76.4 dBC	76.9 dBF
	15-Aug-2012 13:23:02	15-Aug-2012 13:20:21	15-Aug-2012 13:20:21
Lmin (fast):	43.3 dBA	58.8 dBC	58.8 dBF
	15-Aug-2012 13:22:47	15-Aug-2012 13:15:59	15-Aug-2012 13:15:59
Lmax (impulse):	76.1 dBA	77.3 dBC	77.8 dBF
	15-Aug-2012 13:23:02	15-Aug-2012 13:20:21	15-Aug-2012 13:20:21
Lmin (impulse):	44.0 dBA	57.4 dBC	59.3 dBF
	15-Aug-2012 13:22:47	15-Aug-2012 13:15:59	15-Aug-2012 13:15:59

Current Any Data

Start Time: 15-Aug-2012 13:15:59
 Elapsed Time: 00:15:00.0

	A Weight	C Weight	Flat
Leq:	50.1 dBA	65.2 dBC	66.8 dBF
SEL:	79.6 dBA	94.7 dBC	96.3 dBF
Peak:	88.3 dBA	85.9 dBC	86.2 dBF
	15-Aug-2012 13:16:05	15-Aug-2012 13:16:05	15-Aug-2012 13:16:05
Lmax (slow):	67.3 dBA	74.6 dBC	75.0 dBF
	15-Aug-2012 13:23:03	15-Aug-2012 13:20:23	15-Aug-2012 13:20:23
Lmin (slow):	43.9 dBA	59.6 dBC	62.1 dBF
	15-Aug-2012 13:22:47	15-Aug-2012 13:15:59	15-Aug-2012 13:15:59
Lmax (fast):	73.3 dBA	76.4 dBC	76.9 dBF
	15-Aug-2012 13:23:02	15-Aug-2012 13:20:21	15-Aug-2012 13:20:21
Lmin (fast):	43.3 dBA	58.8 dBC	58.8 dBF
	15-Aug-2012 13:22:47	15-Aug-2012 13:15:59	15-Aug-2012 13:15:59
Lmax (impulse):	76.1 dBA	77.3 dBC	77.8 dBF
	15-Aug-2012 13:23:02	15-Aug-2012 13:20:21	15-Aug-2012 13:20:21
Lmin (impulse):	44.0 dBA	57.4 dBC	59.3 dBF
	15-Aug-2012 13:22:47	15-Aug-2012 13:15:59	15-Aug-2012 13:15:59