

Roadway Construction Noise Model (RCNM),Version 1.1

WRP 1 Grading Noise

Description **Land Use**
 Residential Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Drum Mixer	No	50		80	2640	0
Grader	No	40	85		2640	0
Dozer	No	40		81.7	2640	0
Tractor	No	40	84		2640	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Drum Mixer	45.5	42.5
Grader	50.5	46.6
Dozer	47.2	43.2
Tractor	49.5	45.6
Total	50.5	50.8

*Calculated Lmax is the Loudest value.

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Repair & Replacement Noise

Description Land Use
Residential Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	2640	0
Gradall	No	40		83.4	2640	0
Generator	No	50		80.6	2640	0
Welder / Torch	No	40		74	2640	0
Tractor	No	40	84		2640	0
Welder / Torch	No	40		74	2640	0
Welder / Torch	No	40		74	2640	0

Results

Calculated (dBA)

Equipment	*Lmax	Leq
Crane	46.1	38.1
Gradall	48.9	45
Generator	46.2	43.2
Welder / Torch	39.5	35.6
Tractor	49.5	45.6
Welder / Torch	39.5	35.6
Welder / Torch	39.5	35.6
Total	49.5	50.2

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Construction Noise 75-dBA Contour

Description **Land Use**
 Residential Residential

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Drum Mixer	No	50		80	170	0
Grader	No	40	85		170	0
Dozer	No	40		81.7	170	0
Tractor	No	40	84		170	0

Results		
Calculated (dBA)		
Equipment	*Lmax	Leq
Drum Mixer	69.4	66.4
Grader	74.4	70.4
Dozer	71	67.1
Tractor	73.4	69.4
Total	74.4	<b style="color: red;">74.6

*Calculated Lmax is the Loudest value.