

Appendix G Noise Data Worksheets



To User: bordered cells are inputs, unbordered cells have formulae

allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		105	74.6	8	480	71
	Dump Truck	0	40	76		105	69.6	8	480	0
	Vacuum Street Sweeper	0	10	80		105	73.6	2	120	0
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		105	74.6	8	480	71
	Dump Truck	0	40	76		105	69.6	8	480	0
	Backhoe	0	40	78		105	71.6	8	480	0
	Vacuum Street Sweeper	0	10	80		105	73.6	2	120	0
Total for Trenching Phase:										
Demolition	Dump Truck	0	40	76		105	69.6	8	480	0
	Excavator	1	40	81		105	74.6	8	480	71
	Front End Loader	0	40	79		105	72.6	4	240	0
	Pickup Truck	0	40	55		105	48.6	4	240	0
	Vacuum Street Sweeper	0	10	80		105	73.6	2	120	0
Total for Demolition Phase:										
Grading	Excavator	1	40	81		105	74.6	8	480	71
	Dump Truck	0	40	76		105	69.6	8	480	0
	Vacuum Street Sweeper	0	10	80		105	73.6	2	120	0
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		105	88.6	8	480	82
	Excavator	0	40	81		105	74.6	8	480	0
	Dump Truck	0	40	76		105	69.6	8	480	0
	Vacuum Street Sweeper	0	10	80		105	73.6	2	120	0
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		105	74.6	8	480	71
	Concrete Mixer Truck	0	40	79		105	72.6	4	240	0
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	0	40	78		105	71.6	8	480	0
	Concrete Mixer Truck	1	40	79		105	72.6	8	480	69
Total for Architectural Coating Phase:										

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Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		263	66.6	8	480	63
	Dump Truck	3	40	76		263	61.6	8	480	62
	Vacuum Street Sweeper	1	10	80		263	65.6	2	120	50
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		263	66.6	8	480	63
	Dump Truck	3	40	76		263	61.6	8	480	62
	Backhoe	1	40	78		263	63.6	8	480	60
	Vacuum Street Sweeper	1	10	80		263	65.6	2	120	50
Total for Trenching Phase:										
Demolition	Dump Truck	2	40	76		263	61.6	8	480	61
	Excavator	1	40	81		263	66.6	8	480	63
	Front End Loader	1	40	79		263	64.6	4	240	58
	Pickup Truck	1	40	55		263	40.6	4	240	34
	Vacuum Street Sweeper	1	10	80		263	65.6	2	120	50
Total for Demolition Phase:										
Grading	Excavator	2	40	81		263	66.6	8	480	66
	Dump Truck	4	40	76		263	61.6	8	480	64
	Vacuum Street Sweeper	1	10	80		263	65.6	2	120	50
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		263	80.6	8	480	74
	Excavator	2	40	81		263	66.6	8	480	66
	Dump Truck	4	40	76		263	61.6	8	480	64
	Vacuum Street Sweeper	1	10	80		263	65.6	2	120	50
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		263	66.6	8	480	63
	Concrete Mixer Truck	1	40	79		263	64.6	4	240	58
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	1	40	78		263	63.6	8	480	60
	Concrete Mixer Truck	1	40	79		263	64.6	8	480	61
Total for Architectural Coating Phase:										

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allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		70	78.1	8	480	74
	Dump Truck	0	40	76		70	73.1	8	480	0
	Vacuum Street Sweeper	0	10	80		70	77.1	2	120	0
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		70	78.1	8	480	74
	Dump Truck	0	40	76		70	73.1	8	480	0
	Backhoe	0	40	78		70	75.1	8	480	0
	Vacuum Street Sweeper	0	10	80		70	77.1	2	120	0
Total for Trenching Phase:										
Demolition	Dump Truck	0	40	76		70	73.1	8	480	0
	Excavator	1	40	81		70	78.1	8	480	74
	Front End Loader	0	40	79		70	76.1	4	240	0
	Pickup Truck	0	40	55		70	52.1	4	240	0
	Vacuum Street Sweeper	0	10	80		70	77.1	2	120	0
Total for Demolition Phase:										
Grading	Excavator	1	40	81		70	78.1	8	480	74
	Dump Truck	0	40	76		70	73.1	8	480	0
	Vacuum Street Sweeper	0	10	80		70	77.1	2	120	0
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		70	92.1	8	480	85
	Excavator	0	40	81		70	78.1	8	480	0
	Dump Truck	0	40	76		70	73.1	8	480	0
	Vacuum Street Sweeper	0	10	80		70	77.1	2	120	0
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		70	78.1	8	480	74
	Concrete Mixer Truck	0	40	79		70	76.1	4	240	0
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	0	40	78		70	75.1	8	480	0
	Concrete Mixer Truck	1	40	79		70	76.1	8	480	72
Total for Architectural Coating Phase:										

