

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 5/26/2021
 Case Description: Demolition

Description Affected Land Use
 Demolition 82 Feet Distant Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Other Equipment	No	50	85		82
Skid Steer Loader	No	40		79.1	82
Tractor/Loader/Backhoe	No	40	84		82

Calculated (dBA)

Equipment	*Lmax	Leq
Other Equipment	80.7	77.7
Skid Steer Loader	74.8	70.8
Tractor/Loader/Backhoe	79.7	75.7
Total	80.7	80.3

*Calculated Lmax is the Loudest value.

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Report date: 5/26/2021
Case Description: Site Preparation

Description Affected Land Use
 Site Preparation 82 Feet Distant Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Other Equipment	No	50	85		82
Skid Steer Loader	No	40		79.1	82
Tractor/Loader/Backhoe	No	40	84		82

Calculated (dBA)

Equipment	*Lmax	Leq
Other Equipment	80.7	77.7
Skid Steer Loader	74.8	70.8
Tractor/Loader/Backhoe	79.7	75.7
Total	80.7	80.3

*Calculated Lmax is the Loudest value.

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Report date: 5/26/2021
 Case Description: Grading

Description Affected Land Use
 Grading 82 Feet Distant Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Excavator	No	40		80.7	82
Other Equipment	No	50	85		82
Tractor/Loader/Backhoe	No	40	84		82

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	76.4	72.4
Other Equipment	80.7	77.7
Tractor/Loader/Backhoe	79.7	75.7
Total	80.7	80.6

*Calculated Lmax is the Loudest value.

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Report date: 5/26/2021
Case Description: Construction

Description Affected Land Use
 Construction 82 Feet Distant **Residential**

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Excavator	No	40		80.7	82
Other Equipment	No	50	85		82
Skid Steer Loader	No	40		79.1	82
Tractor/Loader/Backhoe	No	40	84		82

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	76.4	72.4
Other Equipment	80.7	77.7
Skid Steer Loader	74.8	70.8
Tractor/Loader/Backhoe	79.7	75.7
Total	80.7	81

*Calculated Lmax is the Loudest value.

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Report date: 5/26/2021
 Case Description: Paving

Description Affected Land Use
 Paving 82 Feet Distant Residential

Description	Equipment		Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)
	Impact Device	Usage(%)			
Other Equipment	No	50	85		82
Paver	No	50		77.2	82
Paving Equipment	No	20		89.5	82
Roller	No	20		80	82

Calculated (dBA)

Equipment	*Lmax	Leq
Other Equipment	80.7	77.7
Paver	72.9	69.9
Paving Equipment	85.2	78.2
Roller	75.7	68.7
Total	85.2	81.5

*Calculated Lmax is the Loudest value.

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Report date: 5/26/2021
Case Description: Painting

Description **Affected Land Use**
 Painting 82 Feet Distant **Residential**

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Other Equipment	No	50	85		82

Calculated (dBA)

Equipment	*Lmax	Leq
Other Equipment	80.7	77.7
Total	80.7	77.7

*Calculated Lmax is the Loudest value.