

# Appendix D

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## **Noise Supporting Information**

- D1 Construction Noise Model Output
- D2 Traffic Noise Model Output
- D3 Calculations of Long-Term Noise Metrics
- D4 Sound Level Meter Reports



# **D1 Construction Noise Model Output**





\*\*\*\* Receptor #2 \*\*\*\*

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Riordan	Residential	57.0	50.0	50.0

Equipment

Estimated Shielding Description (dBA)	Device	Usage (%)	Spec	Actual	Receptor
			Lmax (dBA)	Lmax (dBA)	Distance (feet)
Mounted Impact Hammer (hoe ram) 0.0	Yes	20	90.3	90.3	80.0
Mounted Impact Hammer (hoe ram) 0.0	Yes	20	90.3	90.3	80.0

Results

(dBA)	Noise Limit Exceedance (dBA)						Noise Limits	
	Night		Day		Evening		Day Night	Evening
	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Mounted Impact Hammer (hoe ram) N/A	N/A	N/A	N/A	N/A	86.2	79.2	N/A	N/A
Mounted Impact Hammer (hoe ram) N/A	N/A	N/A	N/A	N/A	86.2	79.2	N/A	N/A
Total	N/A	N/A	N/A	N/A	86.2	82.2	N/A	N/A

\*\*\*\* Receptor #3 \*\*\*\*

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night

1100 Ocean Residential 60.0 60.0 50.0

Equipment

Estimated Shielding Description (dBA)	Impact Device	Usage (%)	Spec	Actual	Receptor
			Lmax (dBA)	Lmax (dBA)	Distance (feet)
Mounted Impact Hammer (hoe ram) 0.0	Yes	20		90.3	50.0
Mounted Impact Hammer (hoe ram) 0.0	Yes	20		90.3	50.0

Results

(dBA)		Noise Limit Exceedance (dBA)				Noise Limits			
		Day		Evening		Day Night		Evening	
Equipment		Calculated (dBA)		Night		Night		Evening	
Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Mounted Impact Hammer (hoe ram)	N/A	N/A	N/A	90.3	83.3	N/A	N/A	N/A	N/A
Mounted Impact Hammer (hoe ram)	N/A	N/A	N/A	90.3	83.3	N/A	N/A	N/A	N/A
Total		N/A	N/A	90.3	86.3	N/A	N/A	N/A	N/A

Phase 1 042519  
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 04/25/2019  
Case Description: Balboa Phase 1

\*\*\*\* Receptor #1 \*\*\*\*

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Westwood Park	Residential	60.0	55.0	50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Gradall	No	40		83.4	25.0	0.0
Compactor (ground)	No	20		83.2	25.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening		Lmax
	Day	Evening		Day	Night	Lmax	Leq		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Gradall	N/A	N/A	89.4	85.4	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	N/A	89.3	82.3	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	89.4	87.1	N/A	N/A	N/A	N/A	N/A

\*\*\*\* Receptor #2 \*\*\*\*

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night



Phase 1 042519

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 Riordan Residential 55.0 55.0 50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Gradall	No	40		83.4	50.0	0.0
Compactor (ground)	No	20		83.2	50.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Night	Day	Calculated (dBA)		Day		Evening		Lmax
		Evening	Night	Night	Evening			
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Gradall			83.4	79.4	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)			83.2	76.2	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		83.4	81.1	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*\*\*\* Receptor #3 \*\*\*\*

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
1100 Ocean	Residential	60.0	55.0	50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
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Phase 1 042519

Gradall	No	40	83.4	50.0	0.0
Compactor (ground)	No	20	83.2	50.0	0.0

Results

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Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening			
	Day	Evening	Day	Night	Day	Night	Day	Night	Day	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Gradall	N/A	N/A	N/A	83.4	79.4	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	N/A	N/A	83.2	76.2	N/A	N/A	N/A	N/A	N/A
	Total			83.4	81.1	N/A	N/A	N/A	N/A	N/A

Phase 2 042519  
Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 04/25/2019  
Case Description: Balboa Phase 2

\*\*\*\* Receptor #1 \*\*\*\*

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Westwood Park	Residential	60.0	55.0	50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Gradall	No	40		83.4	25.0	0.0
Compactor (ground)	No	20		83.2	25.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening		Lmax
	Day	Evening	Evening	Day	Night	Lmax	Leq		
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Gradall	N/A	N/A	89.4	85.4	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	N/A	89.3	82.3	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	89.4	87.1	N/A	N/A	N/A	N/A	N/A

\*\*\*\* Receptor #2 \*\*\*\*

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night

Phase 2 042519

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 Riordan Residential 55.0 55.0 50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Gradall	No	40		83.4	50.0	0.0
Compactor (ground)	No	20		83.2	50.0	0.0

Results

Noise Limits (dBA)

Noise Limit Exceedance (dBA)

Night	Day	Calculated (dBA)		Day		Evening		Lmax
		Evening	Night	Night	Evening			
Equipment	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Gradall			83.4	79.4	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Compactor (ground)			83.2	76.2	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Total		83.4	81.1	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

\*\*\*\* Receptor #3 \*\*\*\*

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
1100 Ocean	Residential	60.0	55.0	50.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
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Phase 2 042519

Gradall	No	40	83.4	80.0	0.0
Compactor (ground)	No	20	83.2	80.0	0.0

Results

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Noise Limit Exceedance (dBA)

Noise Limits (dBA)

Night	Calculated (dBA)				Day		Evening			
	Day	Evening	Day	Night	Day	Night	Day	Night	Day	
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax
Gradall	N/A	N/A	N/A	79.3	75.3	N/A	N/A	N/A	N/A	N/A
Compactor (ground)	N/A	N/A	N/A	79.1	72.2	N/A	N/A	N/A	N/A	N/A
	Total			79.3	77.0	N/A	N/A	N/A	N/A	N/A



