



HEI Energy Collett Research Report 232

Measuring and Modeling Air Pollution and Noise Exposure Near Unconventional Oil and Gas Development in Colorado

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Appendix E. Supplementary Information for Chapter 5: Noise Monitoring During UOGD Drilling and Completions

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Appendix E. Supplementary Information for Chapter 5: Noise Monitoring During UOGD Drilling and Completions

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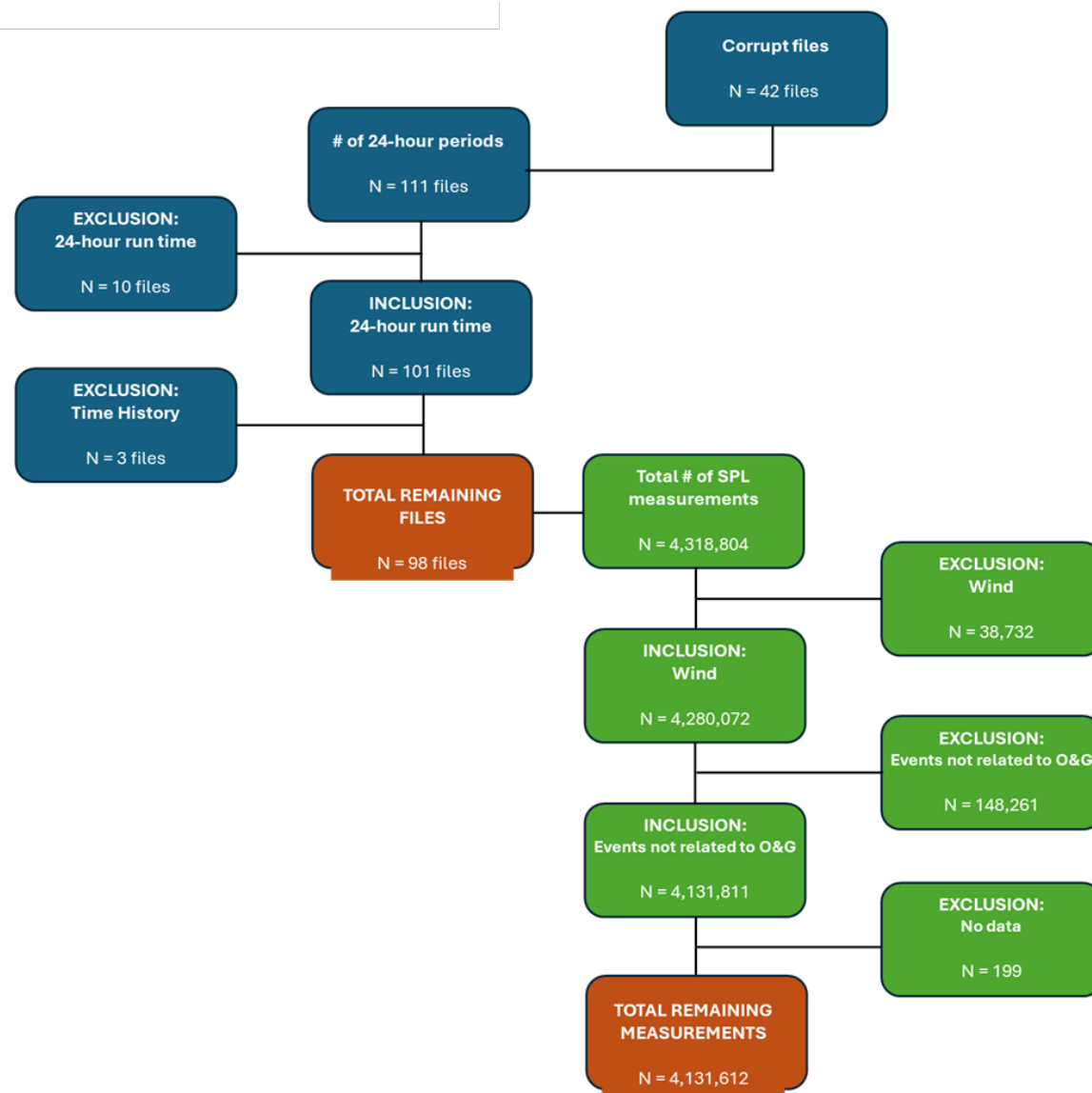


Figure E1. Noise measurements removed from site 2, monitor 2.

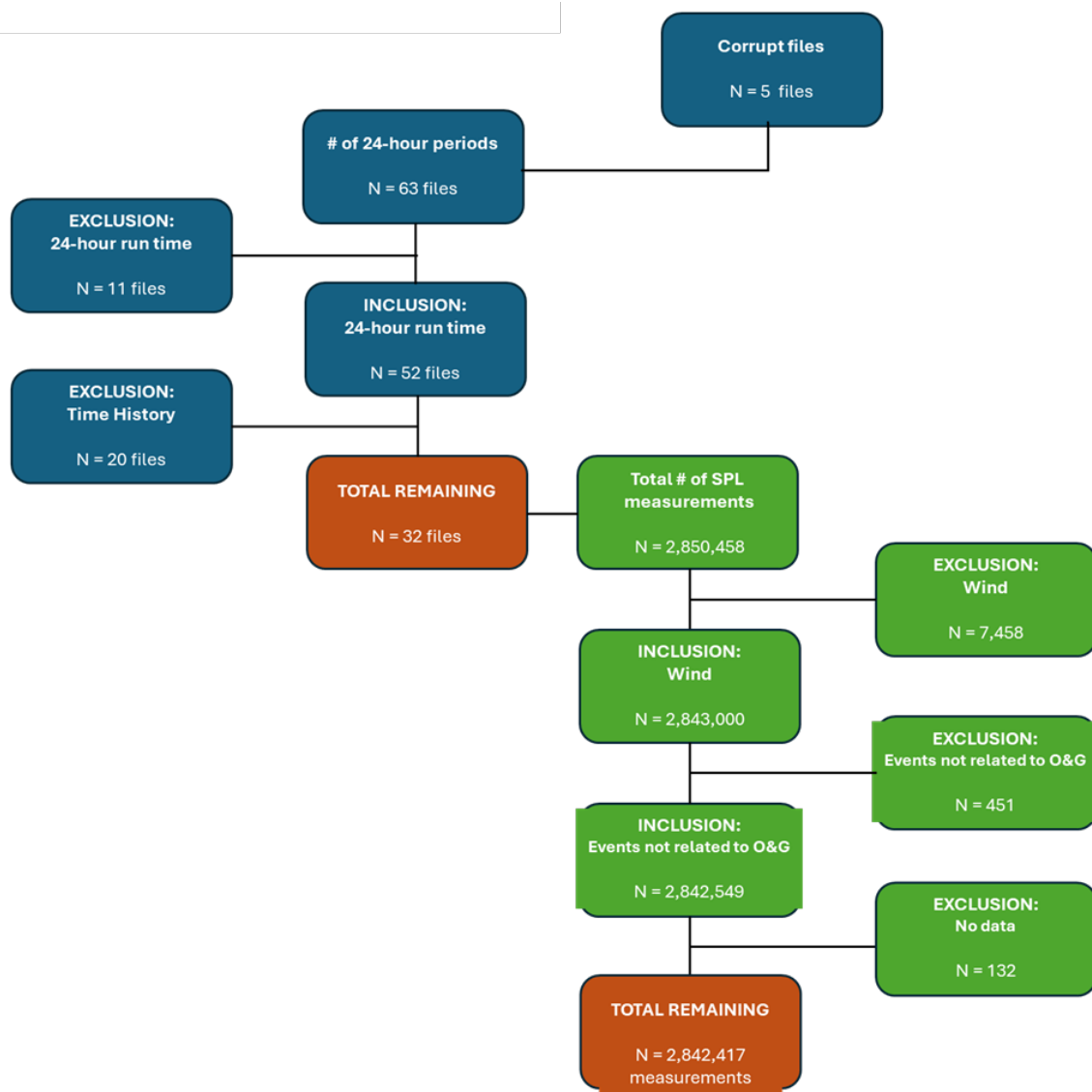


Figure E2. Noise measurements removed from site 2, monitor 1.

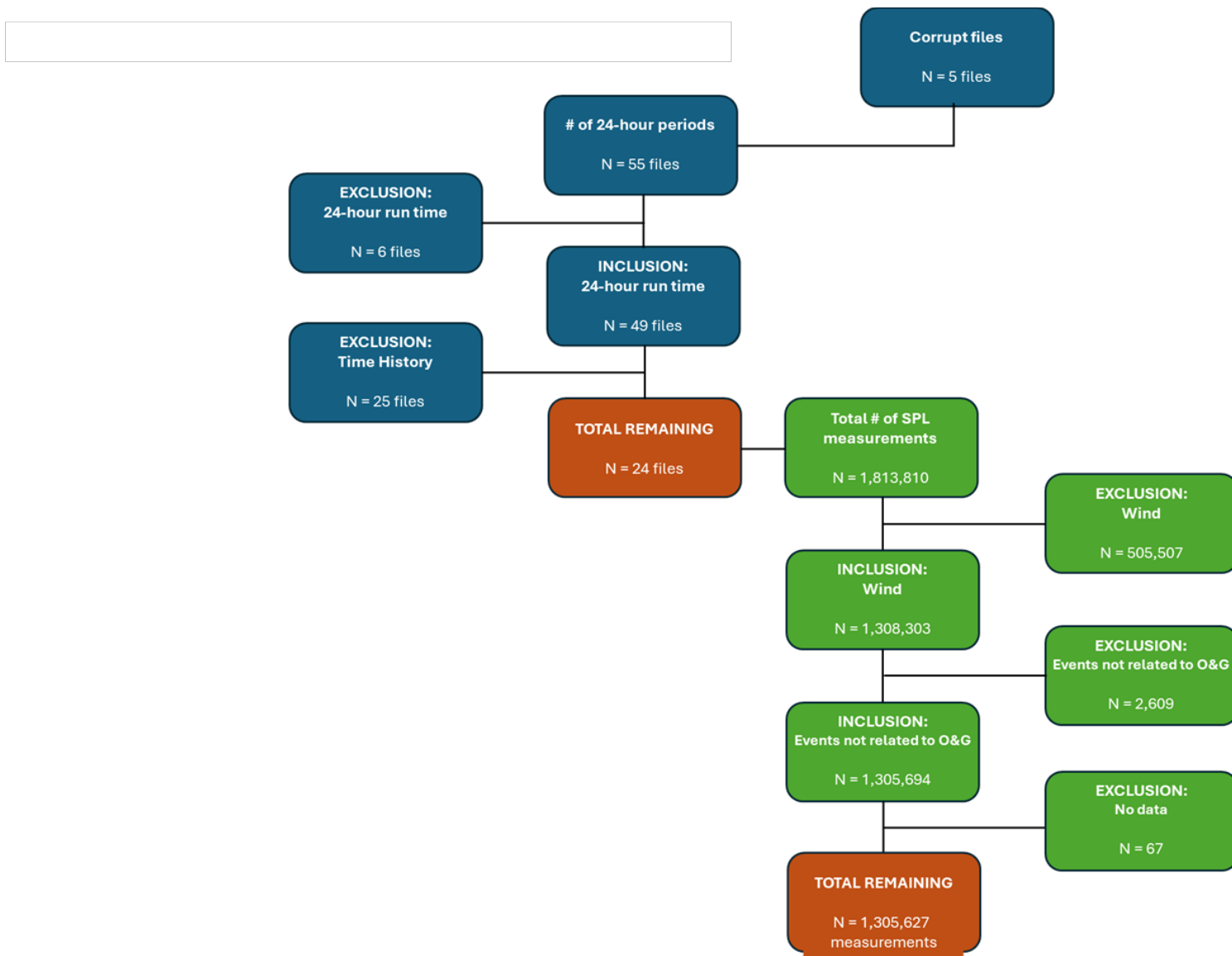


Figure E3. Noise measurements removed from site 3, monitor 2.

