Map Date: *2/26/2019*
Photo (or Base) Source: *Google Earth*

ECORP Consulting, Inc.
ENVIRONMENTAL CONSULTANTS

Baseline Noise Measurement Locations

Site Number: 1			
Recorded By: Jerry Aguirre			
Job Number: 2018-039.007			
Date: 2/25/2019			
Time: 2:39 p.m.			
Location: Center of site.			
Source of Peak Noise: Digs barking, vehicular traffic along Juniper Avenue, and wind noise.			
Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
47.1	33.6	61.4	94.3

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Larson Davis**	**LxT SE**	**0005120**	**6/27/2017**	
	Microphone	**Larson Davis**	**377B02**	**174464**	**5/19/2017**	
	Preamp	**Larson Davis**	**PRMLxT1L**	**042852**	**6/1/2017**	
	Calibrator	**Larson Davis**	**CAL200**	**14105**	**6/13/2017**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Clear
	Note: dBA Offset = 0.01		**Sensor Height (ft): 4** ft
	Wind Ave Speed (mph)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (hPa)**
	3-7 mph	60°	29.54

Summary

File Name on Meter	LxT_Data.080
File Name on PC	SLM_0005120_LxT_Data_080.00.ldbin
Serial Number	0005120
Model	SoundExpert® LxT
Firmware Version	2.302
User	Jerry Aguirre
Location	Morongo Valley, CA
Job Description	2018-039.007 Mojave Booster Station
Note	

Measurement

Description	
Start	2019-02-25 15:37:45
Stop	2019-02-25 15:47:45
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre Calibration	2019-02-25 15:33:45
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Fast
Preamp	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	122.7 dB

	A	**C**	**Z**
Under Range Peak	79.0	76.0	**81.0** dB
Under Range Limit	**28.0**	26.4	34.0 dB
Noise Floor	17.3	17.3	23.7 dB

Results

LA_{eq}	47.1 dB	
LAE	74.9 dB	
EA	3.440 µPa²h	
$LZ_{peak\ (max)}$	2019-02-25 15:40:10	94.3 dB
LAF_{max}	2019-02-25 15:39:23	61.4 dB
LAF_{min}	2019-02-25 15:43:19	33.6 dB
SEA	-99.9 dB	

LAF > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAF > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	**Ldn**	**LDay 07:00-22:00**	**LNight 22:00-07:00**	**Lden**	**LDay 07:00-19:00**	**LEvening 19:00-22:00**
	47.1	47.1	-99.9	47.1	47.1	-99.9

LC_{eq}	60.3	dB
LA_{eq}	47.1	dB
LCe_q - LAe_q	13.2	dB
LAl_{eq}	49.6	dB
LA_{eq}	47.1	dB
LAl_{eq} - LA_{eq}	2.5	dB

	A		**C**		**Z**	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	47.1		60.3			
$L_{F(max)}$	61.4	2019/02/25 15:39:23				
$L_{F(min)}$	33.6	2019/02/25 15:43:19				
$L_{Peak(max)}$					94.3	2019/02/25 15:40:10

# Overloads	0	
Overload Duration	0.0	s
# OBA Overloads	0	
OBA Overload Duration	0.0	s

Site Number: 2			
Recorded By: Jerry Aguirre			
Job Number: 2018-039.007			
Date: 2/25/2019			
Time: 3:15 p.m.			
Location: East of project site on adjacent property next to water tank on Mojave Drive.			
Source of Peak Noise: Vehicular traffic on Mojave Drive and band saw.			
Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
53.5	38.0	71.7	90.9

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Larson Davis**	**LxT SE**	**0005120**	**6/27/2017**	
	Microphone	**Larson Davis**	**377B02**	**174464**	**5/19/2017**	
	Preamp	**Larson Davis**	**PRMLxT1L**	**042852**	**6/1/2017**	
	Calibrator	**Larson Davis**	**CAL200**	**14105**	**6/13/2017**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:** Clear
	Note: dBA Offset = 0.01		**Sensor Height (ft): 4** ft
	Wind Ave Speed (mph)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (hPa)**
	2-3 mph	60°	29.84

Summary

File Name on Meter	LxT_Data.082
File Name on PC	SLM_0005120_LxT_Data_082.00.ldbin
Serial Number	0005120
Model	SoundExpert® LxT
Firmware Version	2.302
User	Jerry Aguirre
Location	Morongo Valley, CA
Job Description	2018-039.007 Mojave Booster Station
Note	

