Appendix G
Noise Analysis

Newport Pointe Commercial Center Project
Initial Study/Mitigated Negative Declaration

Site Number:	NM-1
Recorded By:	Danielle Regimbal
Job Number:	181112
Date:	April 1, 2021
Time:	10:05 AM
Location:	Eastern End of San Quintin Road
Source of Peak Noise:	Traffic along Newport Road

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
53.4	68.8	39.8	88.4

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**04/08/2019**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**04/08/2019**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**04/08/2019**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**04/08/2019**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Sunny/Cloudy
	Note: dBA Offset = -0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	NW 4mph	75	29.93inHg

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		04/01/2021 10:05:52
End Time:		04/01/2021 10:15:52
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.16

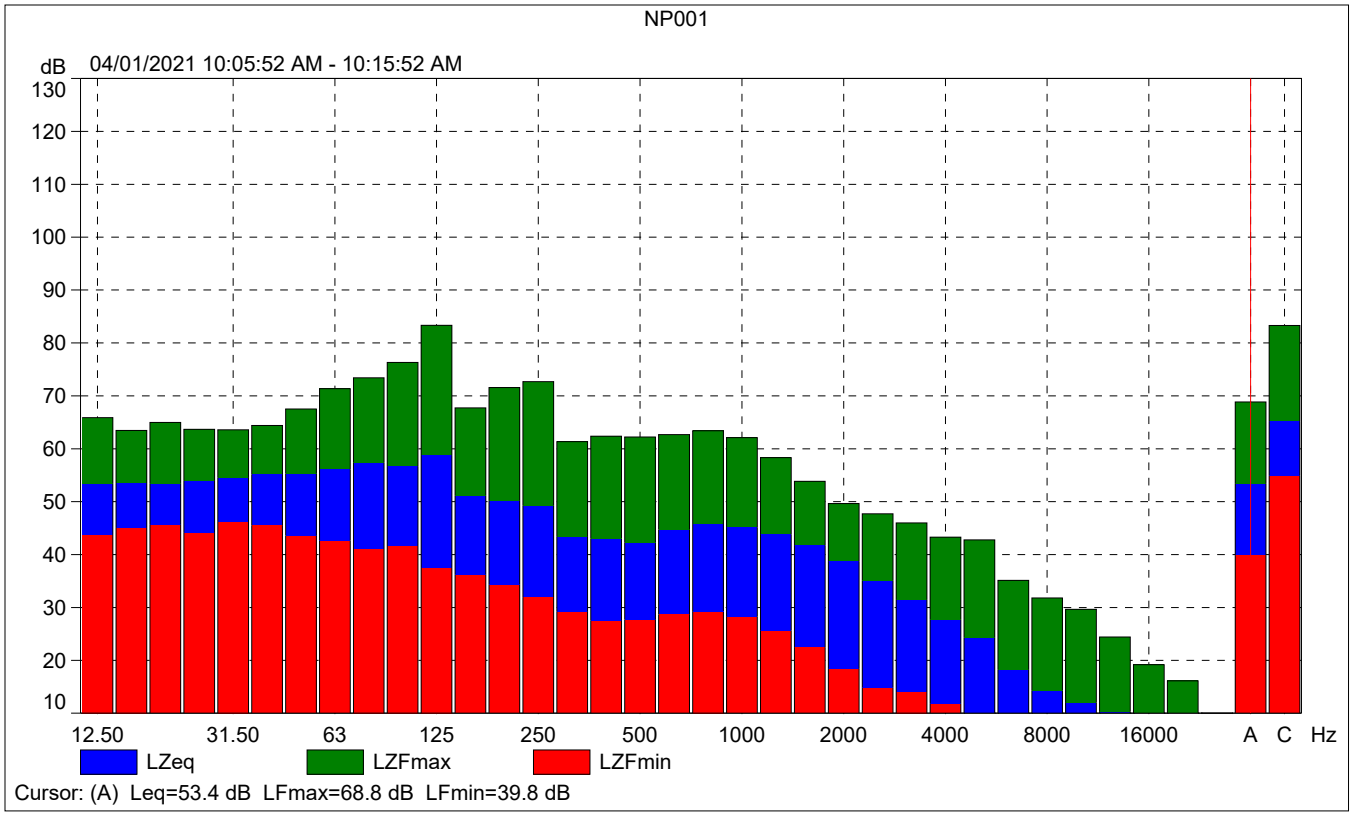
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

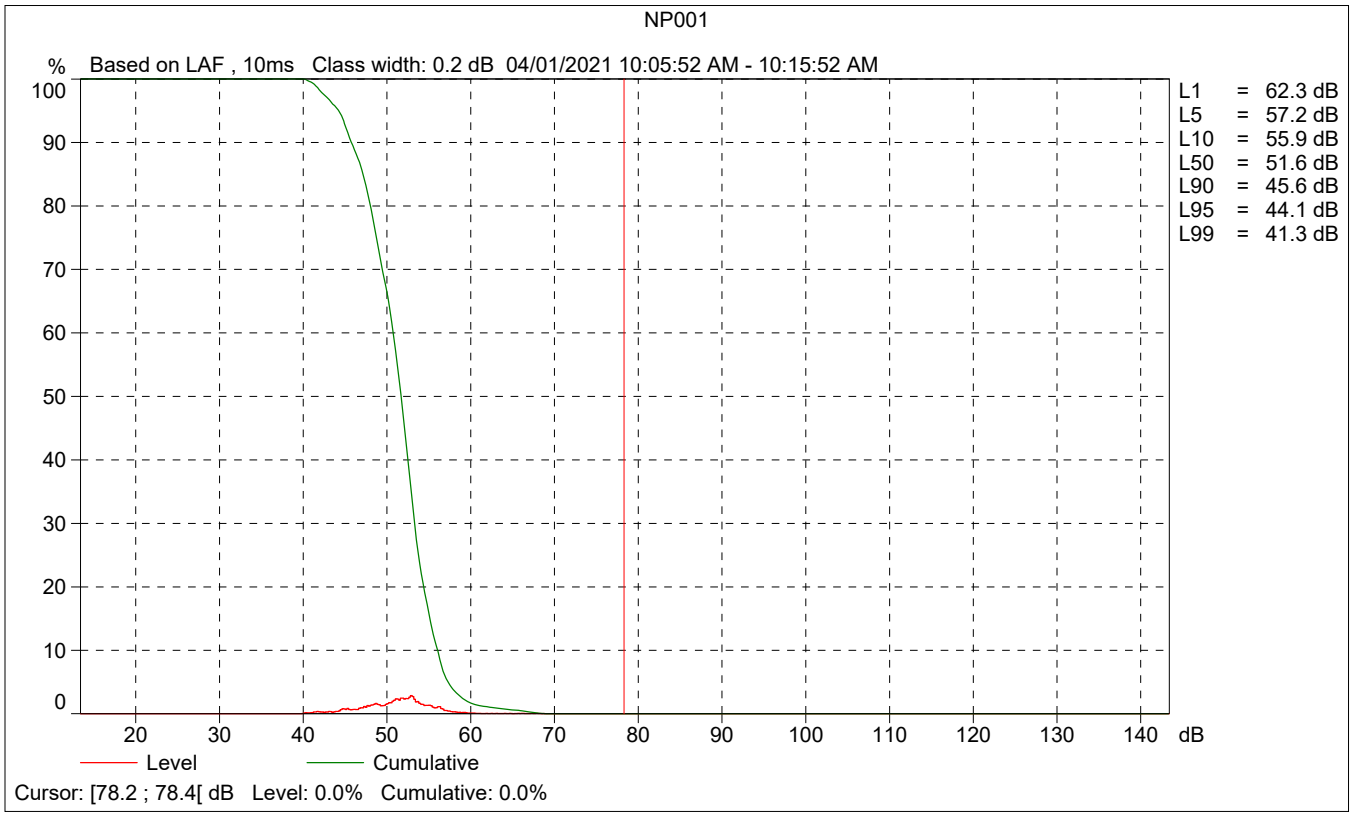
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

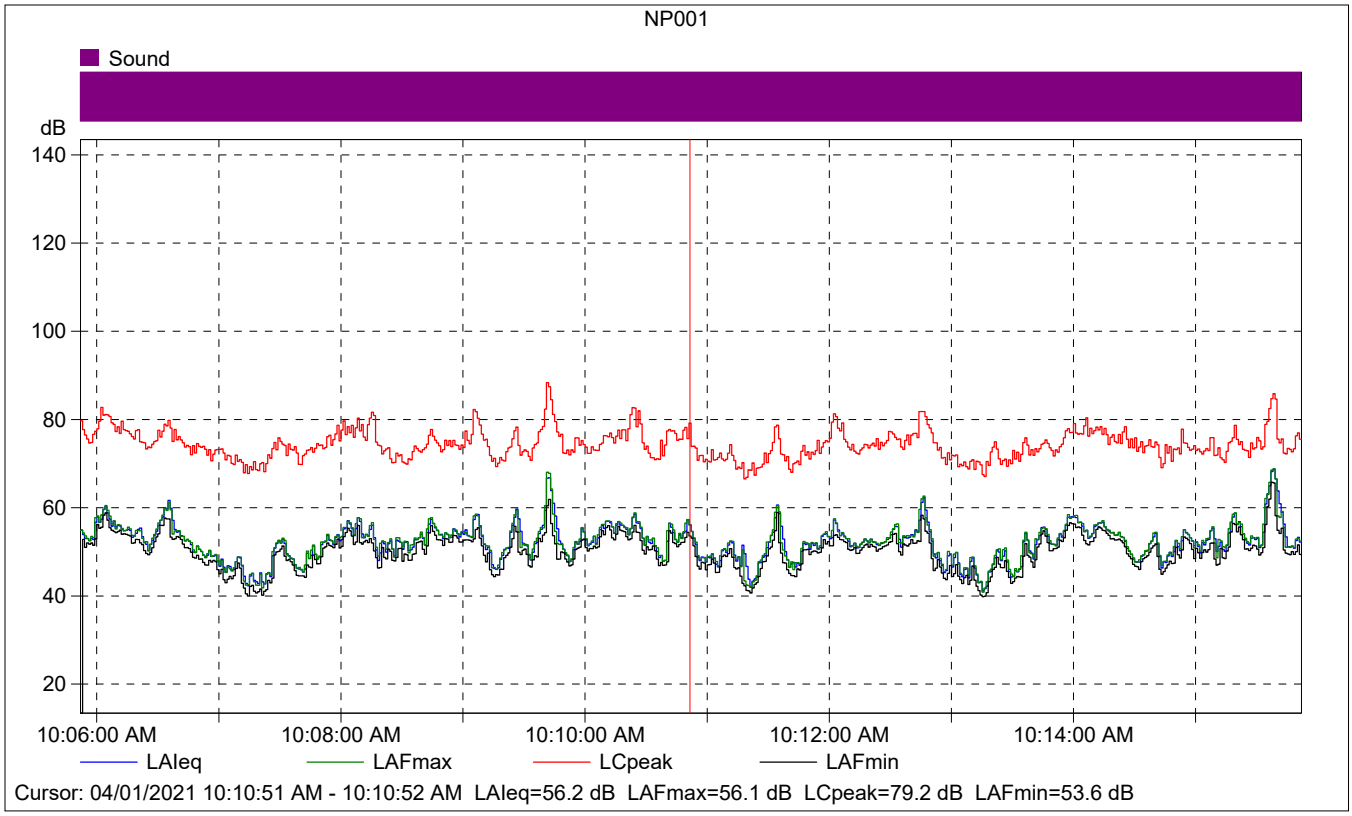
Calibration Time:		04/01/2021 08:21:38
Calibration Type:		External reference
Sensitivity:		43.4065237641335 mV/Pa