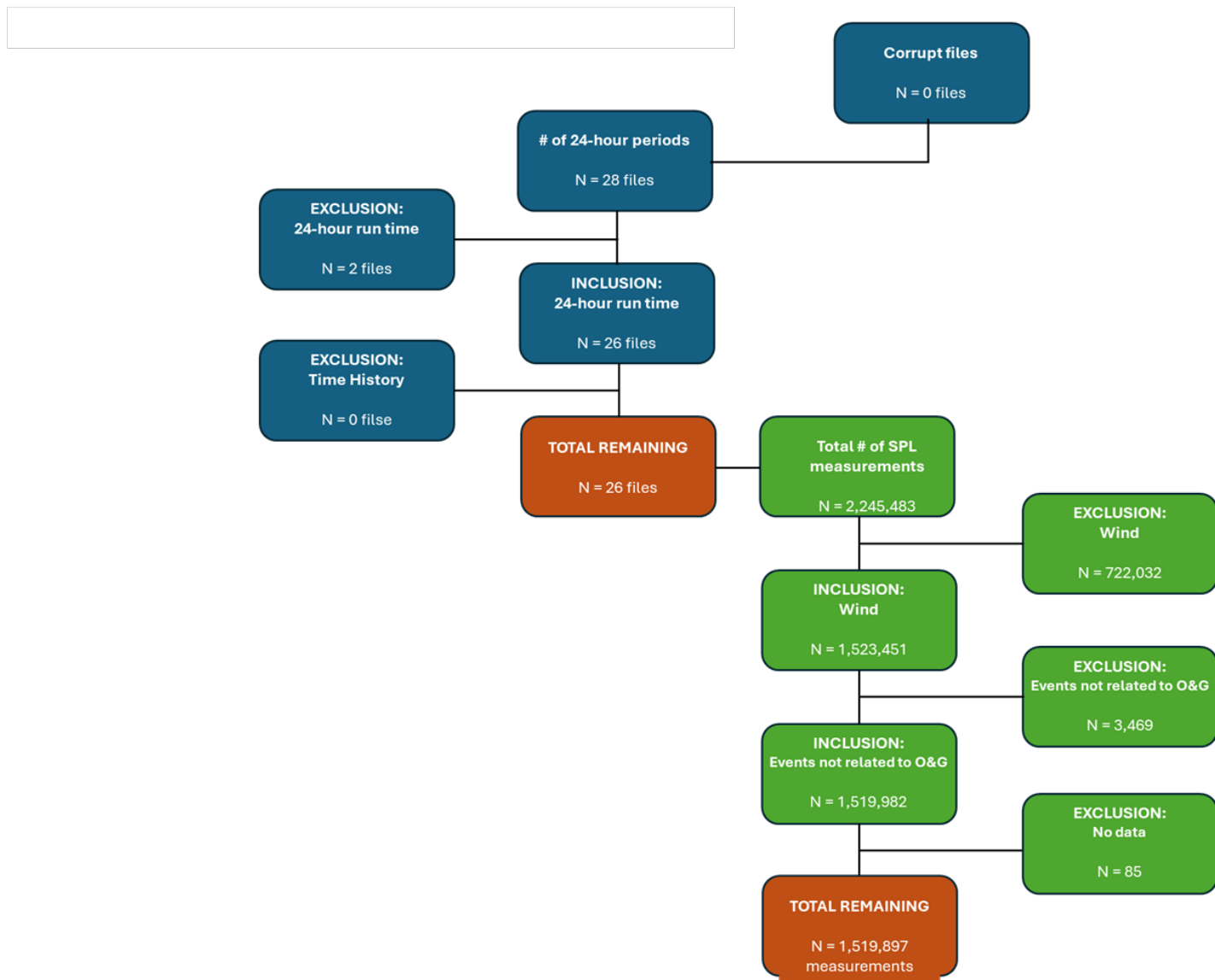


Figure E4. Noise measurements removed from site 3, monitor 1.

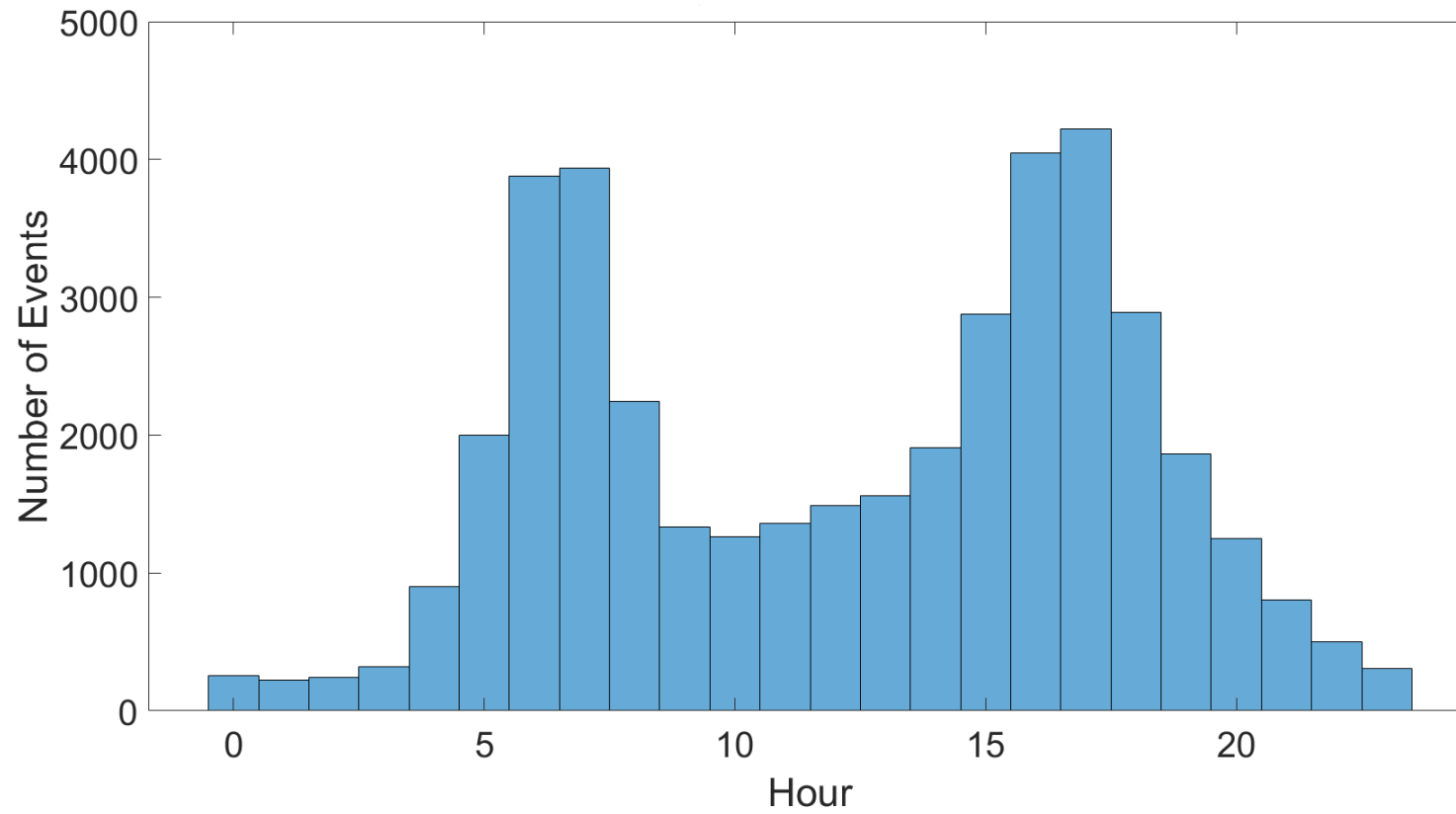


Figure E5. Number of SPLs >60 dB (Events) at site 2, monitor 2 by hour of day.

