Appendix H: Noise Data

Noise Measurement Field Data

Project:	Menifee Seaflower BESS	**Job Number:**	094991030
Site No.:	ST-1	**Date:**	11/4/2025
Analyst:	Ciara Anderson and Daniel Karz	**Time:**	9:45 AM
Location:	Park north of N Bay Lane cul-de-sac.		
Noise Sources:	Plane flying above, construction equipment nearby, traffic, people and dogs walking by		
Comments:			

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
48.2	41.0	56.6	81.7

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	69
Wind (mph):	0
Sky:	Clear
Bar. Pressure:	30.09 inHg
Humidity:	43%

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LT_1.028.s	Computer's File Name	LxTse_0007061-20251104 104309-LT_1.028.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Measurement

Start Time	2025-11-04 10:43:09	Duration	0:10:00.0		
End Time	2025-11-04 10:53:09	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-11-04 10:40:38	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	48.2 dB		
LAE	76.0 dB	SEA	--- dB
EA	4.4 µPa²h		
LA_{peak}	81.7 dB	2025-11-04 10:46:56	
LAS_{max}	56.6 dB	2025-11-04 10:51:51	
LAS_{min}	41.0 dB	2025-11-04 10:50:29	
LA_{eq}	48.2 dB		
LC_{eq}	66.8 dB	LC_{eq} - LA_{eq}	18.6 dB
LAI_{eq}	49.4 dB	LAI_{eq} - LA_{eq}	1.2 dB

Exceedances	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApk > 135.0 dB	0	0:00:00.0
LApk > 137.0 dB	0	0:00:00.0
LApk > 140.0 dB	0	0:00:00.0

Community Noise	LDN	LDay	LNight
	48.2 dB	48.2 dB	--- dB

LDEN	LDay	LEve	LNight
48.2 dB	48.2 dB	--- dB	--- dB

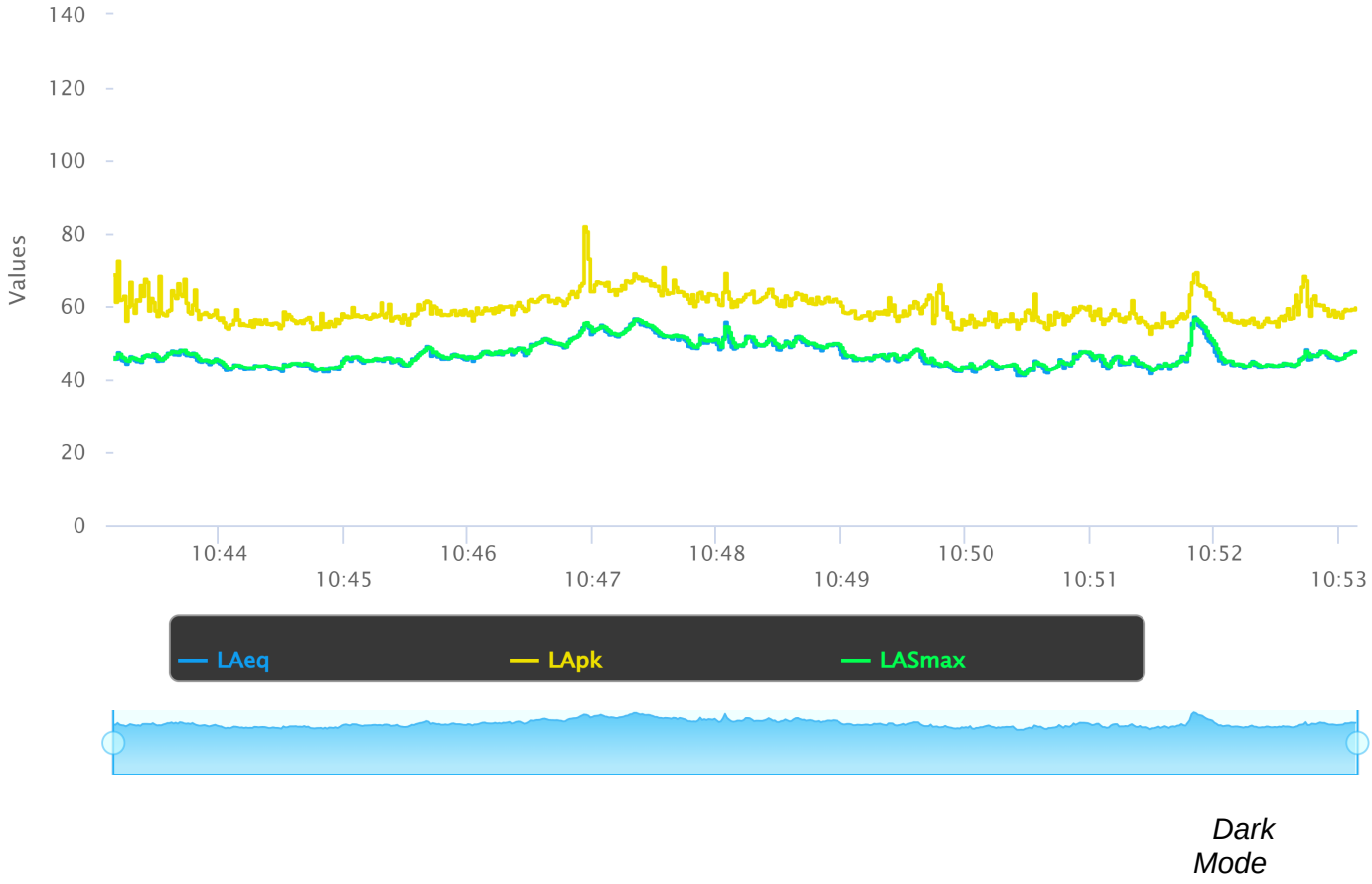
Any Data	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	48.2 dB		66.8 dB		--- dB	
$L_{S(max)}$	56.6 dB	2025-11-04 10:51:51	--- dB	None	--- dB	None
$L_{S(min)}$	41.0 dB	2025-11-04 10:50:29	--- dB	None	--- dB	None
$L_{Peak(max)}$	81.7 dB	2025-11-04 10:46:56	--- dB	None	--- dB	None

