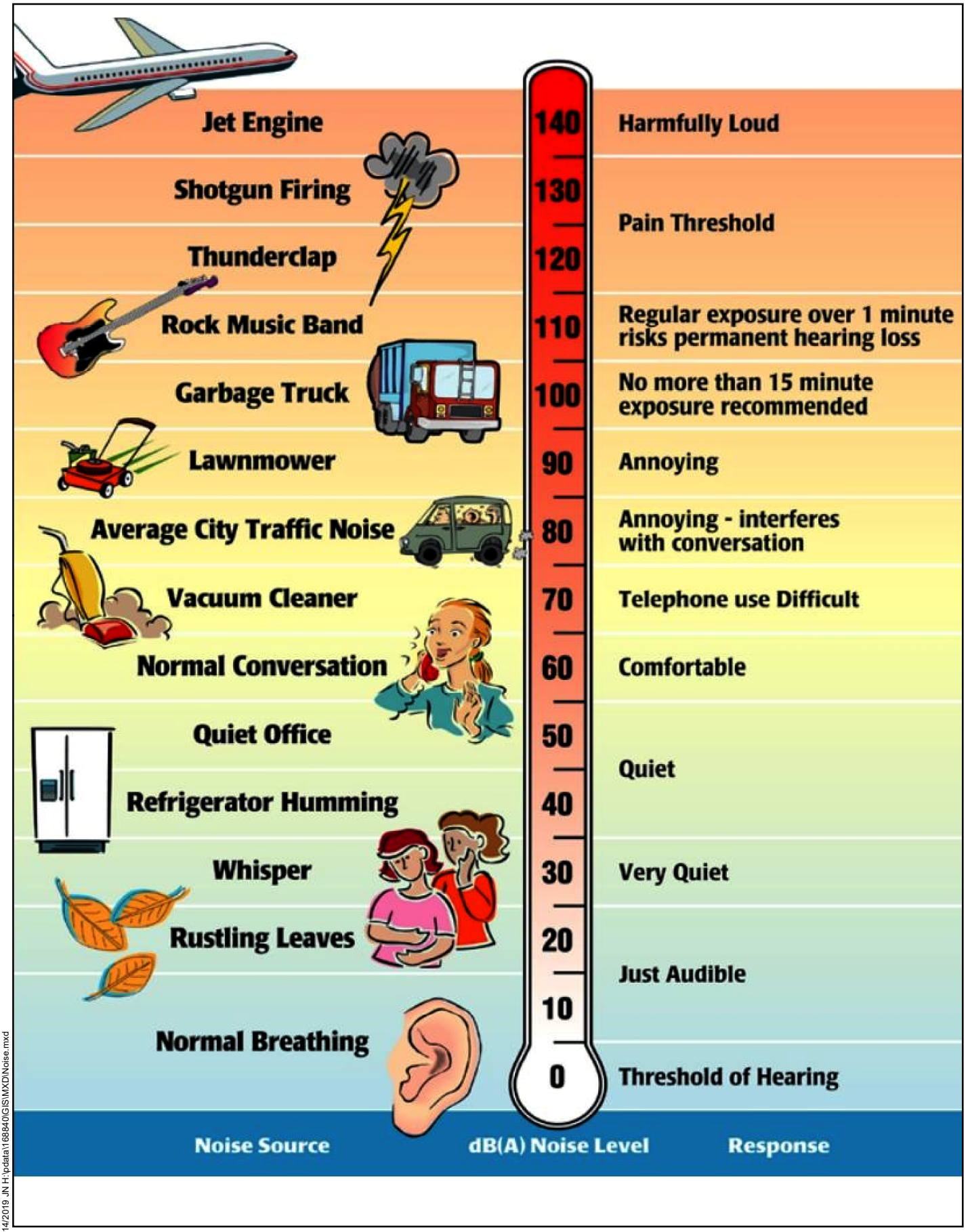
Appendix H:
Noise Monitoring Data and Modeling Worksheets

Part 1: Common Environmental Noise Levels



6/14/2019 JN H:\pdata\168840\GIS\MXD\Noise.mxd

BOUQUET CANYON PROJECT
ENVIRONMENTAL IMPACT REPORT

Michael Baker INTERNATIONAL

NOT TO SCALE

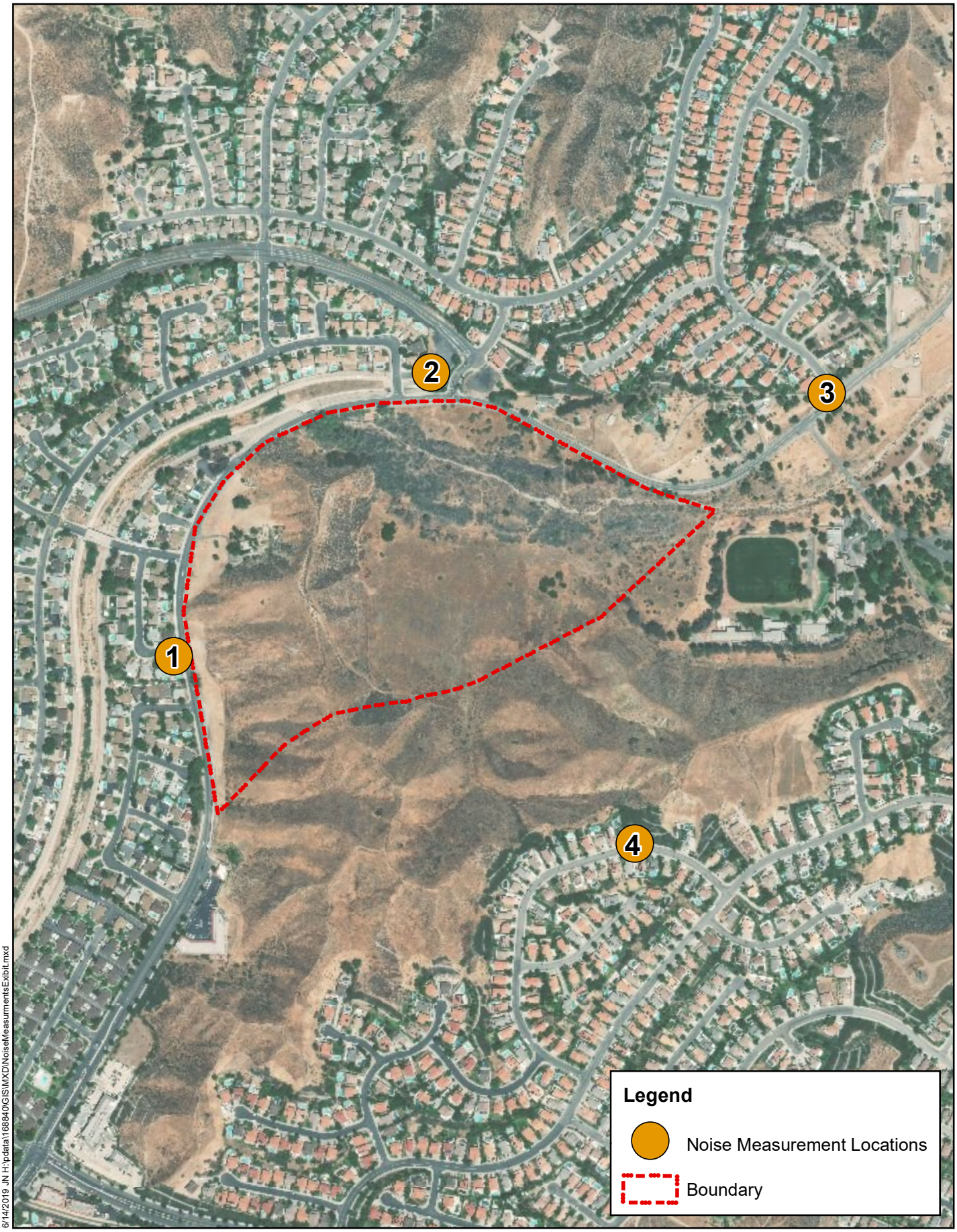
Common Environmental Noise Levels

SOURCE: ENVIRONMENTAL PROTECTION AGENCY, INFORMATION ON LEVELS OF ENVIRONMENTAL NOISE REQUISITE TO PROTECT PUBLIC HEALTH AND WELFARE WITH AN ADEQUATE MARGIN OF SAFETY (EPA/ONAC 550/9-74-004), MARCH 1974

Exhibit 3.13-1

Appendix H:
Noise Monitoring Data and Modeling Worksheets

Part 2: Noise Measurement Locations



6/14/2019 JN H:\pdata\168840\GIS\MXD\NoiseMeasurmentsExhibit.mxd

Michael Baker INTERNATIONAL

0 300 600 Feet

Source: esri basemap

BOUQUET CANYON PROJECT
ENVIRONMENTAL IMPACT REPORT

Noise Measurement Locations

Exhibit 3.13-2

Appendix H:
Noise Monitoring Data and Modeling Worksheets

Part 3: Noise Worksheets

Site Number: Bouquet Canyon Site #1			
Recorded By: Pierre Glaize			
Job Number: 168840			
Date: 05/22/2019			
Time: 10:10 a.m.			
Location: Corner of Bouquet Canyon Road and Sue Drive.			
Source of Peak Noise: Traffic along Bouquet Canyon Road.			
Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
72.4	38.3	90.1	113.0

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
	Note: dBA Offset = 0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	2 mph	61°	29.73

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		05/22/2019 10:10:44
End Time:		05/22/2019 10:20:44
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.09

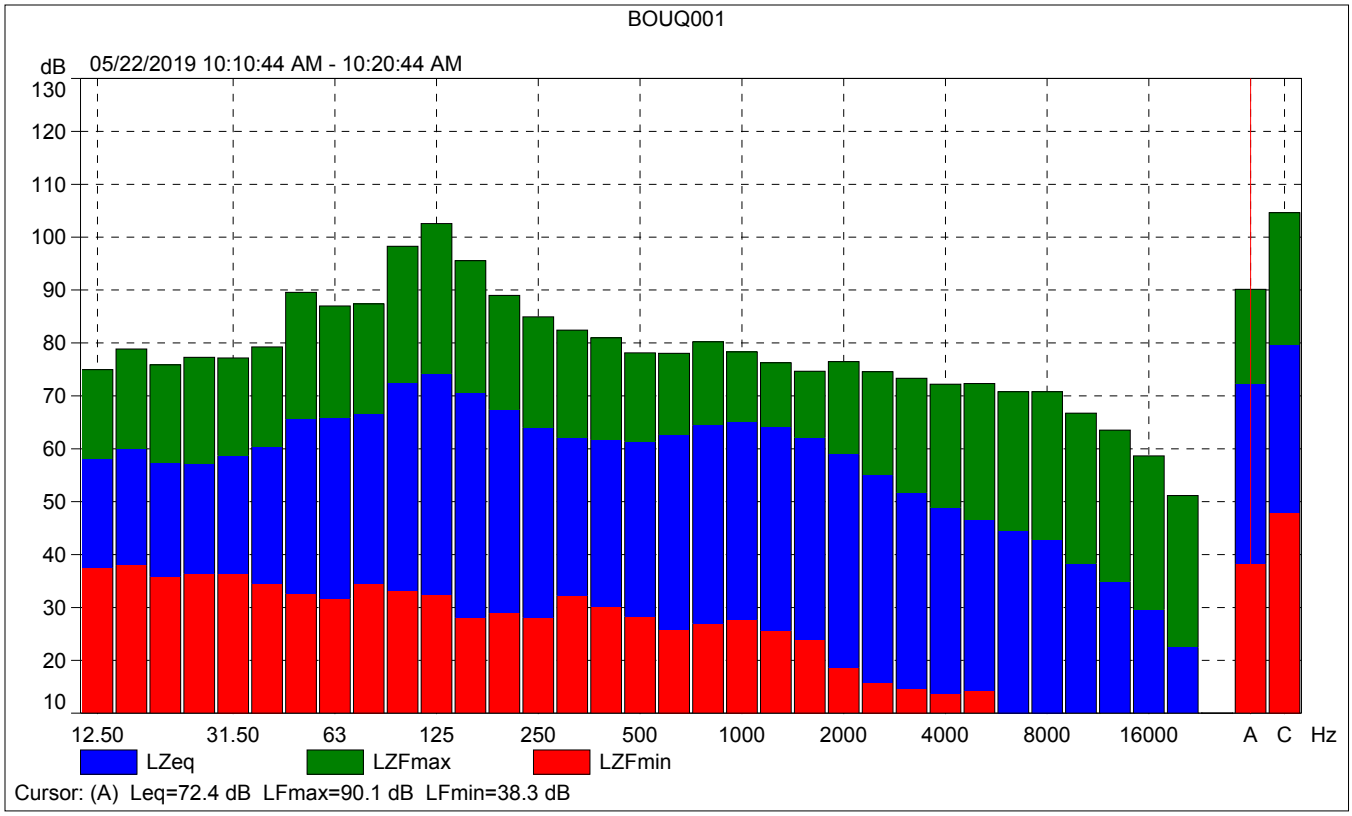
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

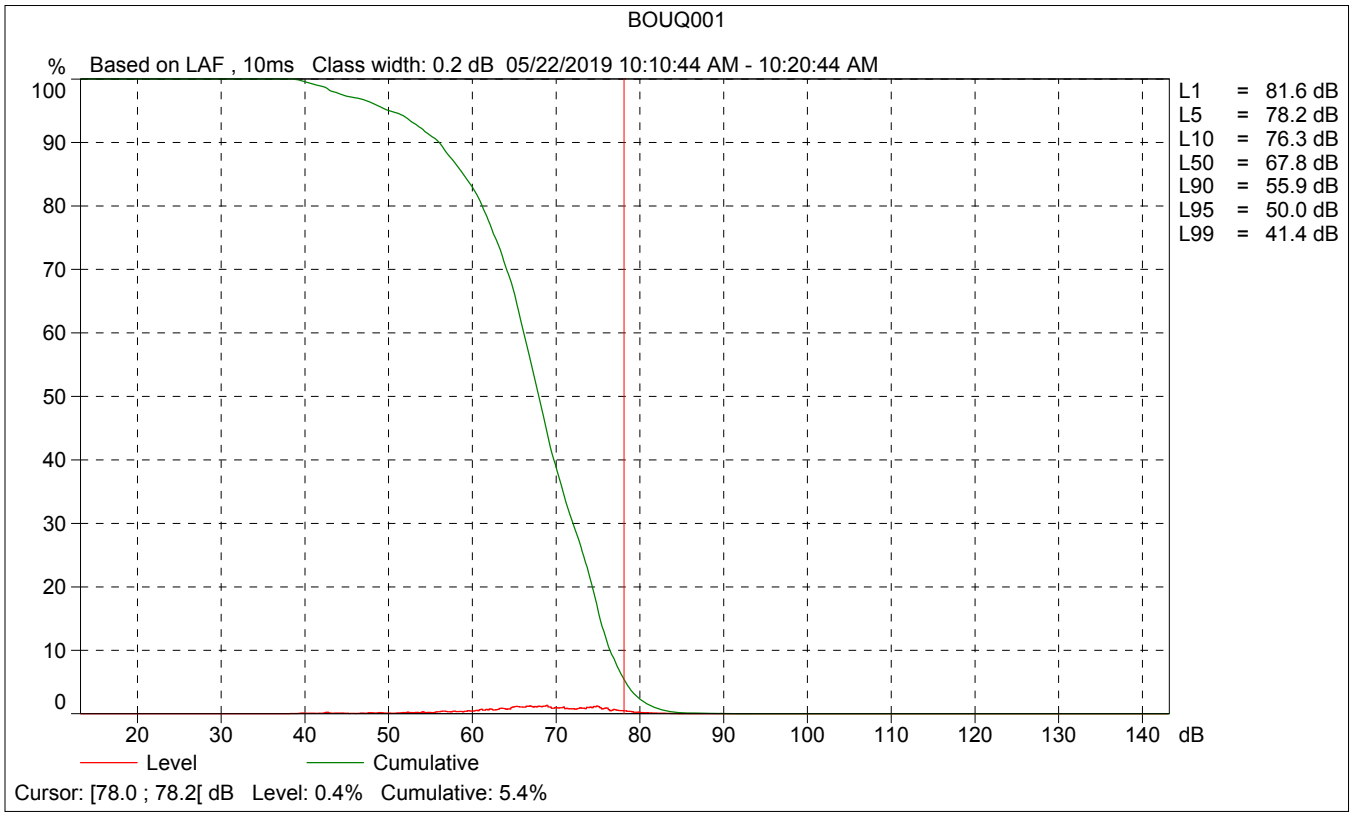
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