Table E1. Noise Parameters by Activity Site, Monitor, and Distance from Well Pad Center

Location (Distance from UOGD Well Pad Center)	Analytic Statistic	Noise Parameter								
		LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	LA _{eq} day (dBA)	LA _{eq} night (dBA)	LC _{eq} day (dBC)	LC _{eq} night (dBC)	L _{dn} (dBA)	L _{dn} (dBC)
Drilling site 2 monitor 1 site 1 (1,070 feet)	N	2,842,417	2,842,417	2,842,417	1,419,726	1,422,691	1,419,726	1,422,691	2,842,417	2,842,417
	Mean	49.5	71.2	24.1	50.3	48.6	71.3	71.0	56.2	78.5
	Standard deviation	3.7	3.9	4.4	3.6	3.6	3.5	4.2	5.6	6.1
	Minimum	32.0	49.1	-1.2	36.8	32.0	57.2	49.1	36.8	57.2
	Maximum	88.0	94.9	36.2	88.0	87.5	94.9	90.1	97.5	100.1
	L ₁₀	52.1	74.5	27.7	52.9	51.2	74.6	74.4	59.8	82.6
Drilling site 2 monitor 1 minimum compliance point (350 feet) ^a	Mean	59.2	80.9	24.1	60.0	58.3	81.0	80.7	65.9	88.2
	Standard deviation	3.7	3.9	4.4	3.6	3.6	3.5	4.2	5.6	6.1
	Minimum	41.7	58.8	-1.2	46.5	41.7	66.9	58.8	46.5	66.9
	Maximum	97.7	104.6	36.2	97.7	97.2	104.6	99.8	107.2	109.8
	L ₁₀	61.8	84.2	27.7	62.6	60.9	84.3	84.1	69.5	92.3
Drilling site 2, monitor 1 maximum compliance point (1,975 feet) ^a	Mean	44.2	65.9	24.1	45.0	43.2	66.0	65.7	50.8	73.2
	Standard deviation	3.7	3.9	4.4	3.6	3.6	3.5	4.2	5.6	6.1
	Minimum	26.7	43.8	-1.2	31.5	26.7	51.9	43.8	31.5	51.9
	Maximum	82.7	89.6	36.2	82.7	82.2	89.6	84.8	92.2	94.8
	L ₁₀	46.8	69.2	27.7	47.6	45.9	69.3	69.1	54.5	77.3
Drilling site 2, monitor 2 (1,430 feet)	N	4,131,612	4,131,612	4,131,612	2,034,359	2,097,253	2,034,359	2,097,253	4,131,612	4,131,612
	Mean	50.9	69.0	22.6	51.5	50.2	68.5	69.5	57.8	76.9
	SD	5.3	4.7	5.8	6.0	4.6	4.2	5.1	7.3	7.2
	Min	28.1	45.8	-1.2	30.5	28.1	48.6	45.8	30.5	48.6
	Max	70.0	94.3	36.5	70.0	68.4	94.3	91.7	78.4	101.7

Location (Distance from UOGD Well Pad Center)	Analytic Statistic	Noise Parameter								
		LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	LA _{eq} day (dBA)	LA _{eq} night (dBA)	LC _{eq} day (dBC)	LC _{eq} night (dBC)	L _{dn} (dBA)	L _{dn} (dBC)
	L ₁₀	55.2	72.1	26.6	56.1	53.6	71.2	72.7	61.0	81.3
Drilling site 2, monitor 2 Minimum compliance point (350 feet)*	Mean	63.1	81.3	22.6	63.7	62.4	80.7	81.7	70.0	89.1
	SD	5.3	4.7	5.8	6.0	4.6	4.2	5.1	7.3	7.2
	Min	40.3	58.0	-1.2	42.7	40.3	60.8	58.0	42.7	60.8
	Max	82.2	106.5	36.5	82.2	80.6	106.5	103.9	90.6	113.9
	L ₁₀	67.4	84.3	26.6	68.3	65.8	83.4	84.9	73.2	93.5
Drilling site 2, monitor 2 Maximum compliance point (1,975 feet)*	Mean	48.1	66.2	22.6	48.7	47.4	65.7	66.7	55.0	74.1
	SD	5.3	4.7	5.8	6.0	4.6	4.2	5.1	7.3	7.2
	Min	25.3	43.0	-1.2	27.7	25.3	45.8	43.0	27.7	45.8
	Max	67.2	91.5	36.5	67.2	65.6	91.5	88.9	75.6	98.9
	L ₁₀	52.4	69.366	26.6	53.3	50.8	68.4	69.9	58.2	78.5
Coil removal and mill out site 3, monitor 1 (386 feet from pad b)	N	1,519,897	1,519,897	1,519,897	726,184	793,713	726,184	793,713	1,519,897	1,519,897
	Mean	56.4	72.6	19.4	57.1	55.5	72.2	72.9	63.2	80.4
	Standard deviation	2.7	2.2	2.2	2.7	2.8	1.8	2.5	5.8	5.4
	Minimum	43.1	63.2	-1.7	44.2	43.1	63.8	63.2	44.2	63.8
	Maximum	101.9	100.9	34.9	101.8	101.9	100.2	100.9	111.9	110.9
	L ₁₀	56.3	73.8	21.0	56.1	56.4	73.7	73.9	65.2	83.0
Coil removal and mill out site 3, monitor 1 Minimum compliance point (350 feet)*	Mean	57.2	73.4	19.4	58.0	56.3	73.0	73.7	64.1	81.2
	Standard deviation	2.7	2.2	2.2	2.7	2.8	1.8	2.5	5.8	5.4
	Minimum	44.0	64.1	-1.7	45.1	44.0	64.7	64.1	45.1	64.7
	Maximum	102.8	101.8	34.9	102.7	102.8	101.1	101.8	112.8	111.8
	L ₁₀	57.2	74.7	21.0	57.0	57.3	74.6	74.8	66.1	83.9
	Mean	42.2	58.4	19.4	43.0	41.3	58.0	58.7	49.0	66.2

Location (Distance from UOGD Well Pad Center)	Analytic Statistic	Noise Parameter								
		LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	LA _{eq} day (dBA)	LA _{eq} night (dBA)	LC _{eq} day (dBC)	LC _{eq} night (dBC)	L _{dn} (dBA)	L _{dn} (dBC)
Coil removal and mill out site 3, monitor 1 Maximum compliance point (1,975 feet)*	Standard deviation	2.7	2.2	2.2	2.7	2.8	1.8	2.5	5.8	5.4
	Minimum	28.9	49.0	-1.7	30.0	28.9	49.6	49.0	30.0	49.6
	Maximum	87.7	86.7	34.9	87.6	87.7	86.0	86.7	97.7	96.7
	L ₁₀	42.1	59.6	21.0	41.9	42.2	59.5	59.7	51.0	68.8
Fracking site 3, monitor 2 (1,023 feet from pad a)	N	1,305,627	1,305,627	1,305,627	570,516	735,111	570,516	735,111	1,305,627	1,305,627
	Mean	55.5	71.3	17.4	55.5	55.4	71.6	71.1	63.3	79.0
	Standard deviation	2.8	2.3	2.2	3.4	2.2	2.6	2.1	5.8	5.4
	Minimum	41.6	62.7	-1.0	41.6	46.2	62.7	64.3	41.6	62.7
	Maximum	94.5	102.3	40.7	92.2	94.5	96.1	102.3	104.5	112.3
	L ₁₀	56.5	72.9	18.9	57.4	56.2	73.4	72.5	65.5	81.9
Fracking site 3, monitor 2 minimum compliance point (350 feet) ^a	Mean	64.8	80.6	17.4	64.8	64.7	80.9	80.4	72.6	88.3
	Standard deviation	2.8	2.3	2.2	3.4	2.2	2.6	2.1	5.8	5.4
	Minimum	50.9	72.0	-1.0	50.9	55.5	72.0	73.6	50.9	72.0
	Maximum	103.8	111.6	40.7	101.5	103.8	105.4	111.6	113.8	121.6
	L ₁₀	65.8	82.2	18.9	66.7	65.5	82.7	81.8	74.8	91.2
Fracking site 3, monitor 2 maximum compliance point (1,975 feet) ^a	Mean	49.7	65.6	17.4	49.8	49.7	65.9	65.4	57.5	73.2
	Standard deviation	2.8	2.3	2.2	3.4	2.2	2.6	2.1	5.8	5.4
	Minimum	35.9	57.0	-1.0	35.9	40.5	57.0	58.6	35.9	57.0
	Maximum	88.8	96.6	40.7	86.5	88.8	90.4	96.6	98.8	106.6
	L ₁₀	50.8	67.2	18.9	51.7	50.5	67.7	66.8	59.8	76.2

^aModeled from values at noise monitor location.

dB = decibel; dBA = A-weighted decibel; dBC = C-weighted decibel; N = number of sound pressure level measurements; LA_{eq} = equivalent continuous sound pressure level (dBA,); LC_{eq} = equivalent continuous sound pressure level (dBC); [LC_{eq} = LA_{eq}] = difference between LC_{eq} and LA_{eq}; L_{dn} = day night average sound level; LA_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); LA_{Night} = LA_{eq} for nighttime period (7:00 pm. to 7:00 a.m.); L₁₀ = 90th percentile sound pressure level.

Table E2. Daily Average Statistics at the Measurement Location for Site 2 Monitor 1 (1,070')

Date	At Measurement Location (1,070')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
09/01/2023	51.3	69.5	22.5	57.8	52.3	50.1	52.8	51.8	42.4	88.0	89.2
09/02/2023	49.1	68.3	20.9	56.9	48.5	49.6	52.6	51.3	44.6	84.7	85.3
09/03/2023	49.3	69.2	21.6	56.3	49.8	48.8	53.3	51.9	43.2	72.5	94.9
09/04/2023	48.8	68.9	22.1	55.7	49.4	48.1	52.8	51.3	43.6	69.0	90.1
09/10/2023	49.7	69.4	20.3	57.1	49.7	49.7	53.3	52.3	45.1	68.1	85.8
09/12/2023	46.9	66.0	20.5	52.8	48.2	44.9	50.0	49.0	37.6	72.8	82.2
09/14/2023	49.1	71.0	23.7	54.6	50.7	46.6	52.6	51.4	43.3	70.5	88.5
09/15/2023	48.9	69.6	25.3	53.7	50.8	45.4	55.5	52.3	39.9	67.1	82.0
09/16/2023	49.9	69.1	23.6	54.6	51.8	46.3	51.8	50.1	40.8	81.5	81.0
09/17/2023	47.6	68.9	23.2	54.7	48.1	47.2	51.7	50.4	42.7	66.2	80.6
09/18/2023	48.7	68.5	21.7	55.8	49.0	48.3	52.6	51.3	43.8	67.4	81.6
09/19/2023	49.4	67.9	21.1	55.9	50.4	48.3	53.1	52.0	43.8	75.9	82.4
09/20/2023	48.4	68.9	22.8	55.4	48.9	47.9	52.4	51.4	42.7	66.9	82.9
10/14/2023	48.4	70.7	24.1	55.3	48.8	47.8	51.9	50.8	43.1	74.8	80.1
10/15/2023	48.3	70.4	24.2	55.4	48.8	47.9	51.5	50.6	43.0	76.4	87.7
10/16/2023	49.3	70.1	23.1	55.8	50.1	48.2	53.3	51.6	44.0	66.3	78.7
10/17/2023	48.6	70.1	24.1	55.5	49.2	48.0	53.0	51.7	42.8	69.1	80.1
10/18/2023	50.5	71.9	23.5	58.3	49.9	51.0	55.2	53.6	44.2	72.8	87.8
10/19/2023	49.2	70.8	23.4	55.7	50.1	48.1	53.4	51.8	42.7	70.3	81.1
10/20/2023	48.8	70.4	24.0	56.0	49.0	48.6	52.7	51.6	42.4	68.9	79.7
10/21/2023	48.5	69.5	23.1	55.4	49.1	47.8	52.5	51.3	43.5	71.4	80.9
10/22/2023	47.6	70.8	24.2	55.4	47.0	48.1	50.5	49.7	43.8	69.6	79.6
10/23/2023	50.6	71.5	24.3	58.7	49.6	51.4	56.3	54.2	42.5	71.3	81.1
10/24/2023	50.4	72.4	23.5	57.3	50.9	49.8	54.1	53.2	44.3	70.8	93.5
10/26/2023	52.1	73.8	25.3	56.5	54.2	48.0	57.1	55.9	44.4	81.6	85.9

Date	At Measurement Location (1,070')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
10/27/2023	51.2	73.9	24.9	56.6	52.9	48.5	55.9	54.1	45.8	67.0	82.7
10/28/2023	51.1	74.9	24.9	57.4	52.1	49.7	54.8	53.4	47.5	73.6	82.5
10/29/2023	50.4	73.3	26.7	56.5	51.6	48.7	51.2	50.4	43.4	81.5	82.8
10/30/2023	47.8	73.5	27.7	54.6	48.4	47.1	52.1	50.7	43.1	66.1	82.1
10/31/2023	49.6	72.2	25.7	56.1	50.6	48.4	54.5	53.0	42.5	73.3	82.6
11/01/2023	49.3	73.3	26.4	55.2	50.7	47.3	53.7	52.5	43.2	67.9	83.4
11/02/2023	48.5	72.1	26.0	55.0	49.3	47.4	52.8	51.4	43.2	68.7	81.5
11/03/2023	51.1	72.7	24.6	58.7	50.8	51.4	56.4	54.8	43.3	65.6	87.1

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} - LA_{eq}] = difference between LC_{eq} and LA_{eq}.