## **D2 Traffic Noise Model Output**





Balboa Reservoir Roadway Noise Analysis

**Existing**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA					
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT											
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT														
F. Kahlo Ocean Cloud	1179	97	1143.6	2	23.58	1	11.79	25	40	25	40	25	40	60.7	55.5	60.1	64.1	40	59.8	12.1	39.7
F. Kahlo C. Coll N. Judson	914	97	886.58	2	18.28	1	9.14	25	40	25	40	25	40	59.6	54.4	59.0	63.0	40	58.7	9.4	30.8
Lee Ocean Site	167	97	161.99	2	3.34	1	1.67	25	40	25	40	25	40	52.2	47.0	51.6	55.6	40	51.3	1.7	5.6
Lee Ocean Holoway	166	97	161.02	2	3.32	1	1.66	25	40	25	40	25	40	52.2	47.0	51.6	55.6	40	51.3	1.7	5.6
Plymouth Ocean S.Wood	177	97	171.69	2	3.54	1	1.77	25	40	25	40	25	40	52.4	47.2	51.9	55.8	40	51.6	1.8	6.0
City Coll N F. Kahlo Site	323	97	313.31	2	6.46	1	3.23	25	40	25	40	25	40	55.1	49.9	54.5	58.4	40	54.2	3.3	10.9
Judson F. Kahlo Genesee	670	97	649.9	2	13.4	1	6.7	25	40	25	40	25	40	58.2	53.0	57.7	61.6	40	57.4	6.9	22.6
Ocean Plymouth Miramar	1680	97	1629.6	2	33.6	1	16.8	25	40	25	40	25	40	62.2	57.0	61.7	65.6			17.2	56.6
Ocean F. Kahlo I-280	1870	97	1813.7	2	37.4	1	18.7	25	40	25	40	25	40	62.7	57.5	62.1	66.1			19.2	62.9

Assumptions: PM peak hour traffic data from Kittleson

**Existing + Developer's Project**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA					
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT											
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT														
F. Kahlo Ocean Cloud	1179	97	1143.6	2	23.58	1	11.79	25	40	25	40	25	40	60.7	55.5	60.1	64.1	40	59.8	12.1	39.7
F. Kahlo C. Coll N. Judson	997	97	967.09	2	19.94	1	9.97	25	40	25	40	25	40	60.0	54.8	59.4	63.3	40	59.1	10.2	33.6
Lee Ocean Site	387	97	375.39	2	7.74	1	3.87	25	40	25	40	25	40	55.8	50.6	55.3	59.2	40	55.0	4.0	13.0
Lee Ocean Holoway	209	97	202.73	2	4.18	1	2.09	25	40	25	40	25	40	53.2	48.0	52.6	56.6	40	52.3	2.1	7.0
Plymouth Ocean S.Wood	177	97	171.69	2	3.54	1	1.77	25	40	25	40	25	40	52.4	47.2	51.9	55.8	40	51.6	1.8	6.0
City Coll N F. Kahlo Site	368	97	356.96	2	7.36	1	3.68	25	40	25	40	25	40	55.6	50.4	55.1	59.0	40	54.7	3.8	12.4
Judson F. Kahlo Genesee	700	97	679	2	14	1	7	25	40	25	40	25	40	58.4	53.2	57.9	61.8	40	57.5	7.2	23.6

Assumptions: PM peak hour traffic data from Kittleson

**Existing + Additional Housing Scenario**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA					
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT											
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT														
F. Kahlo Ocean Cloud	1179	97	1143.6	2	23.58	1	11.79	25	40	25	40	25	40	60.7	55.5	60.1	64.1	40	59.8	12.1	39.7
F. Kahlo C. Coll N. Judson	1063	97	1031.1	2	21.26	1	10.63	25	40	25	40	25	40	60.2	55.0	59.7	63.6	40	59.4	10.9	35.8
Lee Ocean Site	434	97	420.98	2	8.68	1	4.34	25	40	25	40	25	40	56.3	51.1	55.8	59.7	40	55.5	4.5	14.6
Lee Ocean Holoway	226	97	219.22	2	4.52	1	2.26	25	40	25	40	25	40	53.5	48.3	52.9	56.9	40	52.6	2.3	7.6
Plymouth Ocean S.Wood	177	97	171.69	2	3.54	1	1.77	25	40	25	40	25	40	52.4	47.2	51.9	55.8	40	51.6	1.8	6.0
City Coll N F. Kahlo Site	479	97	464.63	2	9.58	1	4.79	25	40	25	40	25	40	56.8	51.6	56.2	60.2	40	55.9	4.9	16.1
Judson F. Kahlo Genesee	733	97	711.01	2	14.66	1	7.33	25	40	25	40	25	40	58.6	53.4	58.1	62.0	40	57.7	7.5	24.7

Assumptions: PM peak hour traffic data from Kittleson

**Cumulative + Developer's Project**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA					
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT											
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT														
F. Kahlo Ocean Cloud	1644	97	1594.6	2	32.88	1	16.44	25	40	25	40	25	40	62.1	56.9	61.6	65.5	40	61.2	16.9	55.3
F. Kahlo C. Coll N. Judson	1756	97	1703.1	2	35.11	1	17.56	25	40	25	40	25	40	62.4	57.2	61.8	65.8	40	61.5	18.0	59.1
Lee Ocean Site	359	97	348.41	2	7.184	1	3.592	25	40	25	40	25	40	55.5	50.3	55.0	58.9	40	54.6	3.7	12.1
Lee Ocean Holoway	132	97	127.58	2	2.631	1	1.315	25	40	25	40	25	40	51.2	46.0	50.6	54.5	40	50.3	1.3	4.4
Plymouth Ocean S.Wood	152	97	146.99	2	3.031	1	1.515	25	40	25	40	25	40	51.8	46.6	51.2	55.2	40	50.9	1.6	5.1
City Coll N F. Kahlo Site	509	97	493.48	2	10.17	1	5.087	25	40	25	40	25	40	57.0	51.8	56.5	60.4	40	56.2	5.2	17.1
Judson F. Kahlo Genesee	872	97	845.44	2	17.43	1	8.716	25	40	25	40	25	40	59.4	54.2	58.8	62.8	40	58.5	8.9	29.3
Ocean Plymouth Miramar	1344	97	1303.5	2	26.88	1	13.44	25	40	25	40	25	40	61.3	56.0	60.7	64.6	40	60.4	13.8	45.2
Ocean F. Kahlo I-280	1870	97	1813.7	2	37.4	1	18.7	25	40	25	40	25	40	62.7	57.5	62.1	66.1	40	61.8	19.2	62.9