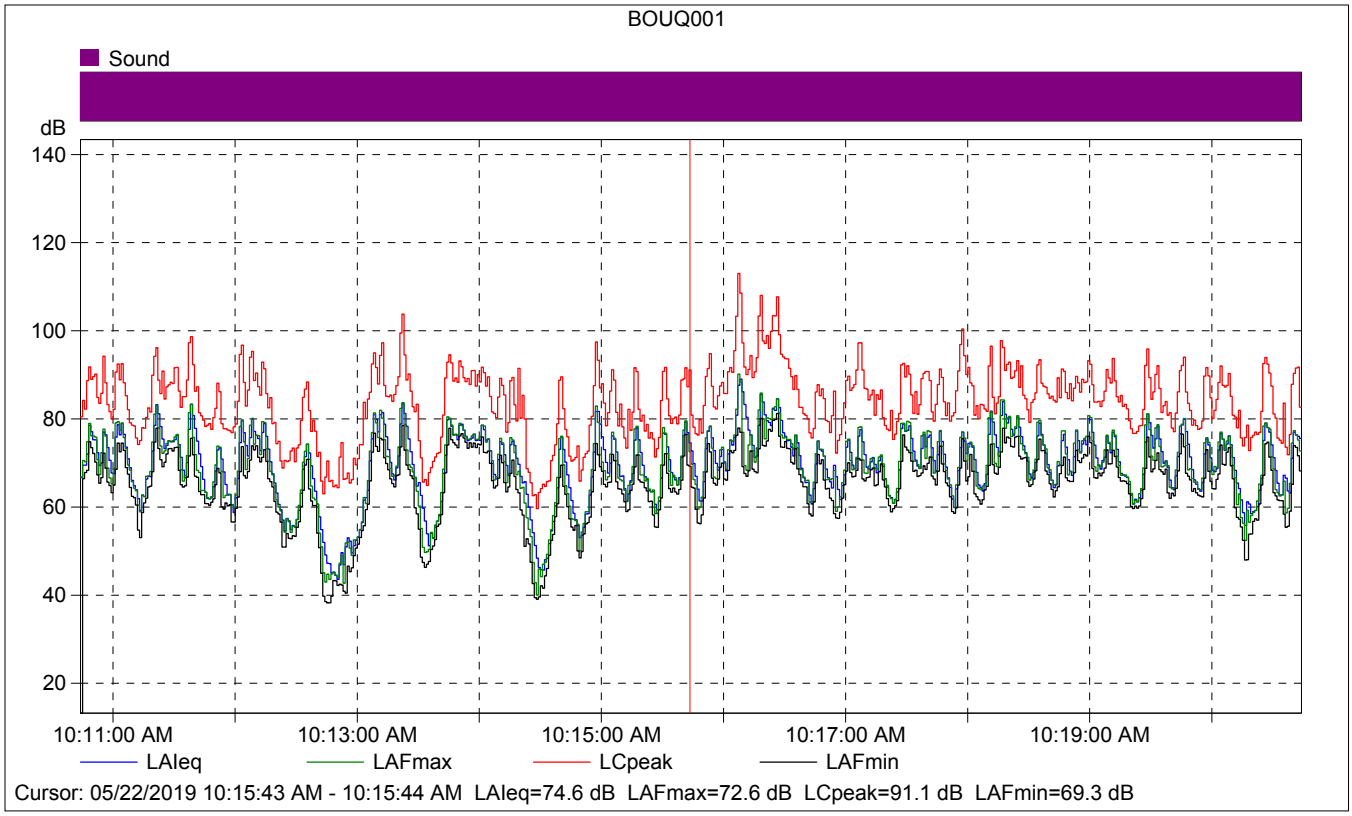
Calibration Time:		05/22/2019 07:24:19
Calibration Type:		External reference
Sensitivity:		43.775387108326 mV/Pa

BOUQ001

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	72.4	90.1	38.3
Time	10:10:44 AM	10:20:44 AM	0:10:00				
Date	05/22/2019	05/22/2019					

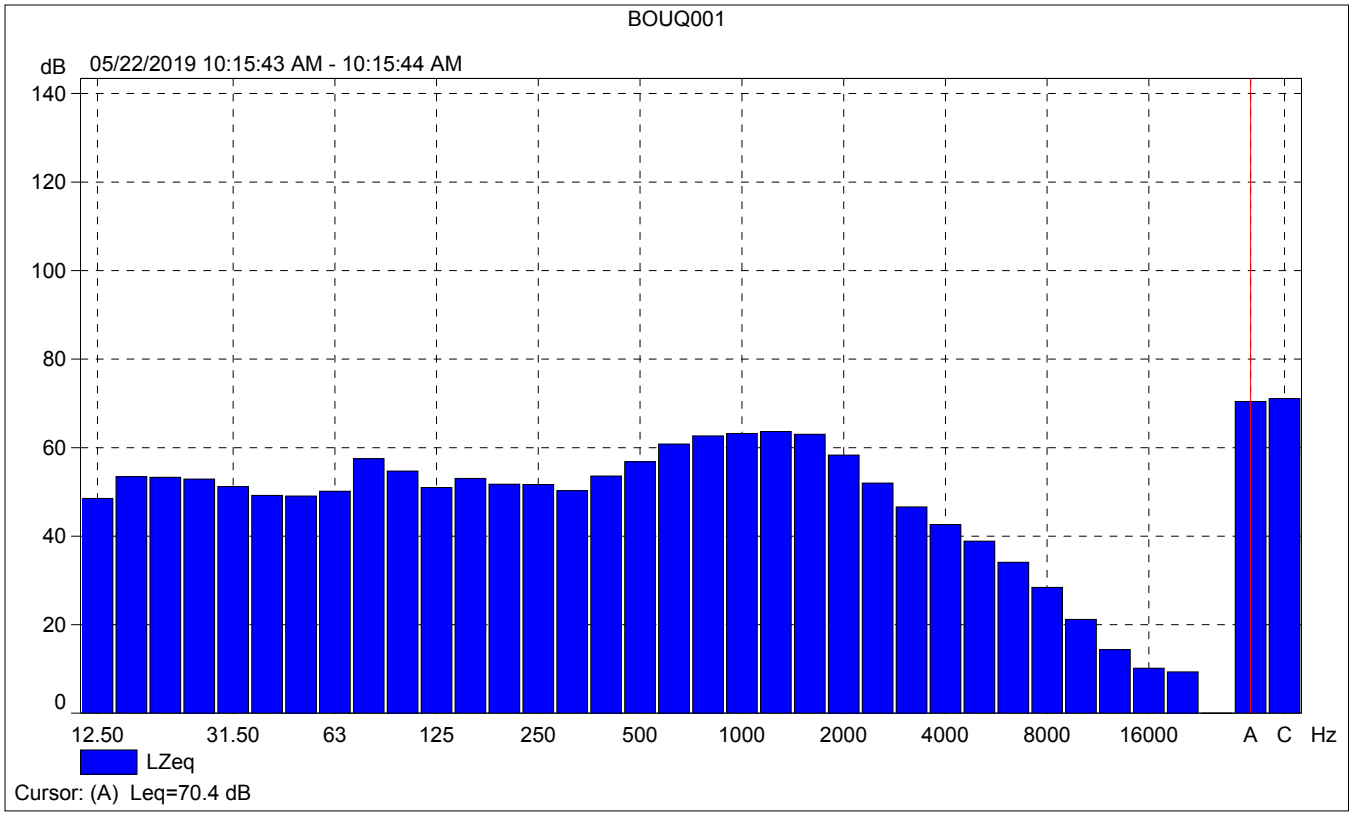

BOUQ001
dB
05/22/2019 10:10:44 AM - 10:20:44 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=72.4 dB LFmax=90.1 dB LFmin=38.3 dB

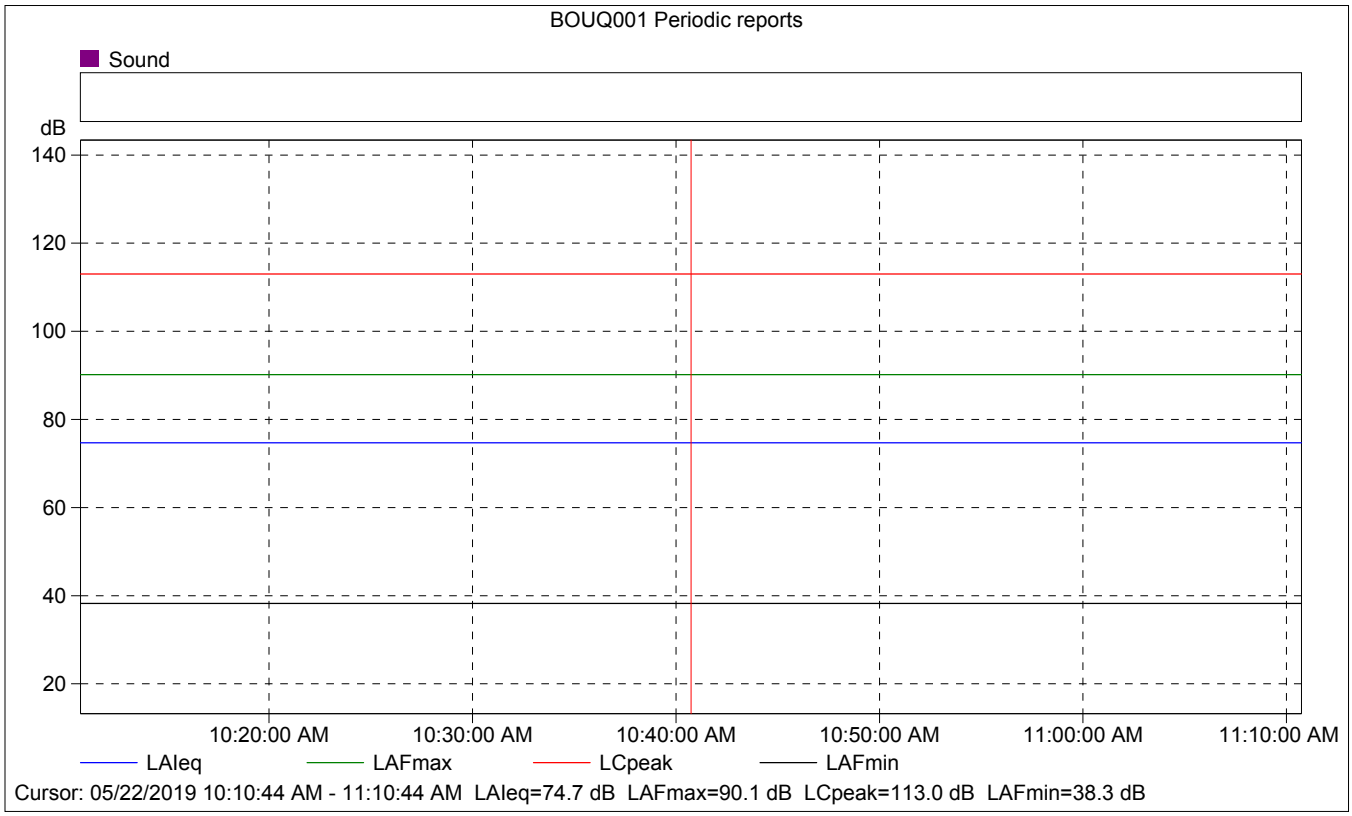

BOUQ001
%
Based on LAF , 10ms Class width: 0.2 dB 05/22/2019 10:10:44 AM - 10:20:44 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 81.6 dB
L5 = 78.2 dB
L10 = 76.3 dB
L50 = 67.8 dB
L90 = 55.9 dB
L95 = 50.0 dB
L99 = 41.4 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.4% Cumulative: 5.4%



BOUQ001

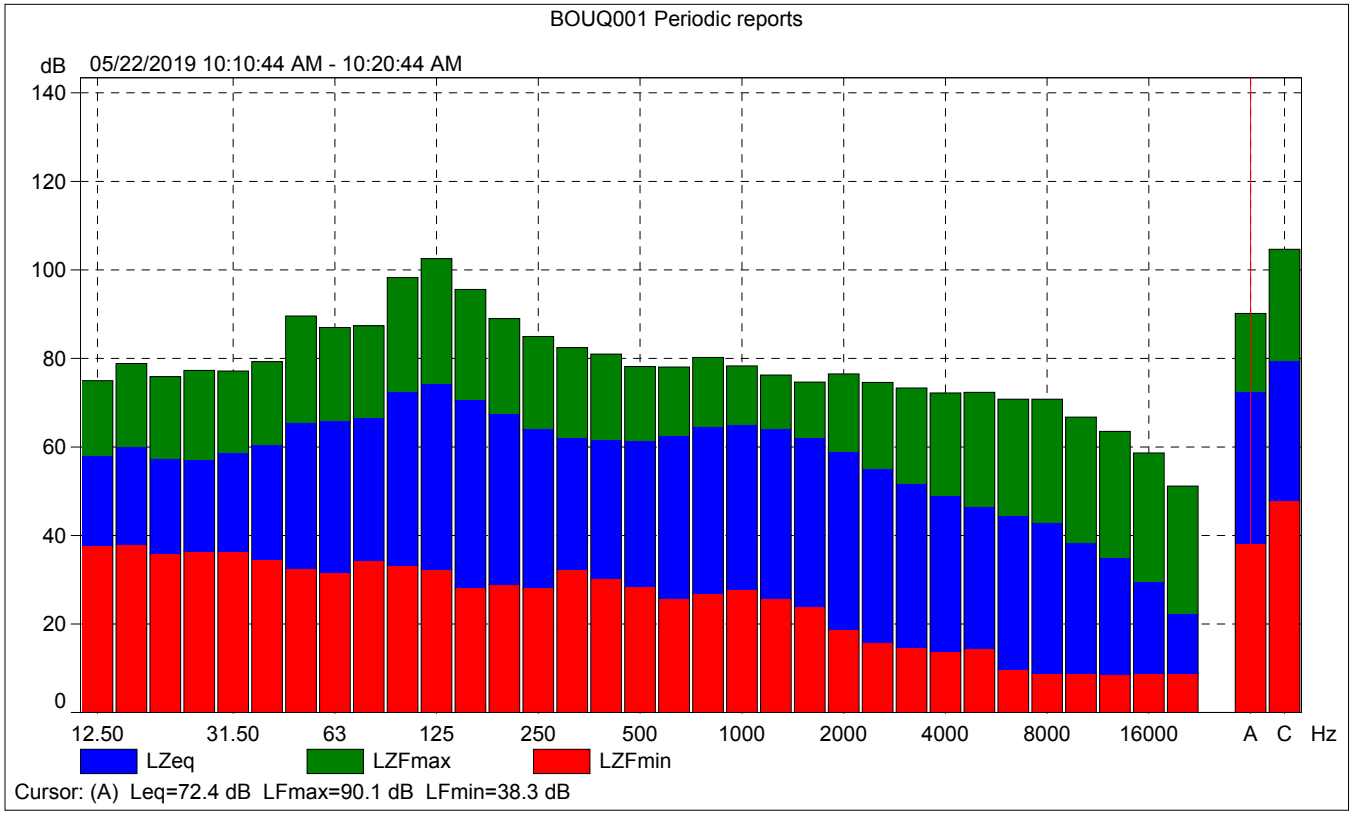
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			74.6	72.6	69.3
Time	10:15:43 AM	0:00:01			
Date	05/22/2019				