NP001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	53.4	68.8	39.8
Time	10:05:52 AM	10:15:52 AM	0:10:00				
Date	04/01/2021	04/01/2021					

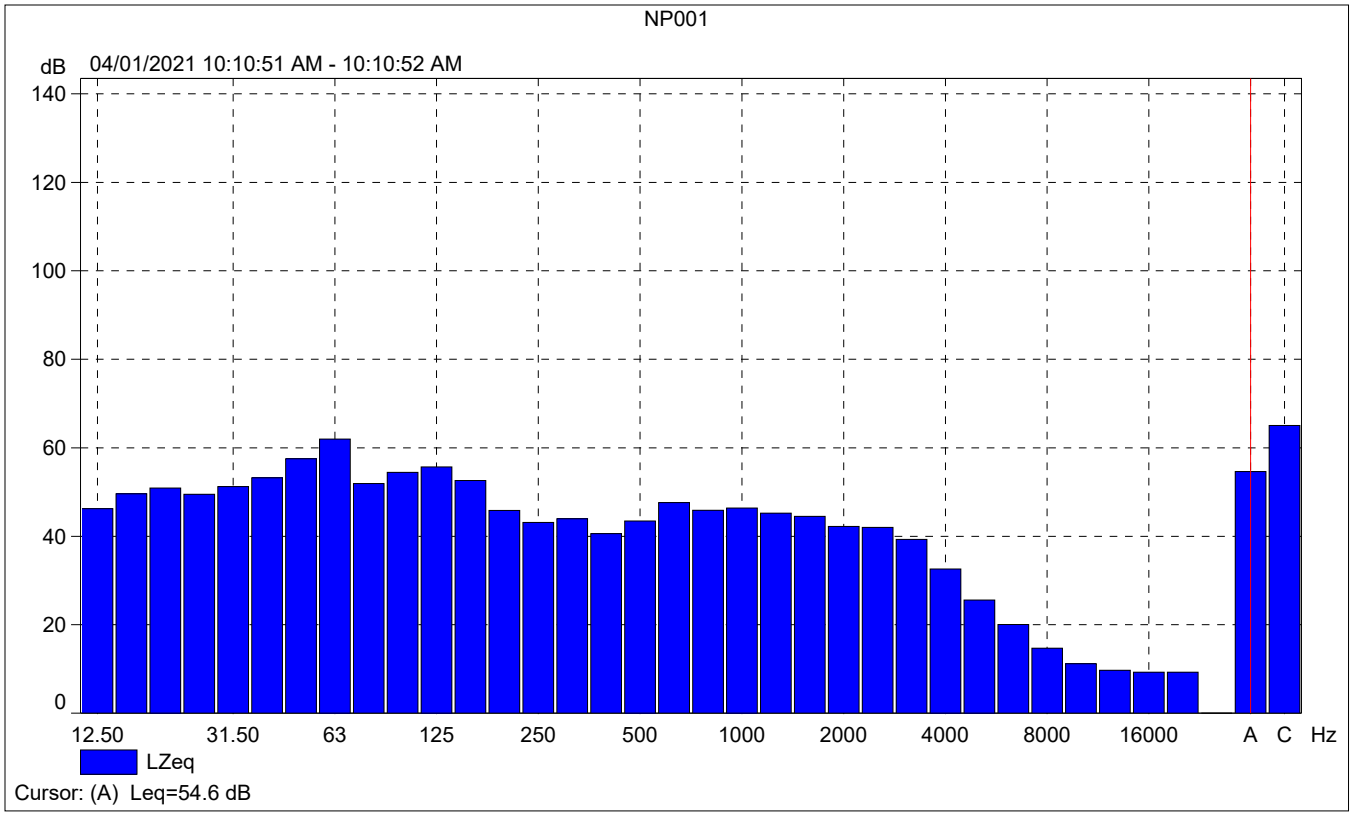

NP001
dB
04/01/2021 10:05:52 AM - 10:15:52 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=53.4 dB LFmax=68.8 dB LFmin=39.8 dB

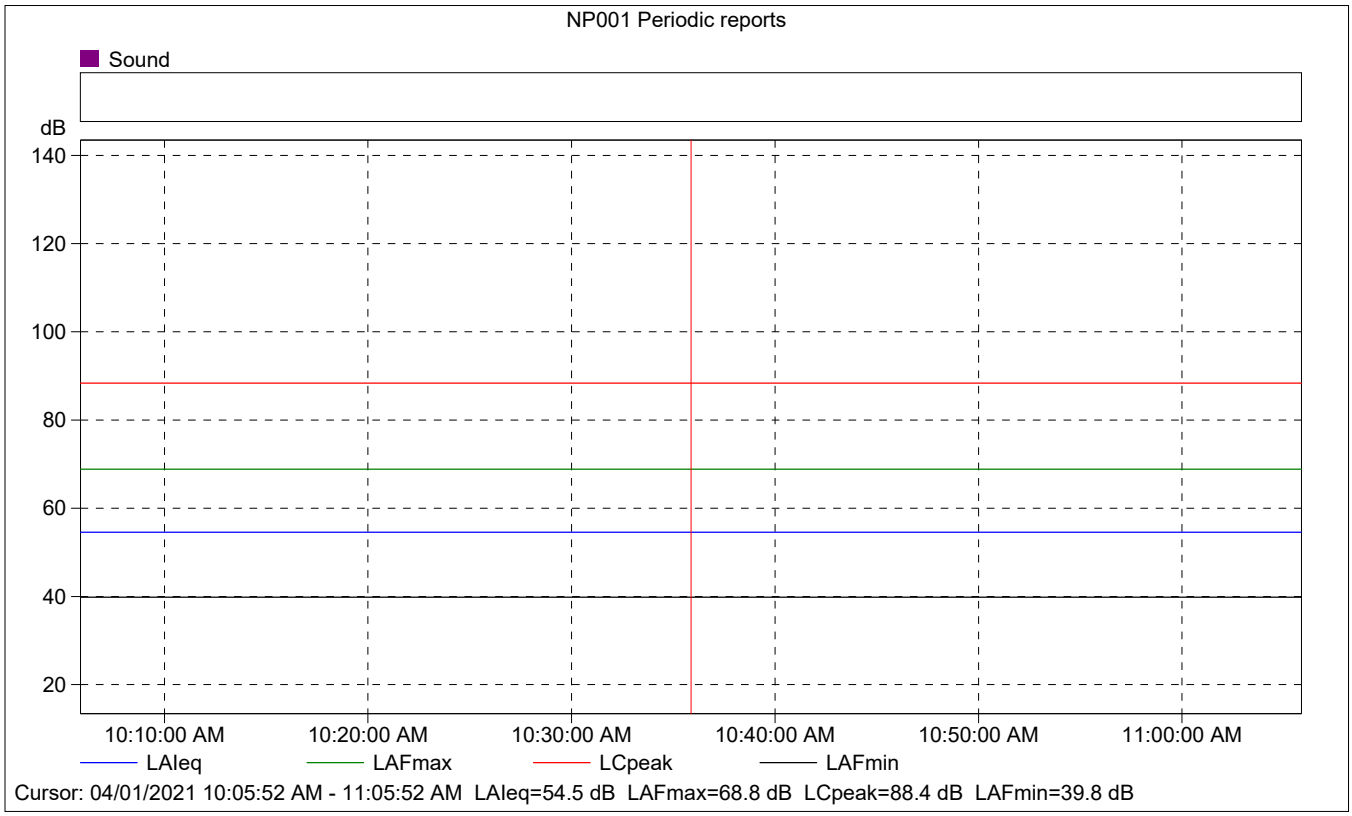

NP001
%
Based on LAF , 10ms Class width: 0.2 dB 04/01/2021 10:05:52 AM - 10:15:52 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 62.3 dB
L5 = 57.2 dB
L10 = 55.9 dB
L50 = 51.6 dB
L90 = 45.6 dB
L95 = 44.1 dB
L99 = 41.3 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NP001

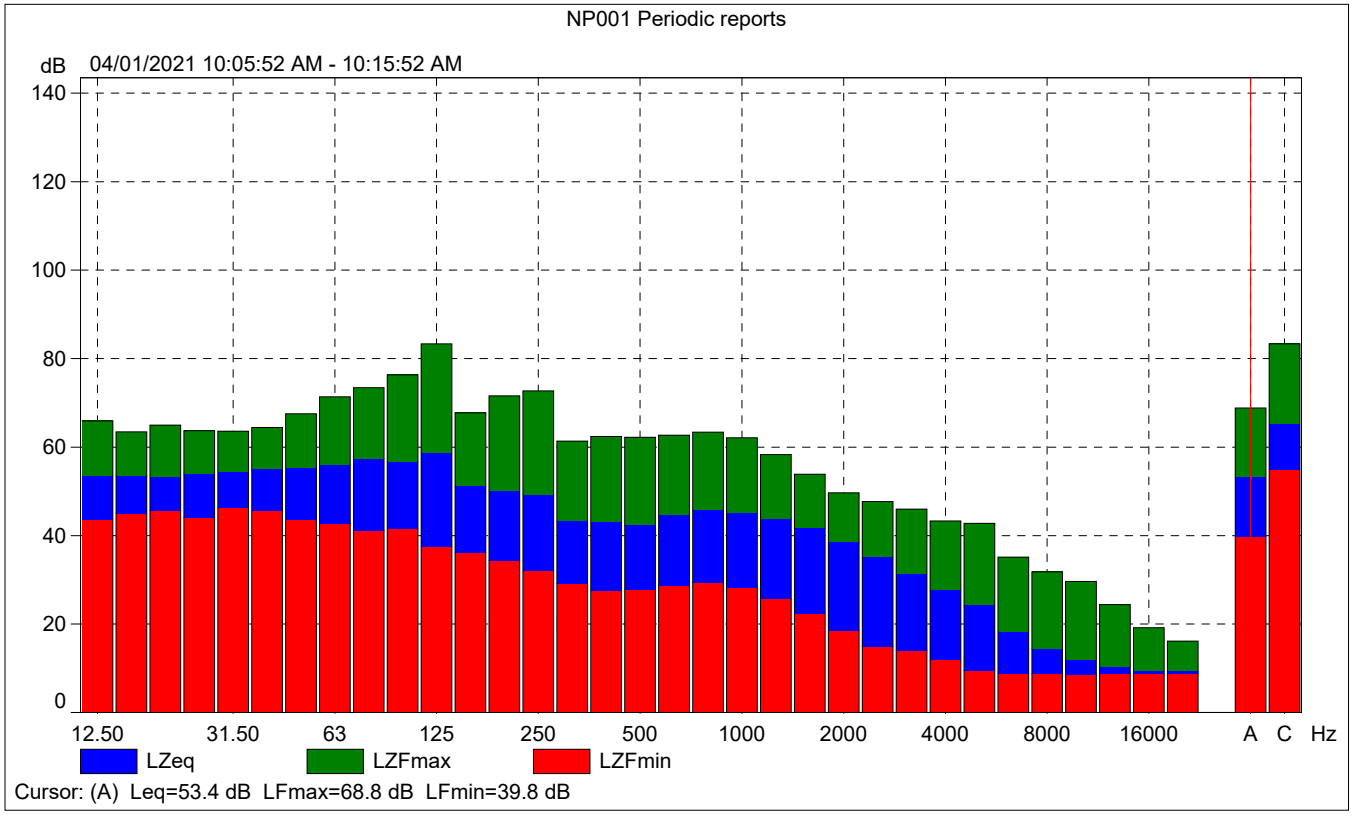
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			56.2	56.1	53.6
Time	10:10:51 AM	0:00:01			
Date	04/01/2021				

