

Appendix M

Noise Modeling Calculations

Equipment	Reference Noise Level (dBA Leq [8-hr])	Nearest Residence from Clubhouse	Nearest Residence from Golf Course Improvements
Distance (ft)	50	500	200
Grader, Excavator, Dozer	83.7	64	72
		-20	-12
		-20	-12
		-20	-12
		-20	-12

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	N
Demolition	Rubber Tired Dozers	Diesel	Average	2
Demolition	Excavators	Diesel	Average	3
Demolition	Concrete/Industrial Saws	Diesel	Average	1
Site Preparation	Rubber Tired Dozers	Diesel	Average	3
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Average	4
Grading	Graders	Diesel	Average	1
Grading	Excavators	Diesel	Average	2
Grading	Tractors/Loaders/Backhoes	Diesel	Average	2
Grading	Scrapers	Diesel	Average	2
Grading	Rubber Tired Dozers	Diesel	Average	1
Building Construction	Forklifts	Diesel	Average	3
Building Construction	Generator Sets	Diesel	Average	1
Building Construction	Cranes	Diesel	Average	1
Building Construction	Welders	Diesel	Average	1
Building Construction	Tractors/Loaders/Backhoes	Diesel	Average	3
Paving	Pavers	Diesel	Average	2
Paving	Paving Equipment	Diesel	Average	2
Paving	Rollers	Diesel	Average	2
Architectural Coating	Air Compressors	Diesel	Average	1

Nearest Residence from Maintenance Yard	Nearest Residence from Comfort Station	Nearest Residence from Barnsdall Area	Nearest Residence from Hollister Ave Improvements
100	900	150	100
78	59	74	78
-6	-25	-10	-6
-6	-25	-10	-6
-6	-25	-10	-6
-6	-25	-10	-6

Number per Day	Hours Per Day	Horsepower	Load Factor
1.00	8.00	367	0.40
1.00	8.00	36.0	0.38
1.00	8.00	33.0	0.73
1.00	8.00	367	0.40
1.00	8.00	84.0	0.37
1.00	8.00	148	0.41
1.00	8.00	36.0	0.38
1.00	8.00	84.0	0.37
1.00	8.00	423	0.48
1.00	8.00	367	0.40
1.00	8.00	82.0	0.20
1.00	8.00	14.0	0.74
1.00	8.00	367	0.29
1.00	8.00	46.0	0.45
1.00	8.00	84.0	0.37
1.00	8.00	81.0	0.42
1.00	8.00	89.0	0.36
1.00	8.00	36.0	0.38
1.00	8.00	37.0	0.48

65 dBA Contour exceeded

400

66	#NUM!	#NUM!
-18	#NUM!	#NUM!
-18	#NUM!	#NUM!
-18	#NUM!	#NUM!
-18	#NUM!	#NUM!

Roadway Construction Noise Model (RCNM),Version 1.1

Report date 1/3/2025

Case Desc: Sandpiper Golf Course

---- Receptor #1 ----

Baselines (dBA)

Description Land Use	Daytime	Evening	Night
Residential Residential	65	65	65

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Dozer	No	40		81.7	50	0
Grader	No	40	85		50	0
Excavator	No	40		80.7	50	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day	Leq	Evening	Leq	Night
			Lmax		Lmax		Lmax
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A
Grader	85	81	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A
Total	85	83.7	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Noise Limit Exceedance (dBA)						
	Day		Evening		Night	
	Leq	Lmax	Leq	Lmax	Leq	Lmax
	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	N/A	N/A	N/A	N/A	N/A
	N/A	N/A	N/A	N/A	N/A	N/A