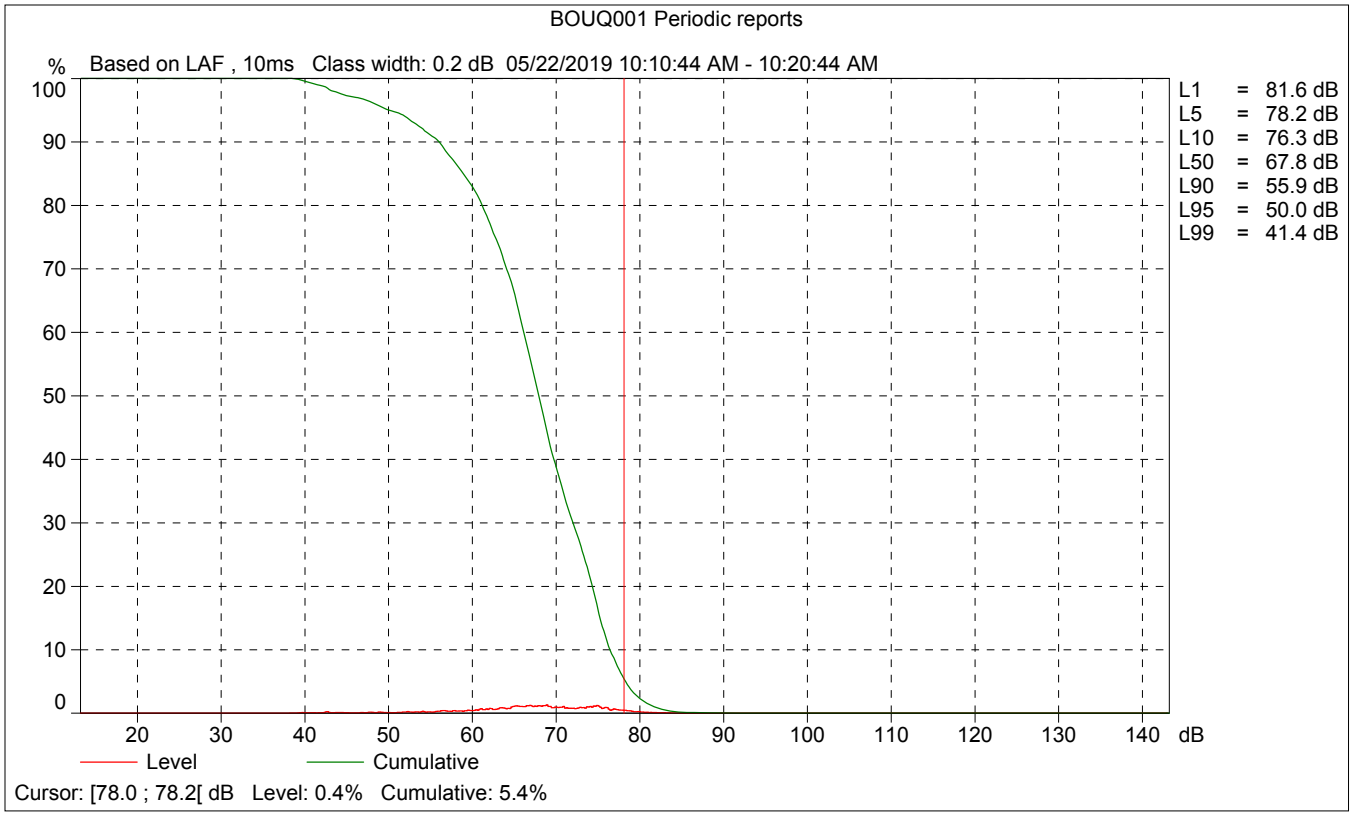

BOUQ001
dB
05/22/2019 10:15:43 AM - 10:15:44 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=70.4 dB


BOUQ001 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:20:00 AM
10:30:00 AM
10:40:00 AM
10:50:00 AM
11:00:00 AM
11:10:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 05/22/2019 10:10:44 AM - 11:10:44 AM LAIeq=74.7 dB LAFmax=90.1 dB LCpeak=113.0 dB LAFmin=38.3 dB

BOUQ001 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	74.7	90.1	38.3
Time	10:10:44 AM	0:10:00				
Date	05/22/2019					




BOUQ001 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 05/22/2019 10:10:44 AM - 10:20:44 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 = 81.6 dB
L5 = 78.2 dB
L10 = 76.3 dB
L50 = 67.8 dB
L90 = 55.9 dB
L95 = 50.0 dB
L99 = 41.4 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.4% Cumulative: 5.4%

Site Number: Bouquet Canyon Site #2			
Recorded By: Pierre Glaize			
Job Number: 168840			
Date: 05/22/20199			
Time: 10:25 a.m.			
Location: At the end of Pin Court, in a dirt staging lot.			
Source of Peak Noise: Traffic along Bouquet Canyon Road and Copper Hill Drive.			
Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
56.1	40.8	68.6	87.2

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
	Note: dBA Offset = 0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	5 mph	61°	29.73

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		05/22/2019 10:26:10
End Time:		05/22/2019 10:36:10
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.09

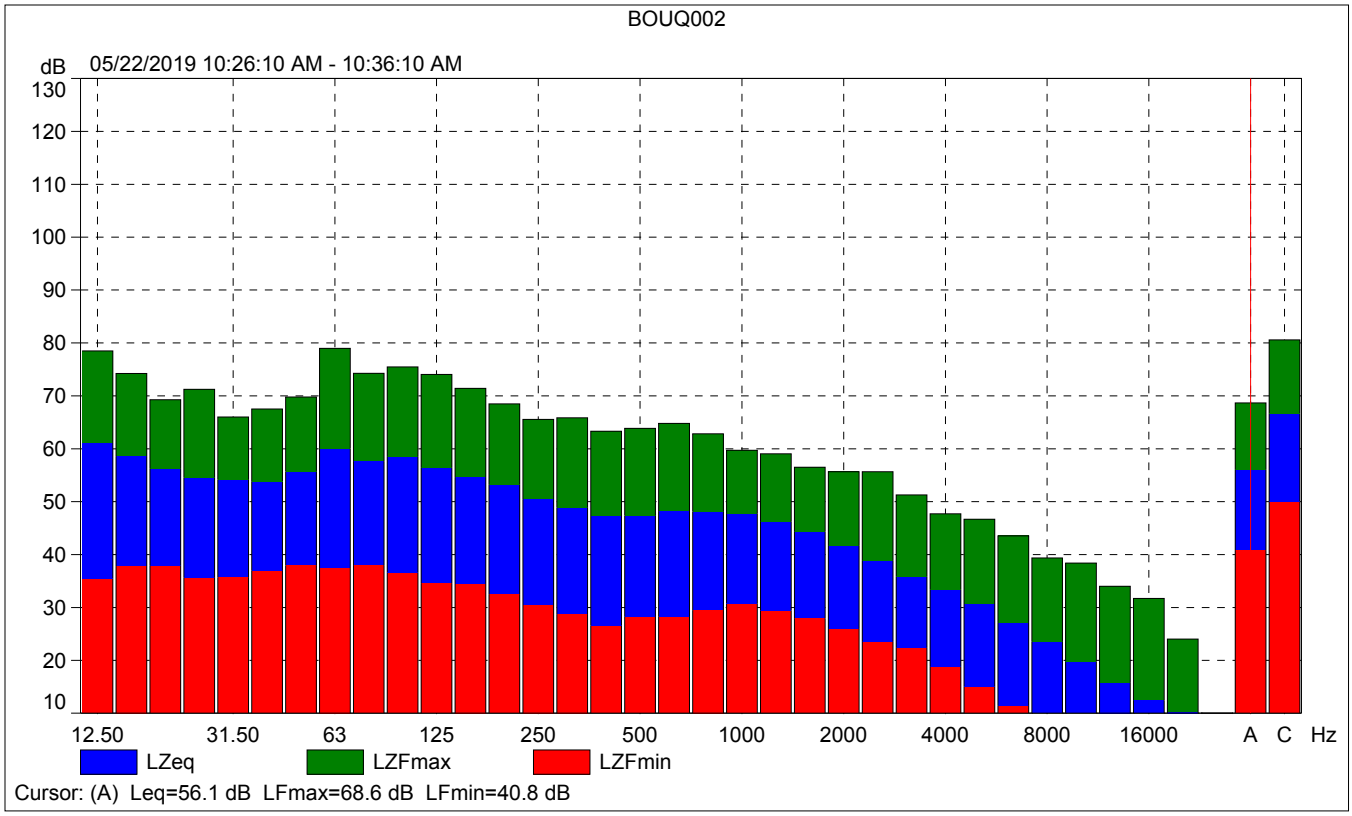
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

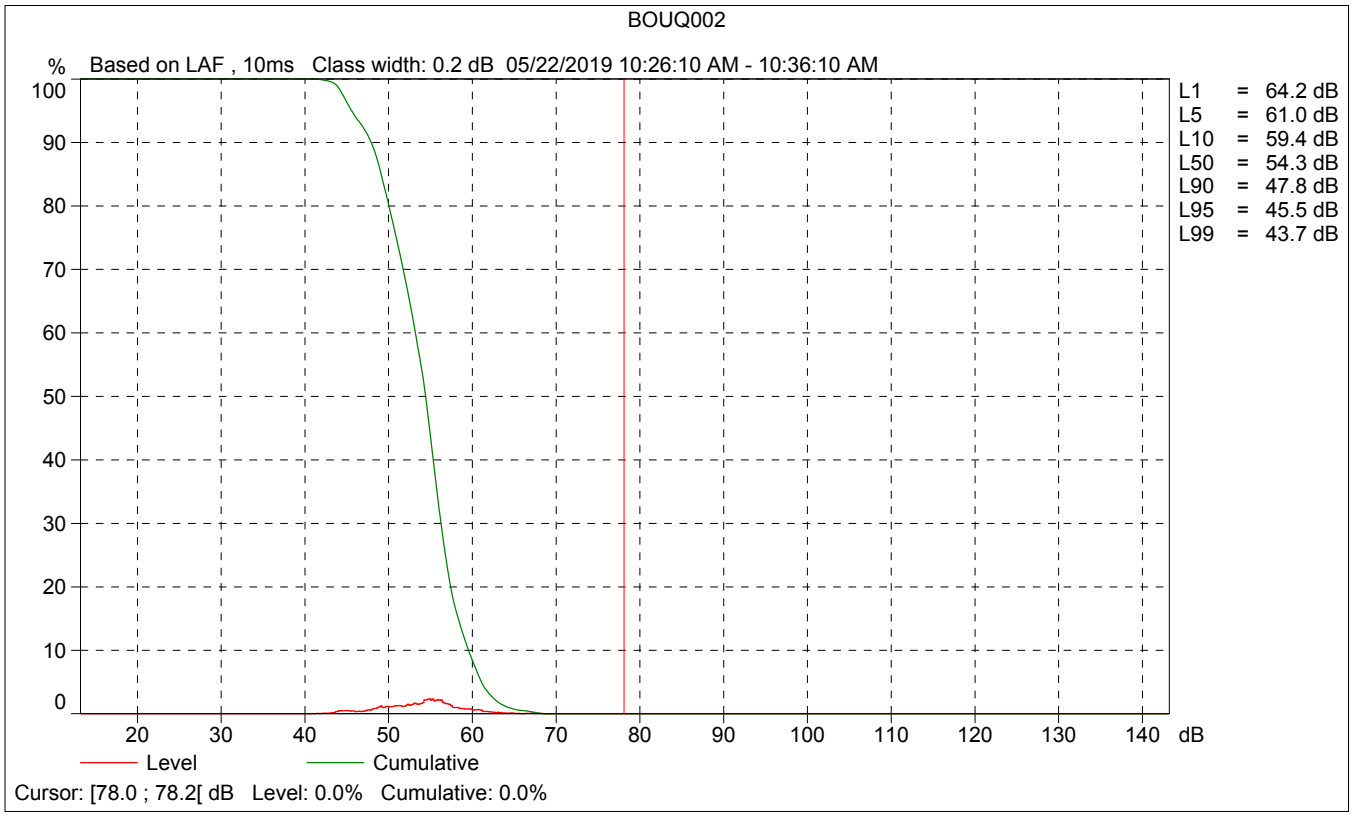
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

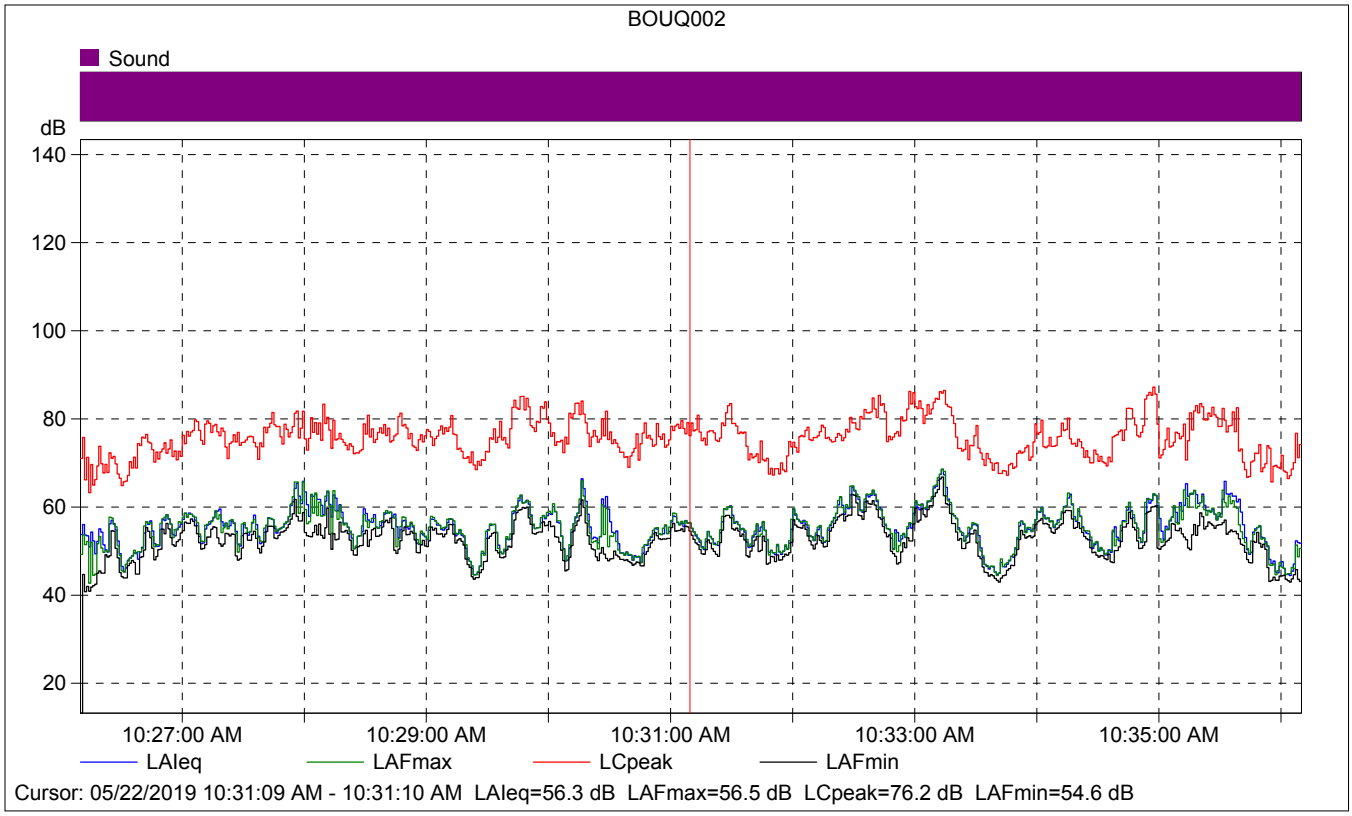
Calibration Time:		05/22/2019 07:24:19
Calibration Type:		External reference
Sensitivity:		43.775387108326 mV/Pa

BOUQ002

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	56.1	68.6	40.8
Time	10:26:10 AM	10:36:10 AM	0:10:00				
Date	05/22/2019	05/22/2019					