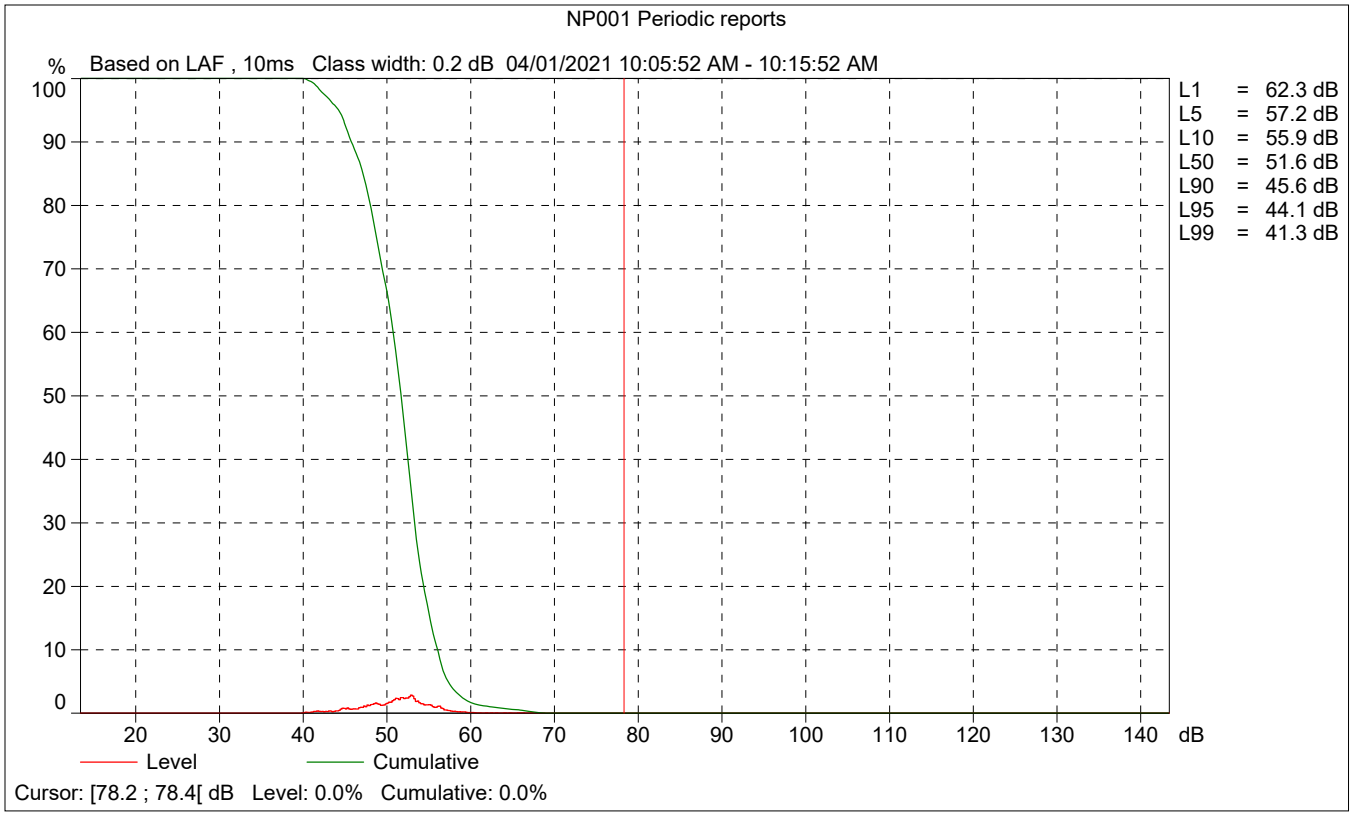

NP001
dB
04/01/2021 10:10:51 AM - 10:10:52 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=54.6 dB


NP001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:10:00 AM
10:20:00 AM
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 04/01/2021 10:05:52 AM - 11:05:52 AM LAIeq=54.5 dB LAFmax=68.8 dB LCpeak=88.4 dB LAFmin=39.8 dB

NP001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	54.5	68.8	39.8
Time	10:05:52 AM	0:10:00				
Date	04/01/2021					




NP001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 04/01/2021 10:05:52 AM - 10:15:52 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
Level
Cumulative
L1 = 62.3 dB
L5 = 57.2 dB
L10 = 55.9 dB
L50 = 51.6 dB
L90 = 45.6 dB
L95 = 44.1 dB
L99 = 41.3 dB
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number:	NM-2
Recorded By:	Danielle Regimbal
Job Number:	181112
Date:	April 1, 2021
Time:	10:22 AM
Location:	End of Cul de Sac at Sun Country Lane
Source of Peak Noise:	dog barking, car starting in garage

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
45.9	61.0	31.6	86.7

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**04/08/2019**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**04/08/2019**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**04/08/2019**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**04/08/2019**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Sunny/Cloudy
	Note: dBA Offset = -0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	NW 4mph	75	29.93inHg

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		04/01/2021 10:22:02
End Time:		04/01/2021 10:32:02
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.16

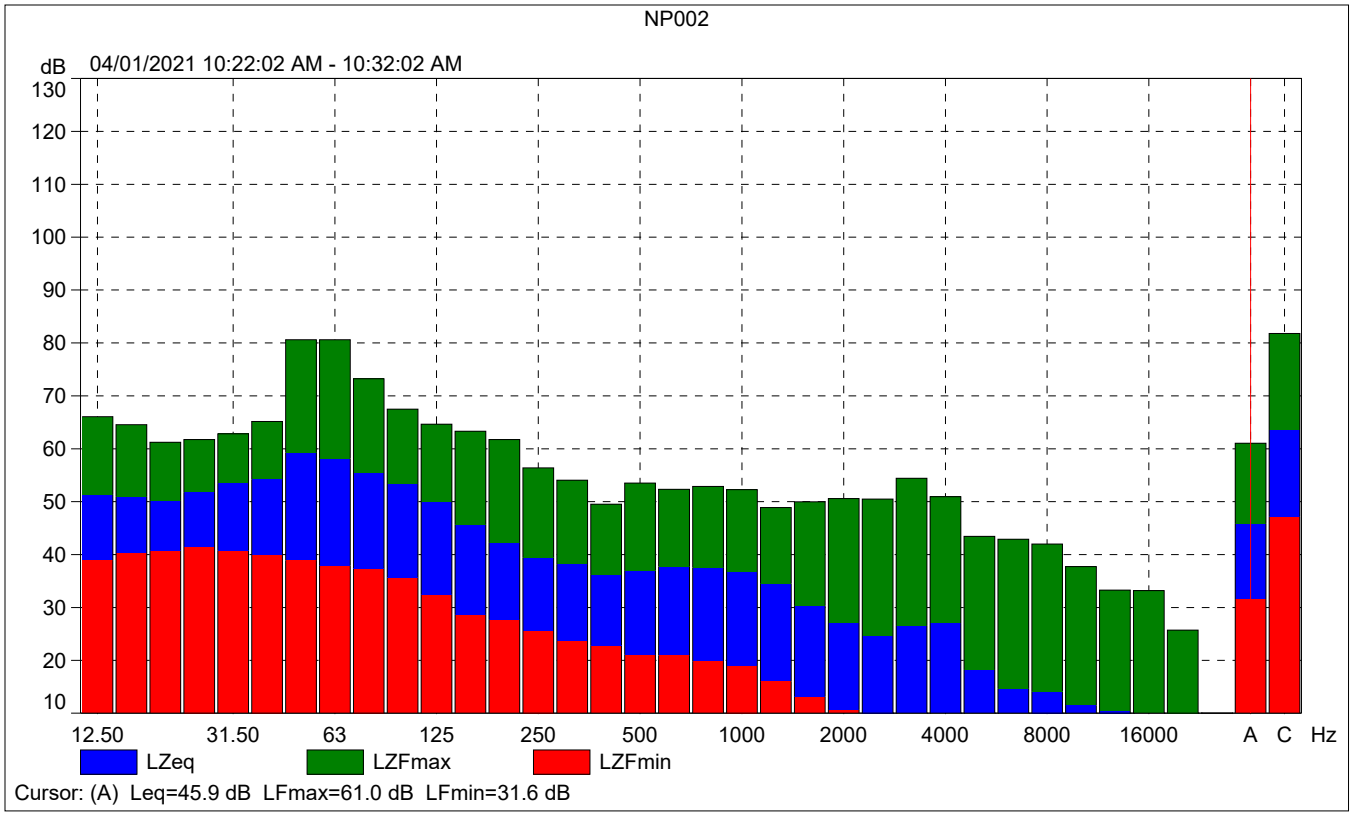
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