Assumptions: PM peak hour traffic data from Kittleson

**Cumulative + Additional Housing Scenario**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center)	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA					
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT											
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT														
F. Kahlo Ocean Cloud	1644	97	1594.6	2	32.88	1	16.44	25	40	25	40	25	40	62.1	56.9	61.6	65.5	40	61.2	16.9	55.3
F. Kahlo C. Coll N. Judson	1795	97	1740.9	2	35.89	1	17.95	25	40	25	40	25	40	62.5	57.3	61.9	65.9	40	61.6	18.4	60.4
Lee Ocean Site	425	97	412.43	2	8.504	1	4.252	25	40	25	40	25	40	56.3	51.0	55.7	59.6	40	55.4	4.4	14.3
Lee Ocean Holoway	148	97	143.1	2	2.951	1	1.475	25	40	25	40	25	40	51.7	46.5	51.1	55.0	40	50.8	1.5	5.0
Plymouth Ocean S.Wood	152	97	146.99	2	3.031	1	1.515	25	40	25	40	25	40	51.8	46.6	51.2	55.2	40	50.9	1.6	5.1
City Coll N F. Kahlo Site	548	97	531.31	2	10.95	1	5.477	25	40	25	40	25	40	57.4	52.1	56.8	60.7	40	56.5	5.6	18.4
Judson F. Kahlo Genesee	888	97	860.96	2	17.75	1	8.876	25	40	25	40	25	40	59.5	54.2	58.9	62.8	40	58.6	9.1	29.9
Ocean Plymouth Miramar	1346	97	1305.4	2	26.92	1	13.46	25	40	25	40	25	40	61.3	56.1	60.7	64.6	40	60.4	13.8	45.3
Ocean F. Kahlo I-280	1903	97	1845.7	2	38.06	1	19.03	25	40	25	40	25	40	62.8	57.6	62.2	66.1	40	61.9	19.5	64.1

Assumptions: PM peak hour traffic data from Kittleson

**Existing + Construction Trucks**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center)	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA					
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT											
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT														
F. Kahlo Ocean Cloud	1201	96	1153	1	12.01	3	36.03	25	40	25	40	25	40	60.7	52.5	65.0	66.5	40	62.3	21.3	70.0
City Coll N F. Kahlo Site	345	92	317.4	1	3.45	7	24.15	25	40	25	40	25	40	55.1	47.1	63.2	63.9	40	59.7	11.8	38.6
Trucks Alone	22	0.1	0.022	0	0.022	100	21.96	25	40	25	40	25	40	13.5	25.2	62.8	62.8	30	59.8	9.1	29.8

Assumptions: PM peak hour traffic data from Kittleson

**Existing**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center)	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA						
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT												
Calveno Peak																						
from: to:		%	Auto	%	MT	%	HT															
Plymouth Ocean S.Wood	177	97	171.69	2	3.54	1	1.77	25	40	25	40	25	40	52.4	47.2	51.9	55.8	40	51.6	1.8	6.0	
Plymouth San Ramc Wild wd																						

Assumptions: PM p

**Existing + Developer's Project Alternative C**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center)	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA					
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT											
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT														
Plymouth San Ramc Wild wd	222	97	215.34	2	4.44	1	2.22	25	40	25	40	25	40	53.4	48.2	52.9	56.8	40	52.6	2.3	7.5

Assumptions: PM peak hour traffic data from Kittleson

**Existing + Additional Housing Alternative C**

ROAD SEGMENT	TOTAL # VEHICLES	VEHICLE TYPE %			VEHICLE SPEED				NOISE LEVEL (dBA)			CALCULATED NOISE LEVEL 15 meters from roadway center)	Receptor Dist. from Roadway	Adjusted Noise Level	Distance from Roadway to 65 dBA	Distance from Roadway to 65 dBA					
		Auto	MT	HT	Auto k/h	MT k/h	HT k/h	Auto	MT	HT											
Calveno Peak																					
from: to:		%	Auto	%	MT	%	HT														
Plymouth San Ramc Wild wd	236	97	228.92	2	4.72	1	2.36	25	40	25	40	25	40	53.7	48.5	53.1	57.1	40	52.8	2.4	7.9

Assumptions: PM peak hour traffic data from Kittleson

## **D3    Calculations of Long-Term Noise Metrics**



**Calculated Ldn from long-term noise monitoring data  
LT-1 Northwest Project Site**

	TIME	dB	Remove LOG	10 dBA Penalized Values	5 dBA Penalized Values
12/6/2018	Midnight 0 / 24	48.0		63457	200667
	am 1:00	100 46.6		46105	145798
	2:00	200 48.6		72494	229246
	3:00	300 46.7		47008	148651
	4:00	400 50.0		99714	315323
	5:00	500 52.1		162803	514829
	6:00	600 53.8		238244	753394
	7:00	700 55.4		347946	1100302
	8:00	800 56.1		405501	1282307
	9:00	900 57.2		521395	1648796
	10:00	1000 55.5		352399	1114384
1/27/1998	11:00	1100 56.0		399390	1262982
	12:00	1200 53.3		215828	682508
	pm 1:00	1300 52.4		175491	554951
	2:00	1400 52.9		196716	622070
	3:00	1500 53.2		210515	665707
	4:00	1600 55.1		319906	1011631
	5:00	1700 52.7		185612	586955
	6:00	1800 52.2		165362	522922
	7:00	1900 50.9		122585	387648
	8:00	2000 51.7		146689	463871
	9:00	2100 49.8		96521	305226
	10:00	2200 52.1		162747	514652
	pm 11:00	2300 51.7		148318	469023

**Leq Morning Peak Hour 7:00-10:00 a.m.**

**56** dBA

**Leq Evening Peak Hour 4:00-8:00 p.m.**

**53** dBA

**Leq Nighttime 10:00 pm-7:00 a.m. (not penalized)**

**51** dBA

**Leq Daytime 7:00 am-10:00 p.m.**

**54** dBA

**Leq 24-Hour**

**53** dBA

**Ldn: 10 dBA penalty for noise between 10:00 p.m. and 7:00 a.m.**

**58** dBA

**CNEL: 5 dBA penalty for noise between 7:00p.m. and 10:00 p.m.,  
and 10 dBA penalty for noise between  
10:00 p.m. and 7:00 a.m.**