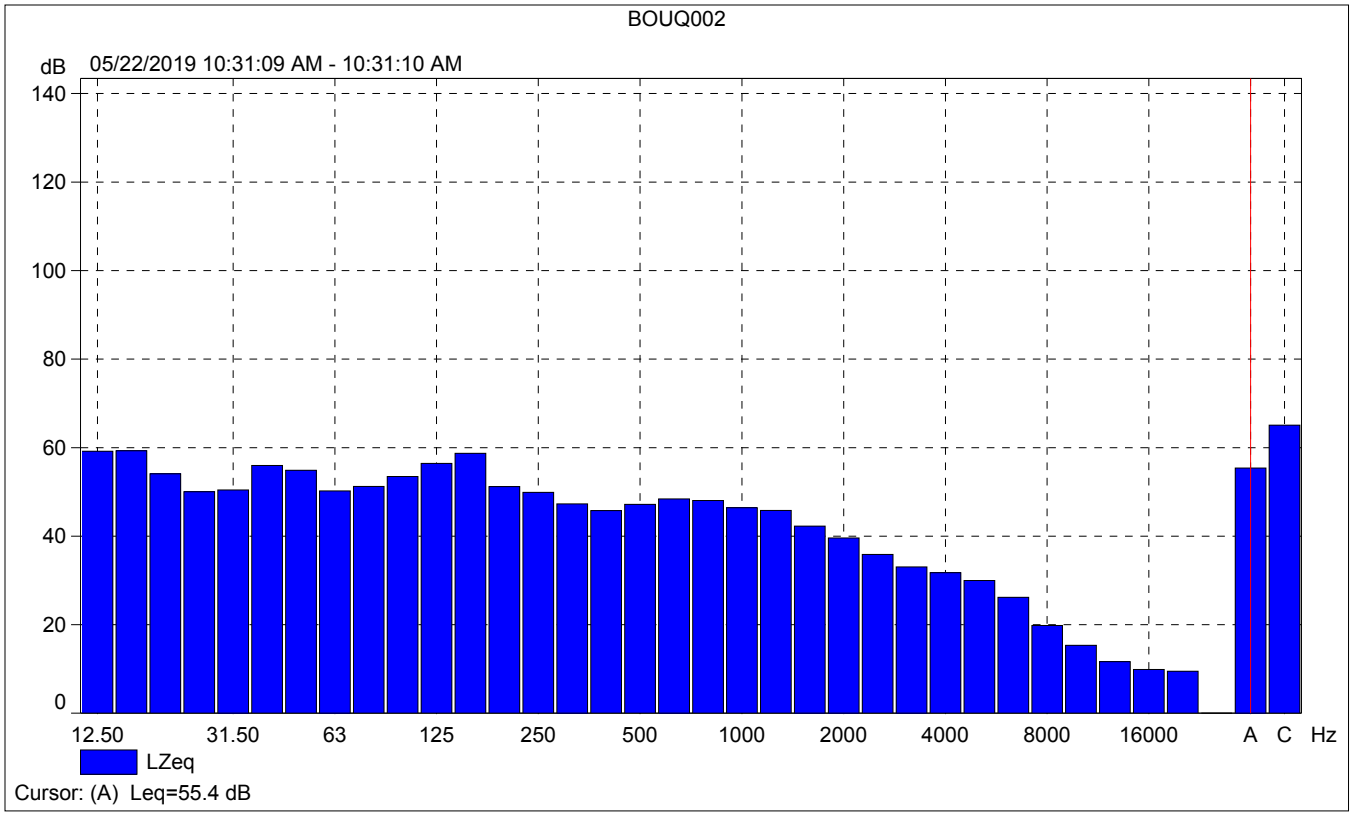

BOUQ002
dB
05/22/2019 10:26:10 AM - 10:36:10 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=56.1 dB LFmax=68.6 dB LFmin=40.8 dB

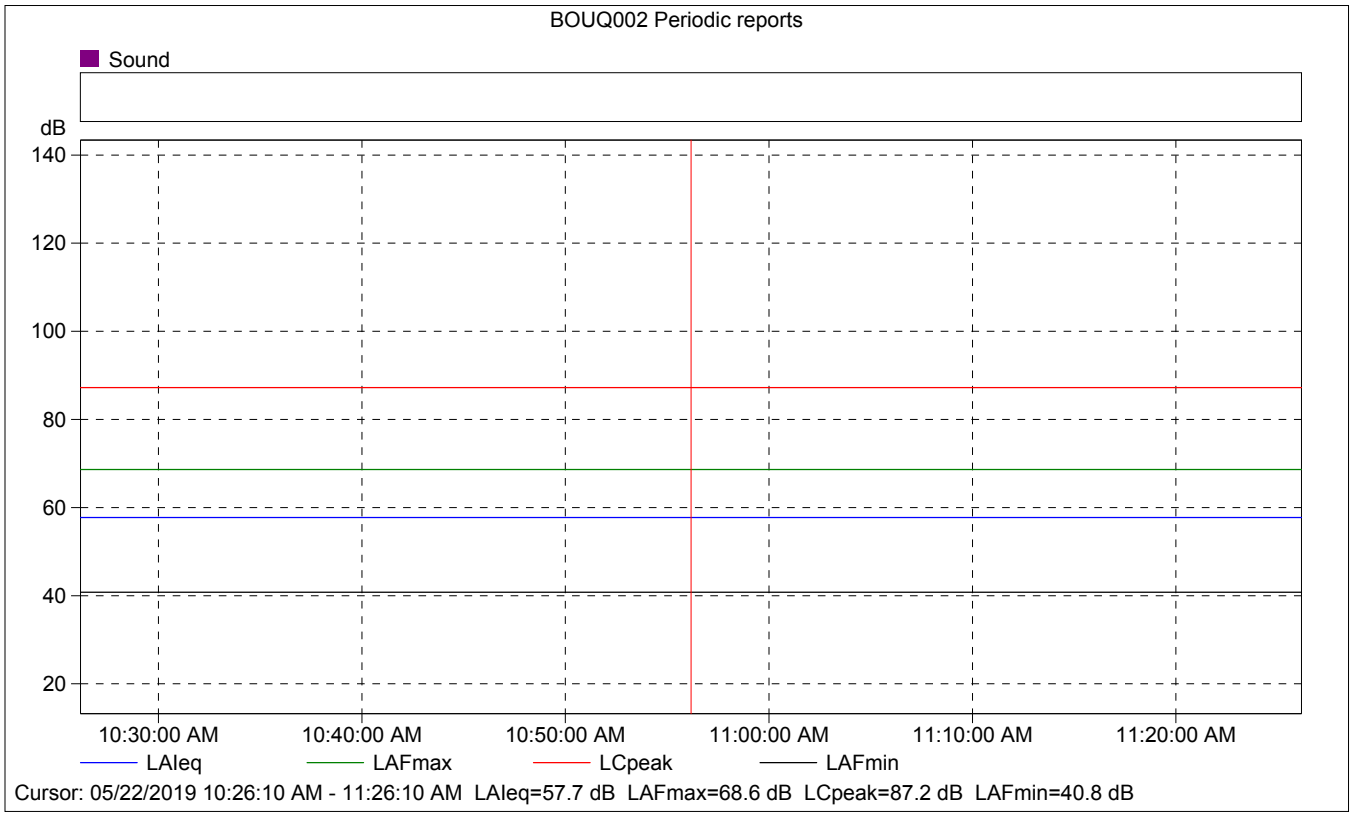

BOUQ002
%
Based on LAF , 10ms Class width: 0.2 dB 05/22/2019 10:26:10 AM - 10:36:10 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 64.2 dB
L5 = 61.0 dB
L10 = 59.4 dB
L50 = 54.3 dB
L90 = 47.8 dB
L95 = 45.5 dB
L99 = 43.7 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%



BOUQ002

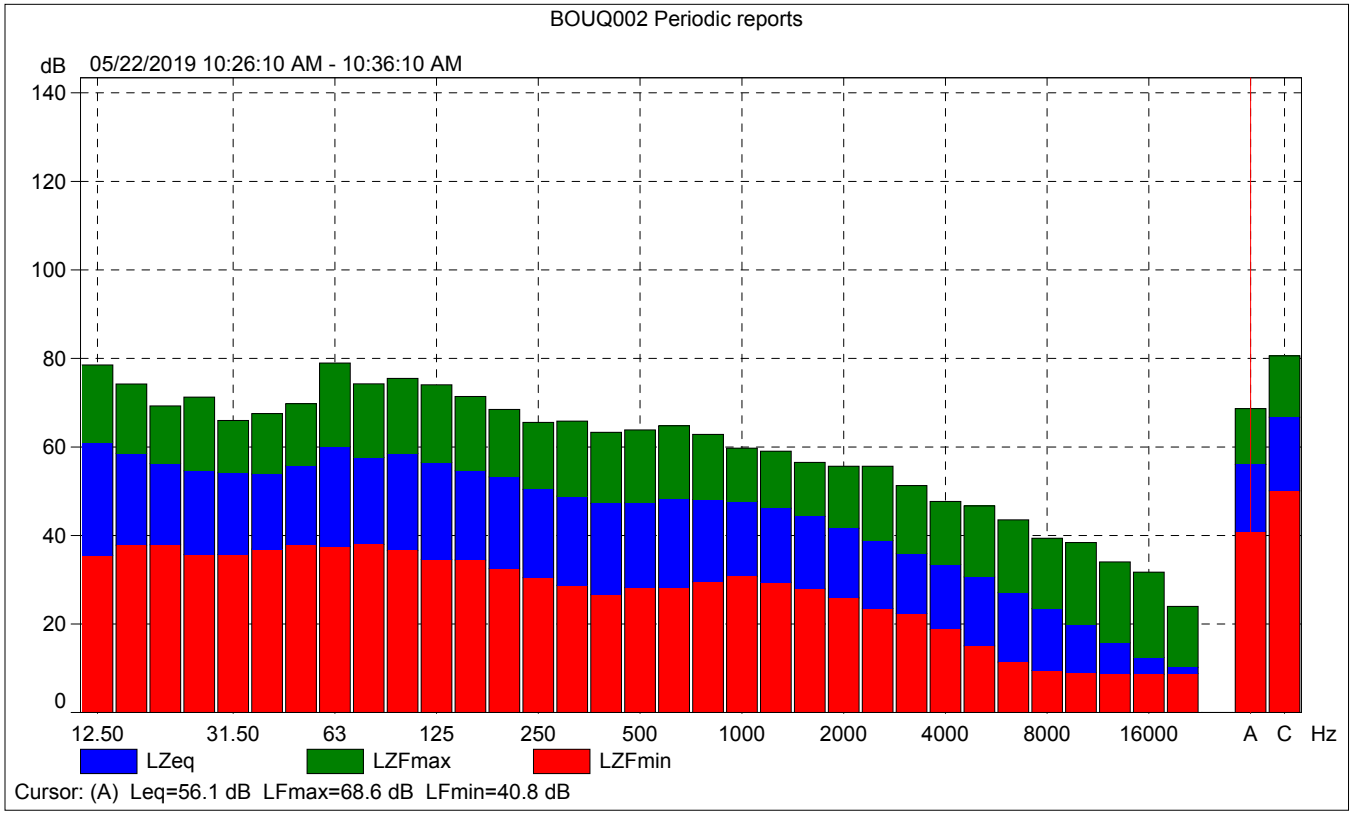
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			56.3	56.5	54.6
Time	10:31:09 AM	0:00:01			
Date	05/22/2019				

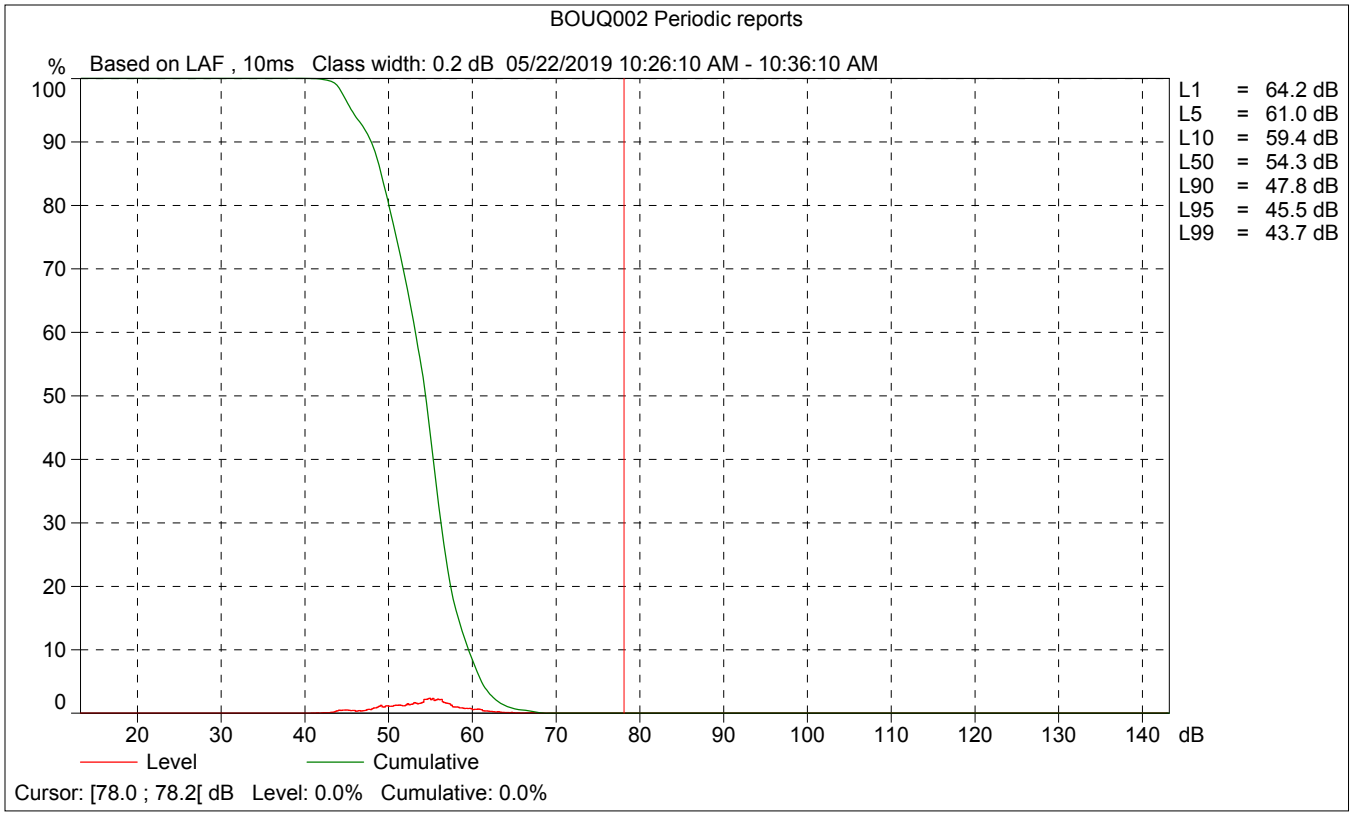

BOUQ002
dB
05/22/2019 10:31:09 AM - 10:31:10 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=55.4 dB


BOUQ002 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: 05/22/2019 10:26:10 AM - 11:26:10 AM LAIeq=57.7 dB LAFmax=68.6 dB LCpeak=87.2 dB LAFmin=40.8 dB

BOUQ002 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	57.7	68.6	40.8
Time	10:26:10 AM	0:10:00				
Date	05/22/2019					




BOUQ002 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 05/22/2019 10:26:10 AM - 10:36:10 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 = 64.2 dB
L5 = 61.0 dB
L10 = 59.4 dB
L50 = 54.3 dB
L90 = 47.8 dB
L95 = 45.5 dB
L99 = 43.7 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%

Site Number: Bouquet Canyon Site #3			
Recorded By: Pierre Glaize			
Job Number: 168840			
Date: 05/22/2019			
Time: 10:41 a.m.			
Location: Corner of Shadow Valley Lane and Bouquet Canyon Road.			
Source of Peak Noise: Traffic along Bouquet Canyon Road.			
Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
66.5	37.6	88.6	101.4

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
	Note: dBA Offset = 0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	10 mph	61°	29.73

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		05/22/2019 10:41:47
End Time:		05/22/2019 10:51:47
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.09

