

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/14/2022
 Case Description: Site Preparation- Mobile Equipment

Description: Site Preparation- Mobile Equipment
 Affected Land Use: Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Excavator	No	40		80.7	640
Excavator	No	40		80.7	640
Off-Highway Trucks	No	40		74.3	640
Roller	No	20		80	640
Rough Terrain Forklifts	No	40		83.4	640
Rough Terrain Forklifts	No	40		83.4	640
Skid Street Loaders	No	40		79.1	640
Tractor/Loader/Backhoe	No	40	84		640
Trenchers	No	40		77.7	640

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	58.6	54.6
Excavator	58.6	54.6
Off-Highway Trucks	52.1	48.1
Roller	57.9	50.9
Rough Terrain Forklifts	61.3	57.3
Rough Terrain Forklifts	61.3	57.3
Skid Street Loaders	57	53
Tractor/Loader/Backhoe	61.9	57.9
Trenchers	55.5	51.5
Total	61.9	64.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 6/14/2022
 Case Description: Grading- Mobile Equipment

Description: Grading- Mobile Equipment
 Affected Land Use: Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Excavator	No	40		80.7	640
Off-Highway Trucks	No	40		74.3	640
All Other Equipment	No	50	85		640
Roller	No	20		80	640
Rough Terrain Forklifts	No	40		83.4	640
Skid Street Loaders	No	40		79.1	640
Tractor/Loader/Backhoe	No	40	84		640
Trenchers	No	40		77.7	640

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	58.6	54.6
Off-Highway Trucks	52.1	48.1
All Other Equipment	62.9	59.8
Roller	57.9	50.9
Rough Terrain Forklifts	61.3	57.3
Skid Street Loaders	57	53
Tractor/Loader/Backhoe	61.9	57.9
Trenchers	55.5	51.5
Total	62.9	64.7

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date:

6/14/2022

Case Description:

Building Construction, Paving and Painting- Mobile Equipment

Description

Building Construction, Paving and Painting- Mobile Equipment

Affected Land Use

Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Excavator	No	40		80.7	640
All Other Equipment	No	50	85		640
Roller	No	20		80	640
Rough Terrain Forklifts	No	40		83.4	640
Rough Terrain Forklifts	No	40		83.4	640
Rough Terrain Forklifts	No	40		83.4	640
Skid Street Loaders	No	40		79.1	640
Skid Street Loaders	No	40		79.1	640
Skid Street Loaders	No	40		79.1	640
Off-Highway Trucks	No	40		74.3	640
Off-Highway Trucks	No	40		74.3	640

Calculated (dBA)

Equipment	*Lmax	Leq
Excavator	58.6	54.6
All Other Equipment	62.9	59.8
Roller	57.9	50.9
Rough Terrain Forklifts	61.3	57.3
Rough Terrain Forklifts	61.3	57.3
Rough Terrain Forklifts	61.3	57.3
Skid Street Loaders	57	53
Skid Street Loaders	57	53

Skid Street Loaders
Off-Highway Trucks
Off-Highway Trucks

57 53
52.1 48.1
52.1 48.1
62.9 65.7

Total

*Calculated Lmax is the Loudest value.