Table E3. Daily Average Statistics for Site 2, Monitor 1 Extrapolated to the Minimum Compliance Point (350')

Date	Extrapolated to Minimum Compliance Point (350')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
09/01/2023	61.1	79.2	22.5	67.5	62.0	59.8	62.5	61.5	52.1	97.7	98.9
09/02/2023	58.8	78.0	20.9	66.6	58.2	59.3	62.3	61.0	54.3	94.4	95.0
09/03/2023	59.0	78.9	21.6	66.1	59.5	58.5	63.0	61.6	52.9	82.2	104.6
09/04/2023	58.5	78.6	22.1	65.4	59.1	57.8	62.5	61.0	53.3	78.7	99.8
09/10/2023	59.4	79.2	20.3	66.8	59.4	59.4	63.0	62.0	54.8	77.8	95.5
09/12/2023	56.6	75.7	20.5	62.5	57.9	54.7	59.7	58.7	47.3	82.5	91.9
09/14/2023	58.8	80.7	23.7	64.3	60.4	56.3	62.3	61.1	53.0	80.2	98.2
09/15/2023	58.6	79.4	25.3	63.4	60.5	55.1	65.2	62.0	49.6	76.8	91.7
09/16/2023	59.6	78.9	23.6	64.3	61.5	56.0	61.5	59.8	50.5	91.2	90.7
09/17/2023	57.3	78.6	23.2	64.4	57.8	56.9	61.4	60.1	52.4	75.9	90.3
09/18/2023	58.4	78.2	21.7	65.5	58.7	58.0	62.3	61.0	53.5	77.1	91.3
09/19/2023	59.1	77.6	21.1	65.6	60.1	58.0	62.8	61.7	53.5	85.6	92.1
09/20/2023	58.1	78.7	22.8	65.1	58.6	57.6	62.1	61.1	52.4	76.6	92.6
10/14/2023	58.1	80.4	24.1	65.0	58.5	57.5	61.6	60.5	52.8	84.5	89.8
10/15/2023	58.1	80.1	24.2	65.1	58.5	57.6	61.2	60.3	52.7	86.1	97.4
10/16/2023	59.0	79.8	23.1	65.5	59.8	57.9	63.0	61.3	53.7	76.0	88.4
10/17/2023	58.3	79.8	24.1	65.2	58.9	57.7	62.7	61.4	52.5	78.8	89.8
10/18/2023	60.2	81.6	23.5	68.0	59.6	60.7	64.9	63.3	53.9	82.5	97.5
10/19/2023	58.9	80.5	23.4	65.4	59.8	57.8	63.1	61.5	52.4	80.0	90.8
10/20/2023	58.5	80.1	24.0	65.7	58.7	58.3	62.4	61.3	52.1	78.6	89.4
10/21/2023	58.2	79.2	23.1	65.1	58.8	57.5	62.2	61.0	53.2	81.1	90.6
10/22/2023	57.3	80.5	24.2	65.1	56.7	57.8	60.2	59.4	53.5	79.3	89.3
10/23/2023	60.3	81.2	24.3	68.4	59.4	61.1	66.0	63.9	52.2	81.0	90.8
10/24/2023	60.1	82.1	23.5	67.0	60.6	59.5	63.8	62.9	54.0	80.5	103.2
10/26/2023	61.8	83.6	25.3	66.2	63.9	57.7	66.8	65.6	54.1	91.3	95.6

Date	Extrapolated to Minimum Compliance Point (350')										
	LA_{eq} (dBA)	LC_{eq} (dBC)	LC_{eq} - LA_{eq} (dB)	L_{dn} (dBA)	L_{day} (dBA)	L_{Night} (dBA)	L₅ (dBA)	L₁₀ (dBA)	L₉₀ (dBA)	LA_{fmax} (dBA)	LC_{fmax} (dBC)
10/27/2023	60.9	83.6	24.9	66.3	62.6	58.2	65.6	63.8	55.5	76.7	92.4
10/28/2023	60.8	84.6	24.9	67.1	61.8	59.4	64.5	63.1	57.2	83.3	92.2
10/29/2023	60.1	83.0	26.7	66.2	61.3	58.4	60.9	60.1	53.1	91.2	92.5
10/30/2023	57.5	83.3	27.7	64.3	58.1	56.8	61.8	60.4	52.8	75.8	91.8
10/31/2023	59.3	81.9	25.7	65.8	60.3	58.1	64.2	62.7	52.2	83.0	92.3
11/01/2023	59.0	83.0	26.4	64.9	60.4	57.0	63.4	62.2	52.9	77.6	93.1
11/02/2023	58.2	81.8	26.0	64.7	59.0	57.1	62.5	61.1	52.9	78.4	91.2
11/03/2023	60.8	82.4	24.6	68.4	60.5	61.1	66.1	64.5	53.0	75.3	96.8

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} - LA_{eq}] = difference between LC_{eq} and LA_{eq}.

Table E4. Daily Average Statistics for Site 2, Monitor 1 Extrapolated to the Maximum Compliance Point (1,975')

Date	Extrapolated to Maximum Compliance Point (1,975')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
09/01/2023	46.0	64.2	22.5	52.4	47.0	44.8	47.5	46.5	37.1	82.7	83.9
09/02/2023	43.8	62.9	20.9	51.6	43.2	44.3	47.3	46.0	39.3	79.4	80.0
09/03/2023	44.0	63.8	21.6	51.0	44.5	43.5	48.0	46.6	37.9	67.2	89.6
09/04/2023	43.5	63.5	22.1	50.4	44.1	42.8	47.5	46.0	38.3	63.7	84.8
09/10/2023	44.4	64.1	20.3	51.8	44.4	44.4	48.0	47.0	39.8	62.8	80.5
09/12/2023	41.5	60.7	20.5	47.4	42.8	39.6	44.7	43.7	32.3	67.5	76.9
09/14/2023	43.8	65.7	23.7	49.3	45.3	41.3	47.3	46.1	38.0	65.2	83.2
09/15/2023	43.6	64.3	25.3	48.4	45.5	40.1	50.2	47.0	34.6	61.8	76.7
09/16/2023	44.6	63.8	23.6	49.3	46.5	41.0	46.5	44.8	35.5	76.2	75.7
09/17/2023	42.3	63.6	23.2	49.3	42.7	41.8	46.4	45.1	37.4	60.9	75.3
09/18/2023	43.3	63.2	21.7	50.4	43.7	43.0	47.3	46.0	38.5	62.1	76.3
09/19/2023	44.1	62.6	21.1	50.6	45.0	43.0	47.8	46.7	38.5	70.6	77.1
09/20/2023	43.1	63.6	22.8	50.0	43.6	42.5	47.1	46.1	37.4	61.6	77.6
10/14/2023	43.0	65.4	24.1	50.0	43.5	42.5	46.6	45.5	37.8	69.5	74.8
10/15/2023	43.0	65.1	24.2	50.0	43.4	42.6	46.2	45.3	37.7	71.1	82.4
10/16/2023	43.9	64.7	23.1	50.5	44.8	42.9	48.0	46.3	38.7	61.0	73.4
10/17/2023	43.3	64.8	24.1	50.2	43.9	42.7	47.7	46.4	37.5	63.8	74.8
10/18/2023	45.2	66.6	23.5	53.0	44.5	45.7	49.9	48.3	38.9	67.5	82.5
10/19/2023	43.9	65.5	23.4	50.4	44.8	42.7	48.1	46.5	37.4	65.0	75.8
10/20/2023	43.5	65.1	24.0	50.7	43.6	43.3	47.4	46.3	37.1	63.6	74.4
10/21/2023	43.2	64.2	23.1	50.0	43.8	42.5	47.2	46.0	38.2	66.1	75.6
10/22/2023	42.3	65.5	24.2	50.1	41.7	42.8	45.2	44.4	38.5	64.3	74.3
10/23/2023	45.3	66.1	24.3	53.4	44.3	46.1	51.0	48.9	37.2	66.0	75.8
10/24/2023	45.1	67.0	23.5	52.0	45.6	44.5	48.8	47.9	39.0	65.5	88.2
10/26/2023	46.8	68.5	25.3	51.2	48.9	42.7	51.8	50.6	39.1	76.3	80.6

Date	Extrapolated to Maximum Compliance Point (1,975')										
	LA_{eq} (dBA)	LC_{eq} (dBC)	LC_{eq} - LA_{eq} (dB)	L_{dn} (dBA)	L_{day} (dBA)	L_{Night} (dBA)	L₅ (dBA)	L₁₀ (dBA)	L₉₀ (dBA)	LA_{fmax} (dBA)	LC_{fmax} (dBC)
10/27/2023	45.9	68.6	24.9	51.3	47.6	43.2	50.6	48.8	40.5	61.7	77.4
10/28/2023	45.8	69.6	24.9	52.1	46.8	44.4	49.5	48.1	42.2	68.3	77.2
10/29/2023	45.0	68.0	26.7	51.1	46.2	43.4	45.9	45.1	38.1	76.2	77.5
10/30/2023	42.4	68.2	27.7	49.3	43.0	41.8	46.8	45.4	37.8	60.8	76.8
10/31/2023	44.3	66.8	25.7	50.8	45.2	43.1	49.2	47.7	37.2	68.0	77.3
11/01/2023	44.0	68.0	26.4	49.8	45.4	42.0	48.4	47.2	37.9	62.6	78.1
11/02/2023	43.1	66.8	26.0	49.7	44.0	42.1	47.5	46.1	37.9	63.4	76.2
11/03/2023	45.8	67.4	24.6	53.4	45.5	46.1	51.1	49.5	38.0	60.3	81.8

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} - LA_{eq}] = difference between LC_{eq} and LA_{eq}.