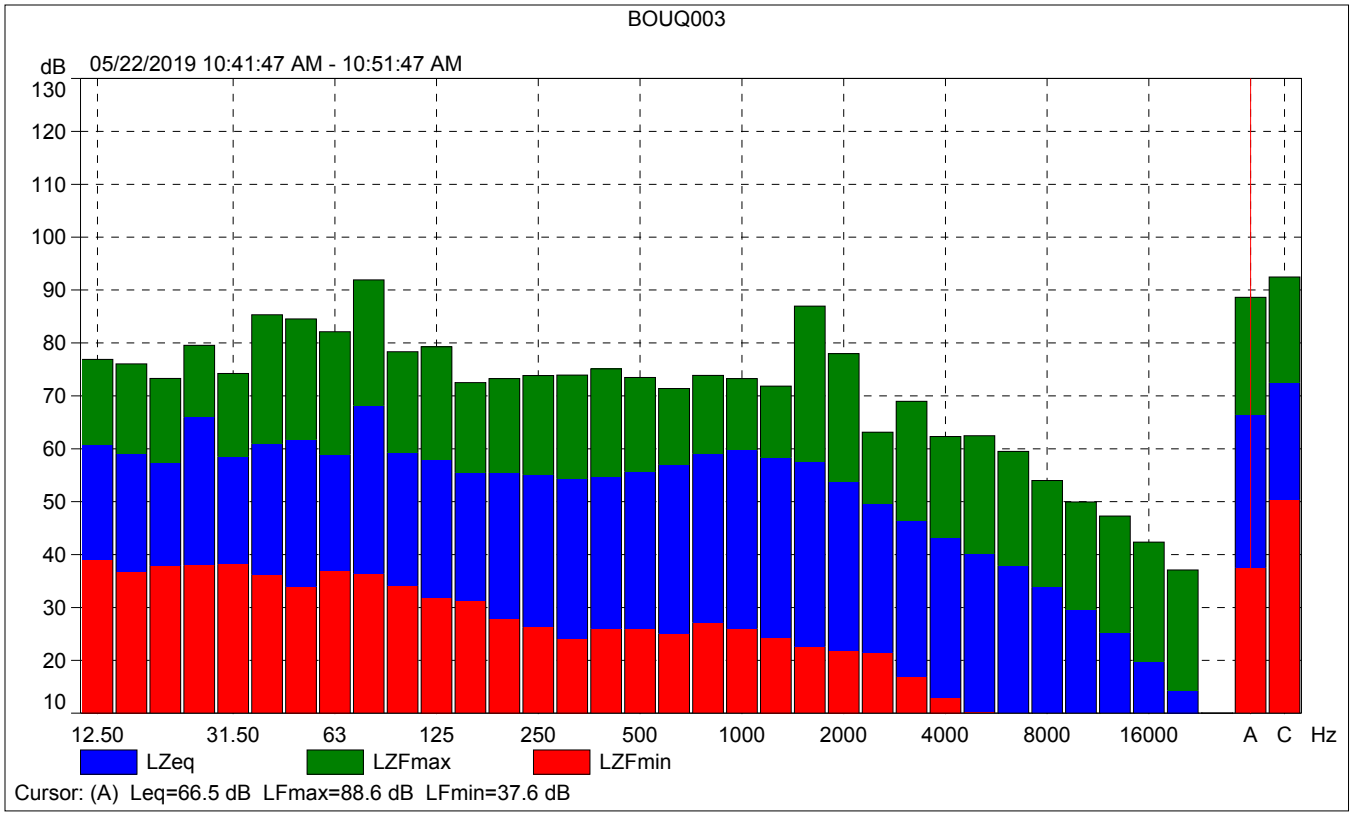
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

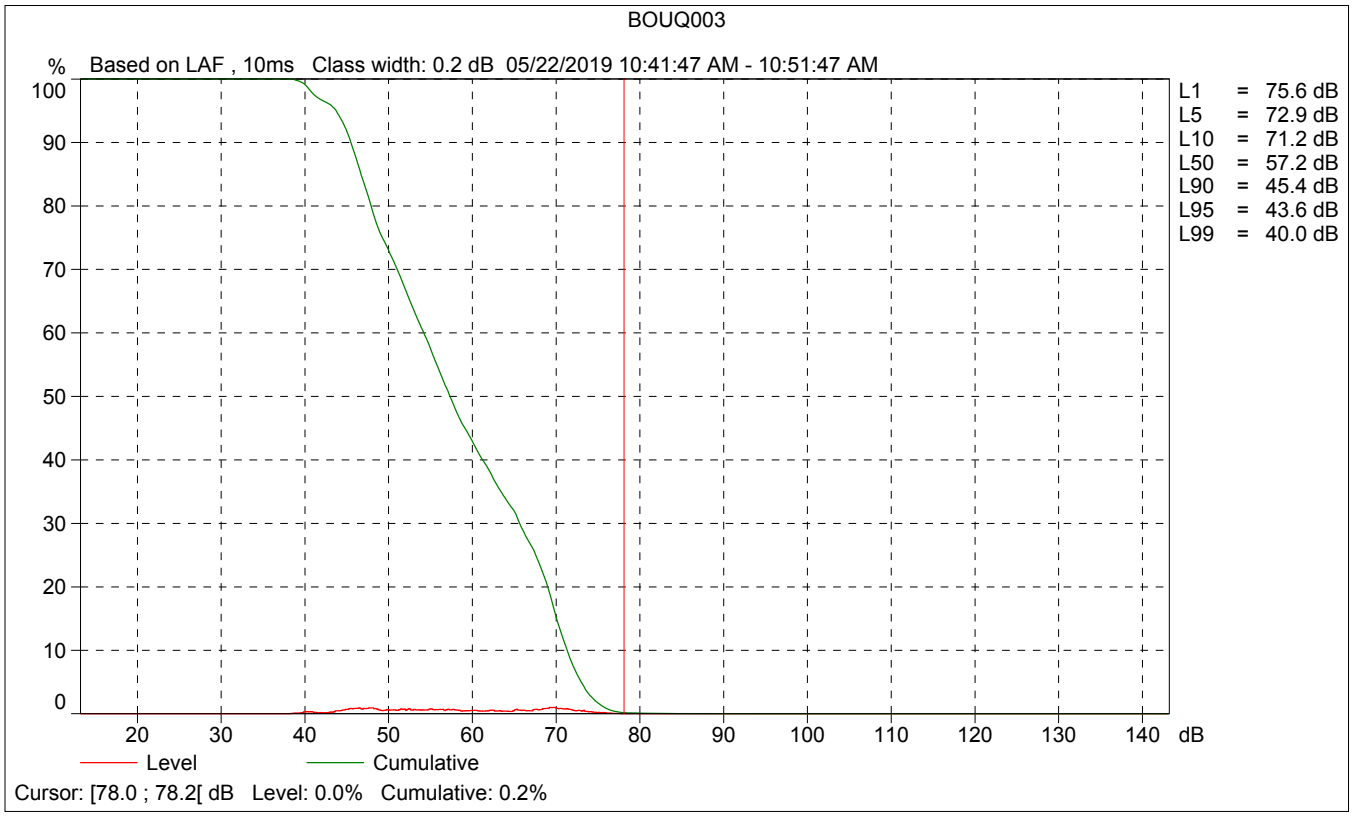
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

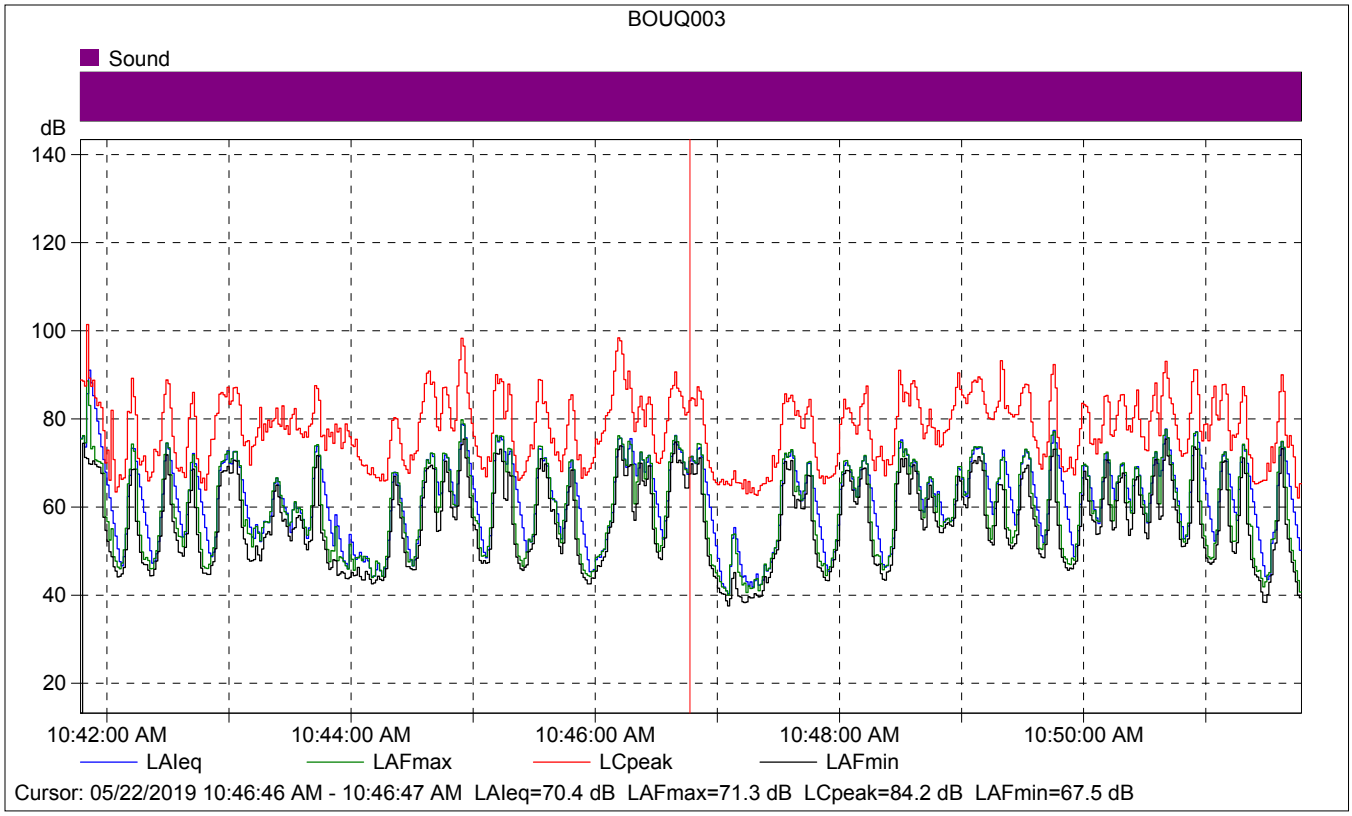
Calibration Time:		05/22/2019 07:24:19
Calibration Type:		External reference
Sensitivity:		43.775387108326 mV/Pa

BOUQ003

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	66.5	88.6	37.6
Time	10:41:47 AM	10:51:47 AM	0:10:00				
Date	05/22/2019	05/22/2019					

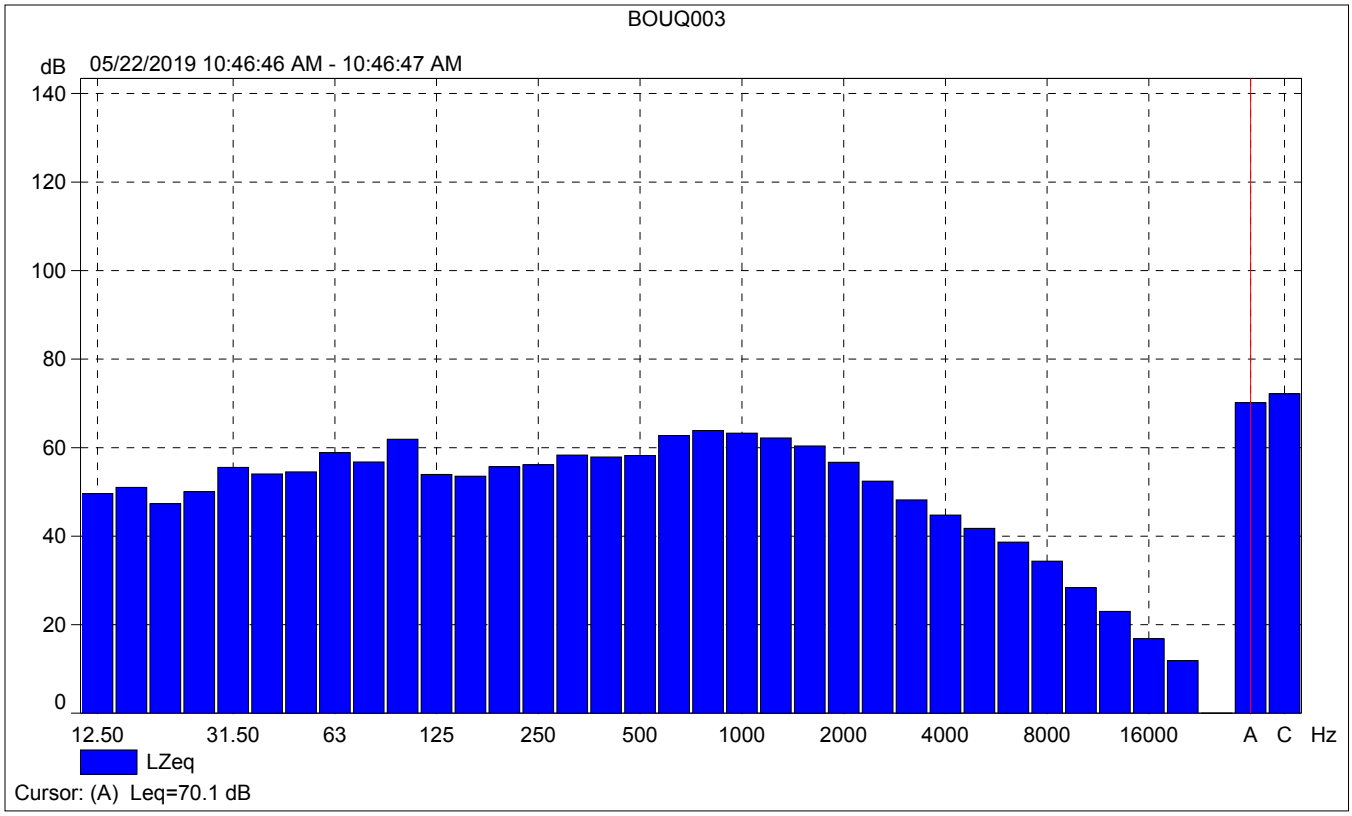

BOUQ003
dB
05/22/2019 10:41:47 AM - 10:51:47 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=66.5 dB LFmax=88.6 dB LFmin=37.6 dB