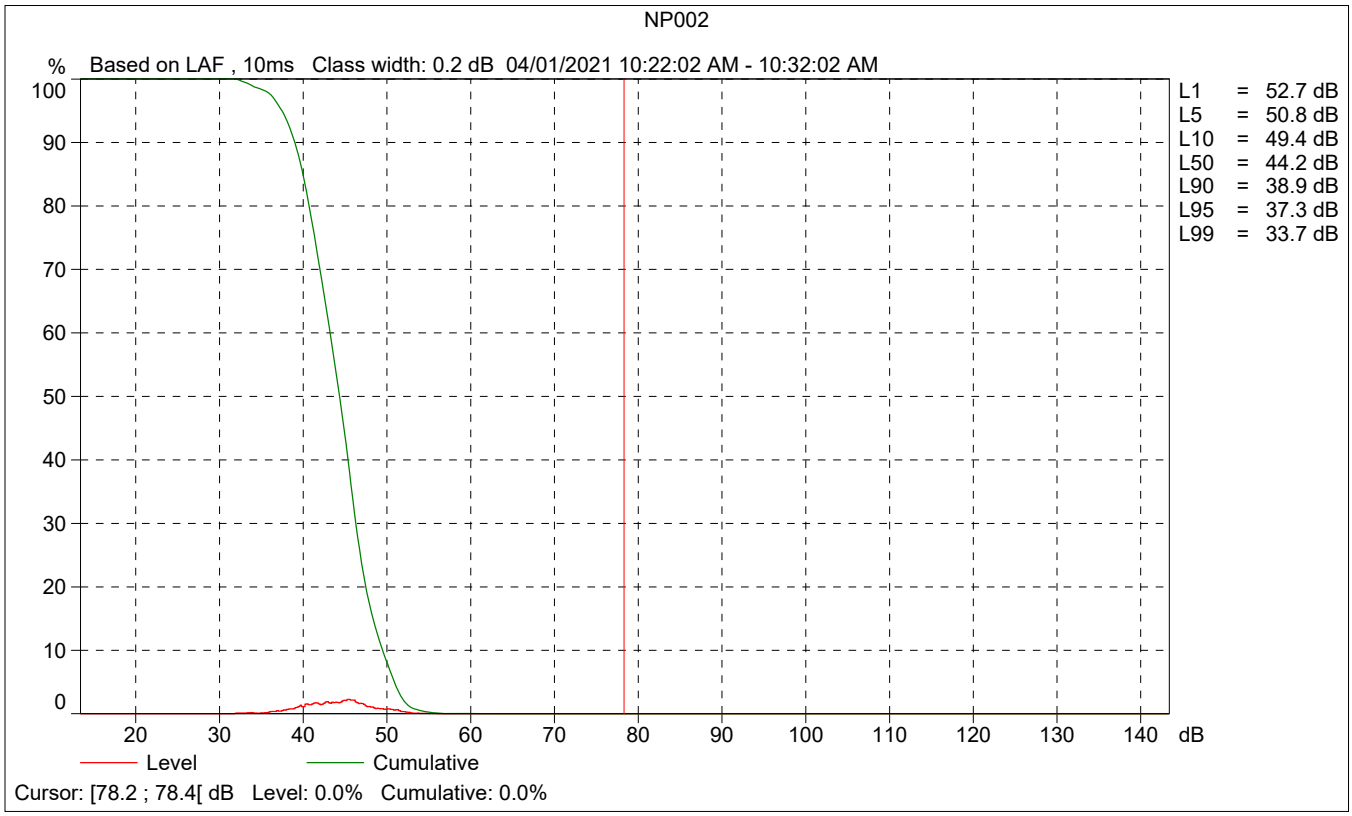
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

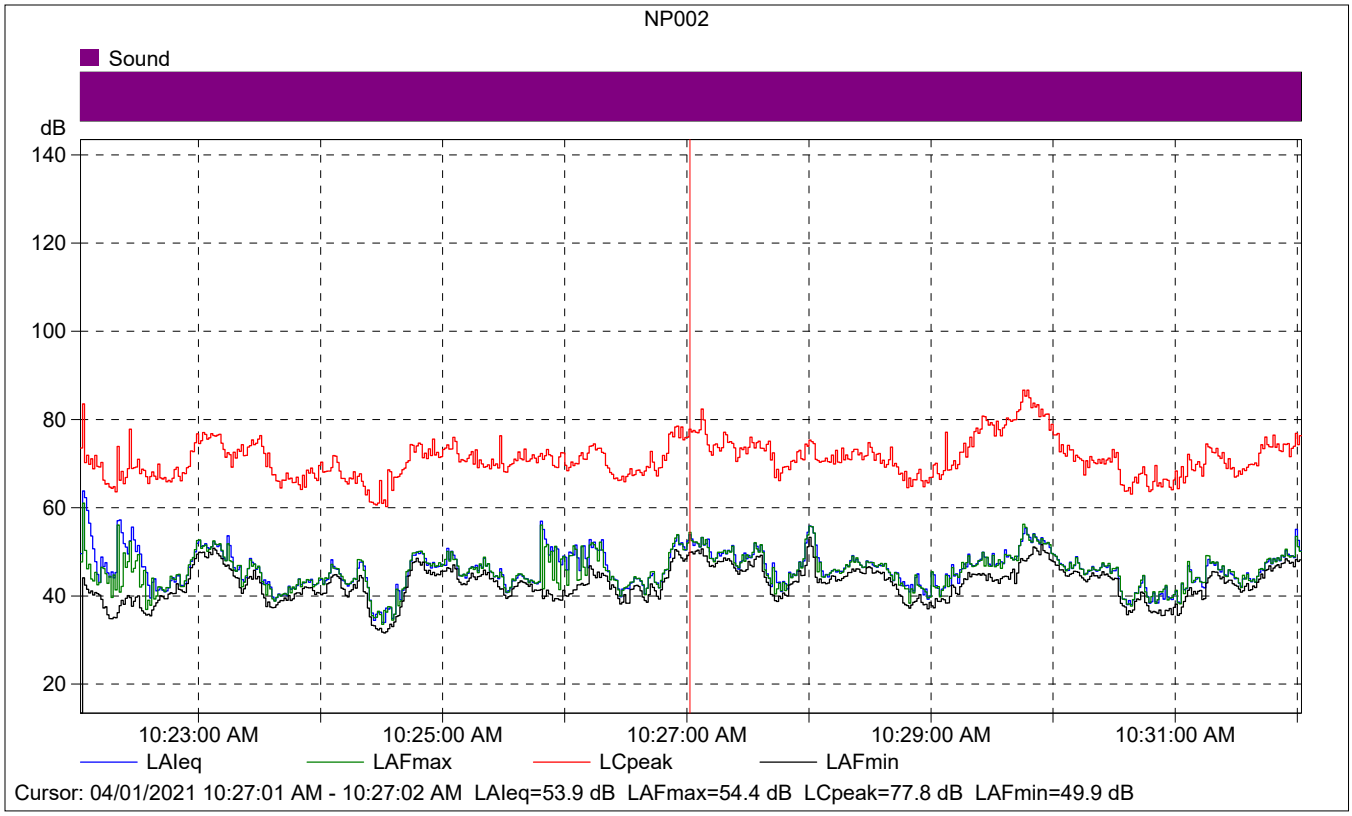
Calibration Time:		04/01/2021 08:21:38
Calibration Type:		External reference
Sensitivity:		43.4065237641335 mV/Pa

NP002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	45.9	61.0	31.6
Time	10:22:02 AM	10:32:02 AM	0:10:00				
Date	04/01/2021	04/01/2021					

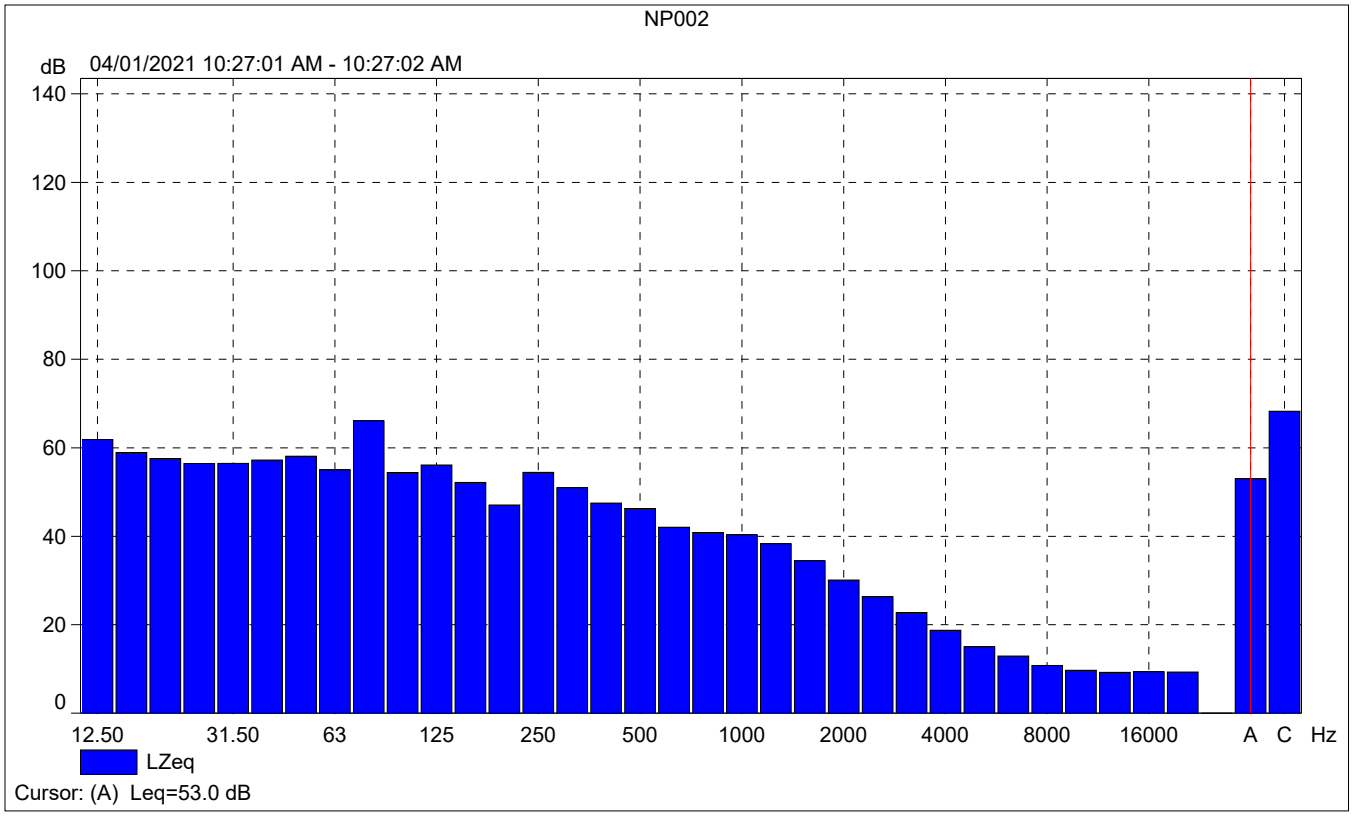

NP002
dB
04/01/2021 10:22:02 AM - 10:32:02 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=45.9 dB LFmax=61.0 dB LFmin=31.6 dB

