

Appendix E:
Noise Supporting Information

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Summary

Filename LxT_Data.056
Serial Number 4397
Model SoundTrack LxT®
Firmware Version 2.301

User

Location

Job Description

Note

Measurement Description

Start 01/09/2019 15:33:26
Stop 01/10/2019 15:52:36
Duration 1 Day 00:19:10.4
Run Time 1 Day 00:19:10.4
Pause 0:00:00.0

Pre Calibration 01/09/2019 15:30:08

Post Calibration None

Calibration Deviation ---

Overall Settings

RMS Weight A Weighting

Peak Weight A Weighting

Detector Slow

Preamp PRMLxT2L

Microphone Correction Off

Integration Method Linear

Overload 124.6 dB

Table with 4 columns: Metric, A, C, Z. Rows include Under Range Peak, Under Range Limit, and Noise Floor.

Results

LAeq 61.7 dB

LAE 111.2 dB

EA 14.532 mPa²h

EA8 4.780 mPa²h

EA40 23.902 mPa²h

LApeak (max) 01/09/2019 16:36:23 107.6 dB

LASmax 01/10/2019 13:12:02 92.6 dB

LASmin 01/10/2019 2:15:21 33.4 dB

SEA -99.9 dB

LAS > 85.0 dB (Exceedence Counts / Duration) 7 18.3 s

LAS > 115.0 dB (Exceedence Counts / Duration) 0 0.0 s

LApeak > 135.0 dB (Exceedence Counts / Duration) 0 0.0 s

LApeak > 137.0 dB (Exceedence Counts / Duration) 0 0.0 s

LApeak > 140.0 dB (Exceedence Counts / Duration) 0 0.0 s

Table for Community Noise with columns for LDay, LNight, Lden, LEvening, LNight and values for Ldn, Lden, etc.

LCeq 70.3 dB

LAeq 61.7 dB

LCeq - LAeq 8.5 dB

LAleq 64.2 dB

LAeq 61.7 dB

LAleq - LAeq 2.4 dB

Overloads 0

Overload Duration 0.0 s

Record #	Record Type	Date	Time	LAeq	LApeak	LASmax	LASmin
1	Calibration Change	09/01/2019	15:30:08	0.0	0.0	0.0	0.0
2	Run	09/01/2019	15:33:26	0.0	0.0	0.0	0.0
3		09/01/2019	15:33:26	62.7	103.4	75.8	44.9
4		09/01/2019	16:00:00	65.1	107.6	89.1	45.5
5		09/01/2019	17:00:00	65.6	95.0	80.8	47.3
6		09/01/2019	18:00:00	63.0	93.9	80.6	45.0
7		09/01/2019	19:00:00	60.9	91.7	77.4	44.4
8		09/01/2019	20:00:00	60.1	92.6	77.7	41.6
9		09/01/2019	21:00:00	59.2	98.3	83.4	39.6
10		09/01/2019	22:00:00	58.0	96.0	81.2	40.3
11		09/01/2019	23:00:00	56.1	91.3	74.2	36.5
12		10/01/2019	00:00:00	49.8	88.7	72.2	36.2
13		10/01/2019	01:00:00	51.4	87.8	74.9	35.6
14		10/01/2019	02:00:00	53.0	94.4	80.7	33.4
15		10/01/2019	03:00:00	55.3	88.4	79.0	37.9
16		10/01/2019	04:00:00	57.3	94.4	79.4	42.7
17		10/01/2019	05:00:00	58.5	90.5	77.6	44.0
18		10/01/2019	06:00:00	60.2	95.0	83.4	43.9
19		10/01/2019	07:00:00	63.8	100.3	85.3	47.5
20		10/01/2019	08:00:00	63.9	97.5	83.6	48.3
21		10/01/2019	09:00:00	61.7	95.4	83.1	38.6
22		10/01/2019	10:00:00	62.8	104.7	87.8	37.4
23		10/01/2019	11:00:00	62.5	94.4	83.3	36.9
24		10/01/2019	12:00:00	63.0	98.0	85.0	37.8
25		10/01/2019	13:00:00	64.7	103.4	92.6	36.6
26		10/01/2019	14:00:00	63.6	99.1	83.4	37.9
27		10/01/2019	15:00:00	64.1	99.1	86.3	39.1
28	Stop	10/01/2019	15:52:36	0.0	0.0	0.0	0.0

TABLE Existing-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/16/2019
ROADWAY SEGMENT: Oakley Road - Live Oak Avenue to Project Driveway
NOTES: Oakley II - Gonsalves - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3600 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	----	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.31

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	50.4	108.0

TABLE Existing-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/16/2019
ROADWAY SEGMENT: Oakley Road - Project Driveway to Empire Avenue
NOTES: Oakley II - Gonsalves - Existing

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 3800 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.47

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	54.9	113.1

TABLE Existing + Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/16/2019

ROADWAY SEGMENT: Oakley Road - Live Oak Avenue to Project Driveway

NOTES: Oakley II - Gonsalves - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.77

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	54.1	115.9

TABLE Existing + Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/16/2019
ROADWAY SEGMENT: Oakley Road - Project Driveway to Empire Avenue
NOTES: Oakley II - Gonsalves - Existing + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 4000 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	---	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 58.69

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	56.6	117.0

TABLE Background-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/16/2019
ROADWAY SEGMENT: Oakley Road - Live Oak Avenue to Project Driveway
NOTES: Oakley II - Gonsalves - Background

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5100 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES	
DAY	NIGHT
---	-----
AUTOS	
88.08	9.34
M-TRUCKS	
1.65	0.19
H-TRUCKS	
0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.82

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	63.5	136.2

TABLE Background-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/16/2019
ROADWAY SEGMENT: Oakley Road - Project Driveway to Empire Avenue
NOTES: Oakley II - Gonsalves - Background

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5200 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	----	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 59.83

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	66.4	138.8

TABLE Background + Project-01
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/16/2019

ROADWAY SEGMENT: Oakley Road - Live Oak Avenue to Project Driveway

NOTES: Oakley II - Gonsalves - Background + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5500 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	----	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 6 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 61.15

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn			
70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	66.7	143.2

TABLE Background + Project-02
FHWA ROADWAY NOISE LEVEL ANALYSIS

RUN DATE: 05/16/2019
ROADWAY SEGMENT: Oakley Road - Project Driveway to Empire Avenue
NOTES: Oakley II - Gonsalves - Background + Project

* * ASSUMPTIONS * *

AVERAGE DAILY TRAFFIC: 5500 SPEED (MPH): 35 GRADE: .5

TRAFFIC DISTRIBUTION PERCENTAGES

	DAY	NIGHT
	----	-----
AUTOS	88.08	9.34
M-TRUCKS	1.65	0.19
H-TRUCKS	0.66	0.08

ACTIVE HALF-WIDTH (FT): 18 SITE CHARACTERISTICS: SOFT

* * CALCULATED NOISE LEVELS * *

Ldn AT 50 FT FROM NEAR TRAVEL LANE CENTERLINE (dB) = 60.08

DISTANCE (FEET) FROM ROADWAY CENTERLINE TO Ldn

70 Ldn	65 Ldn	60 Ldn	55 Ldn
-----	-----	-----	-----
0.0	0.0	68.7	144.0