Measurement

Description	
Start	2019-02-25 16:14:52
Stop	2019-02-25 16:24:52
Duration	00:10:00.0
Run Time	00:10:00.0
Pause	00:00:00.0
Pre Calibration	2019-02-25 15:33:45
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Fast
Preamp	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	122.7 dB

	A	**C**	**Z**
Under Range Peak	79.0	76.0	**81.0** dB
Under Range Limit	**28.0**	26.4	34.0 dB
Noise Floor	17.3	17.3	23.7 dB

Results

LA_{eq}	53.5 dB	
LAE	81.2 dB	
EA	14.773 µPa²h	
$LZ_{peak\ (max)}$	2019-02-25 16:16:55	90.9 dB
LAF_{max}	2019-02-25 16:16:55	71.7 dB
LAF_{min}	2019-02-25 16:19:48	38.0 dB
SEA	-99.9 dB	

LAF > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAF > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	**Ldn**	**LDay 07:00-22:00**	**LNight 22:00-07:00**	**Lden**	**LDay 07:00-19:00**	**LEvening 19:00-22:00**
	53.5	53.5	-99.9	53.5	53.5	-99.9

LC_{eq}	62.2	dB
LA_{eq}	53.5	dB
LCe_q - LAe_q	8.8	dB
LAl_{eq}	55.2	dB
LA_{eq}	53.5	dB
LAl_{eq} - LA_{eq}	1.7	dB

	A		**C**		**Z**	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	53.5		62.2			
$L_{F(max)}$	71.7	2019/02/25 16:16:55				
$L_{F(min)}$	38.0	2019/02/25 16:19:48				
$L_{Peak(max)}$					90.9	2019/02/25 16:16:55

# Overloads	0	
Overload Duration	0.0	s
# OBA Overloads	0	
OBA Overload Duration	0.0	s

Site Number: 3	
Recorded By: Jerry Aguirre	
Job Number: 2018-039.007	
Date: 2/25/2019	
Time: 2: 59 p.m.	
Location: South of Project boundary, near adjacent residence, and along Park Avenue.	
Source of Peak Noise: Vehicular traffic along Juniper Avenue and dogs barking.	

Noise Data			
Leq (dB)	**Lmin (dB)**	**Lmax (dB)**	**Peak (dB)**
44.8	32.6	63.6	94.1

Equipment						
Category	**Type**	**Vendor**	**Model**	**Serial No.**	**Cert. Date**	**Note**
Sound	Sound Level Meter	**Larson Davis**	**LxT SE**	**0005120**	**6/27/2017**	
	Microphone	**Larson Davis**	**377B02**	**174464**	**5/19/2017**	
	Preamp	**Larson Davis**	**PRMLxT1L**	**042852**	**6/1/2017**	
	Calibrator	**Larson Davis**	**CAL200**	**14105**	**6/13/2017**	

Weather Data			
Est.	**Duration:** 10 minutes		**Sky:**
	Note: dBA Offset = 0.01		**Sensor Height (ft): 4** ft
	Wind Ave Speed (mph)	**Temperature (degrees Fahrenheit)**	**Barometer Pressure (hPa)**
	2-4 mph	60°	29.54

Summary

File Name on Meter	LxT_Data.081
File Name on PC	SLM_0005120_LxT_Data_081.00.ldbin
Serial Number	0005120
Model	SoundExpert® LxT
Firmware Version	2.302
User	Jerry Aguirre
Location	Morongo Valley, CA
Job Description	2018-039.007 Mojave Booster Station
Note	

Measurement

Description	
Start	2019-02-25 15:57:54
Stop	2019-02-25 16:07:54
Duration	00:10:00.0
Run Time	00:09:59.6
Pause	00:00:00.4
Pre Calibration	2019-02-25 15:33:45
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Fast
Preamp	PRMLxT1L
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	Z Weighting
OBA Max Spectrum	Bin Max
Overload	122.7 dB

	A	**C**	**Z**
Under Range Peak	79.0	76.0	**81.0** dB
Under Range Limit	**28.0**	26.4	34.0 dB
Noise Floor	17.3	17.3	23.7 dB