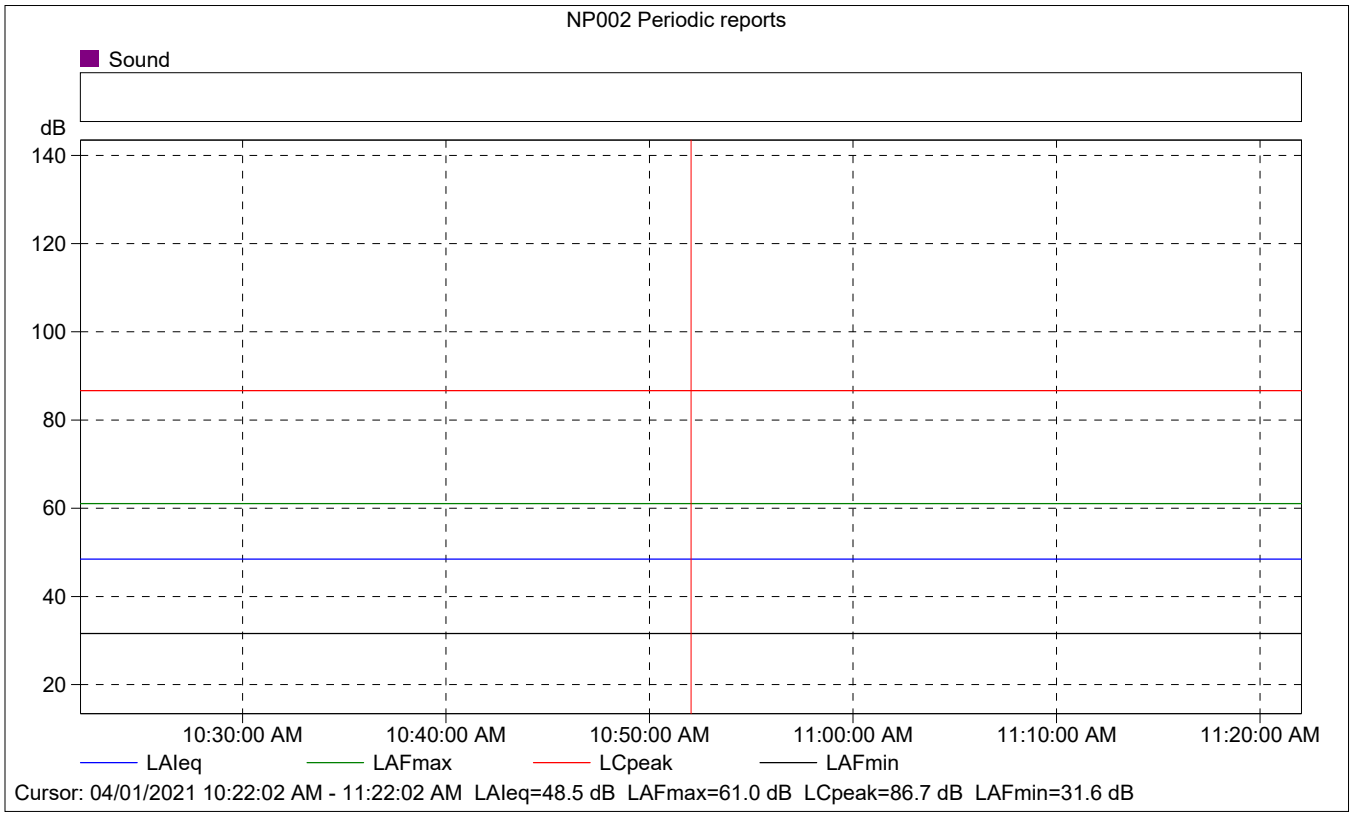

NP002
%
Based on LAF , 10ms Class width: 0.2 dB 04/01/2021 10:22:02 AM - 10:32:02 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 52.7 dB
L5 = 50.8 dB
L10 = 49.4 dB
L50 = 44.2 dB
L90 = 38.9 dB
L95 = 37.3 dB
L99 = 33.7 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NP002

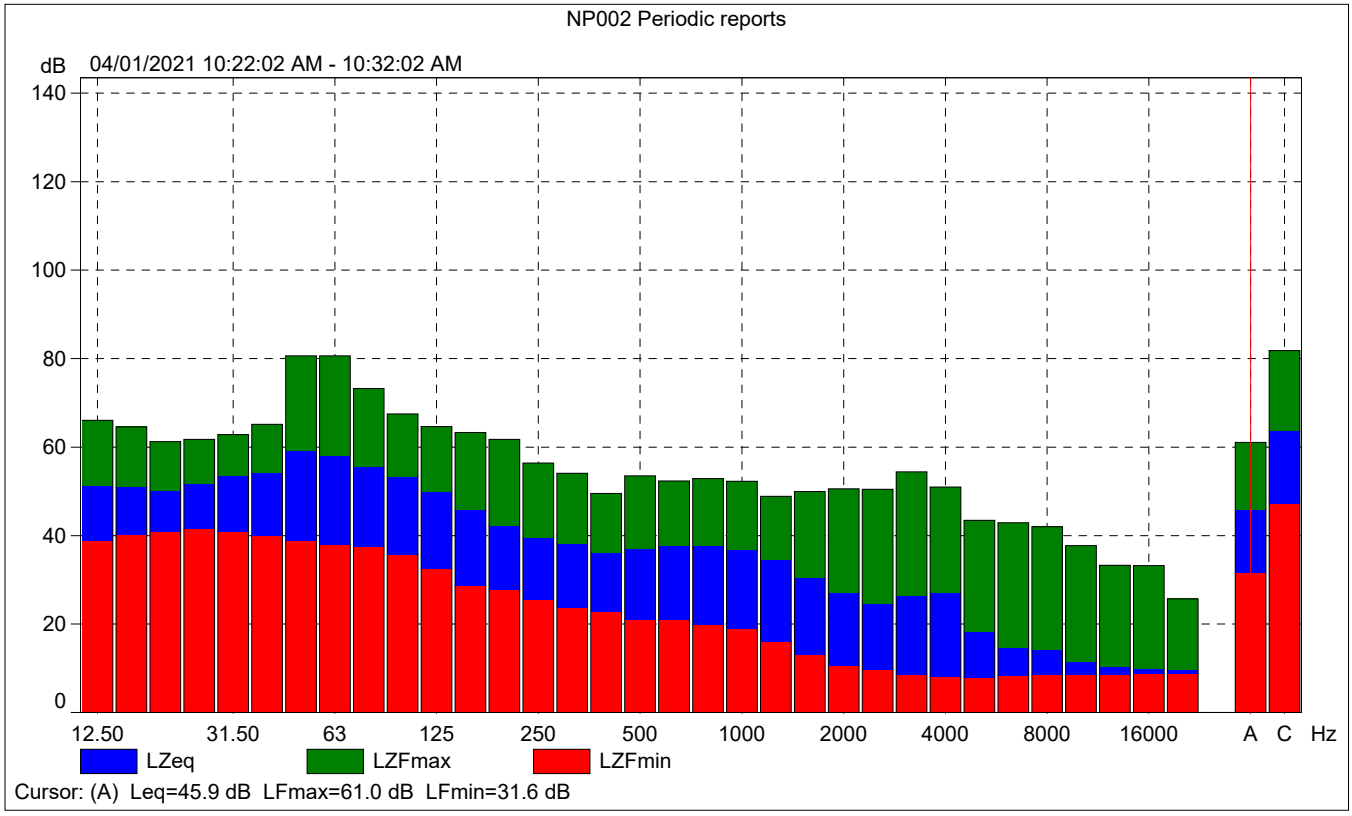
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			53.9	54.4	49.9
Time	10:27:01 AM	0:00:01			
Date	04/01/2021				

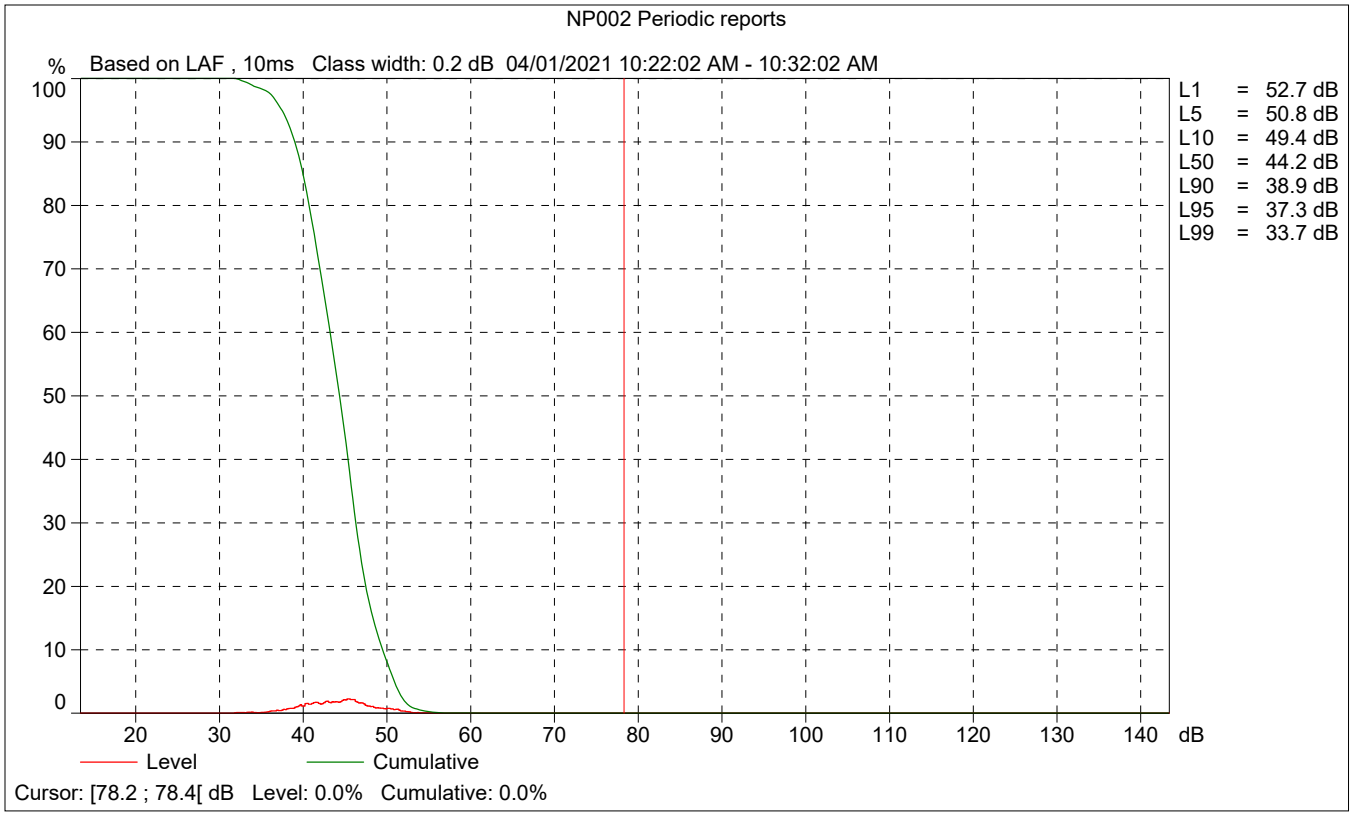

NP002
dB
04/01/2021 10:27:01 AM - 10:27:02 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=53.0 dB