Table E5. Daily Average Statistics at the Measurement Location for Site 2, Monitor 2 (1,430')

Date	At Measurement Location (1,430')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
08/12/2023	50.4	67.9	21.1	57.7	50.5	50.3	55.9	54.0	43.0	68.4	79.9
08/13/2023	49.8	68.0	23.1	56.2	50.9	48.4	56.6	54.0	39.9	65.0	86.7
08/14/2023	50.1	65.3	21.2	57.4	50.2	50.0	57.0	54.7	38.9	65.8	81.4
08/15/2023	50.5	69.0	23.7	58.1	50.2	50.8	56.8	54.5	40.0	65.8	85.3
08/16/2023	51.1	69.0	22.4	58.6	51.0	51.2	57.0	54.9	41.5	65.8	83.9
08/18/2023	51.6	70.0	22.6	59.1	51.5	51.7	57.4	55.5	41.8	64.4	91.1
08/19/2023	50.9	69.7	22.8	57.9	51.3	50.5	57.4	55.3	41.3	66.9	88.9
08/20/2023	50.2	68.7	22.6	57.6	50.2	50.1	56.3	54.1	39.4	66.2	88.1
08/21/2023	51.4	71.1	22.0	59.1	51.4	51.5	56.9	54.7	44.6	65.7	88.0
08/22/2023	52.0	69.5	21.1	59.6	51.9	52.2	57.7	55.9	42.5	69.2	85.4
08/23/2023	51.6	67.0	20.6	58.5	52.2	50.9	57.9	56.1	41.4	64.0	92.4
08/24/2023	51.3	70.2	23.1	58.7	51.4	51.2	57.5	55.5	41.9	66.6	85.5
08/25/2023	51.9	68.9	21.4	57.9	53.3	49.9	58.2	56.6	43.2	63.7	84.0
08/26/2023	49.6	67.7	24.0	56.7	50.1	49.2	56.5	54.1	39.8	65.2	82.1
08/27/2023	49.3	70.8	24.8	56.2	50.0	48.6	55.7	53.1	40.8	65.7	89.0
08/28/2023	50.6	70.9	24.8	57.6	51.0	50.1	57.0	54.9	41.6	64.3	89.7
08/29/2023	50.8	69.0	23.5	57.9	51.1	50.5	57.2	55.1	41.3	64.5	80.7
08/30/2023	51.1	67.5	20.8	58.2	51.4	50.7	57.3	55.2	40.9	67.1	81.5
09/02/2023	50.0	70.2	24.7	57.5	49.9	50.2	56.1	53.7	40.9	65.8	81.1
09/03/2023	50.4	70.1	23.4	57.7	50.8	50.1	56.6	54.2	43.0	67.3	94.0
09/04/2023	50.3	72.7	23.5	57.1	50.9	49.6	55.9	53.8	43.6	66.7	94.3
09/06/2023	51.1	67.7	23.2	58.0	51.7	50.4	57.7	55.7	39.7	64.8	80.8
09/07/2023	51.4	69.4	23.6	58.7	51.7	51.2	57.9	56.1	40.1	66.6	82.7
09/08/2023	51.3	69.6	23.0	58.5	51.6	51.0	57.5	55.5	42.0	65.2	82.4
09/09/2023	50.6	68.8	23.3	57.8	51.0	50.3	57.1	54.8	40.7	65.1	84.8

Date	At Measurement Location (1,430')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
09/10/2023	49.3	66.7	24.3	55.0	50.9	47.0	56.7	54.0	36.9	65.5	80.1
09/11/2023	50.7	60.7	15.1	56.9	51.8	49.1	57.6	55.7	37.8	64.6	80.8
09/12/2023	50.3	64.4	19.2	57.0	51.0	49.4	57.1	55.0	38.1	66.2	81.7
09/14/2023	51.9	70.3	23.1	58.6	53.0	50.8	58.2	56.5	42.4	64.4	87.5
09/15/2023	51.5	70.2	23.8	58.2	52.4	50.6	57.9	56.2	41.5	64.8	82.9
09/16/2023	50.1	69.2	23.3	57.0	50.5	49.5	56.4	53.9	42.0	66.0	82.3
09/17/2023	49.6	67.9	22.4	56.7	50.0	49.2	56.0	53.3	40.9	65.7	83.5
09/18/2023	51.5	69.5	21.5	58.4	52.2	50.8	57.5	55.6	42.5	65.6	86.6
09/19/2023	51.6	69.7	22.0	58.3	52.5	50.6	57.6	55.8	43.1	65.9	83.4
09/20/2023	51.7	67.8	20.8	58.5	52.4	50.9	57.9	56.0	43.1	66.6	85.6
09/24/2023	49.2	68.2	23.8	55.8	50.0	48.1	55.8	52.9	39.8	68.3	82.7
09/25/2023	51.0	67.9	21.8	58.1	51.4	50.6	57.3	55.2	39.7	66.7	81.6
09/26/2023	51.2	68.0	22.4	58.3	51.6	50.7	57.8	55.7	40.8	65.3	80.6
09/27/2023	51.6	69.4	22.4	58.3	52.5	50.6	57.9	56.1	41.0	68.6	80.9
10/06/2023	51.1	60.6	14.8	57.3	52.3	49.5	57.9	56.1	38.9	70.0	79.5
10/07/2023	49.8	60.3	14.5	56.4	50.7	48.8	56.6	54.1	38.8	67.4	83.4
10/19/2023	51.4	69.1	22.9	58.0	52.3	50.3	57.9	56.0	40.5	69.9	80.9
11/01/2023	52.3	70.1	22.3	58.4	54.0	50.2	58.3	56.7	43.7	68.4	84.8
11/02/2023	52.1	71.0	22.9	58.5	53.4	50.6	58.0	56.3	43.9	68.1	82.8
11/04/2023	51.3	67.5	20.6	57.3	52.8	49.4	57.8	55.8	42.5	65.7	81.2
11/05/2023	50.6	72.1	23.5	57.1	51.5	49.5	56.3	54.3	43.2	64.9	93.1
11/11/2023	50.0	70.9	24.6	56.7	50.7	49.1	56.3	53.7	42.3	64.7	89.2
11/12/2023	50.2	67.6	22.1	56.7	51.2	49.0	56.9	54.2	40.7	66.2	81.8
11/15/2023	51.7	69.4	23.1	58.2	52.7	50.5	58.2	56.4	41.5	64.1	80.8
11/19/2023	50.4	66.8	21.6	57.4	50.9	49.8	56.8	54.4	41.0	64.9	82.5

dB = decibel; $L_{\text{day}} = LA_{\text{eq}}$ for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; $L_{\text{Night}} = LA_{\text{eq}}$ for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; $L_{5/10/90p}$ = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; $[LC_{\text{eq}} - LA_{\text{eq}}]$ = difference between LC_{eq} and LA_{eq} .

Table E6. Daily Average Statistics for Site 2, Monitor 2 Extrapolated to the Minimum Compliance Point (350')

Date	Extrapolated to Minimum Compliance Point (350')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
08/12/2023	62.6	80.1	21.1	70.0	62.7	62.5	68.1	66.2	55.2	80.6	92.1
08/13/2023	62.0	80.2	23.1	68.4	63.1	60.6	68.8	66.2	52.1	77.2	98.9
08/14/2023	62.3	77.5	21.2	69.6	62.4	62.2	69.2	66.9	51.1	78.0	93.6
08/15/2023	62.7	81.2	23.7	70.3	62.4	63.0	69.0	66.7	52.2	78.0	97.5
08/16/2023	63.3	81.2	22.4	70.8	63.3	63.4	69.2	67.1	53.7	78.0	96.1
08/18/2023	63.8	82.2	22.6	71.3	63.8	63.9	69.6	67.7	54.0	76.6	103.3
08/19/2023	63.1	81.9	22.8	70.2	63.6	62.7	69.6	67.5	53.5	79.1	101.1
08/20/2023	62.4	80.9	22.6	69.8	62.4	62.3	68.5	66.3	51.6	78.4	100.3
08/21/2023	63.7	83.4	22.0	71.3	63.6	63.7	69.1	66.9	56.8	77.9	100.2
08/22/2023	64.3	81.7	21.1	71.8	64.2	64.4	69.9	68.1	54.7	81.4	97.6
08/23/2023	63.8	79.2	20.6	70.7	64.4	63.1	70.1	68.3	53.6	76.2	104.6
08/24/2023	63.6	82.4	23.1	70.9	63.7	63.4	69.7	67.7	54.1	78.8	97.7
08/25/2023	64.1	81.1	21.4	70.1	65.5	62.2	70.4	68.8	55.4	75.9	96.2
08/26/2023	61.9	79.9	24.0	68.9	62.3	61.4	68.7	66.3	52.0	77.4	94.3
08/27/2023	61.6	83.0	24.8	68.4	62.3	60.8	67.9	65.3	53.0	77.9	101.2
08/28/2023	62.8	83.2	24.8	69.8	63.2	62.3	69.2	67.1	53.8	76.5	101.9
08/29/2023	63.0	81.3	23.5	70.2	63.3	62.7	69.4	67.3	53.5	76.7	92.9
08/30/2023	63.3	79.8	20.8	70.4	63.6	62.9	69.5	67.4	53.1	79.3	93.7
09/02/2023	62.3	82.5	24.7	69.8	62.1	62.4	68.3	65.9	53.1	78.0	93.3
09/03/2023	62.7	82.4	23.4	69.9	63.0	62.3	68.8	66.4	55.2	79.5	106.2
09/04/2023	62.6	84.9	23.5	69.4	63.1	61.9	68.1	66.0	55.8	78.9	106.5
09/06/2023	63.3	80.0	23.2	70.2	63.9	62.6	69.9	67.9	51.9	77.0	93.0
09/07/2023	63.7	81.6	23.6	70.9	63.9	63.4	70.1	68.3	52.3	78.8	94.9
09/08/2023	63.5	81.8	23.0	70.7	63.8	63.2	69.7	67.7	54.2	77.4	94.6
09/09/2023	62.9	81.1	23.3	70.0	63.2	62.5	69.3	67.0	52.9	77.3	97.0