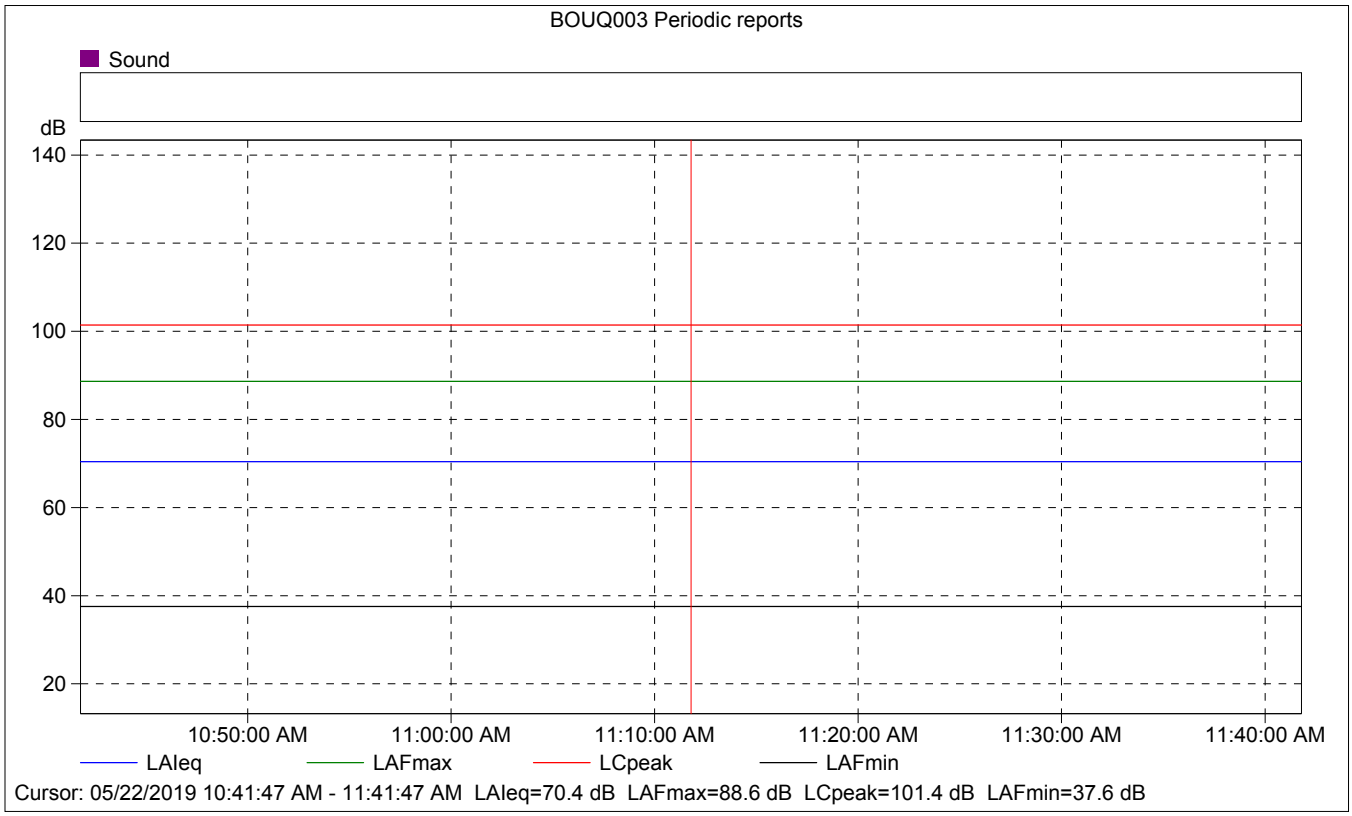

BOUQ003
%
Based on LAF , 10ms Class width: 0.2 dB 05/22/2019 10:41:47 AM - 10:51:47 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 75.6 dB
L5 = 72.9 dB
L10 = 71.2 dB
L50 = 57.2 dB
L90 = 45.4 dB
L95 = 43.6 dB
L99 = 40.0 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.2%



BOUQ003

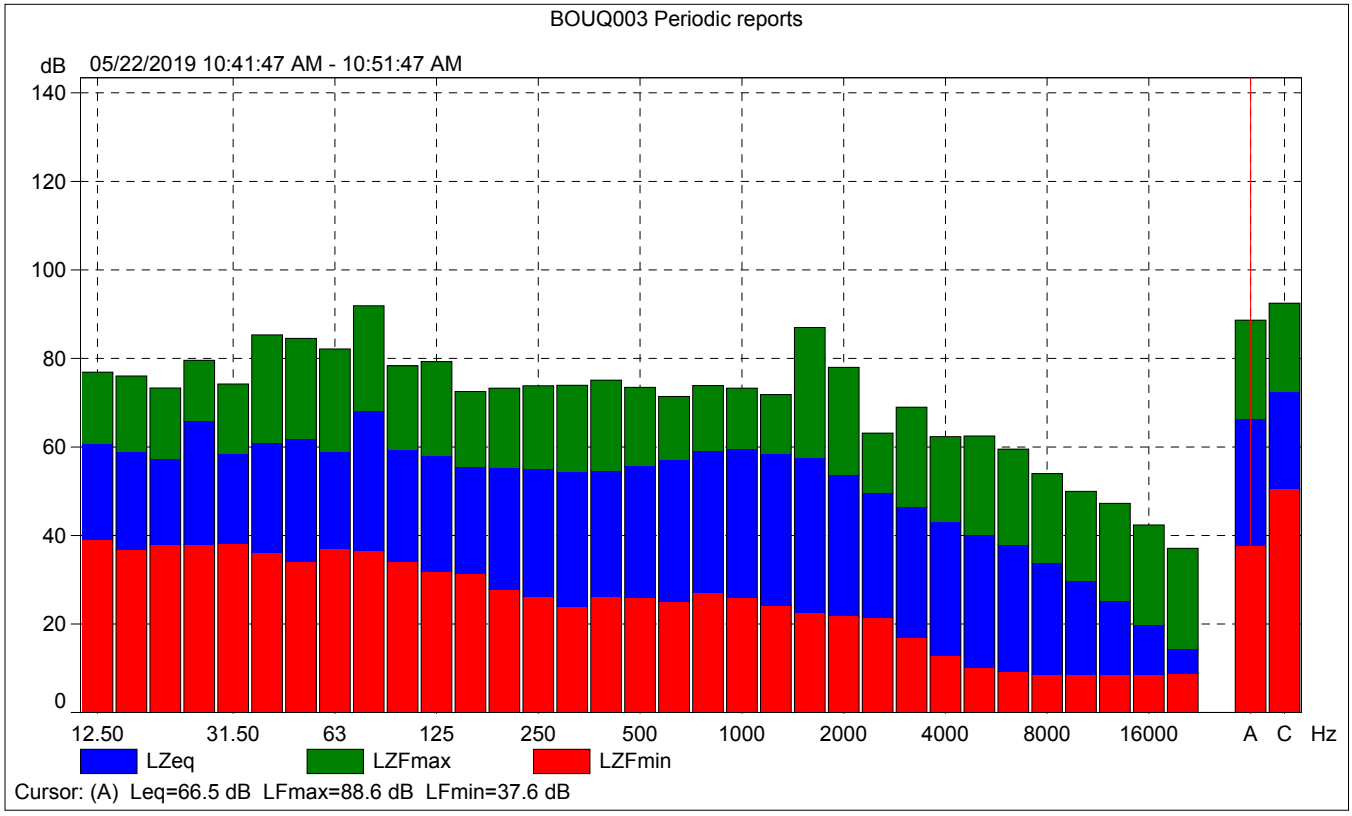
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			70.4	71.3	67.5
Time	10:46:46 AM	0:00:01			
Date	05/22/2019				

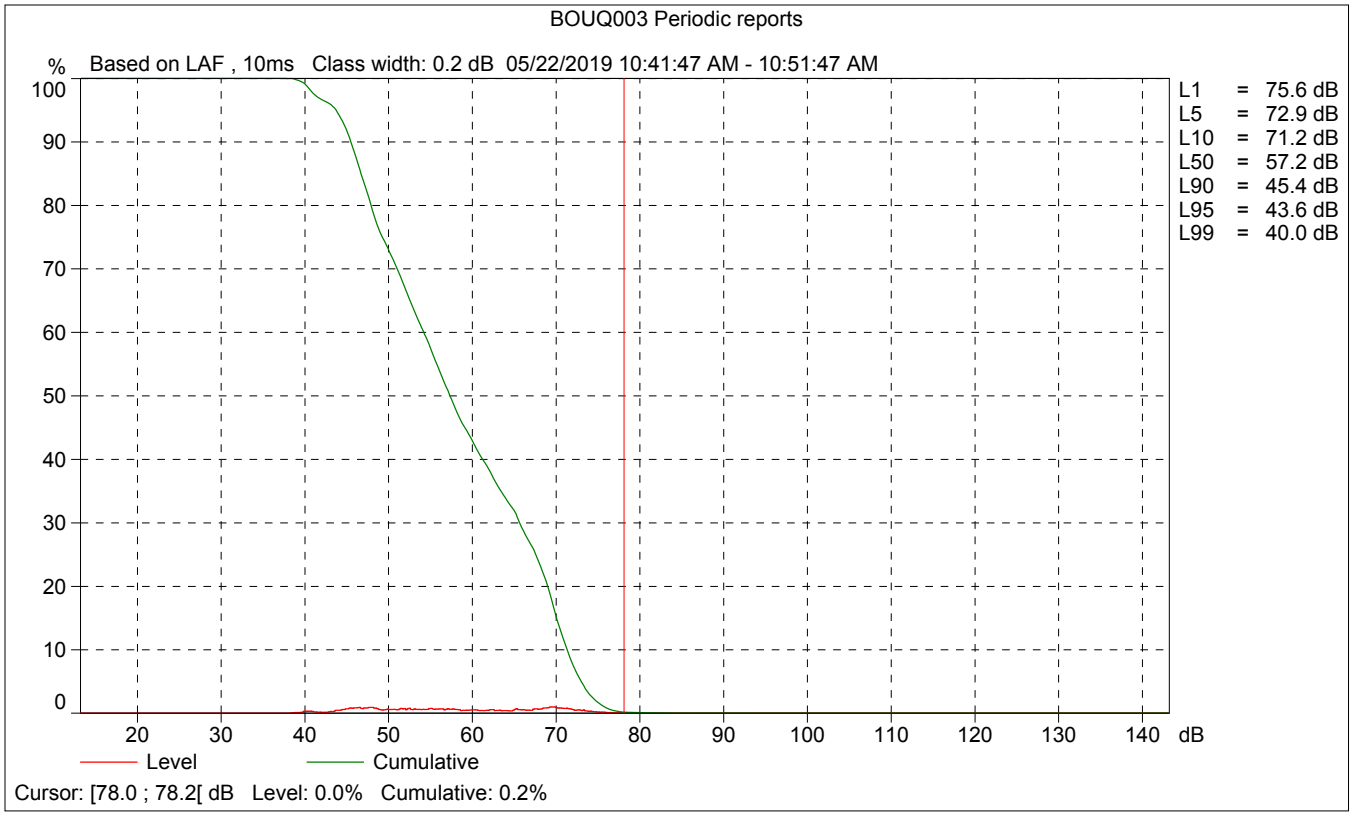

BOUQ003
dB
05/22/2019 10:46:46 AM - 10:46:47 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=70.1 dB


BOUQ003 Periodic reports
Sound
dB
140
120
100
80
60
40
20
10:50:00 AM
11:00:00 AM
11:10:00 AM
11:20:00 AM
11:30:00 AM
11:40:00 AM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 05/22/2019 10:41:47 AM - 11:41:47 AM LAIeq=70.4 dB LAFmax=88.6 dB LCpeak=101.4 dB LAFmin=37.6 dB

BOUQ003 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	70.4	88.6	37.6
Time	10:41:47 AM	0:10:00				
Date	05/22/2019					




BOUQ003 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 05/22/2019 10:41:47 AM - 10:51:47 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 = 75.6 dB
L5 = 72.9 dB
L10 = 71.2 dB
L50 = 57.2 dB
L90 = 45.4 dB
L95 = 43.6 dB
L99 = 40.0 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.2%

Site Number:	Bouquet Canyon Site #4
Recorded By:	Pierre Glaize
Job Number:	168840
Date:	05/22/2019
Time:	11:00 a.m.
Location:	On Nicholas Circle, to the South of the project site.
Source of Peak Noise:	Traffic on Nicholas Circle Drive.

Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
40.4	32.6	63.9	81.1

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
	Note: dBA Offset = 0.01		**Sensor Height (ft):** 5 ft
	Wind Ave Speed (mph / m/s)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (inches)**
	10	62°	29.73

Photo of Measurement Location

2250

Instrument:		2250
Application:		BZ7225 Version 4.7.4
Start Time:		05/22/2019 11:00:50
End Time:		05/22/2019 11:10:50
Elapsed Time:		00:10:00
Bandwidth:		1/3-octave
Max Input Level:		142.09

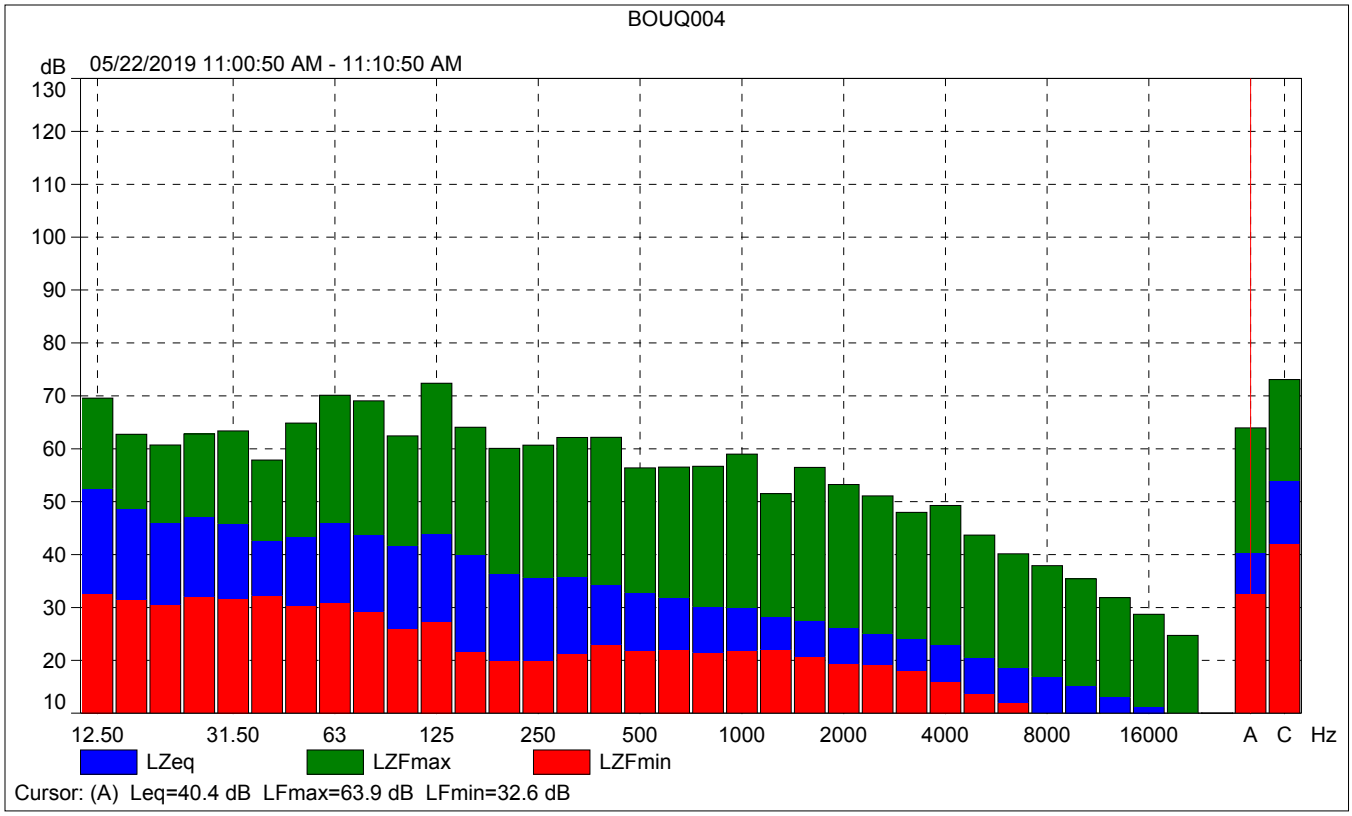
	Time	Frequency
Broadband (excl. Peak):	FSI	AC
Broadband Peak:		C
Spectrum:	FS	Z