NP002 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
11:20:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 04/01/2021 10:22:02 AM - 11:22:02 AM LAIeq=48.5 dB LAFmax=61.0 dB LCpeak=86.7 dB LAFmin=31.6 dB

NP002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	48.5	61.0	31.6
Time	10:22:02 AM	0:10:00				
Date	04/01/2021					




NP002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 04/01/2021 10:22:02 AM - 10:32:02 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
Level
Cumulative
L1 = 52.7 dB
L5 = 50.8 dB
L10 = 49.4 dB
L50 = 44.2 dB
L90 = 38.9 dB
L95 = 37.3 dB
L99 = 33.7 dB
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

Site Number:	NM-3
Recorded By:	Danielle Regimbal
Job Number:	181112
Date:	4/1/2021
Time:	10:38 AM
Location:	Middle of Mayfield Park
Source of Peak Noise:	Kids playing on playground

Noise Data			
Leq (dB)	**Lmax(dB)**	**Lmin (dB)**	**Peak (dB)**
50.6	65.3	34.9	88.7

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Brüel & Kjær**	**2250**	**3011133**	**04/08/2019**	
	Microphone	**Brüel & Kjær**	**4189**	**3086765**	**04/08/2019**	
	Preamp	**Brüel & Kjær**	**ZC 0032**	**25380**	**04/08/2019**	
	Calibrator	**Brüel & Kjær**	**4231**	**2545667**	**04/08/2019**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Sunny/Cloudy
	Note: dBA Offset = -0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	NW 4mph	75	29.93inHg

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		04/01/2021 10:38:27
End Time:		04/01/2021 10:48:27
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.16

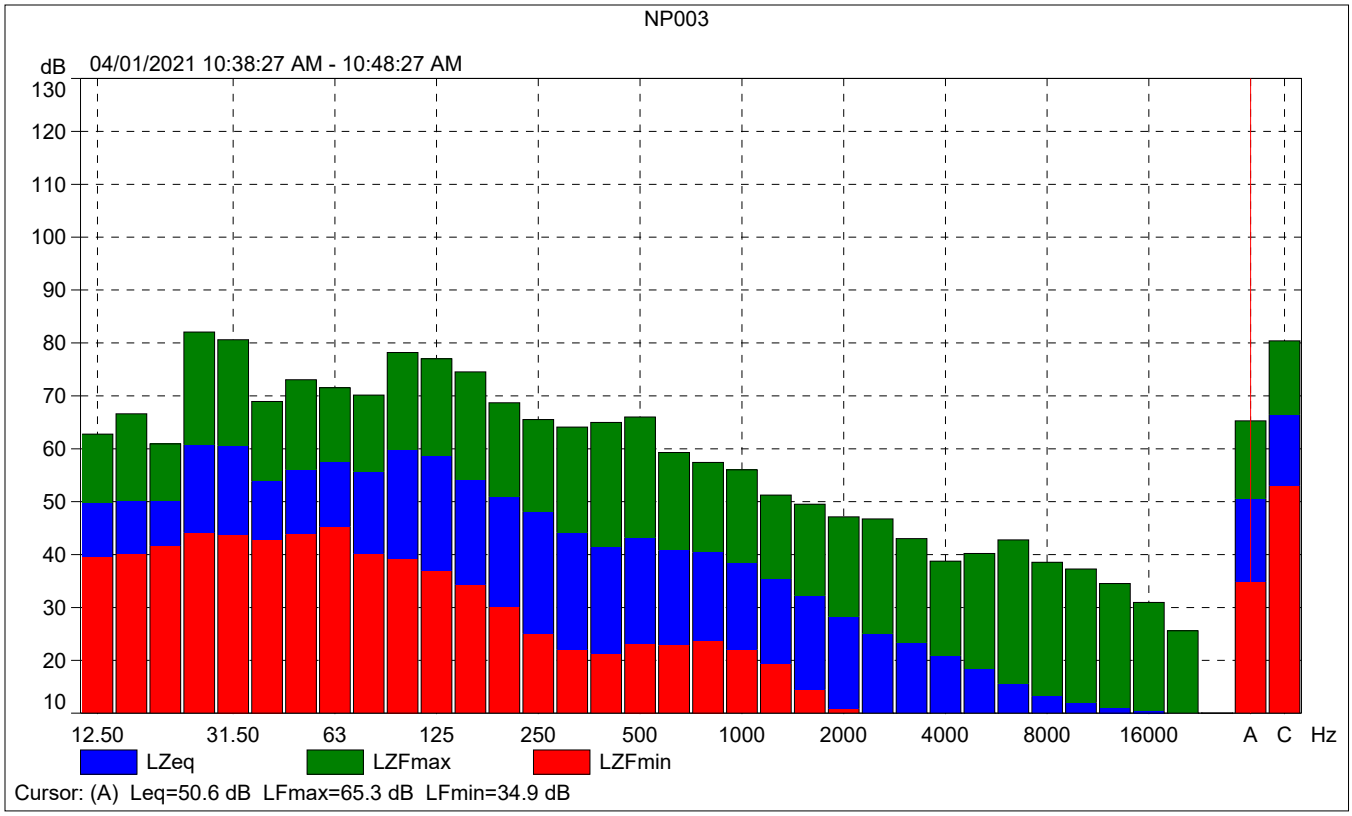
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

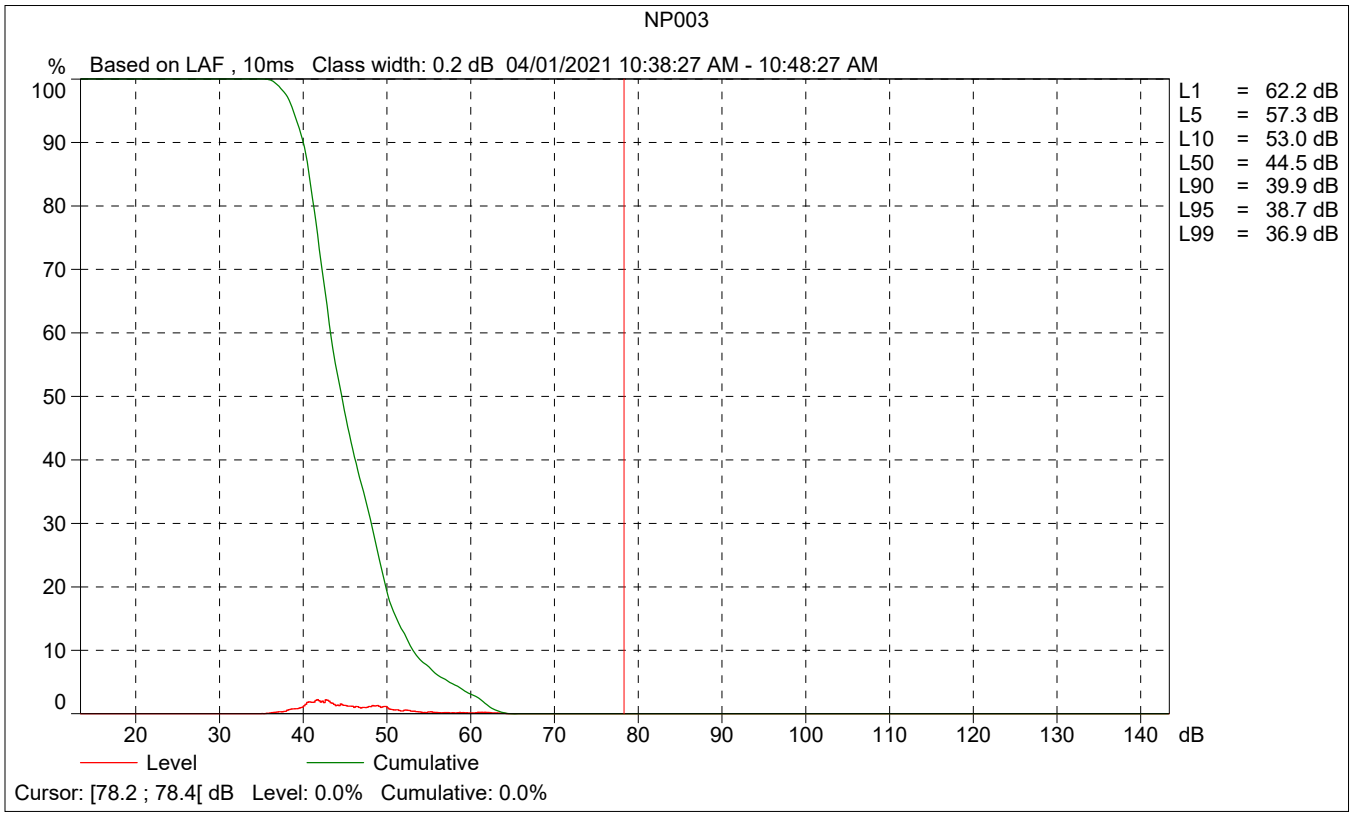
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

