

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 12/13/2022
Case Description: Clearing & Grubbing

Description **Affected Land Use**
 Clearing & Grubbing Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Tractor	No	40	84		50
Tractor	No	40	84		50
Excavator	No	40		80.7	50
Excavator	No	40		80.7	50
Excavator	No	40		80.7	50

Calculated (dBA)

Equipment	*Lmax	Leq
Tractor	84	80
Tractor	84	80
Excavator	80.7	76.7
Excavator	80.7	76.7
Excavator	80.7	76.7
Total	84	85.3

*Calculated Lmax is the Loudest value.

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Report date: 12/13/2022
Case Description: Grading & Excavation

Description Affected Land Use
 Grading & Excavation Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Tractor	No	40	84		50
Tractor	No	40	84		50
Excavator	No	40		80.7	50
Excavator	No	40		80.7	50
Excavator	No	40		80.7	50
Excavator	No	40		80.7	50
Grader	No	40	85		50
Grader	No	40	85		50
Pumps	No	50		80.9	50
Pumps	No	50		80.9	50
Pumps	No	50		80.9	50
Front End Loader	No	40		79.1	50
Front End Loader	No	40		79.1	50
Scraper	No	40		83.6	50
Scraper	No	40		83.6	50
Scraper	No	40		83.6	50
Tractor	No	40	84		50
Tractor	No	40	84		50
Tractor	No	40	84		50
Tractor	No	40	84		50

Calculated (dBA)

Equipment	*Lmax	Leq
Tractor	84	80
Tractor	84	80
Excavator	80.7	76.7
Excavator	80.7	76.7
Excavator	80.7	76.7
Excavator	80.7	76.7
Grader	85	81
Grader	85	81
Pumps	80.9	77.9
Pumps	80.9	77.9
Pumps	80.9	77.9
Front End Loader	79.1	75.1
Front End Loader	79.1	75.1
Scraper	83.6	79.6
Scraper	83.6	79.6
Scraper	83.6	79.6
Tractor	84	80
Tractor	84	80
Tractor	84	80
Tractor	84	80
Total	85	92

*Calculated Lmax is the Loudest value.

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Report date:

12/13/2022

Case Description:

Drainage-Utilities-Subgrade

Description

Drainage-Utilities-Subgrade

Affected Land Use

Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Compressor (air)	No	40		77.7	50
Compressor (air)	No	40		77.7	50
Generator	No	50		80.6	50
Generator	No	50		80.6	50
Grader	No	40	85		50
Grader	No	40	85		50
Compactor (ground)	No	20		83.2	50
Compactor (ground)	No	20		83.2	50
Pumps	No	50		80.9	50
Pumps	No	50		80.9	50
Gradall	No	40		83.4	50
Gradall	No	40		83.4	50
Scraper	No	40		83.6	50
Scraper	No	40		83.6	50
Tractor	No	40	84		50
Tractor	No	40	84		50
Tractor	No	40	84		50
Tractor	No	40	84		50

Calculated (dBA)

Equipment	*Lmax	Leq
Compressor (air)	77.7	73.7
Compressor (air)	77.7	73.7
Generator	80.6	77.6
Generator	80.6	77.6
Grader	85	81
Grader	85	81
Compactor (ground)	83.2	76.2
Compactor (ground)	83.2	76.2
Pumps	80.9	77.9
Pumps	80.9	77.9
Gradall	83.4	79.4
Gradall	83.4	79.4
Scraper	83.6	79.6
Scraper	83.6	79.6
Tractor	84	80
Tractor	84	80
Tractor	84	80
Tractor	84	80
Total	85	91.4

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 12/13/2022
Case Description: Paving

Description **Affected Land Use**
Paving Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)
			Spec Lmax (dBA)	Actual Lmax (dBA)	
Paver	No	50		77.2	50
Paver	No	50		77.2	50
Paver	No	50		77.2	50
Paver	No	50		77.2	50
Roller	No	20		80	50
Roller	No	20		80	50
Roller	No	20		80	50
Tractor	No	40	84		50
Tractor	No	40	84		50
Tractor	No	40	84		50
Tractor	No	40	84		50

Calculated (dBA)

Equipment	*Lmax	Leq
Paver	77.2	74.2
Paver	77.2	74.2
Paver	77.2	74.2
Paver	77.2	74.2

Roller	80	73
Roller	80	73
Roller	80	73
Tractor	84	80
Tractor	84	80
Tractor	84	80
Tractor	84	80
Total	84	87.5

*Calculated Lmax is the Loudest value.