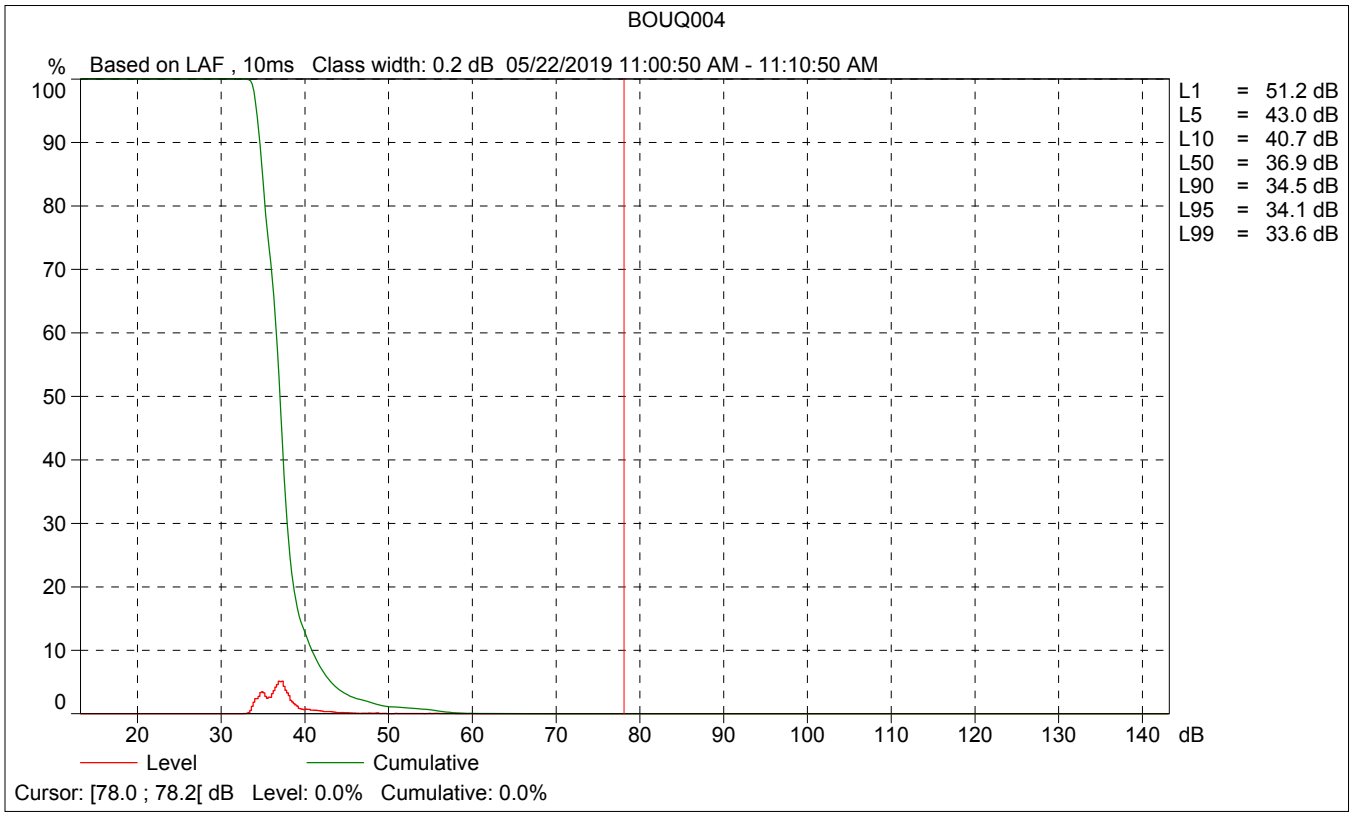
Instrument Serial Number:		3011133
Microphone Serial Number:		3086765
Input:		Top Socket
Windscreen Correction:		UA-1650
Sound Field Correction:		Free-field

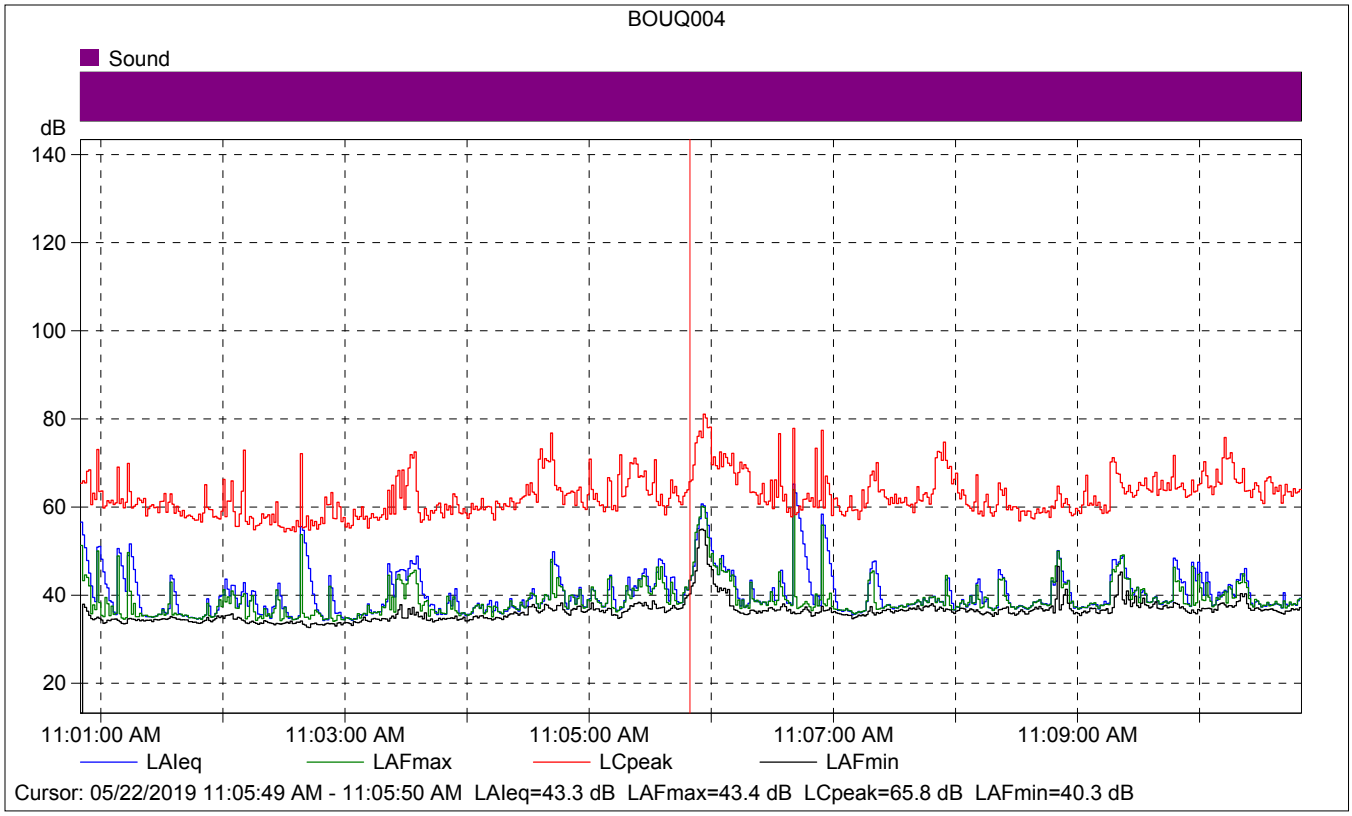
Calibration Time:		05/22/2019 07:24:19
Calibration Type:		External reference
Sensitivity:		43.775387108326 mV/Pa

BOUQ004

	Start time	End time	Elapsed time	Overload [%]	LAeq [dB]	LAFmax [dB]	LAFmin [dB]
Value				0.00	40.4	63.9	32.6
Time	11:00:50 AM	11:10:50 AM	0:10:00				
Date	05/22/2019	05/22/2019					

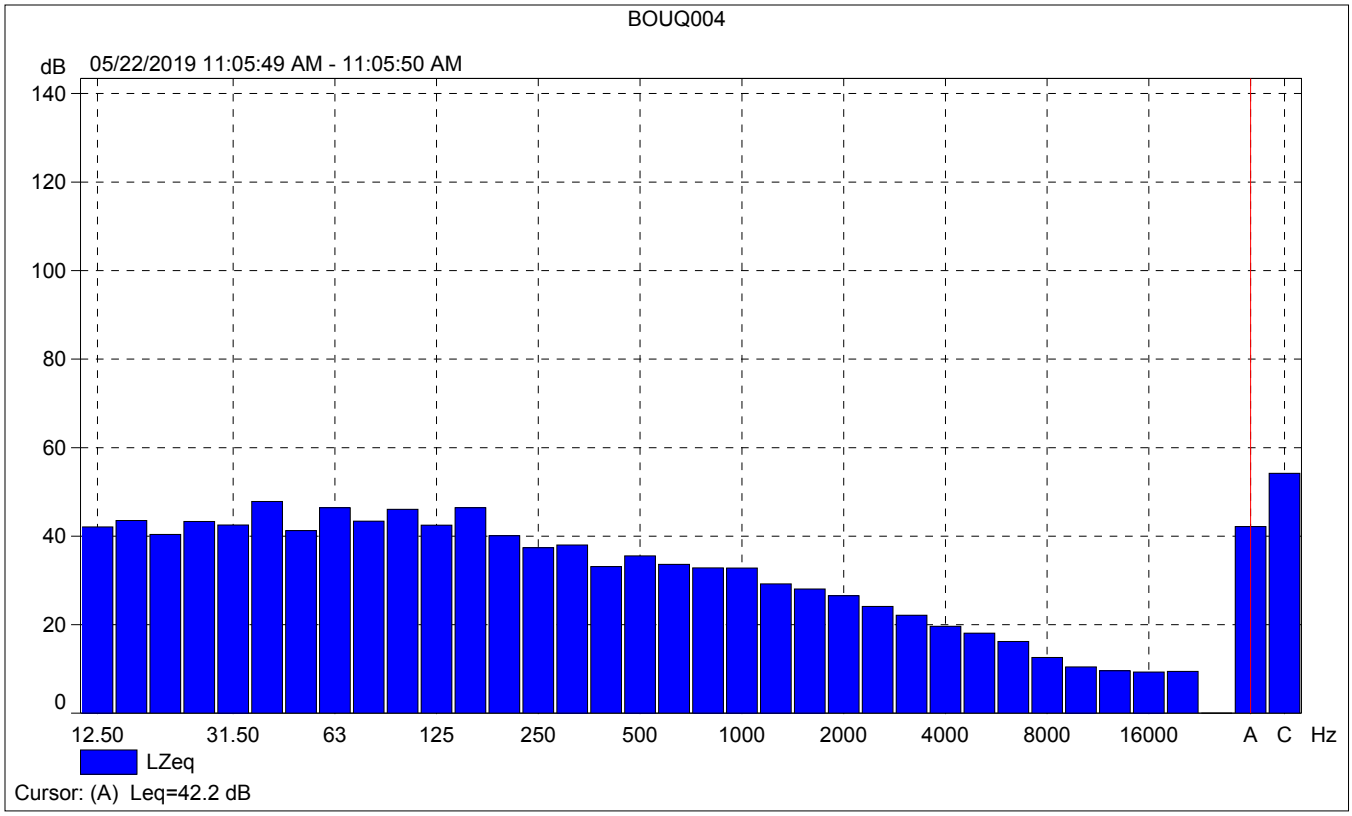

BOUQ004
dB
05/22/2019 11:00:50 AM - 11:10:50 AM
130
120
110
100
90
80
70
60
50
40
30
20
10
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
LZFmax
LZFmin
Cursor: (A) Leq=40.4 dB LFmax=63.9 dB LFmin=32.6 dB

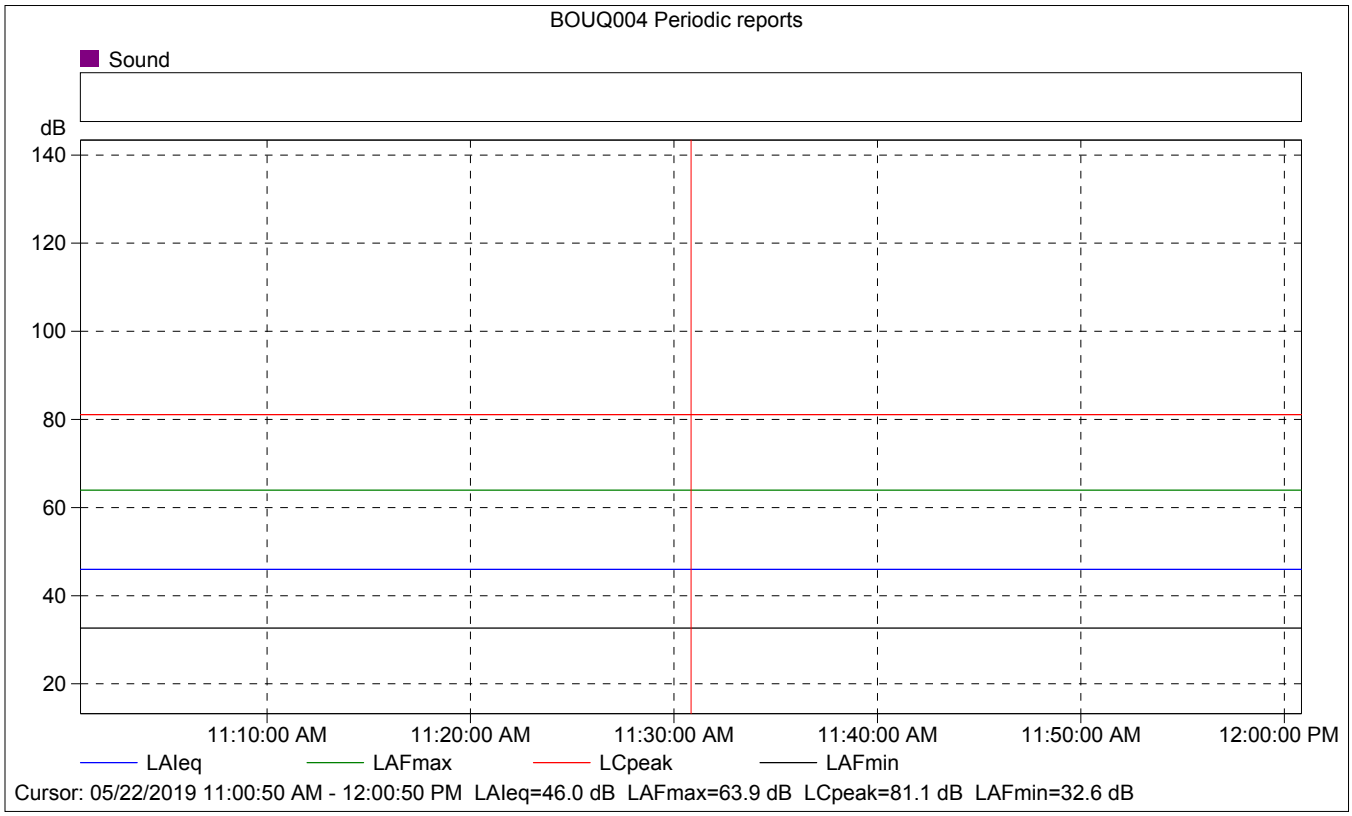

BOUQ004
%
Based on LAF , 10ms Class width: 0.2 dB 05/22/2019 11:00:50 AM - 11:10:50 AM
100
90
80
70
60
50
40
30
20
10
0
20
30
40
50
60
70
80
90
100
110
120
130
140
dB
L1 = 51.2 dB
L5 = 43.0 dB
L10 = 40.7 dB
L50 = 36.9 dB
L90 = 34.5 dB
L95 = 34.1 dB
L99 = 33.6 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%