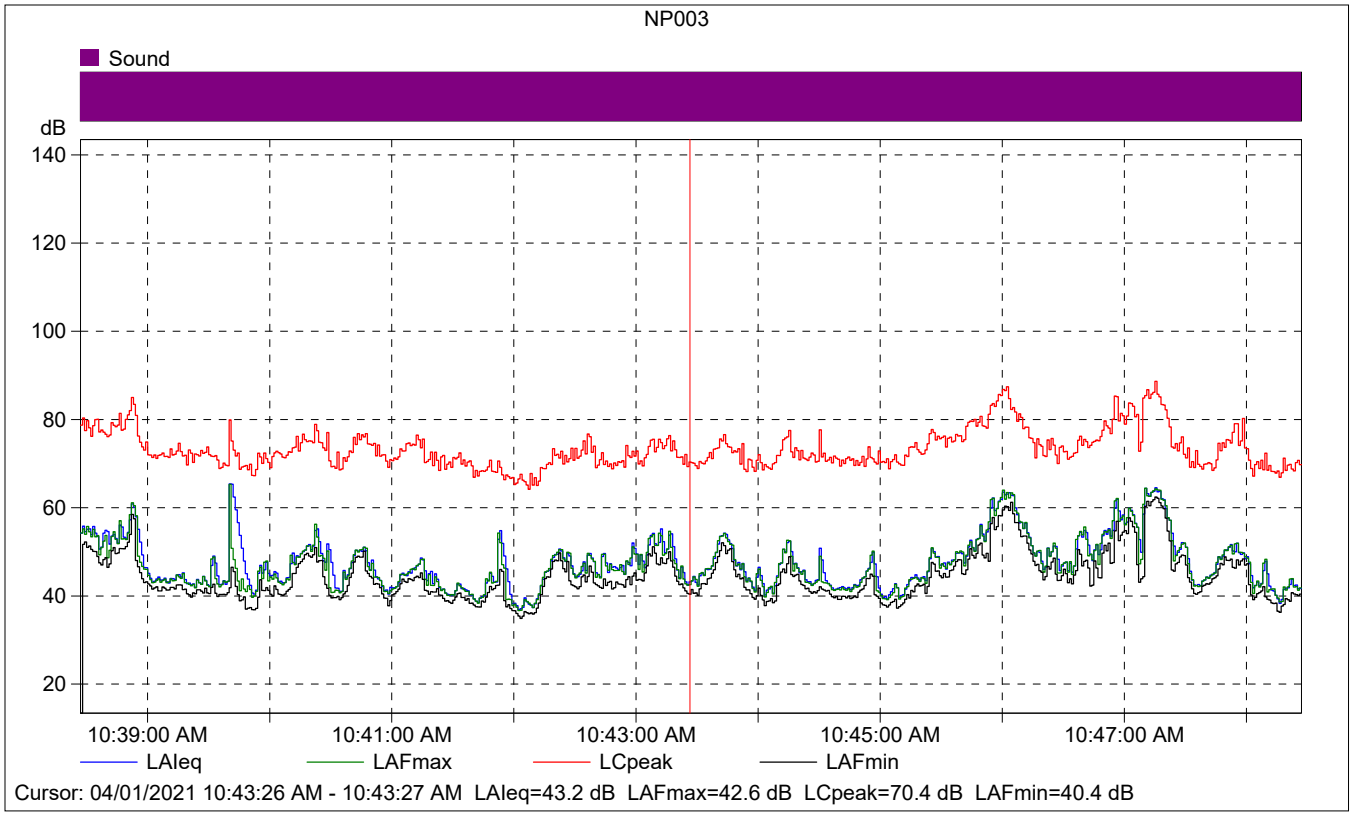
Calibration Time:		04/01/2021 08:21:38
Calibration Type:		External reference
Sensitivity:		43.4065237641335 mV/Pa

NP003

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	50.6	65.3	34.9
Time	10:38:27 AM	10:48:27 AM	0:10:00				
Date	04/01/2021	04/01/2021					

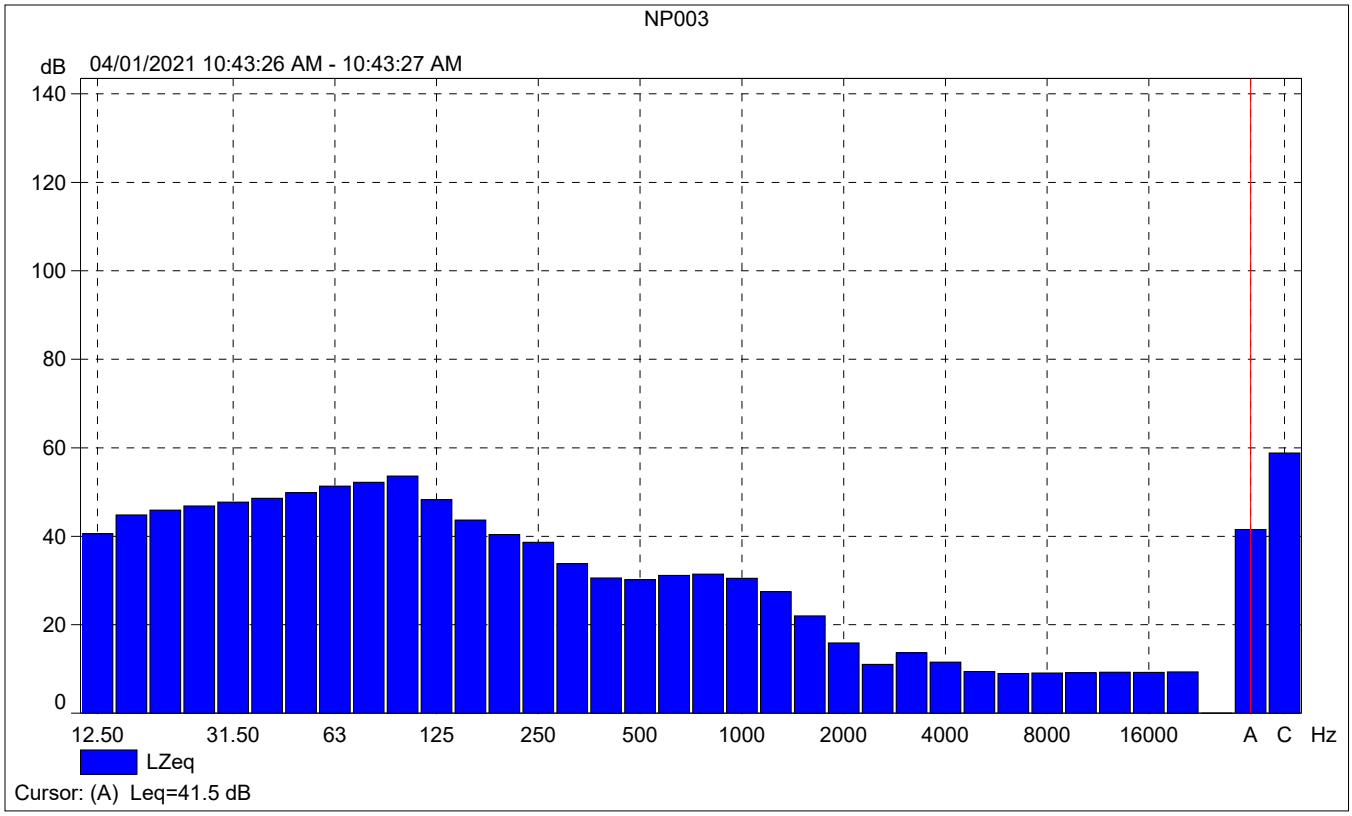

NP003
dB
04/01/2021 10:38:27 AM - 10:48:27 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=50.6 dB LFmax=65.3 dB LFmin=34.9 dB

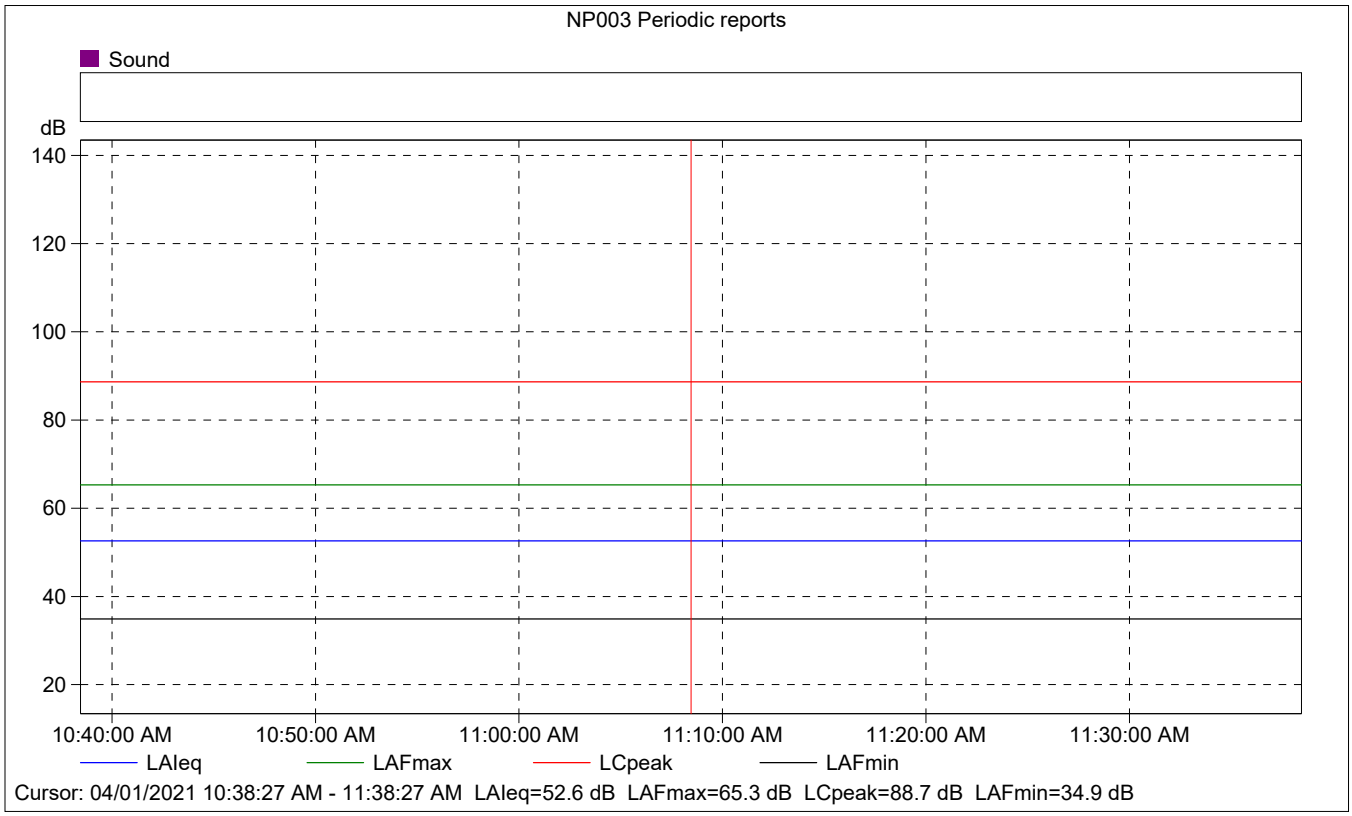

NP003
%
Based on LAF , 10ms Class width: 0.2 dB 04/01/2021 10:38:27 AM - 10:48:27 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 62.2 dB
L5 = 57.3 dB
L10 = 53.0 dB
L50 = 44.5 dB
L90 = 39.9 dB
L95 = 38.7 dB
L99 = 36.9 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%



