

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/27/2022  
 Case Phase 1 Demolition & Site Preparation  
 Description:

Description Affected Land Use  
 Phase 1 Demolition & Site Preparation Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Skid Steer Loaders	No	40		79.1	77
Skid Steer Loaders	No	40		79.1	77
Tractors/Loaders/Backhoes	No	40	84		77
Tractors/Loaders/Backhoes	No	40	84		77
Other Construction Equipment	No	50	85		77
Other Construction Equipment	No	50	85		77

Calculated (dBA)

Equipment	*Lmax	Leq
Skid Steer Loaders	75.4	71.4
Skid Steer Loaders	75.4	71.4
Tractors/Loaders/Backhoes	80.2	76.3
Tractors/Loaders/Backhoes	80.2	76.3
Other Construction Equipment	81.2	78.2
Other Construction Equipment	81.2	78.2
<b>Total</b>	<b>81.2</b>	<b>83.9</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/27/2022  
 Case Description: Phase 1 Building Construction

Description: Phase 1 Building Construction  
 Affected Land Use: Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Bore/Drill Rigs	No	20		84.4	77
Other Construction Equipment	No	50	85		77
Tractors/Loaders/Backhoes	No	40	84		77
Rough Terrain Forklifts	No	40		83.4	77
Skid Steer Loaders	No	40		79.1	77

Calculated (dBA)

Equipment	*Lmax	Leq
Bore/Drill Rigs	80.6	73.6
Other Construction Equipment	81.2	78.2
Tractors/Loaders/Backhoes	80.2	76.3
Rough Terrain Forklifts	79.6	75.7
Skid Steer Loaders	75.4	71.4
<b>Total</b>	<b>81.2</b>	<b>82.6</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/27/2022  
 Case Description: Phase 2 Demolition

Description Affected Land Use  
 Phase 2 Demolition Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Other Construction Equipment	No	50	85		77
Skid Steer Loaders	No	40		79.1	77
Tractors/Loaders/Backhoes	No	40	84		77

Calculated (dBA)

Equipment	*Lmax	Leq
Other Construction Equipment	81.2	78.2
Skid Steer Loaders	75.4	71.4
Tractors/Loaders/Backhoes	80.2	76.3
<b>Total</b>	<b>81.2</b>	<b>80.9</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/27/2022  
 Case Description: Phase 2 Site Preparation

Description Affected Land Use  
 Phase 2 Site Preparation Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Other Construction Equipment	No	50	85		77
Tractors/Loaders/Backhoes	No	40	84		77
Skid Steer Loaders	No	40		79.1	77

Calculated (dBA)

Equipment	*Lmax	Leq
Other Construction Equipment	81.2	78.2
Tractors/Loaders/Backhoes	80.2	76.3
Skid Steer Loaders	75.4	71.4
<b>Total</b>	<b>81.2</b>	<b>80.9</b>

\*Calculated Lmax is the Loudest value.

**Roadway Construction Noise Model (RCNM),Version 1**

**Report date:** 7/27/2022  
**Case Description:** Phase 2 Grading

**Description**      **Affected Land Use**  
Phase 2 Grading      Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Tractors/Loaders/Backhoes	No	40	84		77
Excavators	No	40		80.7	77
Other Construction Equipment	No	50	85		77
Roller	No	20		80	77

Calculated (dBA)

Equipment	*Lmax	Leq
Tractors/Loaders/Backhoes	80.2	76.3
Excavators	77	73
Other Construction Equipment	81.2	78.2
Roller	76.2	69.3
<b>Total</b>	<b>81.2</b>	<b>81.4</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date:

7/27/2022

Case Description:

Phase 2 Building Construction & Architectural Coating

Description

Phase 2 Building Construction & Architectural Coating

Affected Land Use

Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Crane	No	16		80.6	77
Tractors/Loaders/Backhoes	No	40	84		77
Other Construction Equipment	No	50	85		77
Other Construction Equipment	No	50	85		77
Rough Terrain Forklifts	No	40		83.4	77
Skid Steer Loaders	No	40		79.1	77

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	76.8	68.8
Tractors/Loaders/Backhoes	80.2	76.3
Other Construction Equipment	81.2	78.2
Other Construction Equipment	81.2	78.2
Rough Terrain Forklifts	79.6	75.7
Skid Steer Loaders	75.4	71.4
<b>Total</b>	<b>81.2</b>	<b>83.7</b>

\*Calculated Lmax is the Loudest value.

**Roadway Construction Noise Model (RCNM),Version 1.1**

**Report date:** 7/27/2022  
**Case Description:** Phase 3 Site Preparation & Grading

**Description** Phase 3 Site Preparation & Grading  
**Affected Land Use** Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Other Construction Equipment	No	50	85		77
Other Construction Equipment	No	50	85		77
Skid Steer Loaders	No	40		79.1	77
Skid Steer Loaders	No	40		79.1	77
Excavator	No	40		80.7	77
Roller	No	20		80	77

Calculated (dBA)

Equipment	*Lmax	Leq
Other Construction Equipment	81.2	78.2
Other Construction Equipment	81.2	78.2
Skid Steer Loaders	75.4	71.4
Skid Steer Loaders	75.4	71.4
Excavator	77	73
Roller	76.2	69.3
<b>Total</b>	<b>81.2</b>	<b>82.8</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/27/2022  
 Case Description: Phase 3 Building Construction & Architectural Coating

Description: Phase 3 Building Construction & Architectural Coating  
 Affected Land Use: Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Tractors/Loaders/Backhoes	No	40	84		77
Other Construction Equipment	No	50	85		77
Skid Steer Loaders	No	40		83.4	77
Front End Loader	No	40		79.1	77

Calculated (dBA)

Equipment	*Lmax	Leq
Tractors/Loaders/Backhoes	80.2	76.3
Other Construction Equipment	81.2	78.2
Skid Steer Loaders	79.6	75.7
Front End Loader	75.4	71.4
<b>Total</b>	<b>81.2</b>	<b>82</b>

\*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 7/27/2022  
 Case Description: Phase 3 Paving

Description: Phase 3 Paving  
 Affected Land Use: Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Paver	No	50		77.2	77
Roller	No	20		80	77
Other Construction Equipment	No	50	85		77
Paving Equipment	No	50		77.2	77

Calculated (dBA)

Equipment	*Lmax	Leq
Paver	73.5	70.5
Roller	76.2	69.3
Other Construction Equipment	81.2	78.2
Paving Equipment	73.5	70.5
<b>Total</b>	<b>81.2</b>	<b>79.9</b>

\*Calculated Lmax is the Loudest value.