BOUQ004

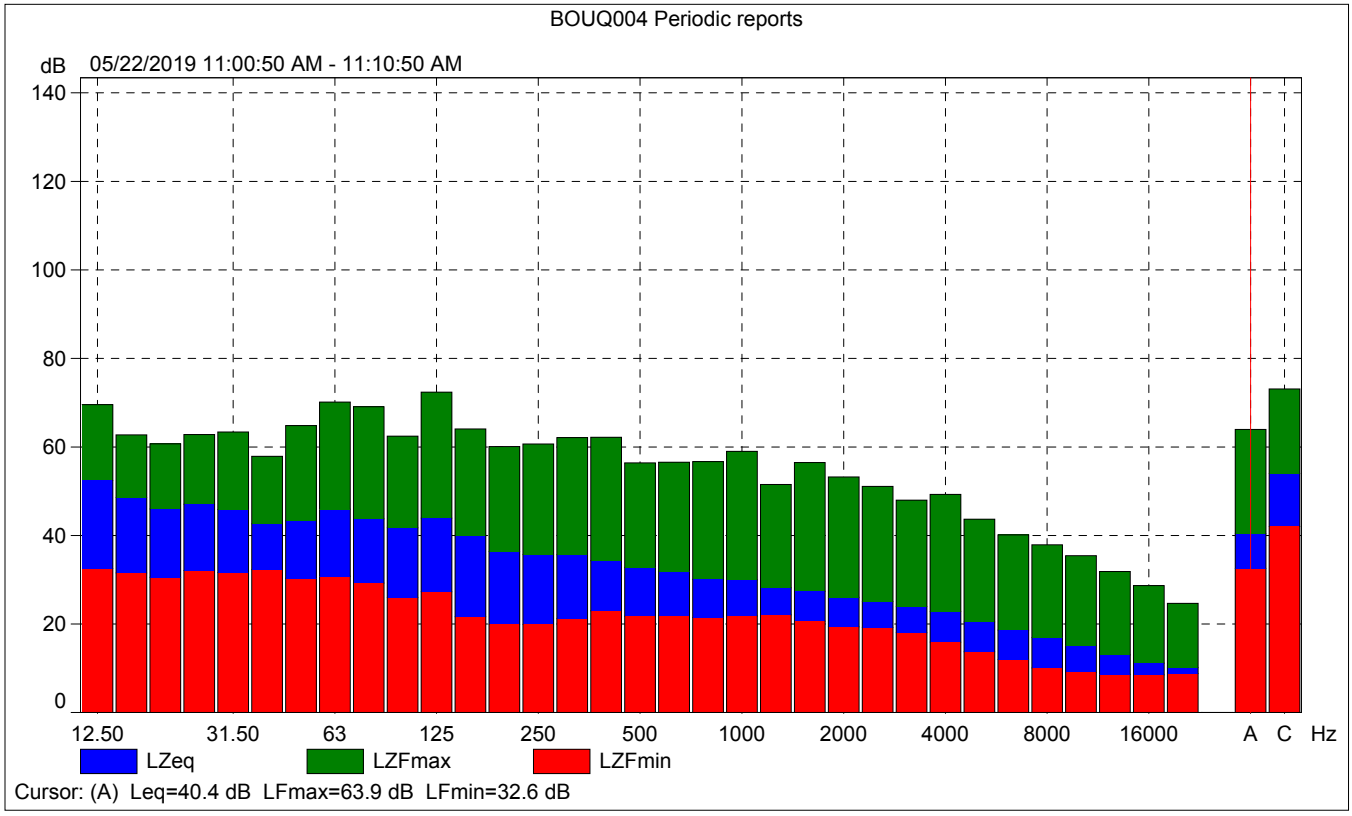
	Start time	Elapsed time	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			43.3	43.4	40.3
Time	11:05:49 AM	0:00:01			
Date	05/22/2019				

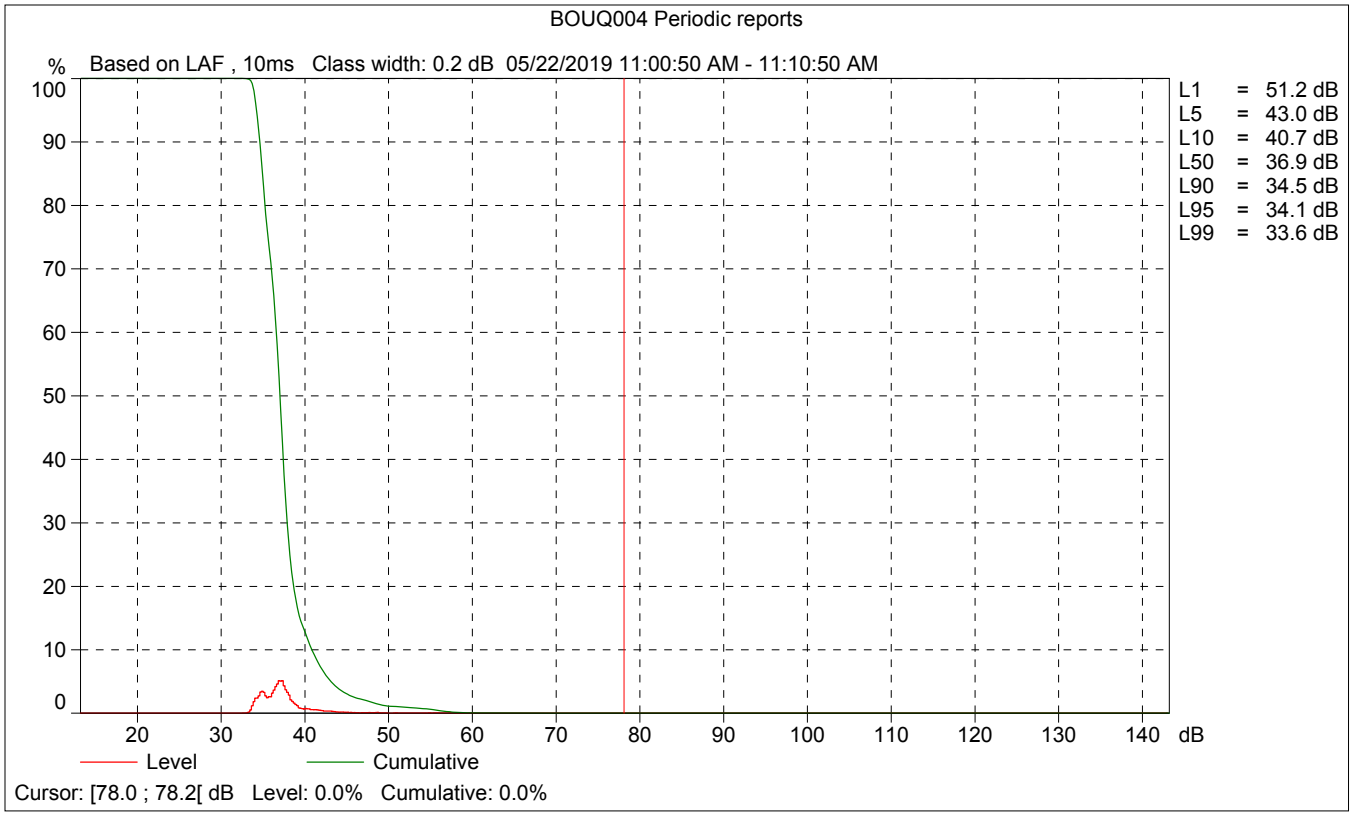

BOUQ004
dB
05/22/2019 11:05:49 AM - 11:05:50 AM
140
120
100
80
60
40
20
0
12.50
31.50
63
125
250
500
1000
2000
4000
8000
16000
A
C
Hz
LZeq
Cursor: (A) Leq=42.2 dB


BOUQ004 Periodic reports
Sound
dB
140
120
100
80
60
40
20
11:10:00 AM
11:20:00 AM
11:30:00 AM
11:40:00 AM
11:50:00 AM
12:00:00 PM
LAIeq
LAFmax
LCpeak
LAFmin
Cursor: 05/22/2019 11:00:50 AM - 12:00:50 PM LAIeq=46.0 dB LAFmax=63.9 dB LCpeak=81.1 dB LAFmin=32.6 dB

BOUQ004 Periodic reports

	Start time	Elapsed time	Overload [%]	LAIeq [dB]	LAFmax [dB]	LAFmin [dB]
Value			0.00	46.0	63.9	32.6
Time	11:00:50 AM	0:10:00				
Date	05/22/2019					




BOUQ004 Periodic reports
% Based on LAF , 10ms Class width: 0.2 dB 05/22/2019 11:00:50 AM - 11:10:50 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 = 51.2 dB
L5 = 43.0 dB
L10 = 40.7 dB
L50 = 36.9 dB
L90 = 34.5 dB
L95 = 34.1 dB
L99 = 33.6 dB
Level
Cumulative
Cursor: [78.0 ; 78.2[dB Level: 0.0% Cumulative: 0.0%

TRAFFIC NOISE LEVELS AND NOISE CONTOURS

Project Number: 168840
Project Name: Bouquet Canyon Project
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: Ganddini (2018)
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
Bouquet Canyon Road													
Newhall Ranch to Seco Canyon	6	0	64,300	45	0.5	1.8%	0.7%	69.7	96	207	447	962	100
Seco Canyon to Plum Canyon	6	18	25,000	50	0.5	1.8%	0.7%	67.0	-	136	292	629	100
Plum Canyon To David Way	2	0	16,000	45	0.5	1.8%	0.7%	63.4	36	78	169	364	100
Northeast of David Way	2	0	13,900	45	0.5	1.8%	0.7%	62.8	33	71	154	331	100
Newhall Ranch													
Bouquet Canyon to Golden Valley	6	22	49,400	50	0.5	1.8%	0.7%	70.0	100	215	464	1,000	100
Golden Valley													
Newhall Ranch to Plum Canyon	2	12	12,400	50	0.5	1.8%	0.7%	63.4	-	79	170	366	100
Plum Canyon													
Bouquet Canyon to Golden Valley	2	18	13,100	45	0.5	1.8%	0.7%	62.6	-	69	149	321	100
White Canyon													
South of Skyline Ranch Road	6	15	18,300	45	0.5	1.8%	0.7%	64.5	-	92	199	428	100
Benz Road													
Bouquet Canyon to Copper Hill	2	0	3,600	25	0.5	1.8%	0.7%	51.9	-	-	-	62	100
Copper Hill													
Seco Canyon to Haskell Canyon	4	12	22,700	50	0.5	1.8%	0.7%	66.2	56	121	260	560	100
Haskell Canyon to Benz Road	4	12	11,900	45	0.5	1.8%	0.7%	62.3	-	66	143	307	100
Benz to David Way	2	0	6,600	45	0.5	1.8%	0.7%	59.6	-	43	94	202	100
Seco Canyon													
Copper Hill to Bouquet Canyon	4	12	14,700	45	0.5	1.8%	0.7%	63.2	-	76	164	353	100
David Way													
Copper Hill to Bouquet Canyon	2	0	7,600	25	0.5	1.8%	0.7%	55.2	-	-	48	103	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: 168840
Project Name: Bouquet Canyon Project
Scenario: Existing + 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: Ganddini (2018)
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
Bouquet Canyon Road													
Newhall Ranch to Seco Canyon	6	0	65,200	45	0.5	1.8%	0.7%	69.8	97	209	451	971	100
Seco Canyon to Plum Canyon	6	18	26,800	50	0.5	1.8%	0.7%	67.3	66	142	306	659	100
Plum Canyon To David Way	2	0	18,600	45	0.5	1.8%	0.7%	64.1	40	87	187	402	100
Northeast of David Way	2	0	14,000	45	0.5	1.8%	0.7%	62.8	33	72	154	333	100
Newhall Ranch													
Bouquet Canyon to Golden Valley	6	22	49,400	50	0.5	1.8%	0.7%	70.0	100	215	464	1,000	100
Golden Valley													
Newhall Ranch to Plum Canyon	2	12	12,800	50	0.5	1.8%	0.7%	63.6	-	80	173	373	100
Plum Canyon													
Bouquet Canyon to Golden Valley	2	18	13,900	45	0.5	1.8%	0.7%	62.9	-	72	155	334	100
White Canyon													
South of Skyline Ranch Road	6	15	18,700	45	0.5	1.8%	0.7%	64.6	-	94	202	435	100
Benz Road													
Bouquet Canyon to Copper Hill	2	0	4,000	25	0.5	1.8%	0.7%	52.4	-	-	-	67	100
Copper Hill													
Seco Canyon to Haskell Canyon	4	12	23,100	50	0.5	1.8%	0.7%	66.3	57	122	263	566	100
Haskell Canyon to Benz Road	4	12	12,400	45	0.5	1.8%	0.7%	62.5	-	68	146	316	100
Benz to David Way	2	0	6,700	45	0.5	1.8%	0.7%	59.6	-	44	95	204	100
Seco Canyon													
Copper Hill to Bouquet Canyon	4	12	14,700	45	0.5	1.8%	0.7%	63.2	-	76	164	353	100
David Way													
Copper Hill to Bouquet Canyon	2	0	7,700	25	0.5	1.8%	0.7%	55.2	-	-	48	103	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: 168840
Project Name: Bouquet Canyon Project
Scenario: Interim Year Cumulative (2028) without 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: Ganddini (2018)
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
Bouquet Canyon Road													
Newhall Ranch to Seco Canyon	6	0	70,000	45	0.5	1.8%	0.7%	70.1	102	219	473	1,018	100
Seco Canyon to Plum Canyon	6	18	26,000	50	0.5	1.8%	0.7%	67.2	-	139	300	646	100
Plum Canyon To David Way	2	0	24,000	45	0.5	1.8%	0.7%	65.2	48	103	221	477	100
Northeast of David Way	2	0	22,000	45	0.5	1.8%	0.7%	64.8	45	97	209	450	100
Newhall Ranch													
Bouquet Canyon to Golden Valley	6	22	68,000	50	0.5	1.8%	0.7%	71.4	124	267	574	1,238	100
Golden Valley													
Newhall Ranch to Plum Canyon	2	12	29,000	50	0.5	1.8%	0.7%	67.1	64	139	299	644	100
Plum Canyon													
Bouquet Canyon to Golden Valley	2	18	19,000	45	0.5	1.8%	0.7%	64.2	41	89	191	412	100
White Canyon													
South of Skyline Ranch Road	6	15	19,000	45	0.5	1.8%	0.7%	64.6	-	95	204	439	100
Benz Road													
Bouquet Canyon to Copper Hill	2	0	4,000	25	0.5	1.8%	0.7%	52.4	-	-	-	67	100
Copper Hill													
Seco Canyon to Haskell Canyon	4	12	29,000	50	0.5	1.8%	0.7%	67.3	66	142	306	659	100
Haskell Canyon to Benz Road	4	12	19,000	45	0.5	1.8%	0.7%	64.3	-	90	195	419	100
Benz to David Way	2	0	11,000	45	0.5	1.8%	0.7%	61.8	-	61	132	283	100
Seco Canyon													
Copper Hill to Bouquet Canyon	4	12	16,000	45	0.5	1.8%	0.7%	63.6	-	81	174	374	100
David Way													
Copper Hill to Bouquet Canyon	2	0	13,000	25	0.5	1.8%	0.7%	57.5	-	-	68	147	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: 168840
Project Name: Bouquet Canyon Project
Scenario: Interim Year Cumulative (2028) 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: Ganddini (2018)
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
Bouquet Canyon Road													
Newhall Ranch to Seco Canyon	6	0	70,900	45	0.5	1.8%	0.7%	70.2	103	221	477	1,027	100
Seco Canyon to Plum Canyon	6	18	27,800	50	0.5	1.8%	0.7%	67.4	68	145	313	675	100
Plum Canyon To David Way	2	0	26,600	45	0.5	1.8%	0.7%	65.6	51	110	237	510	100
Northeast of David Way	2	0	22,100	45	0.5	1.8%	0.7%	64.8	45	97	209	451	100
Newhall Ranch													
Bouquet Canyon to Golden Valley	6	22	68,000	50	0.5	1.8%	0.7%	71.4	124	267	574	1,238	100
Golden Valley													
Newhall Ranch to Plum Canyon	2	12	29,400	50	0.5	1.8%	0.7%	67.2	65	140	302	650	100
Plum Canyon													
Bouquet Canyon to Golden Valley	2	18	19,800	45	0.5	1.8%	0.7%	64.4	42	91	196	423	100
White Canyon													
South of Skyline Ranch Road	6	15	19,400	45	0.5	1.8%	0.7%	64.7	-	96	207	445	100
Benz Road													
Bouquet Canyon to Copper Hill	2	0	4,400	25	0.5	1.8%	0.7%	52.8	-	-	33	71	100
Copper Hill													
Seco Canyon to Haskell Canyon	4	12	29,400	50	0.5	1.8%	0.7%	67.3	66	143	309	665	100
Haskell Canyon to Benz Road	4	12	19,500	45	0.5	1.8%	0.7%	64.5	-	92	198	427	100
Benz to David Way	2	0	11,100	45	0.5	1.8%	0.7%	61.8	-	61	132	285	100
Seco Canyon													
Copper Hill to Bouquet Canyon	4	12	16,000	45	0.5	1.8%	0.7%	63.6	-	81	174	374	100
David Way													
Copper Hill to Bouquet Canyon	2	0	13,100	25	0.5	1.8%	0.7%	57.5	-	-	68	147	100

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