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	53.6 dB
LAS 10.0	51.7 dB
LAS 33.3	47.4 dB
LAS 50.0	45.9 dB
LAS 66.6	44.8 dB
LAS 90.0	43.2 dB

Time History



Dark Mode

Noise Measurement Field Data

Project:	Menifee Seaflower BESS	**Job Number:**	094991030
Site No.:	ST-2	**Date:**	11/4/2025
Analyst:	Ciara Anderson and Daniel Karz	**Time:**	10:05 AM
Location:	Along west shoulder of Menifee Rd, between Case Rd and SR-74, near intersection with dirt road		
Noise Sources:	Traffic, construction equipment operating, heavy trucks, aircraft		
Comments:	Construction activity right across the road		

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
66.7	53.2	77.2	92.5

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	71
Wind (mph):	0
Sky:	Clear
Bar. Pressure:	30.08
Humidity:	38%

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LT_1.029.s	Computer's File Name	LxTse_0007061-20251104 110344-LT_1.029.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Measurement

Start Time	2025-11-04 11:03:44	Duration	0:10:00.0		
End Time	2025-11-04 11:13:44	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-11-04 11:03:03	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	66.7 dB		
LAE	94.5 dB	SEA	--- dB
EA	311.8 µPa²h		
LA_{peak}	92.5 dB	2025-11-04 11:08:47	
LAS_{max}	77.2 dB	2025-11-04 11:12:54	
LAS_{min}	53.2 dB	2025-11-04 11:13:29	
LA_{eq}	66.7 dB		
LC_{eq}	80.2 dB	LC_{eq} - LA_{eq}	13.5 dB
LAI_{eq}	68.7 dB	LAI_{eq} - LA_{eq}	2.0 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApk > 135.0 dB	0	0:00:00.0
LApk > 137.0 dB	0	0:00:00.0
LApk > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
66.7 dB	66.7 dB	--- dB

LDEN	LDay	LEve	LNight
66.7 dB	66.7 dB	--- dB	--- dB

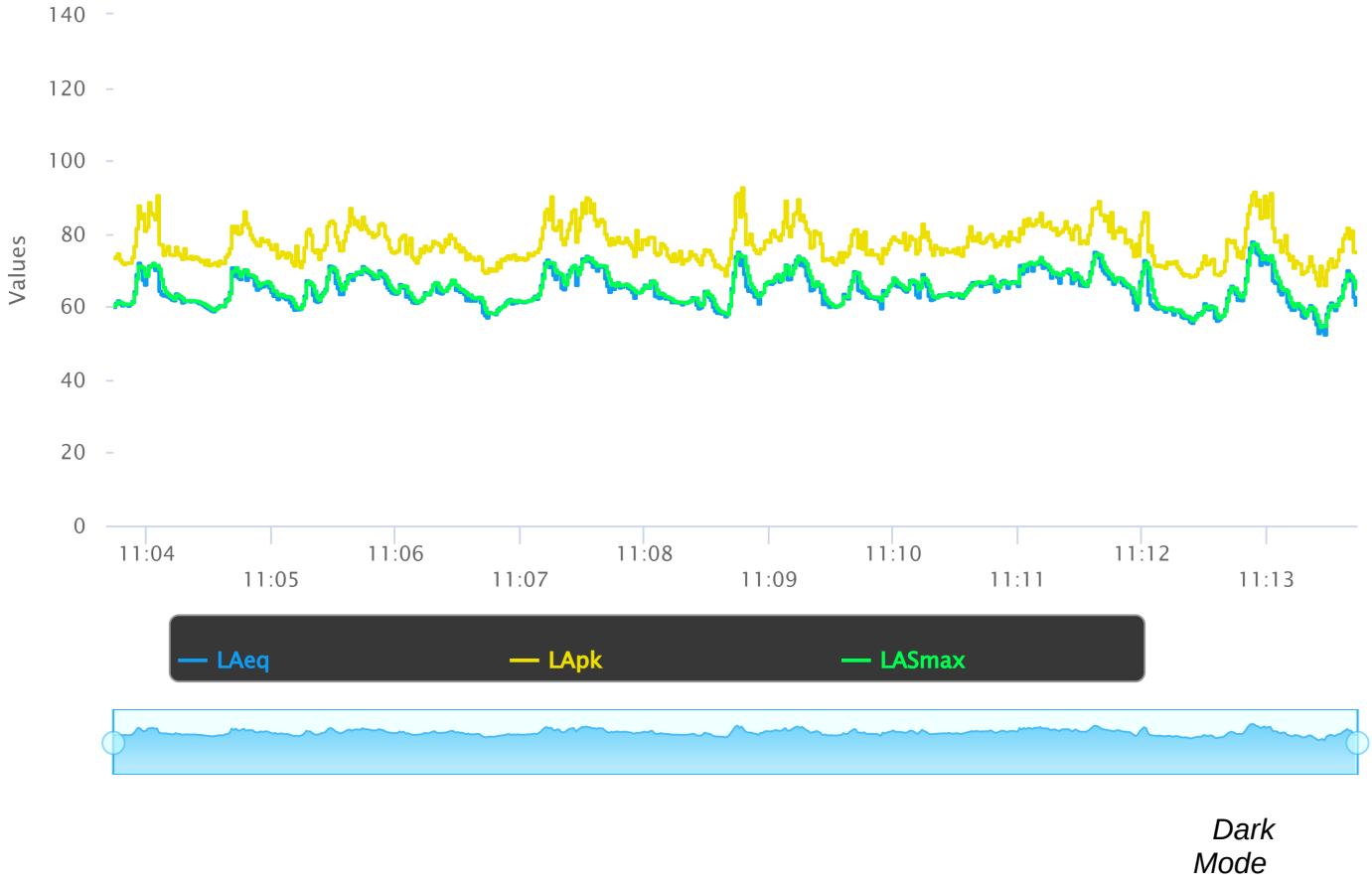
Any Data	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	66.7 dB		80.2 dB		--- dB	
$L_{S(max)}$	77.2 dB	2025-11-04 11:12:54	--- dB	None	--- dB	None
$L_{S(min)}$	53.2 dB	2025-11-04 11:13:29	--- dB	None	--- dB	None
$L_{Peak(max)}$	92.5 dB	2025-11-04 11:08:47	--- dB	None	--- dB	None