Date	Extrapolated to Minimum Compliance Point (350')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
09/10/2023	61.6	79.0	24.3	67.2	63.1	59.3	68.9	66.2	49.1	77.7	92.3
09/11/2023	62.9	72.9	15.1	69.1	64.1	61.3	69.8	67.9	50.0	76.8	93.0
09/12/2023	62.5	76.7	19.2	69.2	63.2	61.6	69.3	67.2	50.3	78.4	93.9
09/14/2023	64.1	82.6	23.1	70.8	65.2	63.0	70.4	68.7	54.6	76.6	99.7
09/15/2023	63.8	82.4	23.8	70.4	64.6	62.8	70.1	68.4	53.7	77.0	95.1
09/16/2023	62.3	81.4	23.3	69.3	62.8	61.8	68.6	66.1	54.2	78.2	94.5
09/17/2023	61.8	80.2	22.4	68.9	62.2	61.4	68.2	65.5	53.1	77.9	95.7
09/18/2023	63.8	81.7	21.5	70.7	64.4	63.1	69.7	67.8	54.7	77.8	98.8
09/19/2023	63.9	81.9	22.0	70.5	64.8	62.8	69.8	68.0	55.3	78.1	95.6
09/20/2023	64.0	80.0	20.8	70.8	64.7	63.2	70.1	68.2	55.3	78.8	97.8
09/24/2023	61.4	80.5	23.8	68.0	62.2	60.4	68.0	65.1	52.0	80.5	94.9
09/25/2023	63.2	80.2	21.8	70.3	63.6	62.8	69.5	67.4	51.9	78.9	93.8
09/26/2023	63.4	80.2	22.4	70.5	63.8	62.9	70.0	67.9	53.0	77.5	92.8
09/27/2023	63.8	81.6	22.4	70.5	64.7	62.8	70.1	68.3	53.2	80.8	93.1
10/06/2023	63.3	72.8	14.8	69.6	64.5	61.8	70.1	68.3	51.1	82.2	91.7
10/07/2023	62.1	72.5	14.5	68.7	62.9	61.0	68.8	66.3	51.0	79.6	95.6
10/19/2023	63.6	81.3	22.9	70.2	64.5	62.5	70.1	68.2	52.7	82.1	93.1
11/01/2023	64.6	82.3	22.3	70.6	66.2	62.4	70.5	68.9	55.9	80.6	97.0
11/02/2023	64.3	83.2	22.9	70.8	65.6	62.8	70.2	68.5	56.1	80.3	95.0
11/04/2023	63.6	79.8	20.6	69.5	65.0	61.6	70.0	68.0	54.7	77.9	93.4
11/05/2023	62.9	84.3	23.5	69.4	63.8	61.7	68.5	66.5	55.4	77.1	105.3
11/11/2023	62.2	83.1	24.6	68.9	62.9	61.4	68.5	65.9	54.5	76.9	101.4
11/12/2023	62.4	79.8	22.1	68.9	63.4	61.2	69.1	66.4	52.9	78.4	94.0
11/15/2023	63.9	81.6	23.1	70.5	65.0	62.7	70.4	68.6	53.7	76.3	93.0
11/19/2023	62.6	79.0	21.6	69.6	63.1	62.1	69.0	66.6	53.2	77.1	94.7

dB = decibel; $L_{day} = LA_{eq}$ for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; $L_{Night} = LA_{eq}$ for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; $L_{5/10/90p}$ = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; $[LC_{eq} - LA_{eq}]$ = difference between LC_{eq} and LA_{eq} .

Table E7. Daily Average Statistics for Site 2, Monitor 2 Extrapolated to the Maximum Compliance Point (1,975')

Date	Extrapolated to Maximum Compliance Point (1,975')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
08/12/2023	47.6	65.1	21.1	54.9	47.7	47.5	53.1	51.2	40.2	65.6	77.1
08/13/2023	47.0	65.2	23.1	53.4	48.1	45.6	53.8	51.2	37.1	62.2	83.9
08/14/2023	47.3	62.5	21.2	54.6	47.4	47.2	54.2	51.9	36.1	63.0	78.6
08/15/2023	47.7	66.2	23.7	55.3	47.4	48.0	54.0	51.7	37.2	63.0	82.5
08/16/2023	48.3	66.2	22.4	55.8	48.2	48.4	54.2	52.1	38.7	63.0	81.1
08/18/2023	48.8	67.2	22.6	56.3	48.7	48.9	54.6	52.7	39.0	61.6	88.3
08/19/2023	48.1	66.9	22.8	55.1	48.5	47.7	54.6	52.5	38.5	64.1	86.1
08/20/2023	47.4	65.9	22.6	54.8	47.4	47.3	53.5	51.3	36.6	63.4	85.3
08/21/2023	48.6	68.3	22.0	56.3	48.6	48.7	54.1	51.9	41.8	62.9	85.2
08/22/2023	49.2	66.7	21.1	56.8	49.1	49.3	54.9	53.1	39.7	66.4	82.6
08/23/2023	48.8	64.2	20.6	55.7	49.4	48.1	55.1	53.3	38.6	61.2	89.6
08/24/2023	48.5	67.4	23.1	55.9	48.6	48.4	54.7	52.7	39.1	63.8	82.7
08/25/2023	49.1	66.1	21.4	55.1	50.5	47.1	55.4	53.8	40.4	60.9	81.2
08/26/2023	46.8	64.9	24.0	53.9	47.3	46.4	53.7	51.3	37.0	62.4	79.3
08/27/2023	46.5	68.0	24.8	53.4	47.2	45.8	52.9	50.3	38.0	62.9	86.2
08/28/2023	47.8	68.1	24.8	54.8	48.2	47.3	54.2	52.1	38.8	61.5	86.9
08/29/2023	48.0	66.2	23.5	55.1	48.3	47.7	54.4	52.3	38.5	61.7	77.9
08/30/2023	48.2	64.7	20.8	55.4	48.6	47.9	54.5	52.4	38.1	64.3	78.7
09/02/2023	47.2	67.4	24.7	54.7	47.1	47.4	53.3	50.9	38.1	63.0	78.3
09/03/2023	47.6	67.3	23.4	54.9	48.0	47.3	53.8	51.4	40.2	64.5	91.2
09/04/2023	47.5	69.9	23.5	54.3	48.1	46.8	53.1	51.0	40.8	63.9	91.5
09/06/2023	48.3	64.9	23.2	55.2	48.9	47.6	54.9	52.9	36.9	62.0	78.0
09/07/2023	48.6	66.6	23.6	55.8	48.9	48.4	55.1	53.3	37.3	63.8	79.9
09/08/2023	48.5	66.8	23.0	55.7	48.8	48.2	54.7	52.7	39.2	62.4	79.6
09/09/2023	47.8	66.0	23.3	55.0	48.2	47.5	54.3	52.0	37.9	62.3	82.0

Date	Extrapolated to Maximum Compliance Point (1,975')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
09/10/2023	46.5	63.9	24.3	52.2	48.1	44.2	53.9	51.2	34.1	62.7	77.3
09/11/2023	47.9	57.9	15.1	54.1	49.0	46.3	54.8	52.9	35.0	61.8	78.0
09/12/2023	47.5	61.6	19.2	54.2	48.2	46.6	54.3	52.2	35.3	63.4	78.9
09/14/2023	49.1	67.5	23.1	55.8	50.2	47.9	55.4	53.7	39.6	61.6	84.7
09/15/2023	48.7	67.4	23.8	55.4	49.5	47.7	55.1	53.4	38.7	62.0	80.1
09/16/2023	47.3	66.4	23.3	54.2	47.7	46.7	53.6	51.1	39.2	63.2	79.5
09/17/2023	46.8	65.1	22.4	53.9	47.1	46.4	53.2	50.5	38.1	62.9	80.7
09/18/2023	48.7	66.7	21.5	55.6	49.4	48.0	54.7	52.8	39.7	62.8	83.8
09/19/2023	48.8	66.9	22.0	55.5	49.7	47.8	54.8	53.0	40.3	63.1	80.6
09/20/2023	48.9	65.0	20.8	55.7	49.6	48.1	55.1	53.2	40.3	63.8	82.8
09/24/2023	46.4	65.4	23.8	53.0	47.2	45.3	53.0	50.1	37.0	65.5	79.9
09/25/2023	48.2	65.1	21.8	55.3	48.6	47.8	54.5	52.4	36.9	63.9	78.8
09/26/2023	48.4	65.2	22.4	55.4	48.8	47.9	55.0	52.9	38.0	62.5	77.8
09/27/2023	48.8	66.6	22.4	55.5	49.7	47.8	55.1	53.3	38.2	65.8	78.1
10/06/2023	48.3	57.8	14.8	54.5	49.5	46.7	55.1	53.3	36.1	67.2	76.7
10/07/2023	47.0	57.5	14.5	53.6	47.9	46.0	53.8	51.3	36.0	64.6	80.6
10/19/2023	48.6	66.2	22.9	55.2	49.5	47.5	55.1	53.2	37.7	67.1	78.1
11/01/2023	49.5	67.3	22.3	55.6	51.2	47.4	55.5	53.9	40.9	65.6	82.0
11/02/2023	49.3	68.2	22.9	55.7	50.6	47.8	55.2	53.5	41.1	65.3	80.0
11/04/2023	48.5	64.7	20.6	54.5	50.0	46.5	55.0	53.0	39.7	62.9	78.4
11/05/2023	47.8	69.3	23.5	54.3	48.7	46.7	53.5	51.5	40.4	62.1	90.3
11/11/2023	47.1	68.1	24.6	53.9	47.9	46.3	53.5	50.9	39.5	61.9	86.4
11/12/2023	47.4	64.7	22.1	53.9	48.4	46.2	54.1	51.4	37.9	63.4	79.0
11/15/2023	48.9	66.6	23.1	55.4	49.9	47.7	55.4	53.6	38.7	61.3	78.0
11/19/2023	47.6	64.0	21.6	54.6	48.1	47.0	54.0	51.5	38.2	62.1	79.7

dB = decibel; $L_{day} = LA_{eq}$ for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; $L_{Night} = LA_{eq}$ for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; $L_{5/10/90p}$ = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; $[LC_{eq} - LA_{eq}]$ = difference between LC_{eq} and LA_{eq} .

