

Appendix B

Roadway Construction Noise Model (RCNM), Version: 1.1, dated June 23, 2020

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 06/23/2020
Case Description: 3241 Park Blvd - Demolition

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25'	Commercial	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Concrete Saw	No	20		89.6	25.0	0.0
Dozer	No	40		81.7	25.0	0.0
Tractor	No	40	84.0		25.0	0.0
Backhoe	No	40		77.6	25.0	0.0

Results

Noise Limit Exceedance (dBA)							Noise Limits (dBA)		

Night	Day		Calculated (dBA)		Day		Evening		
			Evening	Night	Night				

Equipment	Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10	Lmax
L10									

Concrete Saw			95.6	91.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Dozer			87.7	86.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			90.0	89.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			83.6	82.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			95.6	94.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

**** Receptor #2 ****

Description	Land Use	Baselines (dBA)		
		Daytime	Evening	Night
85'	Commercial	60.0	60.0	60.0

Equipment						
Description	Impact Device	Usage (%)	Spec	Actual	Receptor Distance (feet)	Estimated Shielding (dBA)
			Lmax (dBA)	Lmax (dBA)		
Concrete Saw	No	20		89.6	85.0	0.0
Dozer	No	40		81.7	85.0	0.0
Tractor	No	40	84.0		85.0	0.0
Backhoe	No	40		77.6	85.0	0.0

Results

Noise Limit Exceedance (dBA)						Noise Limits (dBA)				

Night	Calculated (dBA)				Day		Evening			
	Day		Evening		Night					

Equipment		Lmax		L10	Lmax		L10	Lmax	L10	Lmax
L10	Lmax	L10	Lmax	L10	Lmax	L10				

Concrete	Saw		85.0	81.0	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Dozer			77.1	76.1	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Tractor			79.4	78.4	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Backhoe			73.0	72.0	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A				
Total			85.0	84.0	N/A	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A				

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 06/23/2020
Case Description: 3241 Park Blvd - site preparation

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25'	Commercial	60.0	60.0	60.0

Equipment						
Estimated Shielding Description	Impact	Usage	Spec	Actual	Receptor	(dBA)
			Lmax	Lmax	Distance	
Device	(%)	(dBA)	(dBA)	(feet)		
Grader	No	40	85.0		25.0	
0.0						
Tractor	No	40	84.0		25.0	
0.0						
Backhoe	No	40		77.6	25.0	
0.0						

Results

Noise Limit Exceedance (dBA)								Noise Limits (dBA)	
Night		Day		Calculated (dBA) Evening		Day Night		Evening	
Equipment				Lmax		L10		Lmax	
Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10
Grader				91.0	90.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor				90.0	89.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe				83.6	82.6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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		Total	91.0	93.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
85'	Commercial	60.0	60.0	60.0

Equipment

Estimated Shielding Description	Impact	Usage	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	(dBA)
Grader 0.0	No	40	85.0		85.0	
Tractor 0.0	No	40	84.0		85.0	
Backhoe 0.0	No	40		77.6	85.0	

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night	Day	Calculated (dBA)		Day		Evening	
		Evening	Night	Night	Evening		
Equipment		Lmax	L10	Lmax	L10	Lmax	L10
Grader		80.4	79.4	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor		79.4	78.4	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe		73.0	72.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total		80.4	82.4	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM),Version 1.1

Report date: 06/23/2020
Case Description: 3241 Park Blvd - grading

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25'	Commercial	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Dozer	No	33.3		81.7	25.0	0.0
Tractor	No	33.3		84.0	25.0	0.0
Backhoe	No	33.3		77.6	25.0	0.0

Results

Noise Limit Exceedance (dBA)							Noise Limits (dBA)		

Night		Day	Calculated (dBA)		Day	Night	Evening		
			Evening						

Equipment			Lmax	L10	Lmax	L10	Lmax	L10	Lmax
L10	Lmax	L10	Lmax	L10	Lmax	L10			

Dozer			87.7	86.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor			90.0	89.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe			83.6	82.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total			90.0	91.6	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