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	71.9 dB
LAS 10.0	70.5 dB
LAS 33.3	66.3 dB
LAS 50.0	64.4 dB
LAS 66.6	62.4 dB
LAS 90.0	59.4 dB

Time History



Dark Mode

Noise Measurement Field Data

Project:	Menifee Seaflower BESS	**Job Number:**	094991030
Site No.:	ST-3	**Date:**	11/4/2025
Analyst:	Ciara Anderson and Daniel Karz	**Time:**	10:24 AM
Location:	Northwest of project site, along Case Rd, under power lines.		
Noise Sources:	Power lines above, aircraft above, traffic, trucks passing, construction nearby, birds		
Comments:			

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
58.8	42.9	79.4	93.2

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	72
Wind (mph):	0
Sky:	Clear
Bar. Pressure:	30.08
Humidity:	36%

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LT_1.030.s	Computer's File Name	LxTse_0007061-20251104 112048-LT_1.030.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Measurement

Start Time	2025-11-04 11:20:48	Duration	0:10:00.0		
End Time	2025-11-04 11:30:48	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-11-04 10:40:31	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	58.8 dB		
LAE	86.6 dB	SEA	--- dB
EA	50.6 µPa²h		
LA_{peak}	93.2 dB	2025-11-04 11:22:00	
LAS_{max}	79.4 dB	2025-11-04 11:22:00	
LAS_{min}	42.9 dB	2025-11-04 11:29:10	
LA_{eq}	58.8 dB		
LC_{eq}	66.1 dB	LC_{eq} - LA_{eq}	7.3 dB
LAI_{eq}	61.5 dB	LAI_{eq} - LA_{eq}	2.7 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApk > 135.0 dB	0	0:00:00.0
LApk > 137.0 dB	0	0:00:00.0
LApk > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
58.8 dB	58.8 dB	--- dB

LDEN	LDay	LEve	LNight
58.8 dB	58.8 dB	--- dB	--- dB

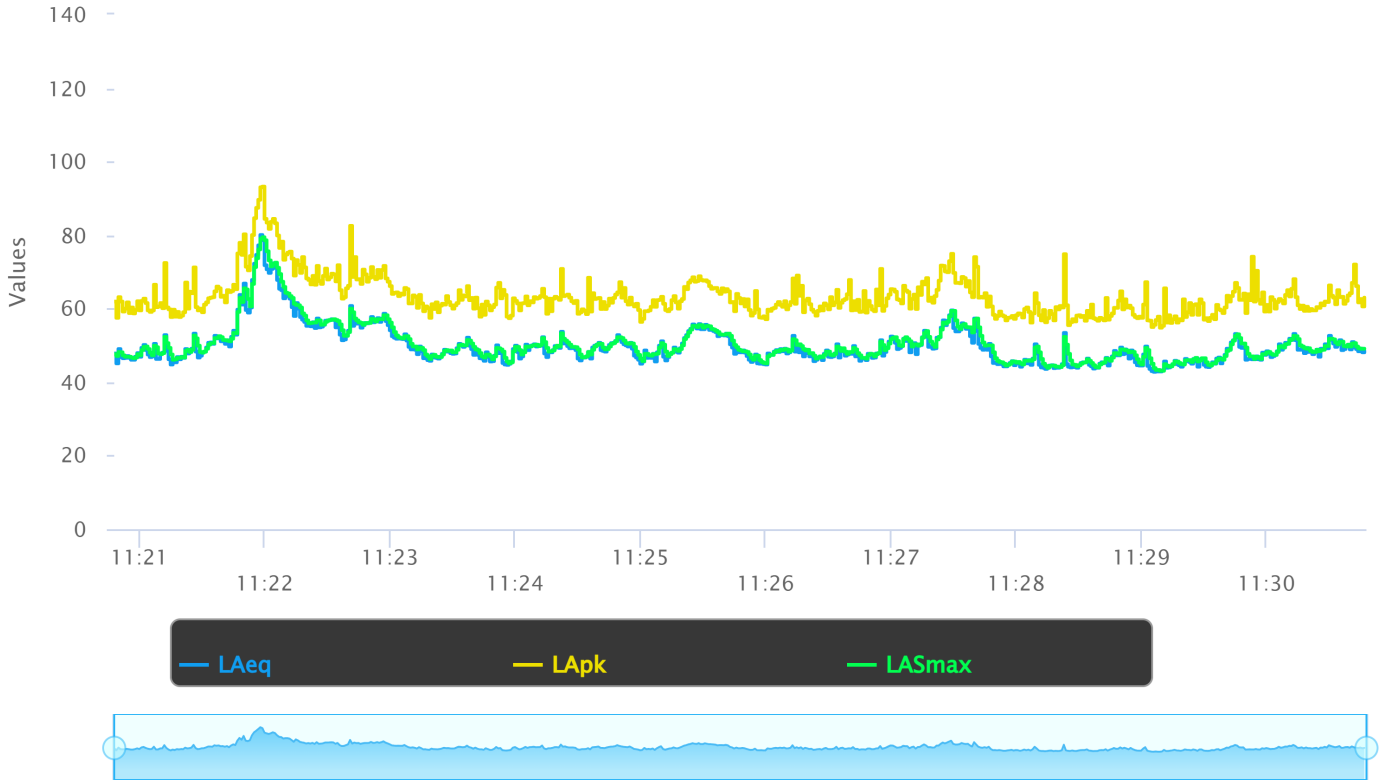
Any Data	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	58.8 dB		66.1 dB		--- dB	
$L_{S(max)}$	79.4 dB	2025-11-04 11:22:00	--- dB	None	--- dB	None
$L_{S(min)}$	42.9 dB	2025-11-04 11:29:10	--- dB	None	--- dB	None
$L_{Peak(max)}$	93.2 dB	2025-11-04 11:22:00	--- dB	None	--- dB	None