**58** dBA

**CNEL - Ldn 0.23427183**

**Calculated Ldn from long-term noise monitoring data  
LT-2 Southwest Project Stie**

	TIME	dBA	Remove LOG	10 dBA Penalized Values	5 dBA Penalized Values
1/23/2019	Midnight 0 / 24	50.9		123027	389045
	am 1:00	100 49.4		87096	275423
	2:00	200 49.3		85114	269153
	3:00	300 51.3		134896	426580
	4:00	400 54.5		281838	891251
	5:00	500 53.1		204174	645654
	6:00	600 53.2		208930	660693
	7:00	700 54.4		275423	870964
	8:00	800 53.1		204174	645654
	9:00	900 53.3		213796	676083
1/22/2019	10:00	1000 50.8		120226	380189
	11:00	1100 54.4		275423	870964
	12:00	1200 50.0		100000	316228
	pm 1:00	1300 55.6		363078	1148154
	2:00	1400 50.1		102329	323594
	3:00	1500 53.2		208930	660693
	4:00	1600 52.3		169824	537032
	5:00	1700 50.9		123027	389045
	6:00	1800 50.1		102329	323594
	7:00	1900 51.7		147911	467735
	8:00	2000 52.2		165959	524807
	9:00	2100 52.1		162181	512861
	10:00	2200 52.3		169824	537032
	pm 11:00	2300 51.2		131826	416869

**Leq Morning Peak Hour 7:00-10:00 a.m.**

**54** dBA

**Leq Evening Peak Hour 4:00-8:00 p.m.**

**51** dBA

**Leq Nighttime 10:00 pm-7:00 a.m. (not penalized)**

**52** dBA

**Leq Daytime 7:00 am-10:00 p.m.**

**53** dBA

**Leq 24-Hour**

**52** dBA

**Ldn: 10 dBA penalty for noise between 10:00 p.m. and 7:00 a.m.**

**59** dBA

**CNEL: 5 dBA penalty for noise between 7:00p.m. and 10:00 p.m.,  
and 10 dBA penalty for noise between  
10:00 p.m. and 7:00 a.m.**

**59** dBA

**CNEL - Ldn 0.25528517**

**Calculated Ldn from long-term noise monitoring data  
LT-3 Plymouth Avenue North of Greenwood Ave.**

	TIME	dB	Remove LOG	10 dBA Penalized Values	5 dBA Penalized Values
1/23/2019	Midnight 0 / 24	49.4	87023	870226	275190
	am 1:00	100 44.4	27549	275486	87116
	2:00	200 43.3	21148	211480	66876
	3:00	300 40.2	10453	104529	33055
	4:00	400 50.2	105080	1050800	332292
	5:00	500 60.2	1049008	10490085	3317256
	6:00	600 56.9	486725	4867254	1539161
	7:00	700 62.8	1899818	18998180	6007752
	8:00	800 60.0	999450	9994498	3160538
	9:00	900 59.0	795337	7953367	2515075
1/22/2019	10:00	1000 54.8	304997	3049966	964484
	11:00	1100 54.9	305868	3058680	967239
	12:00	1200 61.9	1547729	15477293	4894350
	pm 1:00	1300 56.8	480873	4808726	1520653
	2:00	1400 57.0	495704	4957035	1567552
	3:00	1500 56.7	470538	4705383	1487973
	4:00	1600 59.8	946963	9469630	2994560
	5:00	1700 57.7	592254	5922540	1872872
	6:00	1800 57.1	509537	5095373	1611298
	7:00	1900 56.2	420534	4205339	1329845
	8:00	2000 54.0	250087	2500869	790844
	9:00	2100 52.9	196070	1960699	620028
	10:00	2200 47.7	59537	595366	188271
	pm 11:00	2300 47.3	53495	534949	169166

**Leq Morning Peak Hour 7:00-10:00 a.m.**

**61** dBA

**Leq Evening Peak Hour 4:00-8:00 p.m.**

**58** dBA

**Leq Nighttime 10:00 pm-7:00 a.m. (not penalized)**

**53** dBA

**Leq Daytime 7:00 am-10:00 p.m.**

**58** dBA

**Leq 24-Hour**

**57** dBA

**Ldn: 10 dBA penalty for noise between 10:00 p.m. and 7:00 a.m.**

**61** dBA

**CNEL: 5 dBA penalty for noise between 7:00p.m. and 10:00 p.m.,  
and 10 dBA penalty for noise between  
10:00 p.m. and 7:00 a.m.**

**61** dBA

**CNEL - Ldn 0.27000391**





## **D4 Sound Level Meter Reports**



## Summary

File Name on Meter	LxT_Data.050
File Name on PC	SLM_0004337_LxT_Data_050.00.ldbin
Serial Number	0004337
Model	SoundTrack LxT®
Firmware Version	2.302
User	C Sanchez
Location	Balboa Reservoir Location LT-1
Job Description	Balboa Reservoir
Note	

## Measurement

Description	
Start	2018-12-05 15:36:06
Stop	2018-12-07 09:37:19
Duration	42:01:12.297
Run Time	42:01:12.297
Pause	00:00:00.0
Pre Calibration	2018-12-05 13:53:05
Post Calibration	None
Calibration Deviation	---

## Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRMLxT2B		
Microphone Correction	Off		
Integration Method	Exponential		
Overload	142.5 dB		
	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	98.8	95.8	<b>100.8</b> dB
Under Range Limit	<b>47.8</b>	45.8	53.8 dB
Noise Floor	34.7	35.3	42.9 dB

## Results

LAseq	53.3 dB		
LASE	105.1 dB		
EAS	3.562 mPa <sup>2</sup> h		
EAS8	678.206 μPa <sup>2</sup> h		
EAS40	3.391 mPa <sup>2</sup> h		
LZspeak (max)	2018-12-07 09:37:10	110.0 dB	
LASmax	2018-12-07 08:04:08	80.8 dB	
LASmin	2018-12-06 01:30:43	40.4 dB	
SEA	-99.9 dB		
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LCseq	63.1 dB		
LAseq	53.3 dB		
LCseq - LAseq	9.8 dB		
LAlseq	56.0 dB		
LAeq	53.3 dB		
LAlseq - LAeq	2.7 dB		

