

**Appendix D:
Noise Supporting Information**

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Project Number: 5166.0001
 Project Name: Storage Pro Phase II
 Test Personnel: Spencer

Sheet ___ of ___

Noise Measurement Survey

Site Number: ST-1 Date: 9/4/2018 Time: From 2:40 To 2:55

Site Location:
50 ft. from center of Hwy 12, 20 ft. from 4358 Hwy 12

Primary Noise Sources: Traffic along Hwy 12

Measurement Results

	dBA
Leq	66.6
Lmax	75.4
Lmin	42.2
Lpeak	—
L5	71.4
L10	70.1
L50	65.1
L90	55.6
SEL	—

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: -0.05 dBA
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
<u>8.2</u>	<u>1.3</u>	<u>79°</u>	
Comments: <u>warm, sunny, cloudless day</u>			

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Sheet ___ of ___

Noise Measurement Survey

Site Number: ST-2 Date: 9/4/2018 Time: From 3:04 p.m To 3:19 p.m

Site Location:
Southwest portion of project site as designated in KMZ file. 150 ft. to buildings to the west

Primary Noise Sources: Hwy. 12 Traffic, nearby machinery

Measurement Results

	dBA
Leq	50.0
Lmax	65.9
Lmin	41.8
Lpeak	—
L5	53.5
L10	52.1
L50	49.1
L90	45.5
SEL	—

Observed Noise Sources/Events

Time	Noise Source/Event	dBA

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: 0.04 dBA
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)
<u>8.2</u>	<u>1.3</u>	<u>79°</u>	
Comments: <u>warm, sunny, cloudless day</u>			

Project Number: 5166.0001
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Sheet ___ of ___

Noise Measurement Survey

Site Number: LT1 Date: 9/4 - 9/5/2018 Time: From 4:46 pm To 5:12 pm.

Site Location:
Northeastern boundary of site, 170 ft. south of highway 12.

Primary Noise Sources: Fans from adjacent Storage Pro facility to the east; traffic along Hwy 12.

Measurement Results

	dB(A)
Leq	58.3
Lmax	71.6
Lmin	29.5
L5	63.9
L10	63.0
L50	52.2
L90	37.4
Ldn	59.1
CNEL	

Observed Noise Sources/Events

Time	Noise Source/Event	dB(A)

Comments: _____

Equipment: LXT-1
 Settings: A-Weighted Other

Measured Difference: -0.08 dB(A)
 Slow Fast Windscreen

Atmospheric Conditions:

Maximum Wind Velocity (mph)	Average Wind Velocity (mph)	Temperature (F)	Relative Humidity (%)	
8.2	1.3	80°		
Comments: <u>Warm, cloudless day with minimal wind.</u>				

Summary

Filename LxT_Data.046
Serial Number 4397
Model SoundTrack LxT®
Firmware Version 2.301
User
Location
Job Description
Note
Measurement Description
Start 2018/09/04 16:46:24
Stop 2018/09/05 17:12:22
Duration 1 Day 00:25:57.5
Run Time 1 Day 00:25:57.5
Pause 0:00:00.0

Pre Calibration 2018/09/04 16:44:40
Post Calibration None
Calibration Deviation ---

Overall Settings

RMS Weight A Weighting
Peak Weight A Weighting
Detector Slow
Preamp Direct
Microphone Correction Off
Integration Method Linear
Overload 226.5 dB

	A	C	Z
Under Range Peak	182.7	179.7	184.7 dB
Under Range Limit	78.4	76.4	84.4 dB
Noise Floor	65.2	65.9	73.5 dB

Results

L_{Aeq} 58.3 dB
L_{AE} 107.8 dB
EA 6.655 mPa²h
EA₈ 2.179 mPa²h
EA₄₀ 10.895 mPa²h
L_{Apeak} (max) 2018/09/04 16:46:41 96.4 dB
L_{ASmax} 2018/09/05 12:12:54 71.6 dB
L_{ASmin} 2018/09/05 4:28:24 29.5 dB
SEA -99.9 dB

L_{AS} > 85.0 dB (Exceedence Counts / Duration) 0 0.0 s
L_{AS} > 115.0 dB (Exceedence Counts / Duration) 0 0.0 s
L_{Apeak} > 135.0 dB (Exceedence Counts / Duration) 0 0.0 s
L_{Apeak} > 137.0 dB (Exceedence Counts / Duration) 0 0.0 s
L_{Apeak} > 140.0 dB (Exceedence Counts / Duration) 0 0.0 s

	Ldn	LDay LNight		Lden	LDay LEvening		LNight
		07:00- 22:00-	22:00 07:00		19:00 22:00	07:00 22:00-	
Community Noise	59.1	60.2	46.4	59.3	61.1	50.9	46.4
L_{Ceq}	63.5 dB						
L_{Aeq}	58.3 dB						
L_{Ceq} - L_{Aeq}	5.2 dB						
L_{Al_{eq}}	59.0 dB						
L_{Aeq}	58.3 dB						
L_{Al_{eq}} - L_{Aeq}	0.7 dB						
# Overloads	0						
Overload Duration	0.0 s						