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	59.4 dB
LAS 10.0	56.0 dB
LAS 33.3	50.1 dB
LAS 50.0	48.6 dB
LAS 66.6	47.4 dB
LAS 90.0	45.2 dB

Time History



Dark Mode

Noise Measurement Field Data

Project:	Menifee Seaflower BESS	**Job Number:**	094991030
Site No.:	ST-4	**Date:**	11/4/2025
Analyst:	Ciara Anderson and Daniel Karz	**Time:**	10:47 AM
Location:	West of project site, end of McLaughlin Rd and dirt road		
Noise Sources:	Traffic along Case Rd, idling tractor nearby		
Comments:			

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
50.9	43.4	58.7	78.1

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	75
Wind (mph):	1
Sky:	Clear
Bar. Pressure:	30.07
Humidity:	30%

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LT_1.031.s	Computer's File Name	LxTse_0007061-20251104 114408-LT_1.031.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Measurement

Start Time	2025-11-04 11:44:08	Duration	0:10:00.0		
End Time	2025-11-04 11:54:08	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2025-11-04 10:40:31	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	50.9 dB		
LAE	78.7 dB	SEA	--- dB
EA	8.2 µPa²h		
LA_{peak}	78.1 dB	2025-11-04 11:44:34	
LAS_{max}	58.7 dB	2025-11-04 11:53:27	
LAS_{min}	43.4 dB	2025-11-04 11:52:30	
LA_{eq}	50.9 dB		
LC_{eq}	68.8 dB	LC_{eq} - LA_{eq}	17.9 dB
LAI_{eq}	52.3 dB	LAI_{eq} - LA_{eq}	1.4 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApk > 135.0 dB	0	0:00:00.0
LApk > 137.0 dB	0	0:00:00.0
LApk > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
50.9 dB	50.9 dB	--- dB

LDEN	LDay	LEve	LNight
50.9 dB	50.9 dB	--- dB	--- dB

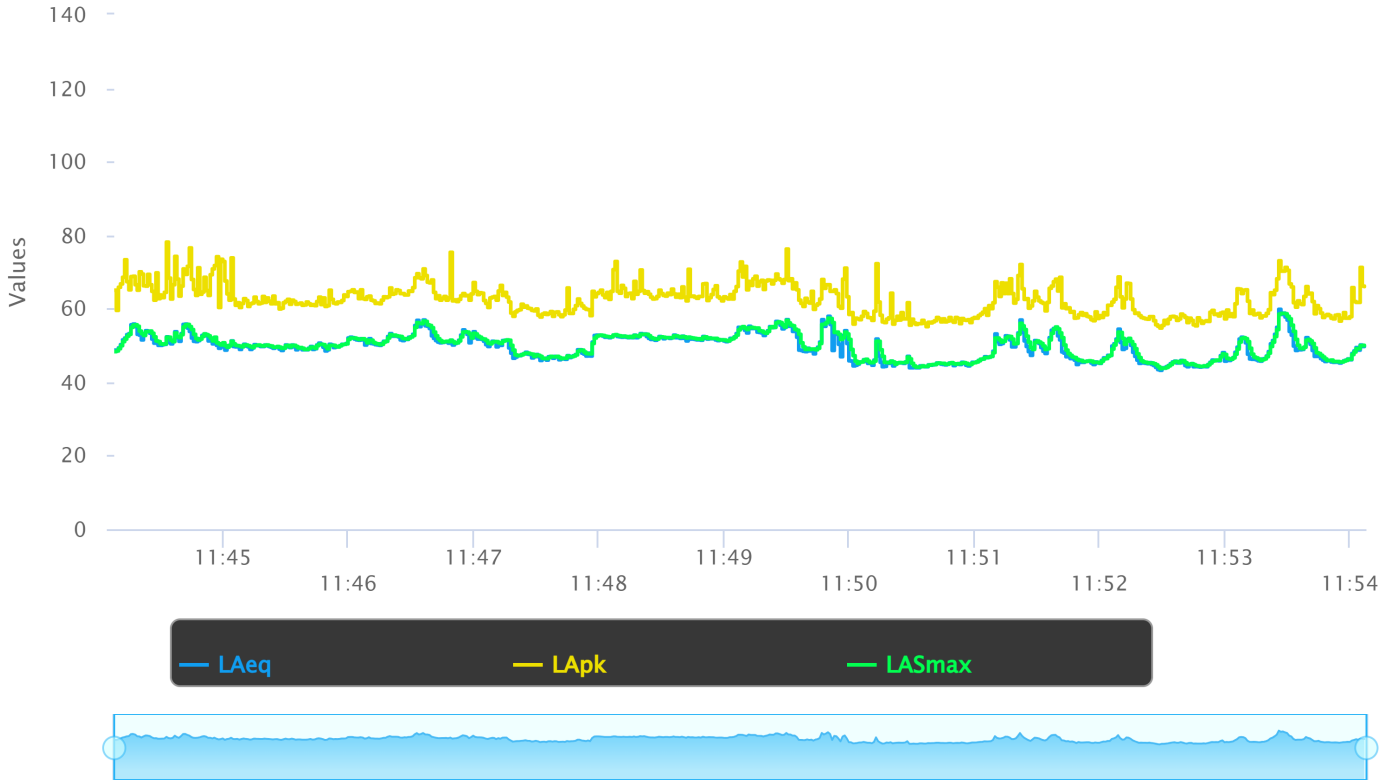
Any Data	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	50.9 dB		68.8 dB		--- dB	
$L_{S(max)}$	58.7 dB	2025-11-04 11:53:27	--- dB	None	--- dB	None
$L_{S(min)}$	43.4 dB	2025-11-04 11:52:30	--- dB	None	--- dB	None
$L_{Peak(max)}$	78.1 dB	2025-11-04 11:44:34	--- dB	None	--- dB	None