Record #	Record Type	Date	Time	LASeq	LZpeak	LASmax	LASmin	OVLD	OBA OVLD	Marker
1	Run	2018-12-05	15:36:06							
2		2018-12-05	15:36:06	55.8	108.7	76.4	49.6	No	No	
3		2018-12-05	16:36:06	53.6	100.3	62.9	49.7	No	No	
4		2018-12-05	17:36:06	54.8	101.8	69.2	48.9	No	No	
5		2018-12-05	18:36:06	54.0	102.0	65.9	49.5	No	No	
6		2018-12-05	19:36:06	53.9	100.4	65.9	50.4	No	No	
7		2018-12-05	20:36:06	53.2	97.5	60.8	50.2	No	No	
8		2018-12-05	21:36:06	53.0	100.2	65.6	49.3	No	No	
9		2018-12-05	22:36:06	51.0	95.8	62.7	45.4	No	No	
10		2018-12-05	23:36:06	51.3	97.3	66.4	45.5	No	No	
11		2018-12-06	0:36:06	48.0	95.0	63.7	40.4	No	No	
12		2018-12-06	1:36:06	46.6	94.7	60.8	41.5	No	No	
13		2018-12-06	2:36:06	48.6	96.4	67.2	41.7	No	No	
14		2018-12-06	3:36:06	46.7	99.5	56.6	42.9	No	No	
15		2018-12-06	4:36:06	50.0	97.8	59.8	45.7	No	No	
16		2018-12-06	5:36:06	52.1	89.4	68.1	46.5	No	No	
17		2018-12-06	6:36:06	53.8	97.1	63.2	49.1	No	No	
18		2018-12-06	7:36:06	55.4	96.2	76.7	48.1	No	No	
19		2018-12-06	8:36:06	56.1	102.9	67.6	48.3	No	No	
20		2018-12-06	9:36:06	57.2	107.4	70.4	49.8	No	No	
21		2018-12-06	10:36:06	55.5	105.2	70.9	45.3	No	No	
22		2018-12-06	11:36:06	56.0	104.0	72.1	45.5	No	No	
23		2018-12-06	12:36:06	53.3	99.9	70.1	44.6	No	No	
24		2018-12-06	13:36:06	52.4	97.8	67.6	43.3	No	No	
25		2018-12-06	14:36:06	52.9	94.0	69.6	44.1	No	No	
26		2018-12-06	15:36:06	53.2	95.6	72.8	43.1	No	No	
27		2018-12-06	16:36:06	55.1	92.8	76.8	44.3	No	No	
28		2018-12-06	17:36:06	52.7	86.7	66.6	46.8	No	No	
29		2018-12-06	18:36:06	52.2	89.9	65.8	47.5	No	No	
30		2018-12-06	19:36:06	50.9	86.5	65.3	46.4	No	No	
31		2018-12-06	20:36:06	51.7	88.2	65.8	45.8	No	No	
32		2018-12-06	21:36:06	49.8	89.8	66.2	43.7	No	No	
33		2018-12-06	22:36:06	52.1	87.5	68.3	45.3	No	No	
34		2018-12-06	23:36:06	51.7	93.2	62.9	46.7	No	No	
35		2018-12-07	0:36:06	48.3	94.9	59.1	43.4	No	No	
36		2018-12-07	1:36:06	51.1	91.7	74.7	41.8	No	No	
37		2018-12-07	2:36:06	48.0	93.0	64.9	40.9	No	No	
38		2018-12-07	3:36:06	47.5	92.6	64.8	42.2	No	No	
39		2018-12-07	4:36:06	50.6	93.6	61.2	45.2	No	No	
40		2018-12-07	5:36:06	52.8	86.1	62.5	48.6	No	No	
41		2018-12-07	6:36:06	54.8	90.7	66.6	51.4	No	No	
42		2018-12-07	7:36:06	57.5	95.5	80.8	48.6	No	No	
43		2018-12-07	8:36:06	55.4	95.7	74.2	47.7	No	No	
44		2018-12-07	9:36:06	66.4	110.0	79.6	50.7	No	No	
45	Stop	2018-12-07	9:37:19							

METROSONICS db-308 SN 3402 V3.0 4/88  
REPORT PRINTED 1/23/19 @ 11:28:14

DOUBLING RATE: 3dB FILTER: A WGH  
DOSE CRITERION: 90dB RESPONSE: SLOW  
PRE-CALIBRATION TIME: 1/22/19 @ 7:29:34  
PRE-CALIBRATION RANGE: 40.4dB TO 140.4dB  
NO POST-CALIBRATION

CALIBRATOR TYPE & SERIAL # : \_\_\_\_\_

CALIBRATOR CALIBRATION DATE: \_\_\_\_\_

TEST BEGAN 1/22/19 @ 10:00:03  
TEST LENGTH: 1DAYS 0:15:42  
TEST ENDED 1/23/19 @ 10:15:45  
TEST INTERRUPTIONS: 1

Lav = 52.5dB Lav ( 80)= 41.2dB  
SEL =101.8dB Lav ( 90)= 40.4dB  
Lmax = 81.2dB ON 1/22/19 @ 15:37:49  
Lpk =136.6dB ON 1/22/19 @ 11:11:10  
TIME OVER 115dB 0D 0:00:00.00

8 HR DOSE ( 80dB CUTOFF)= 0.00%  
8 HR DOSE ( 90dB CUTOFF)= 0.00%

"TIME HISTORY REPORT

"# OF PERIODS: 25 MODE: CONTINUOUS  
"PERIOD LENGTH: 1:00:00  
"TIME HISTORY CUTOFF: NONE  
"Ln(1): 10.0% Ln(2): 90.0%

"DATE: 1/22/19 TAG #: 0

"INT"	"TIME"	"Lav"	"Lmx"	"Lpk"	"L1"	"L2"
1	"10:00:03"	50.8	73.8	"UNR"	53	42
2	"11:00:03"	54.4	75.6	136.6	58	44
3	"12:00:03"	50.0	72.1	"UNR"	52	42
4	"13:00:03"	55.6	80.7	"UNR"	53	42
5	"14:00:03"	50.1	71.5	"UNR"	52	41
6	"15:00:03"	53.2	81.2	"UNR"	53	42
7	"16:00:03"	52.3	78.8	"UNR"	52	43
8	"17:00:03"	50.9	73.2	"UNR"	52	43
9	"18:00:03"	50.1	70.6	"UNR"	52	43
10	"19:00:03"	51.7	74.0	"UNR"	54	42
11	"20:00:03"	52.2	73.0	126.9	54	45

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12	"21:00:03"	52.1	66.8	119.8	54	47
13	"22:00:03"	52.3	68.8	122.6	54	47
14	"23:00:03"	51.2	65.2	130.0	53	46
15	" 0:00:03"	50.9	64.7	125.4	52	47
16	" 1:00:03"	49.4	66.2	121.8	50	45
17	" 2:00:03"	49.3	67.1	120.9	50	44
18	" 3:00:03"	51.3	68.5	121.4	53	45
19	" 4:00:03"	54.5	67.6	127.8	58	46
20	" 5:00:03"	53.1	68.5	128.4	56	47
21	" 6:00:03"	53.2	73.3	128.1	54	49
22	" 7:00:03"	54.4	66.7	128.8	56	50
23	" 8:00:03"	53.1	66.9	128.1	55	50
24	" 9:00:03"	53.3	68.6	131.2	55	49
25	"10:00:03"	58.2	80.7	131.2	54	49

