

Appendix D

Noise Modeling Results

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat #####

Case Descr Phase I - Grading.

---- Receptor #1 ----

Baselines (dBA)

Descriptor Land Use	Daytime	Evening	Night
Noise Mea Residential	63	63	63

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Excavator	No	40		80.7	50	0
Grader	No	40	85		50	0
Dozer	No	40		81.7	50	0
Scraper	No	40		83.6	50	0
Tractor	No	40	84		50	0
Backhoe	No	40		77.6	50	0
Slurry Trenching Macf	No	50		80.4	50	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)					
	*Lmax	Leq	Day	Evening		Night		
			Lmax	Leq	Lmax	Leq	Lmax	Leq
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A
Grader	85	81	N/A	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	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	84	80	N/A	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	N/A
Slurry Trenching Macf	80.4	77.3	N/A	N/A	N/A	N/A	N/A	N/A
Total	85	87	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM), Version 1.1

Report dat #####

Case Descr Phase I -Paving

---- Receptor #1 ----

Baselines (dBA)

Descriptor Land Use	Daytime	Evening	Night
Noise Mea Residential	63	63	63

Equipment

Description	Impact Device	Usage(%)	Spec	Actual	Receptor	Estimated
			Lmax (dBA)	Lmax (dBA)	Distance (feet)	Shielding (dBA)
Paver	No	50		77.2	50	0
Roller	No	20		80	50	0

Results

Equipment	Calculated (dBA)		Noise Limits (dBA)					
	*Lmax	Leq	Day		Evening		Night	
			Lmax	Leq	Lmax	Leq	Lmax	Leq
Paver	77.2	74.2	N/A	N/A	N/A	N/A	N/A	N/A
Roller	80	73	N/A	N/A	N/A	N/A	N/A	N/A
Total	80	76.7	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.

Roadway Construction Noise Model (RCNM),Version 1.1

Report dat #####

Case Descr Phase II - Grading

---- Receptor #1 ----

Baselines (dBA)

Descriptor Land Use	Daytime	Evening	Night
Noise Mea Residential	66.8	66.8	66.8

Equipment

Description	Impact Device	Usage(%)	Equipment		Receptor Distance (feet)	Estimated Shielding (dBA)
			Spec Lmax (dBA)	Actual Lmax (dBA)		
Excavator	No	40		80.7	50	0
Grader	No	40	85		50	0
Dozer	No	40		81.7	50	0
Scraper	No	40		83.6	50	0
Tractor	No	40	84		50	0
Backhoe	No	40		77.6	50	0
Slurry Trenching Macf	No	50		80.4	50	0

Results

Equipment	Calculated (dBA)			Noise Limits (dBA)				
	*Lmax	Leq	Day	Leq	Evening		Night	
			Lmax		Lmax	Leq	Lmax	Leq
Excavator	80.7	76.7	N/A	N/A	N/A	N/A	N/A	N/A
Grader	85	81	N/A	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	N/A
Scraper	83.6	79.6	N/A	N/A	N/A	N/A	N/A	N/A
Tractor	84	80	N/A	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	N/A
Slurry Trenching Macf	80.4	77.3	N/A	N/A	N/A	N/A	N/A	N/A
Total	85	87	N/A	N/A	N/A	N/A	N/A	N/A

*Calculated Lmax is the Loudest value.