Overloads	Count	Duration	OBA Count	OBA Duration
	0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	55.0 dB
LAS 10.0	53.7 dB
LAS 33.3	51.5 dB
LAS 50.0	50.0 dB
LAS 66.6	48.0 dB
LAS 90.0	45.1 dB

Time History



Dark Mode

Noise Measurement Field Data

Project:	Menifee Seaflower BESS	**Job Number:**	094991030
Site No.:	LT-1	**Date:**	11/4/2025-11/5/2025
Analyst:	Ciara Anderson and Daniel Karz	**Time:**	
Location:	Southeast corner of project site, attached to power line along Case Road		
Noise Sources:	Traffic along Case Rd, passing trucks, construction nearby		
Comments:			

Results (dBA):

Leq:	Lmin:	Lmax:	Peak:
58.9	35.1	100.6	121.5

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	
Wind (mph):	
Sky:	
Bar. Pressure:	
Humidity:	

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	LT_1.032.s	Computer's File Name	LxTse_0007061-20251104 122839-LT_1.032.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Measurement

Start Time	2025-11-04 12:28:39	Duration	26:45:18.1		
End Time	2025-11-05 15:13:58	Run Time	26:45:18.1	Pause Time	0:00:00.0
Pre-Calibration	2025-11-04 10:40:31	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	58.9 dB		
LAE	108.7 dB	SEA	131.5 dB
EA	8.3 mPa²h		
LA_{peak}	121.5 dB	2025-11-04 16:52:43	
LAS_{max}	100.6 dB	2025-11-04 16:52:43	
LAS_{min}	35.1 dB	2025-11-05 03:16:15	
LA_{eq}	58.9 dB		
LC_{eq}	68.5 dB	LC_{eq} - LA_{eq}	9.6 dB
LAI_{eq}	62.9 dB	LAI_{eq} - LA_{eq}	4.0 dB

Exceedances	Count	Duration
LAS > 85.0 dB	3	0:00:10.4
LAS > 115.0 dB	0	0:00:00.0
LApk > 135.0 dB	0	0:00:00.0
LApk > 137.0 dB	0	0:00:00.0
LApk > 140.0 dB	0	0:00:00.0

Community Noise	LDN	LDay	LNight
	61.1 dB	60.4 dB	52.2 dB

	LDEN	LDay	LEve	LNight
	61.5 dB	60.9 dB	56.6 dB	52.2 dB

Any Data	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	58.9 dB		68.5 dB		--- dB	
$LS_{(max)}$	100.6 dB	2025-11-04 16:52:43	--- dB	None	--- dB	None
$LS_{(min)}$	35.1 dB	2025-11-05 03:16:15	--- dB	None	--- dB	None
$L_{Peak(max)}$	121.5 dB	2025-11-04 16:52:43	--- dB	None	--- dB	None

Overloads	Count	Duration	OBA Count	OBA Duration
	1	0:00:02.2	1	0:00:02.2

Statistics

LAS 5.0	63.2 dB
LAS 10.0	61.0 dB
LAS 33.3	53.4 dB
LAS 50.0	49.5 dB
LAS 66.6	46.2 dB
LAS 90.0	41.4 dB

Time History



Dark Mode

Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

	Receptor (Land Use)	Distance to Property Line (feet)	Direction
1	Future Industrial	635	NE
2	Future Residential	630	E
3	Future Residential	197	S
4	Industrial	238	SW
5	Industrial	314	NW