\*\* AMPLITUDE DISTRIBUTION REPORT \*\*

TOTAL SAMPLES = 1397487

dB	SAMPLES	% OF TOTAL
40	13693 *	.98
41	21344 **	1.53
42	31940 **	2.29
43	47932 ***	3.43
44	61644 ****	4.41
45	86145 *****	6.16
46	112904 *****	8.08
47	131603 *****	9.42
48	144856 *****	10.37
49	145062 *****	10.38
50	139428 *****	9.98
51	123145 *****	8.81
52	93866 *****	6.72
53	73173 *****	5.24
54	49383 ****	3.53
55	32914 **	2.36
56	22871 **	1.64
57	17581 *	1.26
58	13551 *	.97
59	10145 *	.73
60	7251 *	.52
61	5513 +	.39
62	3665 +	.26
63	2538 +	.18
64	1591 +	.11
65	960 .	.07
66	742 .	.05

LT-2

67	396 .	.03
68	267 .	.02
69	201 .	.01
70	203 .	.01
71	180 .	.01
72	189 .	.01
73	133 .	.01
74	134 .	.01
75	104 .	.01
76	74 .	.01
77	70 .	.01
78	44	.00
79	25	.00
80	22	.00
81	5	.00

Ln( 0.0) = 81dB  
 Ln(10.0) = 54dB  
 Ln(50.0) = 49dB  
 Ln(99.9) = 40dB

	NO	80.0dB	90.0dB
	CUTOFF	CUTOFF	CUTOFF
Ldod	51.0dB	40.1dB	40.0dB
Losha	50.5dB	40.0dB	40.0dB
Leq(6)	50.2dB	40.0dB	40.0dB

## Summary

File Name on Meter	LxT_Data.057
File Name on PC	SLM_0004337_LxT_Data_057.00.ldbin
Serial Number	0004337
Model	SoundTrack LxT®
Firmware Version	2.302
User	Sanchez
Location	LT-3 Plymouth and Montecito
Job Description	Balboa Reservoir
Note	

## Measurement

Description	
Start	2019-01-22 09:07:01
Stop	2019-01-23 09:59:38
Duration	24:52:36.500
Run Time	24:52:12.500
Pause	00:00:24.0
Pre Calibration	2019-01-22 09:02:23
Post Calibration	None
Calibration Deviation	---

## Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRMLxT2B		
Microphone Correction	Off		
Integration Method	Exponential		
Overload	142.5 dB		
	A	C	Z
Under Range Peak	98.8	95.8	100.8 dB
Under Range Limit	47.8	45.8	53.8 dB
Noise Floor	34.6	35.3	42.9 dB

## Results

LAseq	57.1 dB		
LASE	106.6 dB		
EAS	5.108 mPa²h		
EAS8	1.643 mPa²h		
EAS40	8.216 mPa²h		
LZspeak (max)	2019-01-22 09:07:43	125.1 dB	
LASmax	2019-01-22 12:19:04	93.0 dB	
LASmin	2019-01-23 03:29:24	33.9 dB	
SEA	135.1 dB		
LAS > 85.0 dB (Exceedance Counts / Duration)	5	13.8 s	
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LCseq	68.8 dB		
LAseq	57.1 dB		
LCseq - LAseq	11.7 dB		
LAlseq	61.7 dB		
LAeq	57.1 dB		
LAlseq - LAeq	4.6 dB		



Record #	Record Type	Date	Time	LASeq	LZpeak	LASmax	LASmin	OVLD	OBA OVLD	Marker
1	Calibration Change	2019-01-22	9:02:23							
2	Run	2019-01-22	9:07:01							
3		2019-01-22	9:07:01	63.4	125.1	79.3	38.8	No	No	
4	Pause	2019-01-22	9:14:09							
5	Resume	2019-01-22	9:14:33							
6		2019-01-22	9:14:33	57.7	115.0	81.0	35.8	No	No	
7		2019-01-22	10:14:33	54.8	98.3	75.3	36.1	No	No	
8		2019-01-22	11:14:33	54.9	100.6	75.0	37.0	No	No	
9		2019-01-22	12:14:33	61.9	114.7	93.0	35.7	No	No	
10		2019-01-22	13:14:33	56.8	99.6	80.8	35.7	No	No	
11		2019-01-22	14:14:33	57.0	107.5	82.7	36.4	No	No	
12		2019-01-22	15:14:33	56.7	102.8	76.4	36.5	No	No	
13		2019-01-22	16:14:33	59.8	112.8	88.6	39.0	No	No	
14		2019-01-22	17:14:33	57.7	105.3	78.5	39.3	No	No	
15		2019-01-22	18:14:33	57.1	101.2	82.8	39.7	No	No	
16		2019-01-22	19:14:33	56.2	108.5	84.3	40.6	No	No	
17		2019-01-22	20:14:33	54.0	102.9	78.2	41.0	No	No	
18		2019-01-22	21:14:33	52.9	103.9	77.1	40.9	No	No	
19		2019-01-22	22:14:33	47.7	87.5	65.1	38.2	No	No	
20		2019-01-22	23:14:33	47.3	90.9	65.6	37.6	No	No	
21		2019-01-23	0:14:33	49.4	103.9	79.7	35.3	No	No	
22		2019-01-23	1:14:33	44.4	88.5	65.7	35.0	No	No	
23		2019-01-23	2:14:33	43.3	86.8	70.6	34.0	No	No	
24		2019-01-23	3:14:33	40.2	86.4	58.8	33.9	No	No	
25		2019-01-23	4:14:33	50.2	94.7	76.4	37.6	No	No	
26		2019-01-23	5:14:33	60.2	107.4	87.6	41.7	No	No	
27		2019-01-23	6:14:33	56.9	100.2	79.8	44.1	No	No	
28		2019-01-23	7:14:33	62.8	108.7	88.7	45.6	No	No	
29		2019-01-23	8:14:33	60.0	103.8	81.7	44.0	No	No	
30		2019-01-23	9:14:33	59.0	108.5	79.4	40.8	No	No	
31	Stop	2019-01-23	9:59:38							

