

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 1/17/2020

Case Description: CEMEX Cap Installation

---- Receptor #1 ----

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
Receptor at 50'	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment			
			Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Crane	No	16		80.6	50	0
Grader	No	40	85		50	0
Welder / Torch	No	40		74	50	0
Grader	No	40	85		50	0
Generator	No	50		80.6	50	0
Flat Bed Truck	No	40		74.3	50	0
Dozer	No	40		81.7	50	0
Excavator	No	40		80.7	50	0
Excavator	No	40		80.7	50	0
Scraper	No	40		83.6	50	0
Scraper	No	40		83.6	50	0
Backhoe	No	40		77.6	50	0
Backhoe	No	40		77.6	50	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)				
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Crane	80.6	72.6	N/A	N/A	N/A	N/A	N/A
Grader	85	81	N/A	N/A	N/A	N/A	N/A
Welder / Torch	74	70	N/A	N/A	N/A	N/A	N/A
Grader	85	81	N/A	N/A	N/A	N/A	N/A
Generator	80.6	77.6	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	74.3	70.3	N/A	N/A	N/A	N/A	N/A
Dozer	81.7	77.7	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A
Backhoe	77.6	73.6	N/A	N/A	N/A	N/A	N/A
Backhoe	77.6	73.6	N/A	N/A	N/A	N/A	N/A
Total	85	88.6	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

---- Receptor #2 ----

		Baselines (dBA)		
Description	Land Use	Daytime	Evening	Night
Receptor at 1230 f	Residential	65	60	55

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Crane	No	16		80.6	1230	0
Grader	No	40	85		1230	0
Welder / Torch	No	40		74	1230	0
Grader	No	40	85		1230	0
Generator	No	50		80.6	1230	0
Flat Bed Truck	No	40		74.3	1230	0
Dozer	No	40		81.7	1230	0
Excavator	No	40		80.7	1230	0
Excavator	No	40		80.7	1230	0
Scraper	No	40		83.6	1230	0
Scraper	No	40		83.6	1230	0
Backhoe	No	40		77.6	1230	0
Backhoe	No	40		77.6	1230	0

Equipment	Results						
	Calculated (dBA)			Noise Limits (dBA)			
	*Lmax	Leq	Day Lmax	Leq	Evening Lmax	Leq	Night Lmax
Crane	52.7	44.8	N/A	N/A	N/A	N/A	N/A
Grader	57.2	53.2	N/A	N/A	N/A	N/A	N/A
Welder / Torch	46.2	42.2	N/A	N/A	N/A	N/A	N/A
Grader	57.2	53.2	N/A	N/A	N/A	N/A	N/A
Generator	52.8	49.8	N/A	N/A	N/A	N/A	N/A
Flat Bed Truck	46.4	42.5	N/A	N/A	N/A	N/A	N/A
Dozer	53.9	49.9	N/A	N/A	N/A	N/A	N/A
Excavator	52.9	48.9	N/A	N/A	N/A	N/A	N/A
Excavator	52.9	48.9	N/A	N/A	N/A	N/A	N/A
Scraper	55.8	51.8	N/A	N/A	N/A	N/A	N/A
Scraper	55.8	51.8	N/A	N/A	N/A	N/A	N/A
Backhoe	49.7	45.8	N/A	N/A	N/A	N/A	N/A
Backhoe	49.7	45.8	N/A	N/A	N/A	N/A	N/A
Total	57.2	60.8	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