Table E8. Daily Average Statistics at the Measurement Location for Site 3, Monitor 1 (386')

Date	At Measurement Location (386')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
06/05/2024	52.5	71.1	19.8	60.2	52.9	52.2	55.3	54.4	48.5	78.0	88.2
06/06/2024	58.8	71.4	18.3	62.6	61.0	53.9	57.2	56.4	50.1	101.8	100.2
06/07/2024	53.9	73.2	19.9	62.5	51.9	55.0	58.0	57.2	49.4	74.5	96.3
06/08/2024	54.7	73.1	18.7	62.9	55.1	54.6	56.6	56.0	51.7	76.1	95.6
06/10/2024	62.3	73.0	19.4	65.7	64.3	56.9	56.3	55.6	49.6	101.5	99.9
06/11/2024	56.5	74.0	18.0	63.5	56.4	56.5	58.8	58.0	53.5	81.4	95.5
06/12/2024	58.0	72.7	20.1	64.8	58.6	57.3	56.4	55.4	48.7	99.3	97.7
06/13/2024	54.2	72.8	19.3	62.0	54.6	53.9	57.6	56.7	50.9	66.7	88.2
06/14/2024	60.1	72.1	18.4	63.7	62.1	55.0	57.4	56.6	50.6	99.7	100.9
06/15/2024	52.7	71.0	19.4	60.5	52.0	53.4	56.5	55.5	48.8	69.1	90.6
06/16/2024	54.6	71.7	17.9	63.2	54.6	54.6	58.0	57.0	51.4	63.8	80.1
06/17/2024	54.4	71.7	18.0	62.4	54.3	54.4	57.6	56.8	50.7	70.1	83.5
06/18/2024	53.8	73.4	19.5	62.5	52.5	54.5	57.3	56.0	49.2	73.3	95.2
06/19/2024	55.1	73.1	18.4	64.7	57.0	55.0	57.7	57.0	53.0	77.3	86.0
06/20/2024	53.5	71.3	18.8	61.5	52.0	54.8	56.9	56.0	49.9	79.5	88.3
06/21/2024	57.4	72.5	17.7	66.0	55.0	59.3	58.5	57.7	51.7	99.4	97.7
06/22/2024	56.4	72.7	20.0	65.5	52.9	58.4	55.0	54.4	47.6	101.9	100.3
06/23/2024	58.7	72.1	20.5	66.9	57.3	59.9	56.1	54.9	48.6	101.8	100.2
06/24/2024	56.9	74.6	19.9	62.9	58.2	55.0	57.8	56.3	51.3	96.6	99.9
06/25/2024	53.0	72.7	19.4	60.6	53.1	52.9	55.6	54.6	49.9	76.4	97.3
06/26/2024	54.7	73.1	19.1	62.2	55.3	54.2	57.4	56.4	51.3	86.6	91.8
06/27/2024	55.9	73.5	19.4	63.8	54.9	56.7	58.4	56.8	48.8	88.7	92.9
06/28/2024	53.8	72.9	19.9	60.6	54.8	52.7	57.5	56.4	50.0	78.2	96.7
06/29/2024	52.0	71.1	19.6	58.7	52.0	52.1	55.2	54.0	49.1	73.1	88.3
06/30/2024	52.0	71.6	20.2	59.6	51.9	52.1	55.1	54.1	49.2	71.4	86.7

Date	At Measurement Location (386')										
	LA_{eq} (dBA)	LC_{eq} (dBC)	LC_{eq} - LA_{eq} (dB)	L_{dn} (dBA)	L_{day} (dBA)	L_{Night} (dBA)	L₅ (dBA)	L₁₀ (dBA)	L₉₀ (dBA)	LA_{fmax} (dBA)	LC_{fmax} (dBC)
07/01/2024	51.2	71.7	20.7	58.7	51.5	50.9	54.0	52.9	48.3	72.2	93.7

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} – LA_{eq}] = difference between LC_{eq} and LA_{eq}.

Table E9. Daily Average Statistics for Site 3, Monitor 1 Extrapolated to the Minimum Compliance Point (350')

Date	Extrapolated to Minimum Compliance Point (350')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
06/05/2024	53.3	72.0	19.8	61.1	53.8	53.0	56.2	55.3	49.4	78.9	89.1
06/06/2024	59.6	72.2	18.3	63.5	61.9	54.7	58.1	57.3	51.0	102.7	101.1
06/07/2024	54.7	74.1	19.9	63.4	52.8	55.9	58.9	58.1	50.3	75.4	97.2
06/08/2024	55.6	73.9	18.7	63.8	55.9	55.4	57.5	56.9	52.6	77.0	96.5
06/10/2024	63.1	73.8	19.4	66.6	65.2	57.8	57.2	56.5	50.5	102.4	100.8
06/11/2024	57.3	74.9	18.0	64.3	57.3	57.4	59.7	58.9	54.4	82.3	96.4
06/12/2024	58.9	73.6	20.1	65.7	59.5	58.2	57.3	56.3	49.6	100.2	98.6
06/13/2024	55.1	73.7	19.3	62.8	55.4	54.8	58.5	57.6	51.8	67.6	89.1
06/14/2024	61.0	72.9	18.4	64.5	62.9	55.9	58.3	57.5	51.5	100.6	101.8
06/15/2024	53.6	71.9	19.4	61.4	52.8	54.2	57.4	56.4	49.7	70.0	91.5
06/16/2024	55.5	72.6	17.9	64.1	55.5	55.5	58.9	57.9	52.3	64.7	81.0
06/17/2024	55.2	72.6	18.0	63.2	55.2	55.3	58.5	57.7	51.6	71.0	84.4
06/18/2024	54.6	74.2	19.5	63.3	53.3	55.3	58.2	56.9	50.1	74.2	96.1
06/19/2024	56.0	73.9	18.4	65.6	57.9	55.8	58.6	57.9	53.9	78.2	86.9
06/20/2024	54.3	72.1	18.8	62.4	52.9	55.6	57.8	56.9	50.8	80.4	89.2
06/21/2024	58.3	73.3	17.7	66.8	55.9	60.1	59.4	58.6	52.6	100.3	98.6
06/22/2024	57.3	73.6	20.0	66.3	53.8	59.2	55.9	55.3	48.5	102.8	101.2
06/23/2024	59.6	73.0	20.5	67.7	58.2	60.8	57.0	55.8	49.5	102.7	101.1
06/24/2024	57.7	75.4	19.9	63.7	59.0	55.9	58.7	57.2	52.2	97.5	100.8
06/25/2024	53.8	73.6	19.4	61.4	53.9	53.7	56.5	55.5	50.8	77.3	98.2
06/26/2024	55.5	74.0	19.1	63.1	56.1	55.0	58.3	57.3	52.2	87.5	92.7
06/27/2024	56.7	74.4	19.4	64.6	55.7	57.6	59.3	57.7	49.7	89.6	93.8
06/28/2024	54.6	73.7	19.9	61.5	55.6	53.6	58.4	57.3	50.9	79.1	97.6
06/29/2024	52.9	72.0	19.6	59.6	52.9	52.9	56.1	54.9	50.0	74.0	89.2
06/30/2024	52.9	72.4	20.2	60.5	52.8	53.0	56.0	55.0	50.1	72.3	87.6

Date	Extrapolated to Minimum Compliance Point (350')										
	LA_{eq} (dBA)	LC_{eq} (dBC)	LC_{eq} - LA_{eq} (dB)	L_{dn} (dBA)	L_{day} (dBA)	L_{Night} (dBA)	L₅ (dBA)	L₁₀ (dBA)	L₉₀ (dBA)	LA_{fmax} (dBA)	LC_{fmax} (dBC)
07/01/2024	52.1	72.5	20.7	59.5	52.4	51.8	54.9	53.8	49.2	73.1	94.6

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} – LA_{eq}] = difference between LC_{eq} and LA_{eq}.

Table E10. Daily Average Statistics for Site 3, Monitor 1 Extrapolated to the Maximum Compliance Point (1,975')

Date	Extrapolated to Maximum Compliance Point (1,975')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
06/05/2024	38.3	56.9	19.8	46.1	38.7	38.0	41.1	40.2	34.3	63.8	74.0
06/06/2024	44.6	57.2	18.3	48.5	46.8	39.7	43.0	42.2	35.9	87.6	86.0
06/07/2024	39.7	59.1	19.9	48.3	37.7	40.8	43.8	43.0	35.2	60.3	82.1
06/08/2024	40.6	58.9	18.7	48.7	40.9	40.4	42.4	41.8	37.5	61.9	81.4
06/10/2024	48.1	58.8	19.4	51.5	50.2	42.7	42.1	41.4	35.4	87.3	85.7
06/11/2024	42.3	59.9	18.0	49.3	42.2	42.4	44.6	43.8	39.3	67.2	81.3
06/12/2024	43.8	58.5	20.1	50.7	44.4	43.1	42.2	41.2	34.5	85.1	83.5
06/13/2024	40.0	58.6	19.3	47.8	40.4	39.8	43.4	42.5	36.7	52.5	74.0
06/14/2024	46.0	57.9	18.4	49.5	47.9	40.9	43.2	42.4	36.4	85.5	86.7
06/15/2024	38.5	56.9	19.4	46.4	37.8	39.2	42.3	41.3	34.6	54.9	76.4
06/16/2024	40.5	57.5	17.9	49.0	40.4	40.5	43.8	42.8	37.2	49.6	65.9
06/17/2024	40.2	57.5	18.0	48.2	40.2	40.3	43.4	42.6	36.5	55.9	69.3
06/18/2024	39.6	59.2	19.5	48.3	38.3	40.3	43.1	41.8	35.0	59.1	81.0
06/19/2024	41.0	58.9	18.4	50.5	42.8	40.8	43.5	42.8	38.8	63.1	71.8
06/20/2024	39.3	57.1	18.8	47.4	37.9	40.6	42.7	41.8	35.7	65.3	74.1
06/21/2024	43.3	58.3	17.7	51.8	40.9	45.1	44.3	43.5	37.5	85.2	83.5
06/22/2024	42.3	58.6	20.0	51.3	38.7	44.2	40.8	40.2	33.4	87.7	86.1
06/23/2024	44.5	58.0	20.5	52.7	43.2	45.7	41.9	40.7	34.4	87.6	86.0
06/24/2024	42.7	60.4	19.9	48.7	44.0	40.9	43.6	42.1	37.1	82.4	85.7
06/25/2024	38.8	58.6	19.4	46.4	38.9	38.7	41.4	40.4	35.7	62.2	83.1
06/26/2024	40.5	58.9	19.1	48.0	41.1	40.0	43.2	42.2	37.1	72.4	77.6
06/27/2024	41.7	59.4	19.4	49.6	40.7	42.5	44.2	42.6	34.6	74.5	78.7
06/28/2024	39.6	58.7	19.9	46.5	40.6	38.6	43.3	42.2	35.8	64.0	82.5
06/29/2024	37.9	57.0	19.6	44.5	37.9	37.9	41.0	39.8	34.9	58.9	74.1
06/30/2024	37.9	57.4	20.2	45.4	37.8	38.0	40.9	39.9	35.0	57.2	72.5

Date	Extrapolated to Maximum Compliance Point (1,975')										
	LA_{eq} (dBA)	LC_{eq} (dBC)	LC_{eq} - LA_{eq} (dB)	L_{dn} (dBA)	L_{day} (dBA)	L_{Night} (dBA)	L₅ (dBA)	L₁₀ (dBA)	L₉₀ (dBA)	LA_{fmax} (dBA)	LC_{fmax} (dBC)
07/01/2024	37.0	57.5	20.7	44.5	37.3	36.8	39.8	38.7	34.1	58.0	79.5

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} – LA_{eq}] = difference between LC_{eq} and LA_{eq}.