## Summary

File Name on Meter	LxT_Data.022
File Name on PC	SLM_0004435_LxT_Data_022.00.ldbin
Serial Number	0004435
Model	SoundTrack LxT®
Firmware Version	2.302
User	Sanchez
Location	ST-1 Rirodan High Boundary
Job Description	Balboa Reservoir
Note	Time set for PDT not PST. Monitoring started at 9:11, not 10:11

## Measurement

### Description

Start	2019-01-23 10:11:35
Stop	2019-01-23 10:26:35
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0

Pre Calibration	2019-01-23 09:24:18
Post Calibration	None
Calibration Deviation	---

## Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRMLxT2B		
Microphone Correction	Off		
Integration Method	Exponential		
Overload	143.0 dB		
	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	99.2	96.2	<b>101.2</b> dB
Under Range Limit	<b>48.2</b>	46.2	54.2 dB
Noise Floor	35.1	35.7	43.3 dB

## Results

LASeq	56.6 dB		
LASE	86.1 dB		
EAS	45.349 $\mu\text{Pa}^2\text{h}$		
EAS8	1.451 $\text{mPa}^2\text{h}$		
EAS40	7.256 $\text{mPa}^2\text{h}$		
LZSpeak (max)	2019-01-23 10:16:04	94.3 dB	
LASmax	2019-01-23 10:19:35	69.0 dB	
LASmin	2019-01-23 10:24:42	49.0 dB	
SEA	-99.9 dB		

LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s

LCSeq	68.9 dB
LASeq	56.6 dB
LCSeq - LASeq	12.4 dB
LAIeq	58.9 dB
LAeq	56.6 dB
LAIeq - LAeq	2.4 dB

Record #	Record Type	Date	Time	LASeq	LZpeak	LASmax	LASmin	OVLD	OBA OVLD	Marker
1	Run	2019-01-23	10:11:35							
2		2019-01-23	10:11:35	55.7	91.1	63.5	51.2	No	No	
3		2019-01-23	10:12:35	56.5	90.3	65.5	50.5	No	No	
4		2019-01-23	10:13:35	58.1	91.0	64.6	53.1	No	No	
5		2019-01-23	10:14:35	56.2	92.5	62.4	50.6	No	No	
6		2019-01-23	10:15:35	55.8	94.3	62.3	50.7	No	No	
7		2019-01-23	10:16:35	57.7	89.8	61.7	52.9	No	No	
8		2019-01-23	10:17:35	55.4	92.2	61.0	50.7	No	No	
9		2019-01-23	10:18:35	57.0	88.1	69.0	51.8	No	No	
10		2019-01-23	10:19:35	59.3	89.2	68.6	52.0	No	No	
11		2019-01-23	10:20:35	55.1	94.1	59.9	50.4	No	No	
12		2019-01-23	10:21:35	55.7	89.5	61.9	51.3	No	No	
13		2019-01-23	10:22:35	58.0	89.2	62.7	51.5	No	No	
14		2019-01-23	10:23:35	55.0	92.4	59.4	50.2	No	No	
15		2019-01-23	10:24:35	55.4	90.0	65.1	49.0	No	No	
16		2019-01-23	10:25:35	54.0	87.8	59.9	49.9	No	No	
17	Stop	2019-01-23	10:26:35							

## Summary

File Name on Meter	LxT_Data.023
File Name on PC	SLM_0004435_LxT_Data_023.00.ldbin
Serial Number	0004435
Model	SoundTrack LxT®
Firmware Version	2.302
User	Sanchez
Location	ST-2 Terminus of Lee Avenue
Job Description	Balboa Reservoir
Note	Time et for PDT not PST. Monitoring started at 9:33, not 10:33.

## Measurement

Description	
Start	2019-01-23 10:33:28
Stop	2019-01-23 10:48:28
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-01-23 09:24:18
Post Calibration	None
Calibration Deviation	---

## Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRMLxT2B		
Microphone Correction	Off		
Integration Method	Exponential		
Overload	143.0 dB		
	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	99.2	96.2	101.2 dB
Under Range Limit	48.2	46.2	54.2 dB
Noise Floor	35.1	35.7	43.3 dB

## Results

LAseq	61.2 dB		
LASE	90.8 dB		
EAS	132.607 $\mu\text{Pa}^2\text{h}$		
EAS8	4.243 $\text{mPa}^2\text{h}$		
EAS40	21.217 $\text{mPa}^2\text{h}$		
LZspeak (max)	2019-01-23 10:47:30	98.4 dB	
LASmax	2019-01-23 10:37:45	77.0 dB	
LASmin	2019-01-23 10:45:56	49.9 dB	
SEA	-99.9 dB		
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LZspeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s	
LCseq	70.6 dB		
LAseq	61.2 dB		
LCseq - LAseq	9.4 dB		
LAIeq	65.9 dB		
LAeq	61.2 dB		
LAIeq - LAeq	4.7 dB		

Record #	Record Type	Date	Time	LASeq	LZpeak	LASmax	LASmin	OVLD	OBA OVLD	Marker
1	Run	2019-01-23	10:33:28							
2		2019-01-23	10:33:28	60.9	90.0	68.0	52.8	No	No	
3		2019-01-23	10:34:28	58.9	94.0	66.8	50.1	No	No	
4		2019-01-23	10:35:28	62.2	88.9	71.5	50.8	No	No	
5		2019-01-23	10:36:28	62.4	90.3	70.1	52.7	No	No	
6		2019-01-23	10:37:28	66.2	91.2	77.0	53.2	No	No	
7		2019-01-23	10:38:28	58.3	87.2	65.3	52.0	No	No	
8		2019-01-23	10:39:28	57.0	86.3	65.9	50.3	No	No	
9		2019-01-23	10:40:28	61.1	84.8	67.3	50.8	No	No	
10		2019-01-23	10:41:28	57.3	89.1	64.2	51.2	No	No	
11		2019-01-23	10:42:28	57.7	92.6	64.5	50.6	No	No	
12		2019-01-23	10:43:28	61.6	92.4	69.0	52.6	No	No	
13		2019-01-23	10:44:28	59.2	92.6	69.2	50.8	No	No	
14		2019-01-23	10:45:28	62.0	86.6	70.4	49.9	No	No	
15		2019-01-23	10:46:28	61.3	95.1	67.5	54.4	No	No	
16		2019-01-23	10:47:28	62.0	98.4	68.9	51.1	No	No	
17	Stop	2019-01-23	10:48:28							

