

Roadway Construction Noise Model (RCNM),Version 1

Report date: 4/2/2021
Case Description: Excavation

Description **Affected Land Use**
 Excavation Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete/Industrial Saws	No	20		89.6	20
Concrete/Industrial Saws	No	20		89.6	20
Trenchers	No	20		79.1	20
Trenchers	No	20		79.1	20
Off-Highway Trucks	No	40		74.3	20
Off-Highway Trucks	No	40		74.3	20
Tractors/Loaders/Backhoes	No	40	84		20
Tractors/Loaders/Backhoes	No	40	84		20
Dump Truck	No	40		76.5	20

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete/Industrial Saws	97.5	90.5
Concrete/Industrial Saws	97.5	90.5
Trenchers	87.1	80.1
Trenchers	87.1	80.1
Off-Highway Trucks	82.2	78.2
Off-Highway Trucks	82.2	78.2

Tractors/Loaders/Backhoes	92	88
Tractors/Loaders/Backhoes	92	88
Dump Truck	84.4	80.4
Total	97.5	96

*Calculated Lmax is the Loudest value.

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Report date: 4/2/2021
Case Description: Pipeline Installation & Backfill

Description Pipeline Installation & Backfill
Affected Land Use Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Off-Highway Trucks	No	40		74.3	20
Off-Highway Trucks	No	40		74.3	20
Compactor (ground)	No	20		83.2	20
Compactor (ground)	No	20		83.2	20
Roller	No	20		80	20
Tractors/Loaders/Backhoes	No	40	84		20
Tractors/Loaders/Backhoes	No	40	84		20
Dump Truck	No	40		76.5	20
Semi-Tractor	No	40	84		20
Water Truck	No	20		92.1	20

Calculated (dBA)

Equipment	*Lmax	Leq
Off-Highway Trucks	82.2	78.2
Off-Highway Trucks	82.2	78.2
Compactor (ground)	91.2	84.2
Compactor (ground)	91.2	84.2
Roller	88	81

Tractors/Loaders/Backhoes	92	88
Tractors/Loaders/Backhoes	92	88
Dump Truck	84.4	80.4
Semi-Tractor	92	88
Water Truck	100.1	93.1
Total	100.1	96.8

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 4/2/2021
 Case Description: Repaving & Repainting

Description Affected Land Use
 Repaving & Repainting Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Concrete Mixer Truck	No	40		78.8	20
Tractors/Loaders/Backhoes	No	40	84		20
Roller	No	20		80	20
Compressor (air)	No	40		77.7	20
Compressor (air)	No	40		77.7	20
Compressor (air)	No	40		77.7	20

Calculated (dBA)

Equipment	*Lmax	Leq
Concrete Mixer Truck	86.8	82.8
Tractors/Loaders/Backhoes	92	88
Roller	88	81
Compressor (air)	85.6	81.6
Compressor (air)	85.6	81.6
Compressor (air)	85.6	81.6
Total	92	91.4

*Calculated Lmax is the Loudest value.