Table E11. Daily Average Statistics at the Measurement Location for Site 3, Monitor 2 (1,023')

Date	At Measurement Location (1,023')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
02/02/2024	55.1	71.5	17.2	62.3	55.0	55.3	58.8	57.7	51.8	73.4	89.1
02/03/2024	54.5	70.5	16.4	62.9	53.8	54.8	56.3	55.7	52.7	78.6	80.5
02/04/2024	53.6	70.8	17.4	61.4	53.3	53.9	55.4	54.8	51.9	69.8	85.4
02/05/2024	56.5	72.4	17.5	63.4	57.2	55.8	59.9	57.5	52.0	90.8	97.8
02/06/2024	56.9	70.5	15.9	64.9	55.9	57.6	58.3	57.0	52.4	89.2	89.8
02/07/2024	54.8	69.7	15.7	61.8	55.5	54.1	58.5	56.3	51.2	80.3	88.4
02/16/2024	60.2	72.3	16.1	62.7	62.3	53.2	67.5	64.4	50.7	77.3	84.6
02/17/2024	53.8	71.1	17.6	61.8	53.3	54.1	56.0	55.3	50.9	74.6	88.2
02/18/2024	54.1	70.5	17.5	61.8	54.1	54.1	55.9	55.2	49.5	92.2	93.5
02/19/2024	54.9	69.6	15.8	63.2	55.5	54.6	57.7	56.6	51.4	84.5	86.9
02/20/2024	58.4	70.9	15.8	65.2	60.0	56.9	62.3	60.6	52.1	91.2	93.6
02/21/2024	55.8	71.2	16.4	64.1	56.4	55.4	58.7	57.7	52.6	76.1	84.2
02/22/2024	58.3	72.2	17.2	67.5	54.9	59.9	57.7	56.7	52.2	94.5	96.2
02/23/2024	56.2	73.2	17.4	65.1	55.5	56.4	59.2	58.2	52.2	74.6	95.2
02/24/2024	54.8	73.8	19.1	63.1	55.1	54.7	57.3	56.6	52.5	77.6	91.3
02/25/2024	53.4	72.8	19.9	61.0	53.2	53.6	57.8	55.8	49.0	77.6	95.9
02/27/2024	54.6	75.7	19.2	64.1	53.4	54.8	56.3	55.7	51.2	74.8	102.3
02/29/2024	51.9	68.7	18.0	59.8	51.4	52.3	55.2	54.2	47.7	69.6	79.5
03/01/2024	53.2	68.8	17.6	61.7	51.7	54.1	55.9	54.5	47.3	85.4	91.7
03/02/2024	53.5	69.6	17.7	62.4	51.5	54.5	54.3	53.5	49.3	91.4	91.8
03/03/2024	51.4	72.5	20.2	57.2	51.3	51.6	53.6	52.9	49.7	64.7	96.1

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA; LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} - LA_{eq}] = difference between LC_{eq} and LA_{eq}.

Table E12. Daily Average Statistics for Site 3, Monitor 2 Extrapolated to the Minimum Compliance Point (350')

Date	Extrapolated to Minimum Compliance Point (350')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
02/02/2024	64.4	80.8	17.2	71.6	64.3	64.6	68.1	67.0	61.1	82.7	98.4
02/03/2024	63.8	79.8	16.4	72.2	63.1	64.1	65.6	65.0	62.0	87.9	89.8
02/04/2024	62.9	80.1	17.4	70.7	62.6	63.2	64.7	64.1	61.2	79.1	94.7
02/05/2024	65.8	81.7	17.5	72.7	66.5	65.1	69.2	66.8	61.3	100.1	107.1
02/06/2024	66.2	79.9	15.9	74.2	65.2	66.9	67.6	66.3	61.7	98.5	99.1
02/07/2024	64.1	79.0	15.7	71.1	64.8	63.4	67.8	65.6	60.5	89.6	97.7
02/16/2024	69.5	81.6	16.1	72.0	71.6	62.5	76.8	73.7	60.0	86.6	93.9
02/17/2024	63.1	80.4	17.6	71.1	62.6	63.4	65.3	64.6	60.2	83.9	97.5
02/18/2024	63.4	79.8	17.5	71.1	63.4	63.4	65.2	64.5	58.8	101.5	102.8
02/19/2024	64.2	78.9	15.8	72.5	64.8	63.9	67.0	65.9	60.7	93.8	96.2
02/20/2024	67.7	80.3	15.8	74.6	69.3	66.2	71.6	69.9	61.4	100.5	102.9
02/21/2024	65.1	80.6	16.4	73.4	65.7	64.7	68.0	67.0	61.9	85.4	93.5
02/22/2024	67.6	81.5	17.2	76.8	64.3	69.2	67.0	66.0	61.5	103.8	105.5
02/23/2024	65.5	82.5	17.4	74.5	64.8	65.8	68.5	67.5	61.5	83.9	104.5
02/24/2024	64.2	83.1	19.1	72.4	64.4	64.0	66.6	65.9	61.8	86.9	100.6
02/25/2024	62.7	82.1	19.9	70.4	62.5	62.9	67.1	65.1	58.3	86.9	105.2
02/27/2024	63.9	85.0	19.2	73.4	62.7	64.1	65.6	65.0	60.5	84.1	111.6
02/29/2024	61.2	78.0	18.0	69.1	60.7	61.6	64.5	63.5	57.0	78.9	88.8
03/01/2024	62.5	78.1	17.6	71.1	61.0	63.4	65.2	63.8	56.6	94.7	101.0
03/02/2024	62.8	78.9	17.7	71.7	60.8	63.8	63.6	62.8	58.6	100.7	101.1
03/03/2024	60.7	81.8	20.2	66.5	60.6	60.9	62.9	62.2	59.0	74.0	105.4

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.)

dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA

LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} - LA_{eq}] = difference between LC_{eq} and LA_{eq}.

Table E13. Daily Average Statistics for Site 3, Monitor 2 Extrapolated to the Maximum Compliance Point (1,975')

Date	Extrapolated to Maximum Compliance Point (1,975')										
	LA _{eq} (dBA)	LC _{eq} (dBC)	LC _{eq} - LA _{eq} (dB)	L _{dn} (dBA)	L _{day} (dBA)	L _{Night} (dBA)	L ₅ (dBA)	L ₁₀ (dBA)	L ₉₀ (dBA)	LA _{fmax} (dBA)	LC _{fmax} (dBC)
02/02/2024	49.4	65.8	17.2	56.6	49.2	49.6	53.1	52.0	46.1	67.7	83.4
02/03/2024	48.7	64.8	16.4	57.2	48.1	49.1	50.6	50.0	47.0	72.9	74.8
02/04/2024	47.9	65.1	17.4	55.7	47.5	48.2	49.7	49.1	46.2	64.1	79.7
02/05/2024	50.8	66.7	17.5	57.6	51.4	50.1	54.2	51.8	46.3	85.1	92.1
02/06/2024	51.1	64.8	15.9	59.2	50.2	51.9	52.6	51.3	46.7	83.5	84.1
02/07/2024	49.1	64.0	15.7	56.1	49.8	48.4	52.8	50.6	45.5	74.6	82.7
02/16/2024	54.5	66.6	16.1	57.0	56.6	47.4	61.8	58.7	45.0	71.6	78.9
02/17/2024	48.1	65.4	17.6	56.1	47.6	48.4	50.3	49.6	45.2	68.9	82.5
02/18/2024	48.4	64.8	17.5	56.0	48.4	48.4	50.2	49.5	43.8	86.5	87.8
02/19/2024	49.2	63.9	15.8	57.4	49.8	48.9	52.0	50.9	45.7	78.8	81.2
02/20/2024	52.7	65.2	15.8	59.5	54.3	51.2	56.6	54.9	46.4	85.5	87.9
02/21/2024	50.0	65.5	16.4	58.4	50.7	49.7	53.0	52.0	46.9	70.4	78.5
02/22/2024	52.6	66.4	17.2	61.7	49.2	54.2	52.0	51.0	46.5	88.8	90.5
02/23/2024	50.5	67.5	17.4	59.4	49.7	50.7	53.5	52.5	46.5	68.9	89.5
02/24/2024	49.1	68.1	19.1	57.4	49.4	49.0	51.6	50.9	46.8	71.9	85.6
02/25/2024	47.7	67.1	19.9	55.3	47.5	47.9	52.1	50.1	43.3	71.9	90.2
02/27/2024	48.9	70.0	19.2	58.4	47.7	49.1	50.6	50.0	45.5	69.1	96.6
02/29/2024	46.2	62.9	18.0	54.1	45.7	46.6	49.5	48.5	42.0	63.9	73.8
03/01/2024	47.5	63.1	17.6	56.0	46.0	48.4	50.2	48.8	41.6	79.7	86.0
03/02/2024	47.8	63.9	17.7	56.6	45.7	48.7	48.6	47.8	43.6	85.7	86.1
03/03/2024	45.7	66.8	20.2	51.5	45.6	45.9	47.9	47.2	44.0	59.0	90.4

dB = decibel; L_{day} = LA_{eq} for daytime period (7:00 a.m. to 7:00 p.m.); dBA = A-weighted decibel; L_{Night} = LA_{eq} for nighttime period (7:00 p.m. to 7:00 a.m.); dBC = C-weighted decibel; L_{5/10/90p} = 95th, 90th, and 10th percentile SPL; LA_{eq} = equivalent continuous sound pressure level (A-weighted decibels); LA_{fmax} = maximum SPL with fast time-weighting in dBA, LC_{eq} = equivalent continuous sound pressure level (C-weighted decibels); LC_{fmax} = maximum SPL with fast time-weighting in dBC; [LC_{eq} - LA_{eq}] = difference between LC_{eq} and LA_{eq}.