Results

LA_{eq}	44.8 dB	
LAE	72.5 dB	
EA	1.996 µPa²h	
$LZ_{peak\ (max)}$	2019-02-25 16:06:20	94.1 dB
LAF_{max}	2019-02-25 16:04:26	63.6 dB
LAF_{min}	2019-02-25 16:04:50	32.6 dB
SEA	-99.9 dB	

LAF > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAF > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

Community Noise	**Ldn**	**LDay 07:00-22:00**	**LNight 22:00-07:00**	**Lden**	**LDay 07:00-19:00**	**LEvening 19:00-22:00**
	44.8	44.8	-99.9	44.8	44.8	-99.9

LC_{eq}	57.4	dB
LA_{eq}	44.8	dB
LC_{eq} - LA_{eq}	12.6	dB
LAI_{eq}	48.2	dB
LA_{eq}	44.8	dB
LAI_{eq} - LA_{eq}	3.4	dB

	A		**C**		**Z**	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	44.8		57.4			
$L_{F(max)}$	63.6	2019/02/25 16:04:26				
$L_{F(min)}$	32.6	2019/02/25 16:04:50				
$L_{Peak(max)}$					94.1	2019/02/25 16:06:20

# Overloads	0	
Overload Duration	0.0	s
# OBA Overloads	0	
OBA Overload Duration	0.0	s

Statistics

LAF5.00	50.5	dB
LAF10.00	46.6	dB
LAF33.30	41.0	dB
LAF50.00	39.6	dB
LAF66.60	38.4	dB
LAF90.00	36.5	dB

Report date: 7/24/2020
Case Description: Demolition

Description	Land Use
Residential	Residential

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Concrete Saw	No	20		89.6	70
Dozer	No	40		81.7	70
Tractor	No	40	84		70
Tractor	No	40	84		70
Tractor	No	40	84		70

Equipment		Calculated (dBA) *Lmax	Leq
Concrete Saw		86.7	79.7
Dozer		78.7	74.8
Tractor		81.1	77.1
Tractor		81.1	77.1
Tractor		81.1	77.1
	Total	86.7	84.4

*Calculated Lmax is the Loudest value.

Report date: 7/24/2020
Case Description: Building Construction, Paving and Painting

Description	Land Use
Residential	Residential

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Generator	No	50		80.6	70
Crane	No	16		80.6	70
Gradall	No	40		83.4	70
Welder / Torch	No	40		74	70
Welder / Torch	No	40		74	70
Welder / Torch	No	40		74	70
Flat Bed Truck	No	40		74.3	70
Flat Bed Truck	No	40		74.3	70
Concrete Mixer Truck	No	40		78.8	70
Paver	No	50		77.2	70
Roller	No	20		80	70
Tractor	No	40	84		70
Compressor (air)	No	40		77.7	70

Calculated (dBA)

Equipment		*Lmax	Leq
Generator		77.7	74.7
Crane		77.6	69.7
Gradall		80.5	76.5
Welder / Torch		71.1	67.1
Welder / Torch		71.1	67.1
Welder / Torch		71.1	67.1
Flat Bed Truck		71.3	67.3
Flat Bed Truck		71.3	67.3
Concrete Mixer Truck		75.9	71.9
Paver		74.3	71.3
Roller		77.1	70.1
Tractor		81.1	77.1
Compressor (air)		74.7	70.8
	Total	81.1	83.3

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/24/2020
Case Description Site Preparation

Description	Land Use
Residential	Residential

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Tractor	No	40	84		70
Tractor	No	40	84		70
Dozer	No	40		81.7	70
Excavator	No	40		80.7	70

Calculated (dBA)

Equipment		*Lmax	Leq
Tractor		81.1	77.1
Tractor		81.1	77.1
Dozer		78.7	74.8
Excavator		77.8	73.8
	Total	81.1	81.9

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/24/2020
Case Description: Grading

Description	Land Use
Residential	Residential

Description	Impact Device	Usage(%)	Equipment Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
Dozer	No	40		81.7	70
Tractor	No	40	84		70
Tractor	No	40	84		70
Excavator	No	40		80.7	70

		Calculated (dBA)	
Equipment		*Lmax	Leq
Dozer		78.7	74.8
Tractor		81.1	77.1
Tractor		81.1	77.1
Excavator		77.8	73.8
	Total	81.1	81.9

*Calculated Lmax is the Loudest value.