Construction Phase	Equipment Type	No. of Equip.	Acoustical Usage Factor	Reference Noise Level at 50ft per Unit, Lmax	RECEPTOR 1 Distance (feet)	RECEPTOR 1 Noise Level at Receptor 1, Lmax	RECEPTOR 1 Noise Level at Receptor 1, Leq	RECEPTOR 2 Distance (feet)	RECEPTOR 2 Noise Level at Receptor 2, Lmax	RECEPTOR 2 Noise Level at Receptor 2, Leq	RECEPTOR 3 Distance (feet)	RECEPTOR 3 Noise Level at Receptor 3, Lmax	RECEPTOR 3 Noise Level at Receptor 3, Leq
Demolition													
Construction Area = Project Site	Concrete Saw	1	20%	88	635	66.3	59.3	630	66.4	59.4	197	76.5	69.5
	Excavator	2	40%	87	685	67.7	63.7	680	67.7	63.8	247	76.5	72.6
	Excavator	1	40%	87	810	63.2	59.2	805	63.3	59.3	372	70.0	66.0
	Dozer	1	40%	86	810	61.7	57.7	805	61.8	57.8	372	68.5	64.5
	Dozer	1	40%	86	885	60.9	57.0	880	61.0	57.0	447	66.9	62.9
	Combined LEQ						**67.1**			**67.2**			**75.5**
Site Preparation													
Construction Area = Project Site	Dozer	1	40%	86	635	63.8	59.8	630	63.9	59.9	197	74.0	70.0
	Dozer	2	40%	86	685	66.2	62.2	680	66.2	62.3	247	75.0	71.1
	Backhoe	2	40%	84	810	63.1	59.1	805	63.2	59.2	372	69.9	65.9
	Backhoe	2	40%	84	885	62.4	58.4	880	62.4	58.4	447	68.3	64.3
	Combined LEQ						**66.2**			**66.2**			**74.7**
Grading													
Construction Area = Project Site	Excavator	1	40%	87	635	65.3	61.3	630	65.4	61.4	197	75.5	71.5
	Dozer	1	40%	86	685	63.2	59.2	680	63.2	59.2	247	72.0	68.0
	Backhoe	1	40%	84	685	61.6	57.6	680	61.6	57.6	247	70.4	66.4
	Backhoe	2	40%	84	810	63.1	59.1	805	63.2	59.2	372	69.9	65.9
	Grader (passby)	1	40%	77	885	52.3	48.4	880	52.4	48.4	447	58.3	54.3
	Combined LEQ						**65.6**			**65.7**			**74.6**
Paving													
	Compactor (roller)	1	20%	83	635	61.0	54.0	630	61.1	54.1	165	72.7	65.7
Construction Area = Project Site + Off-site Improvements	Compactor (roller)	1	20%	83	685	60.4	53.4	680	60.4	53.4	215	70.4	63.4
	Paving - Asphalt (Paver + MTV + Dump Truck)	1	40%	74	685	51.1	47.1	680	51.1	47.1	215	61.1	57.2
	Paving - Asphalt (Paver + MTV + Dump Truck)	3	40%	74	810	54.4	50.4	805	54.4	50.5	340	61.9	57.9
	Combined LEQ						**58.0**			**58.1**			**68.5**
Architectural Coating													
Construction Area = Project Site + Off-site Improvements	Compressor	1	40%	68	635	46.0	42.0	630	46.1	42.1	165	57.7	53.8
	Combined LEQ						**42.0**			**42.1**			**53.8**
Battery Installation													
Construction Area = Project Site	Telescopic Handler (Forklift)	1	40%	89	635	67.1	63.1	630	67.2	63.2	197	77.3	73.3
	Excavator	1	40%	87	685	64.7	60.7	680	64.7	60.7	247	73.5	69.5
	Backhoe	1	40%	84	685	61.6	57.6	680	61.6	57.6	247	70.4	66.4
	Compactor (roller)	1	20%	83	810	58.9	51.9	805	59.0	52.0	372	65.7	58.7
	Concrete Mixer Truck	1	40%	82	810	58.2	54.2	805	58.3	54.3	372	65.0	61.0
	Front End Loader (cyclical)	1	40%	81	885	56.4	52.5	880	56.5	52.5	447	62.4	58.4
	Crane	1	16%	79	885	54.0	46.1	880	54.1	46.1	447	60.0	52.0
	Compactor (plate)	1	20%	75	935	49.2	42.2	930	49.2	42.2	497	54.7	47.7
	Compressor	1	40%	68	935	42.7	38.7	930	42.7	38.7	497	48.2	44.2
	Welding Machine	1	40%	75	1035	48.4	44.4	1030	48.4	44.4	597	53.2	49.2
	Combined LEQ						**66.5**			**66.6**			**75.8**
Collector Substation Installation													
Construction Area = Substation Area	Telescopic Handler (Forklift)	1	40%	89	656	66.8	62.9	645	67.0	63.0	417	70.8	66.8
	Horizontal Bore Drill	1	20%	88	706	64.8	57.8	706	64.8	57.8	706	64.8	57.8
	Excavator	1	40%	87	706	64.4	60.4	706	64.4	60.4	706	64.4	60.4
	Dozer	1	40%	86	831	61.5	57.5	831	61.5	57.5	831	61.5	57.5
	All Other Equipment > 5 HP	1	20%	85	831	60.5	53.5	831	60.5	53.5	831	60.5	53.5
	Backhoe	1	40%	84	906	59.1	55.2	906	59.1	55.2	906	59.1	55.2
	Compactor (roller)	1	20%	83	906	57.9	50.9	906	57.9	50.9	906	57.9	50.9
	Front End Loader (cyclical)	1	40%	81	956	55.8	51.8	956	55.8	51.8	956	55.8	51.8
	Crane	1	16%	79	956	53.4	45.4	956	53.4	45.4	956	53.4	45.4
	Man Lift	1	20%	75	1056	48.5	41.5	1056	48.5	41.5	1056	48.5	41.5
	Compressor	1	40%	68	1056	41.6	37.6	1056	41.6	37.6	1056	41.6	37.6
	Generator	1	50%	68	1176	41.0	38.0	1176	41.0	38.0	1176	41.0	38.0
	Combined LEQ						**67.1**			**67.1**			**69.0**
Gen-Tie Line Foundation and Tower													
Construction Area = Gen-Tie Line Area	Telescopic Handler (Forklift)	1	40%	89	615	67.4	63.4	615	67.4	63.4	605	67.5	63.6
	Crane	1	16%	79	665	56.5	48.6	665	56.5	48.6	655	56.7	48.7
	Pump	1	50%	75	665	52.2	49.2	665	52.2	49.2	655	52.4	49.3
	Welding Machine	1	40%	75	715	51.6	47.6	715	51.6	47.6	705	51.7	47.7
	Compressor	1	40%	68	715	45.0	41.0	715	45.0	41.0	705	45.1	41.1
	Generator	1	50%	68	740	45.0	42.0	740	45.0	42.0	730	45.1	42.1
	Combined LEQ						**63.9**			**63.9**			**64.0**
Gen-Tie Line Strining and Pulling													
Construction Area = Gen-Tie Line Area	Telescopic Handler (Forklift)	1	40%	89	615	67.4	63.4	615	67.4	63.4	605	67.5	63.6
	Backhoe	1	40%	84	665	61.8	57.8	665	61.8	57.8	655	62.0	58.0
	Generator	1	50%	68	665	45.9	42.9	665	45.9	42.9	655	46.1	43.0
	Combined LEQ						**64.5**			**64.5**			**64.7**
Overlapping Phases													
Paving + Architectural Coating							58.1			58.2			68.7
							67.1			**67.2**			**75.8**

Source for Ref. Noise Levels: RCNM, 2005

Construction Noise Impact on Sensitive Receptors

Parameters		
Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

	Receptor (Land Use)	Distance to Property Line (feet)	Direction
1	Future Industrial	635	NE
2	Future Residential	630	E
3	Future Residential	197	S
4	Industrial	238	SW
5	Industrial	314	NW