## Summary

File Name on Meter	LxT_Data.021
File Name on PC	SLM_0004435_LxT_Data_021.00.ldbin
Serial Number	0004435
Model	SoundTrack LxT®
Firmware Version	2.302
User	Sanchez
Location	ST-3 SFCC MUD
Job Description	Balboa Reservoir
Note	Time set for PDT not PSD. Monitoring started at 8:50, not 9:50

## Measurement

Description	
Start	2019-01-23 09:50:29
Stop	2019-01-23 10:05:29
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-01-23 09:24:18
Post Calibration	None
Calibration Deviation	---

## Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRMLxT2B		
Microphone Correction	Off		
Integration Method	Exponential		
Overload	143.0 dB		
	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	99.2	96.2	<b>101.2</b> dB
Under Range Limit	<b>48.2</b>	46.2	54.2 dB
Noise Floor	35.1	35.7	43.3 dB

## Results

LASeq	55.1 dB	
LASE	84.7 dB	
EAS	32.464 $\mu\text{Pa}^2\text{h}$	
EAS8	1.039 $\text{mPa}^2\text{h}$	
EAS40	5.194 $\text{mPa}^2\text{h}$	
LZSpeak (max)	2019-01-23 09:58:22	93.6 dB
LASmax	2019-01-23 09:54:43	66.5 dB
LASmin	2019-01-23 09:59:49	50.7 dB
SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s
LCSeq	66.9 dB	
LASeq	55.1 dB	
LCSeq - LASeq	11.8 dB	
LAIeq	56.9 dB	
LAeq	55.1 dB	
LAIeq - LAeq	1.8 dB	

Record #	Record Type	Date	Time	LASeq	LZpeak	LASmax	LASmin	OVLD	OBA OVLD	Marker
1	Run	2019-01-23	9:50:29							
2		2019-01-23	9:50:29	54.2	89.2	56.7	51.2	No	No	
3		2019-01-23	9:51:29	54.1	89.9	58.1	51.8	No	No	
4		2019-01-23	9:52:29	54.9	90.2	57.6	53.0	No	No	
5		2019-01-23	9:53:29	54.4	87.7	60.7	52.4	No	No	
6		2019-01-23	9:54:29	59.3	88.5	66.5	52.5	No	No	
7		2019-01-23	9:55:29	54.8	89.8	61.5	52.5	No	No	
8		2019-01-23	9:56:29	56.9	88.1	63.2	53.3	No	No	
9		2019-01-23	9:57:29	54.2	93.6	58.2	51.8	No	No	
10		2019-01-23	9:58:29	54.3	86.0	55.7	51.9	No	No	
11		2019-01-23	9:59:29	54.4	88.3	58.3	50.7	No	No	
12		2019-01-23	10:00:29	54.2	92.2	57.1	52.6	No	No	
13		2019-01-23	10:01:29	53.9	84.5	56.5	52.2	No	No	
14		2019-01-23	10:02:29	54.7	88.3	59.2	52.1	No	No	
15		2019-01-23	10:03:29	54.5	89.3	56.3	52.7	No	No	
16		2019-01-23	10:04:29	53.5	84.2	58.0	51.7	No	No	
17	Stop	2019-01-23	10:05:29							

## Summary

File Name on Meter	LxT_Data.020
File Name on PC	SLM_0004435_LxT_Data_020.00.ldbin
Serial Number	0004435
Model	SoundTrack LxT®
Firmware Version	2.302
User	Sanchez
Location	ST-4 Plymouth and San Ramon
Job Description	Balboa Reservoir
Note	Time was set for PDT instead of PST. Monitoring started at 8:27, not 9:27

## Measurement

Description	
Start	2019-01-23 09:27:06
Stop	2019-01-23 09:42:06
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-01-23 09:24:20
Post Calibration	None
Calibration Deviation	---

## Overall Settings

RMS Weight	A Weighting		
Peak Weight	Z Weighting		
Detector	Slow		
Preamp	PRMLxT2B		
Microphone Correction	Off		
Integration Method	Exponential		
Overload	143.0 dB		
	<b>A</b>	<b>C</b>	<b>Z</b>
Under Range Peak	99.2	96.2	<b>101.2</b> dB
Under Range Limit	<b>48.2</b>	46.2	54.2 dB
Noise Floor	35.1	35.7	43.3 dB

## Results

LASeq	60.0 dB	
LASE	89.6 dB	
EAS	100.786 $\mu\text{Pa}^2\text{h}$	
EAS8	3.225 $\text{mPa}^2\text{h}$	
EAS40	16.126 $\text{mPa}^2\text{h}$	
LZSpeak (max)	2019-01-23 09:35:55	105.0 dB
LASmax	2019-01-23 09:35:58	76.0 dB
LASmin	2019-01-23 09:30:29	43.6 dB
SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZSpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s
LCSeq	71.6 dB	
LASeq	60.0 dB	
LCSeq - LASeq	11.5 dB	
LALeq	62.7 dB	
LAeq	60.0 dB	
LALeq - LAeq	2.7 dB	



Record #	Record Type	Date	Time	LASeq	LZpeak	LASmax	LASmin	OVLD	OBA OVLD	Marker
1	Calibration Change	2019-01-23	9:24:20							
2	Run	2019-01-23	9:27:06							
3		2019-01-23	9:27:06	54.7	101.0	61.9	44.9	No	No	
4		2019-01-23	9:28:06	54.0	93.7	59.6	47.9	No	No	
5		2019-01-23	9:29:06	58.9	95.2	69.3	48.1	No	No	
6		2019-01-23	9:30:06	58.5	96.7	70.7	43.6	No	No	
7		2019-01-23	9:31:06	56.1	89.8	62.3	49.0	No	No	
8		2019-01-23	9:32:06	60.4	97.8	71.8	45.4	No	No	
9		2019-01-23	9:33:06	55.1	86.4	61.9	45.8	No	No	
10		2019-01-23	9:34:06	55.5	92.5	63.1	43.8	No	No	
11		2019-01-23	9:35:06	65.5	105.0	76.0	43.9	No	No	
12		2019-01-23	9:36:06	56.2	88.3	62.6	45.3	No	No	
13		2019-01-23	9:37:06	59.3	91.4	66.9	46.2	No	No	
14		2019-01-23	9:38:06	52.6	85.4	60.1	44.7	No	No	
15		2019-01-23	9:39:06	65.5	93.6	75.9	51.7	No	No	
16		2019-01-23	9:40:06	62.7	98.0	73.5	50.6	No	No	
17		2019-01-23	9:41:06	57.5	91.8	65.0	48.8	No	No	
18	Stop	2019-01-23	9:42:06							