**** Receptor #2 ****

Baselines (dBA)

Description	Land Use	Daytime	Evening	Night
-----	-----	-----	-----	-----
85'	Commercial	60.0	60.0	60.0

Equipment

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
-----	-----	-----	-----	-----	-----	-----
Dozer	No	33.3		81.7	85.0	0.0
Tractor	No	33.3		84.0	85.0	0.0
Backhoe	No	33.3		77.6	85.0	0.0

Results

Noise Limit Exceedance (dBA) Noise Limits (dBA)

Night		Day		Calculated (dBA)		Day		Evening	

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 06/23/2020
Case Description: 3241 Park Blvd - building construction

**** Receptor #1 ****

Description -----	Land Use -----	Baselines (dBA)					
		Daytime -----	Evening -----	Night -----			
25'	Commercial	60.0	60.0	60.0			
Equipment -----							
Estimated			Spec	Actual	Receptor		
		Impact	Usage	Lmax	Lmax	Distance	
Shielding							
Description -----		Device -----	(%) -----	(dBA) -----	(dBA) -----	(feet) -----	(dBA)

Crane 0.0		No	16		80.6	25.0	
All Other Equipment > 5 HP 0.0		No	50	85.0		25.0	
Tractor 0.0		No	40	84.0		25.0	
Backhoe 0.0		No	40		77.6	25.0	

Results

Noise Limit Exceedance (dBA)								Noise Limits (dBA)	

Night		Day		Calculated (dBA)		Day		Evening	
				Evening		Night			
				-----		-----		-----	
Equipment				Lmax		L10		Lmax	
Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10
-----		-----		-----		-----		-----	
-----		-----		-----		-----		-----	
Crane				95.6	91.6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
All Other Equipment > 5 HP				87.7	86.7	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

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Tractor				90.0	89.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Backhoe				83.6	82.6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Total	95.6	94.6	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description -----	Land Use -----	Baselines (dBA)					
		Daytime -----	Evening -----	Night -----			
85'	Commercial	60.0	60.0	60.0			
Equipment -----							
Estimated			Spec	Actual	Receptor		
Shielding		Impact	Usage	Lmax	Lmax	Distance	
Description -----		Device -----	(%) -----	(dBA) -----	(dBA) -----	(feet) -----	(dBA)

Crane 0.0		No	16		80.6	85.0	
All Other Equipment > 5 HP 0.0		No	50	85.0		85.0	
Tractor 0.0		No	40	84.0		85.0	
Backhoe 0.0		No	40		77.6	85.0	

Results

Noise Limit Exceedance (dBA)								Noise Limits (dBA)	

Night		Day	Calculated (dBA)			Day		Evening	
			Evening			Night			
			-----			-----		-----	
Equipment			Lmax	L10		Lmax	L10	Lmax	L10
Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10		
-----		-----	-----	-----	-----	-----	-----	-----	-----
Crane			75.9	71.0		N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

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All Other Equipment > 5 HP				80.4	80.4	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Tractor				79.4	78.4	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
Backhoe				73.0	72.0	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		
		Total		80.4	83.2	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A		

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 06/23/2020
Case Description: 3241 Park Blvd - paving

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA) Evening	Night
-----	-----	-----	-----	-----
25'	Commercial	60.0	60.0	60.0