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allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		114	73.8	8	480	70
	Dump Truck	3	40	76		114	68.8	8	480	70
	Vacuum Street Sweeper	1	10	80		114	72.8	2	120	57
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		114	73.8	8	480	70
	Dump Truck	3	40	76		114	68.8	8	480	70
	Backhoe	1	40	78		114	70.8	8	480	67
	Vacuum Street Sweeper	1	10	80		114	72.8	2	120	57
Total for Trenching Phase:										
Demolition	Dump Truck	2	40	76		114	68.8	8	480	68
	Excavator	1	40	81		114	73.8	8	480	70
	Front End Loader	1	40	79		114	71.8	4	240	65
	Pickup Truck	1	40	55		114	47.8	4	240	41
	Vacuum Street Sweeper	1	10	80		114	72.8	2	120	57
	Total for Demolition Phase:									
Grading	Excavator	2	40	81		114	73.8	8	480	73
	Dump Truck	4	40	76		114	68.8	8	480	71
	Vacuum Street Sweeper	1	10	80		114	72.8	2	120	57
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		114	87.8	8	480	81
	Excavator	2	40	81		114	73.8	8	480	73
	Dump Truck	4	40	76		114	68.8	8	480	71
	Vacuum Street Sweeper	1	10	80		114	72.8	2	120	57
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		114	73.8	8	480	70
	Concrete Mixer Truck	1	40	79		114	71.8	4	240	65
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	1	40	78		114	70.8	8	480	67
	Concrete Mixer Truck	1	40	79		114	71.8	8	480	68
Total for Architectural Coating Phase:										

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allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		80	76.9	8	480	73
	Dump Truck	0	40	76		80	71.9	8	480	0
	Vacuum Street Sweeper	0	10	80		80	75.9	2	120	0
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		80	76.9	8	480	73
	Dump Truck	0	40	76		80	71.9	8	480	0
	Backhoe	0	40	78		80	73.9	8	480	0
	Vacuum Street Sweeper	0	10	80		80	75.9	2	120	0
Total for Trenching Phase:										
Demolition	Dump Truck	0	40	76		80	71.9	8	480	0
	Excavator	1	40	81		80	76.9	8	480	73
	Front End Loader	0	40	79		80	74.9	4	240	0
	Pickup Truck	0	40	55		80	50.9	4	240	0
	Vacuum Street Sweeper	0	10	80		80	75.9	2	120	0
Total for Demolition Phase:										
Grading	Excavator	1	40	81		80	76.9	8	480	73
	Dump Truck	0	40	76		80	71.9	8	480	0
	Vacuum Street Sweeper	0	10	80		80	75.9	2	120	0
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		80	90.9	8	480	84
	Excavator	0	40	81		80	76.9	8	480	0
	Dump Truck	0	40	76		80	71.9	8	480	0
	Vacuum Street Sweeper	0	10	80		80	75.9	2	120	0
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		80	76.9	8	480	73
	Concrete Mixer Truck	0	40	79		80	74.9	4	240	0
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	0	40	78		80	73.9	8	480	0
	Concrete Mixer Truck	1	40	79		80	74.9	8	480	71
Total for Architectural Coating Phase:										

