

Appendix I

Roadway Construction Noise Modeling Results

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 06/20/2023
 Case Description: Grading

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
Grading	Residential	65.0	55.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Excavator	No	40		80.7	50.0	0.0
Grader	No	40	85.0		50.0	0.0
Dozer	No	40		81.7	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0

Results

Noise Limit Exceedance (dBA)										Noise Limits (dBA)		
Night	Equipment	Day	Calculated (dBA)		Day		Evening		Lmax	Lmax	Lmax	
			Lmax	Leq	Day	Night	Lmax	Leq				
	Leq	Lmax	Leq	Lmax	Lmax	Leq	Lmax	Leq	Lmax	Lmax	Lmax	
	Excavator			80.7	76.7	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	
	Grader			85.0	81.0	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	
	Dozer			81.7	77.7	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	
	Backhoe			77.6	73.6	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	
	Backhoe			77.6	73.6	N/A	N/A	N/A	N/A	N/A	N/A	

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 06/20/2023
 Case Description: Building Construction

**** Receptor #1 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Building Construction	Residential	65.0	55.0	50.0

Description	Impact Device	Usage (%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0
Man Lift	No	20		74.7	50.0	0.0
Generator	No	50		80.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Backhoe	No	40		77.6	50.0	0.0
Welder / Torch	No	40		74.0	50.0	0.0

Results

		Noise Limit Exceedance (dBA)					Noise Limits (dBA)		
Night	Day	Calculated (dBA)		Day Night	Evening				
		Lmax	Leq		Lmax	Leq	Lmax	Leq	Lmax
Equipment	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq	Lmax	Leq
Crane	N/A	N/A	N/A	80.6	72.6	N/A	N/A	N/A	N/A
Man Lift	N/A	N/A	N/A	74.7	67.7	N/A	N/A	N/A	N/A
Man Lift	N/A	N/A	N/A	74.7	67.7	N/A	N/A	N/A	N/A