					RECEPTOR 4			RECEPTOR 5		
Construction Phase	**Equipment Type**	**No. of Equip.**	**Acoustical Usage Factor**	**Reference Noise Level at 50ft per Unit, Lmax**	**Distance (feet)**	**Noise Level at Receptor 4, Lmax**	**Noise Level at Receptor 4, Leq**	**Distance (feet)**	**Noise Level at Receptor 5, Lmax**	**Noise Level at Receptor 5, Leq**
Demolition										
Construction Area = Project Site	Concrete Saw	1	20%	88	238	74.8	67.9	314	72.4	65.5
	Excavator	2	40%	87	288	75.2	71.2	364	73.2	69.2
	Excavator	1	40%	87	413	69.1	65.1	489	67.6	63.6
	Dozer	1	40%	86	413	67.6	63.6	489	66.1	62.1
	Dozer	1	40%	86	488	66.1	62.1	564	64.9	60.9
	Combined LEQ						**73.1**			**72.3**
Site Preparation										
Construction Area = Project Site	Dozer	1	40%	86	238	72.3	68.4	314	69.9	66.0
	Dozer	2	40%	86	288	73.7	69.7	364	71.7	67.7
	Backhoe	2	40%	84	413	69.0	65.0	489	67.5	63.5
	Backhoe	2	40%	84	488	67.5	63.5	564	66.3	62.3
	Combined LEQ						**73.4**			**71.4**
Grading										
Construction Area = Project Site	Excavator	1	40%	87	238	73.8	69.9	314	71.4	67.5
	Dozer	1	40%	86	288	70.7	66.7	364	68.7	64.7
	Backhoe	1	40%	84	288	69.1	65.1	364	67.1	63.1
	Backhoe	2	40%	84	413	69.0	65.0	489	67.5	63.5
	Grader (passby)	1	40%	77	488	57.5	53.5	564	56.3	52.3
	Combined LEQ						**73.2**			**71.1**
Paving										
	Compactor (roller)	1	20%	83	265	68.6	61.6	278	68.2	61.2
Construction Area = Project Site + Off-site Improvements	Compactor (roller)	1	20%	83	315	67.1	60.1	328	66.8	59.8
	Paving - Asphalt (Paver + MTV + Dump Truck)	1	40%	74	315	67.8	53.8	328	57.5	53.5
	Paving - Asphalt (Paver + MTV + Dump Truck)	3	40%	74	440	59.7	55.7	453	59.4	55.4
	Combined LEQ						**64.9**			**64.5**
Architectural Coating										
Construction Area = Project Site + Off-site Improvements	Compressor	1	40%	68	265	53.6	49.6	278	53.2	49.2
	Combined LEQ						**49.6**			**49.2**
Battery Installation										
Construction Area = Project Site	Telescopic Handler (Forklift)	1	40%	89	238	75.6	71.7	314	73.2	69.3
	Excavator	1	40%	87	288	72.2	68.2	364	70.2	66.2
	Backhoe	1	40%	84	288	69.1	65.1	364	67.1	63.1
	Compactor (roller)	1	20%	83	413	64.8	57.8	489	63.3	56.3
	Concrete Mixer Truck	1	40%	82	413	64.1	60.1	489	62.6	58.6
	Front End Loader (cyclical)	1	40%	81	488	61.6	57.6	564	60.4	56.4
	Crane	1	16%	79	488	59.2	51.3	564	58.0	50.0
	Compactor (plate)	1	20%	75	538	54.0	47.0	614	52.8	45.8
	Compressor	1	40%	68	538	47.5	43.5	614	46.3	42.3
	Welding Machine	1	40%	75	638	52.6	48.6	714	51.6	47.6
	Combined LEQ						**74.3**			**72.2**
Collector Substation Installation										
Construction Area = Substation Area	Telescopic Handler (Forklift)	1	40%	89	703	66.2	62.3	704	66.2	62.2
	Horizontal Bore Drill	1	20%	88	753	64.2	57.3	754	64.2	57.2
	Excavator	1	40%	87	753	63.8	59.9	754	63.8	59.9
	Dozer	1	40%	86	878	61.0	57.0	879	61.0	57.0
	All Other Equipment > 5 HP	1	20%	85	878	60.0	53.0	879	60.0	53.0
	Backhoe	1	40%	84	953	58.7	54.7	954	58.7	54.7
	Compactor (roller)	1	20%	83	953	57.5	50.5	954	57.5	50.5
	Front End Loader (cyclical)	1	40%	81	1003	55.4	51.4	1004	55.3	51.4
	Crane	1	16%	79	1003	53.0	45.0	1004	52.9	45.0
	Man Lift	1	20%	75	1103	48.1	41.1	1104	48.1	41.1
	Compressor	1	40%	68	1103	41.2	37.2	1104	41.2	37.2
	Generator	1	50%	68	1223	40.6	37.6	1224	40.6	37.6
	Combined LEQ						**66.5**			**66.5**
Gen-Tie Line Foundation and Tower										
Construction Area = Gen-Tie Line Area	Telescopic Handler (Forklift)	1	40%	89	745	65.7	61.8	760	65.6	61.6
	Crane	1	16%	79	795	55.0	47.0	810	54.8	46.9
	Pump	1	50%	75	795	50.7	47.7	810	50.5	47.5
	Welding Machine	1	40%	75	845	50.1	46.2	860	50.0	46.0
	Compressor	1	40%	68	845	43.5	39.6	860	43.4	39.4
	Generator	1	50%	68	870	43.6	40.6	885	43.4	40.4
	Combined LEQ						**62.2**			**62.1**
Gen-Tie Line Strining and Pulling										
Construction Area = Gen-Tie Line Area	Telescopic Handler (Forklift)	1	40%	89	745	65.7	61.8	760	65.6	61.6
	Backhoe	1	40%	84	795	60.3	56.3	810	60.1	56.1
	Generator	1	50%	68	795	44.4	41.4	810	44.2	41.2
	Combined LEQ						**62.9**			**62.7**
Overlapping Phases										
Paving + Architectural Coating							65.0			64.7
							74.3			**72.3**