NP003

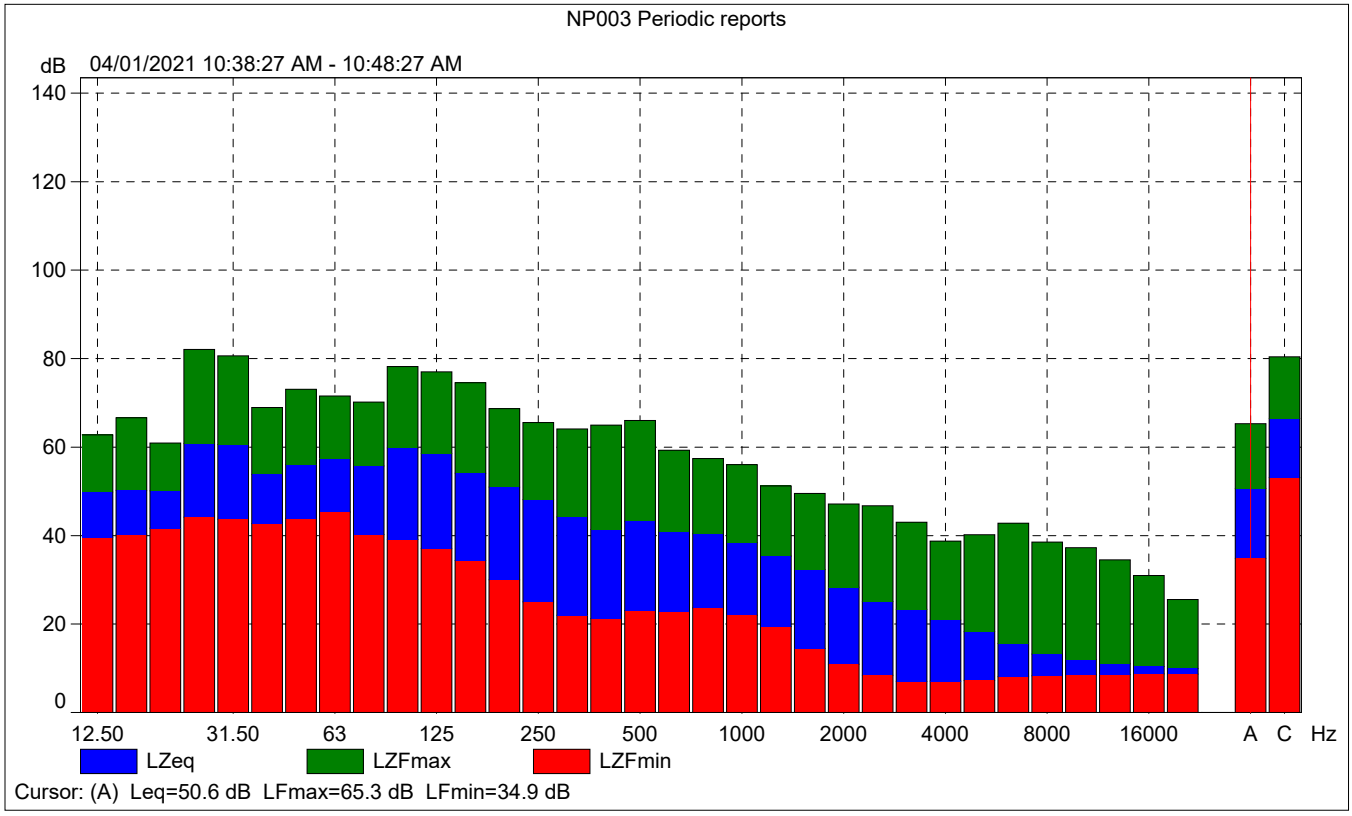
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			43.2	42.6	40.4
Time	10:43:26 AM	0:00:01			
Date	04/01/2021				

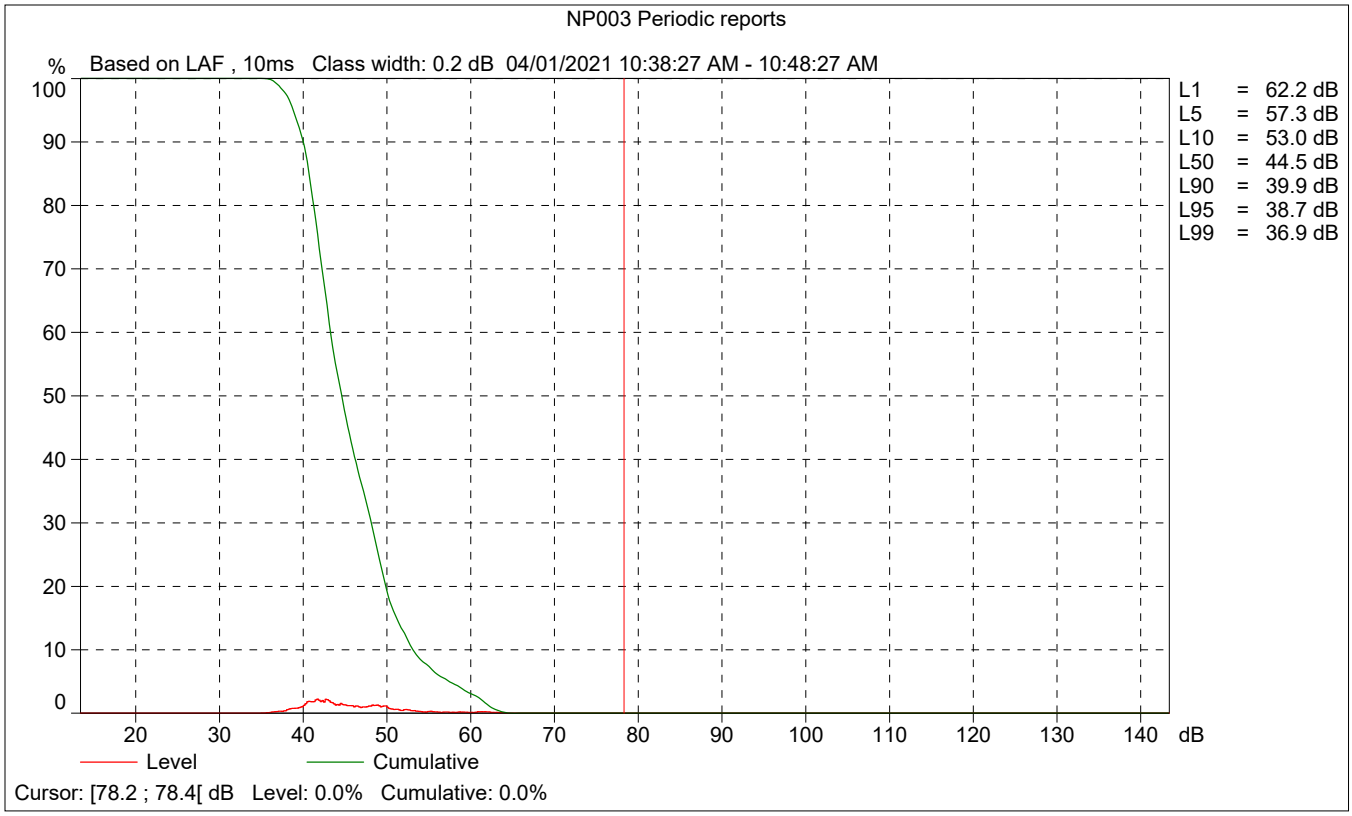

NP003
dB
04/01/2021 10:43:26 AM - 10:43:27 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=41.5 dB


NP003 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
11:20:00 AM
11:30:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 04/01/2021 10:38:27 AM - 11:38:27 AM LAIeq=52.6 dB LAFmax=65.3 dB LCpeak=88.7 dB LAFmin=34.9 dB

NP003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	52.6	65.3	34.9
Time	10:38:27 AM	0:10:00				
Date	04/01/2021					




NP003 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 04/01/2021 10:38:27 AM - 10:48:27 AM
100
90
80
70
60
50
40
30
20
10
0
20 30 40 50 60 70 80 90 100 110 120 130 140 dB
L1 = 62.2 dB
L5 = 57.3 dB
L10 = 53.0 dB
L50 = 44.5 dB
L90 = 39.9 dB
L95 = 38.7 dB
L99 = 36.9 dB
Level
Cumulative
Cursor: [78.2 ; 78.4[dB Level: 0.0% Cumulative: 0.0%

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 181112
Project Name: Newport Pointe
Scenario: Existing

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Linscott Law & Greenspan (2021)
Community Noise Descriptor: L_{dn}: _____ CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition				Design		Vehicle Mix		Distance from Centerline of Roadway					
		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour				Calc
Roadway, Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	Dist
Newport Road													
Goetz Road to Derby Hills Drive	6	25	33,134	55	0.5	1.8%	0.7%	69.3	90	195	419	904	100
Derby Hills Drive to Murrieta Road	6	25	37,435	55	0.5	1.8%	0.7%	69.9	98	211	455	980	100
Murrieta Road to Evans Road	6	10	38,645	50	0.5	1.8%	0.7%	68.8	83	178	384	827	100
Evans Road to Winter Hawk Road	5	10	38,833	50	0.5	1.8%	0.7%	68.6	81	175	377	812	100
Winter Hawk Road to Bradley Road	6	20	38,544	50	0.5	1.8%	0.7%	68.9	84	182	392	844	100
Bradley Road to Avenida De Cortez/Sherman Road	6	12	49,865	50	0.5	1.8%	0.7%	69.9	98	212	457	984	100
Avenida De Cortez/Sherman Road to Haun Road	6	20	57,117	50	0.5	1.8%	0.7%	70.6	110	236	509	1,097	100
Antelope Road to Menifee Road	6	20	48,840	45	0.5	1.8%	0.7%	68.8	83	180	387	834	100
Evans Road													
Newport Road to La Piedra Road	4	12	3,359	30	0.5	1.8%	0.7%	53.3	-	-	-	77	100

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 181112
Project Name: Newport Pointe
Scenario: Existing With Project

Background Information

Model Description: FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels.
Source of Traffic Volumes: Linscott Law & Greenspan (2021)
Community Noise Descriptor: L_{dn}: _____ CNEL: x

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.50%	12.90%	9.60%
Medium-Duty Trucks	84.80%	4.90%	10.30%
Heavy-Duty Trucks	86.50%	2.70%	10.80%

Analysis Condition				Design		Vehicle Mix		Distance from Centerline of Roadway					
		Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour				Calc
Roadway, Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL	Dist
Newport Road													
Goetz Road to Derby Hills Drive	6	25	34,238	55	0.5	1.8%	0.7%	69.5	92	199	429	923	100
Derby Hills Drive to Murrieta Road	6	25	38,594	55	0.5	1.8%	0.7%	70.0	100	215	464	1,000	100
Murrieta Road to Evans Road	6	10	43,390	50	0.5	1.8%	0.7%	69.3	89	192	415	893	100
Evans Road to Winter Hawk Road	5	10	41,923	50	0.5	1.8%	0.7%	69.0	85	184	397	854	100
Winter Hawk Road to Bradley Road	6	20	41,524	50	0.5	1.8%	0.7%	69.2	89	191	411	887	100
Bradley Road to Avenida De Cortez/Sherman Road	6	12	52,017	50	0.5	1.8%	0.7%	70.1	101	218	470	1,012	100
Avenida De Cortez/Sherman Road to Haun Road	6	20	59,269	50	0.5	1.8%	0.7%	70.8	112	242	522	1,124	100
Antelope Road to Menifee Road	6	20	49,668	45	0.5	1.8%	0.7%	68.9	84	182	391	843	100
Evans Road													
Newport Road to La Piedra Road	4	12	4,987	30	0.5	1.8%	0.7%	55.0	-	-	-	100	100

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.