Equipment						
Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
-----	-----	-----	-----	-----	-----	-----
Concrete Mixer Truck	No	40		78.8	25.0	0.0
Concrete Mixer Truck	No	40		78.8	25.0	0.0
Concrete Mixer Truck	No	40		78.8	25.0	0.0
Concrete Mixer Truck	No	40		78.8	25.0	0.0
Paver	No	50		77.2	25.0	0.0
Roller	No	20		80.0	25.0	0.0
Tractor	No	40	84.0		25.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
-----					-----				
Night		Day	Calculated (dBA) Evening		Day Night	Evening			
-----		-----	-----		-----	-----			
Equipment	L10	Lmax	L10	Lmax	Lmax	L10	Lmax	L10	
-----	-----	-----	-----	-----	-----	-----	-----	-----	
Concrete Mixer Truck			84.8	83.8	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Concrete Mixer Truck			84.8	83.8	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Concrete Mixer Truck			84.8	83.8	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Concrete Mixer Truck			84.8	83.8	N/A	N/A	N/A	N/A	
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	

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Paver			83.2	83.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Roller			86.0	82.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Tractor			90.0	89.0	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
		Total	90.0	93.3	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
85'	Commercial	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Concrete Mixer Truck	No	40		78.8	85.0	0.0
Concrete Mixer Truck	No	40		78.8	85.0	0.0
Concrete Mixer Truck	No	40		78.8	85.0	0.0
Concrete Mixer Truck	No	40		78.8	85.0	0.0
Paver	No	50		77.2	85.0	0.0
Roller	No	20		80.0	85.0	0.0
Tractor	No	40	84.0		85.0	0.0

Results

Noise Limit Exceedance (dBA)							Noise Limits (dBA)		
Night		Day	Calculated (dBA)		Day		Evening		
			Evening		Night				
Equipment			Lmax	L10	Lmax	L10	Lmax	L10	Lmax
L10	Lmax	L10	Lmax	L10	Lmax	L10			
Concrete Mixer Truck			74.2	73.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Concrete Mixer Truck			74.2	73.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			

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Concrete Mixer Truck	74.2	73.2	N/A	N/A	N/A	N/A	N/A	N/A
N/A N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Concrete Mixer Truck	74.2	73.2	N/A	N/A	N/A	N/A	N/A	N/A
N/A N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Paver	72.6	72.6	N/A	N/A	N/A	N/A	N/A	N/A
N/A N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Roller	75.4	71.4	N/A	N/A	N/A	N/A	N/A	N/A
N/A N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	79.4	78.4	N/A	N/A	N/A	N/A	N/A	N/A
N/A N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	79.4	82.7	N/A	N/A	N/A	N/A	N/A	N/A
N/A N/A N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Roadway Construction Noise Model (RCNM), Version 1.1

Report date: 06/23/2020
Case Description: 3241 Park Blvd - architectural coating

**** Receptor #1 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
25'	Commercial	60.0	60.0	60.0

Description	Impact Device	Usage (%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Compressor (air)	No	40		77.7	25.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
Night	Day	Calculated (dBA)		Day Night	Evening		Night	Evening	Night
		Lmax	L10		Lmax	L10		Lmax	L10
Equipment	Lmax	L10	Lmax	L10	Lmax	L10	Lmax	L10	Lmax
Compressor (air)	N/A	N/A	83.7	82.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Total	N/A	N/A	83.7	82.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

**** Receptor #2 ****

Description	Land Use	Daytime	Baselines (dBA)	
			Evening	Night
85'	Commercial	60.0	60.0	60.0

Equipment

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Description	Impact Device	Usage (%)	Spec Lmax (dBA)	Actual Lmax (dBA)	Receptor Distance (feet)	Estimated Shielding (dBA)
Compressor (air)	No	40		77.7	85.0	0.0

Results

Noise Limit Exceedance (dBA)					Noise Limits (dBA)				
-----					-----				
-----					-----				
Night		Day		Calculated (dBA)	Day		Evening		
				Evening	Night				
-----		-----		-----	-----		-----		
Equipment			Lmax	L10	Lmax	L10	Lmax	L10	Lmax
L10	Lmax	L10	Lmax	L10	Lmax	L10			
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Compressor (air)			74.2	73.2	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			
Total			79.4	82.7	N/A	N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A			