

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/11/2025

Case Description: Demolition

Description	Affected Land Use	Equipment					
		Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Demolition	Residential						
Description		Device	Usage(%)	(dBA)	(dBA)	(feet)	(dBA)
Dozer		No	40		81.7	1095	0
Dozer		No	40		81.7	1095	0
Excavator		No	40		80.7	1095	0
Excavator		No	40		80.7	1095	0
Excavator		No	40		80.7	1095	0
Concrete Saw		No	20		89.6	1095	0

Results

Calculated (dBA)		
Equipment	*Lmax	Leq
Dozer	54.9	50.9
Dozer	54.9	50.9
Excavator	53.9	49.9
Excavator	53.9	49.9
Excavator	53.9	49.9
Concrete Saw	62.8	55.8
Total	62.8	59.6

*Calculated Lmax is the Loudest value.

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Report date: 6/11/2025
Case Description: Site Preparation

Description	Affected Land Use	Equipment					
		Impact Device	Usage(%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Site Preparation	Residential						
Dozer		No	40		81.7	1095	0
Dozer		No	40		81.7	1095	0
Dozer		No	40		81.7	1095	0
Tractor		No	40	84		1095	0
Tractor		No	40	84		1095	0
Tractor		No	40	84		1095	0
Tractor		No	40	84		1095	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Dozer	54.9	50.9
Dozer	54.9	50.9
Dozer	54.9	50.9
Tractor	57.2	53.2
Tractor	57.2	53.2
Tractor	57.2	53.2
Tractor	57.2	53.2
Total	57.2	60.8

*Calculated Lmax is the Loudest value.

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Report date: 6/11/2025
Case Description: Grading

Description **Affected Land Use**
 Grading Residential

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
			Grader	No	40	85
Excavator	No	40		80.7	1095	0
Tractor	No	40	84		1095	0
Tractor	No	40	84		1095	0
Tractor	No	40	84		1095	0
Dozer	No	40		81.7	1095	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Grader	58.2	54.2
Excavator	53.9	49.9
Tractor	57.2	53.2
Tractor	57.2	53.2
Tractor	57.2	53.2
Dozer	54.9	50.9
Total	58.2	60.5

*Calculated Lmax is the Loudest value.

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Report date: 6/11/2025
Case Description: Building Construction, Paving & Architectural Coating

Description		Affected Land Use		Equipment				
Building Construction, Paving & Architectural Coating		Residential		Impact	Spec	Actual	Receptor	Estimated
Description	Device	Usage(%)	Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)		
Gradall	No	40		83.4	1095	0		
Gradall	No	40		83.4	1095	0		
Gradall	No	40		83.4	1095	0		
Generator	No	50		80.6	1095	0		
Crane	No	16		80.6	1095	0		
Welder / Torch	No	40		74	1095	0		
Tractor	No	40	84		1095	0		
Tractor	No	40	84		1095	0		
Tractor	No	40	84		1095	0		
Paver	No	50		77.2	1095	0		
Paver	No	50		77.2	1095	0		
Paver	No	50		77.2	1095	0		
Paver	No	50		77.2	1095	0		
Roller	No	20		80	1095	0		
Roller	No	20		80	1095	0		
Compressor (air)	No	40		77.7	1095	0		

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Gradall	56.6	52.6
Gradall	56.6	52.6
Gradall	56.6	52.6
Generator	53.8	50.8
Crane	53.7	45.8
Welder / Torch	47.2	43.2
Tractor	57.2	53.2
Tractor	57.2	53.2
Tractor	57.2	53.2
Paver	50.4	47.4
Paver	50.4	47.4
Paver	50.4	47.4
Paver	50.4	47.4
Roller	53.2	46.2
Roller	53.2	46.2
Compressor (air)	50.9	46.9
Total	57.2	62.3

*Calculated Lmax is the Loudest value.