

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 |
| Total | 81.2 | 83.9 |

*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 |
| Total | 81.2 | 82.6 |

*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 |
| Total | 81.2 | 80.9 |

*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 |
| Total | 81.2 | 80.9 |

*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 |
| Total | 81.2 | 81.4 |

*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 |
| Total | 81.2 | 83.7 |

*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 |
| Total | 81.2 | 82.8 |

*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 Affected Land Use
Phase 3 Building Construction & Architectural Coating 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 |
| Total | 81.2 | 82 |

*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 |
| Total | 81.2 | 79.9 |

*Calculated Lmax is the Loudest value.