Source for Ref. Noise Levels: RCNM, 2005

Operational Noise Results

No.	Receiver name	Floor	Day dB(A)	Night dB(A)
1	1	GF	25.1	25.1
2	2	GF	28.7	28.7
3	3	GF	32.9	32.9
4	4	GF	39.3	39.3
5	5	GF	28.2	28.2
6	6	GF	33.0	33.0
7	7	GF	29.6	29.6
8	8	GF	26.4	26.4
8	8	1.Fl	33.2	33.2
8	8	2.Fl	37.1	37.1
9	9	GF	33.0	33.0
10	10	GF	42.8	42.8
11	11	GF	50.2	50.2
12	12	GF	45.5	45.5
13	13	GF	31.4	31.4
14	14	GF	40.8	40.8
15	15	GF	38.1	38.1
16	16	GF	29.4	29.4
17	17	GF	25.9	25.9

Kimley-Horn and Associates, Inc. 3801 University Avenue, Suite 300 Riverside, CA 92501

Source: SoundPLAN version 5.1



Noise Contour

Signs and symbols

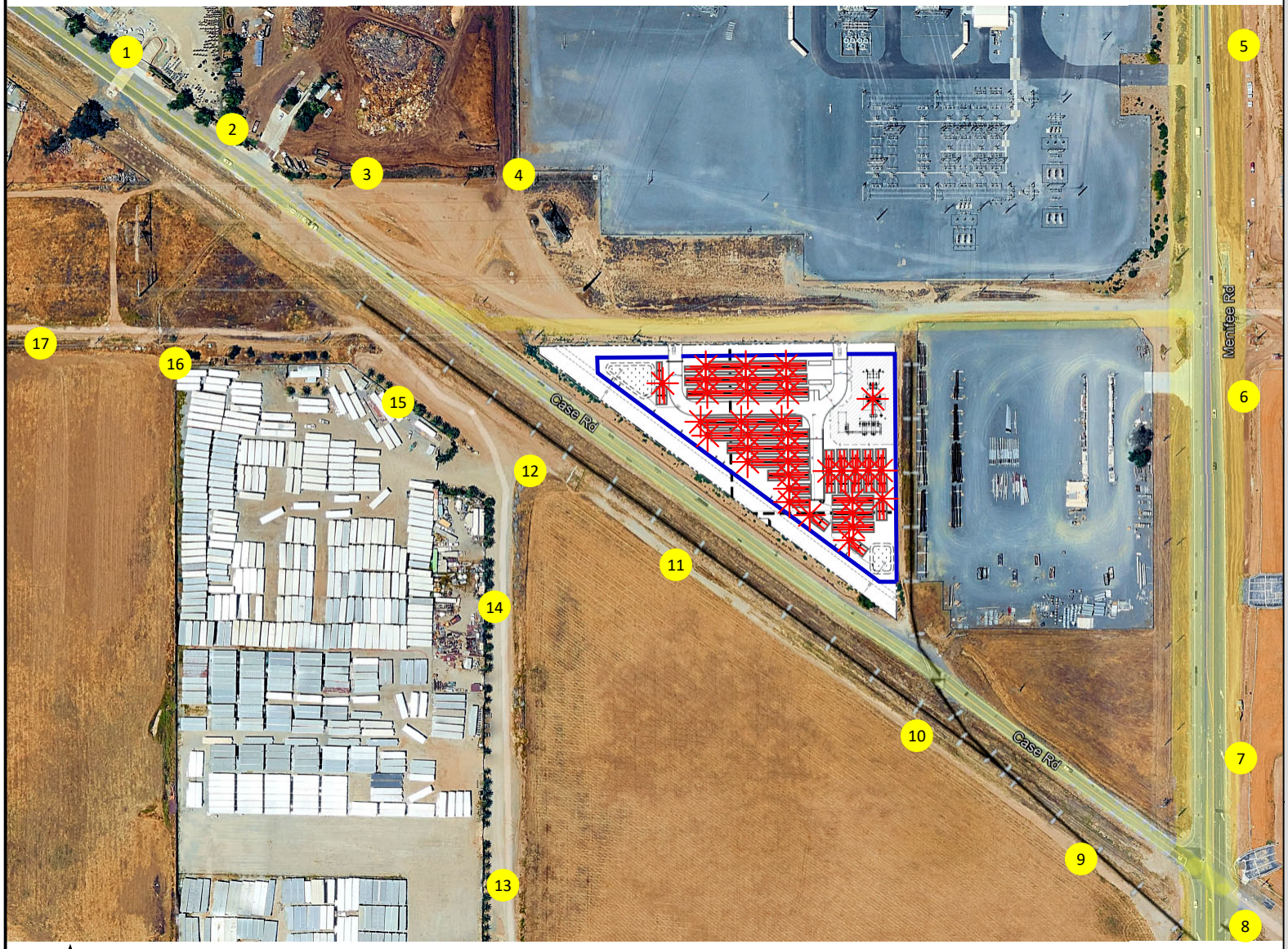
- 10-foot Wall (North and East)
  14-foot Wall (South and West)
- ESS Units
- Point Source (Medium Voltage Transformers and Collector Substation
- Line Source (ESS Cooling Systems)

Levels in dB(A)

< 45
45 - 50
50 - 55
55 - 60
60 - 65
>= 65

1 : 2147

0 10 20 40 60 80 m



Receiver Locations Map

Signs and symbols

- 10-foot Wall (North and East)
  14-foot Wall (South and West)
- ESS Units
- Receiver
- Point Source (Medium Voltage Transformers and Collector Substation
- Line Source (ESS Cooling Systems)

1 : 3629

0 20 40 80 120 160 m