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noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		163	70.7	8	480	67
	Dump Truck	3	40	76		163	65.7	8	480	67
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		163	70.7	8	480	67
	Dump Truck	3	40	76		163	65.7	8	480	67
	Backhoe	1	40	78		163	67.7	8	480	64
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Trenching Phase:										
Demolition	Dump Truck	2	40	76		163	65.7	8	480	65
	Excavator	1	40	81		163	70.7	8	480	67
	Front End Loader	1	40	79		163	68.7	4	240	62
	Pickup Truck	1	40	55		163	44.7	4	240	38
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Demolition Phase:										
Grading	Excavator	2	40	81		163	70.7	8	480	70
	Dump Truck	4	40	76		163	65.7	8	480	68
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		163	84.7	8	480	78
	Excavator	2	40	81		163	70.7	8	480	70
	Dump Truck	4	40	76		163	65.7	8	480	68
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		163	70.7	8	480	67
	Concrete Mixer Truck	1	40	79		163	68.7	4	240	62
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	1	40	78		163	67.7	8	480	64
	Concrete Mixer Truck	1	40	79		163	68.7	8	480	65
Total for Architectural Coating Phase:										

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allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		65	78.7	8	480	75
	Dump Truck	0	40	76		65	73.7	8	480	0
	Vacuum Street Sweeper	0	10	80		65	77.7	2	120	0
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		65	78.7	8	480	75
	Dump Truck	0	40	76		65	73.7	8	480	0
	Backhoe	0	40	78		65	75.7	8	480	0
	Vacuum Street Sweeper	0	10	80		65	77.7	2	120	0
Total for Trenching Phase:										
Demolition	Dump Truck	0	40	76		65	73.7	8	480	0
	Excavator	1	40	81		65	78.7	8	480	75
	Front End Loader	0	40	79		65	76.7	4	240	0
	Pickup Truck	0	40	55		65	52.7	4	240	0
	Vacuum Street Sweeper	0	10	80		65	77.7	2	120	0
Total for Demolition Phase:										
Grading	Excavator	1	40	81		65	78.7	8	480	75
	Dump Truck	0	40	76		65	73.7	8	480	0
	Vacuum Street Sweeper	0	10	80		65	77.7	2	120	0
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		65	92.7	8	480	86
	Excavator	0	40	81		65	78.7	8	480	0
	Dump Truck	0	40	76		65	73.7	8	480	0
	Vacuum Street Sweeper	0	10	80		65	77.7	2	120	0
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		65	78.7	8	480	75
	Concrete Mixer Truck	0	40	79		65	76.7	4	240	0
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	0	40	78		65	75.7	8	480	0
	Concrete Mixer Truck	1	40	79		65	76.7	8	480	73
Total for Architectural Coating Phase:										

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allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		163	70.7	8	480	67
	Dump Truck	3	40	76		163	65.7	8	480	67
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Site Preparation Phase: <b>69.8</b>										
Trenching	Excavator	1	40	81		163	70.7	8	480	67
	Dump Truck	3	40	76		163	65.7	8	480	67
	Backhoe	1	40	78		163	67.7	8	480	64
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Trenching Phase: <b>70.7</b>										
Demolition	Dump Truck	2	40	76		163	65.7	8	480	65
	Excavator	1	40	81		163	70.7	8	480	67
	Front End Loader	1	40	79		163	68.7	4	240	62
	Pickup Truck	1	40	55		163	44.7	4	240	38
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
	Total for Demolition Phase: <b>69.8</b>									
Grading	Excavator	2	40	81		163	70.7	8	480	70
	Dump Truck	4	40	76		163	65.7	8	480	68
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Grading Phase: <b>72.0</b>										
Retaining Wall Construction	Impact Pile Driver	1	20	95		163	84.7	8	480	78
	Excavator	2	40	81		163	70.7	8	480	70
	Dump Truck	4	40	76		163	65.7	8	480	68
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Retaining Wall Construction Phase: <b>78.8</b>										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		163	70.7	8	480	67
	Concrete Mixer Truck	1	40	79		163	68.7	4	240	62
Total for Sidewalk/Brow Ditch/Paving Phase: <b>67.9</b>										
Architectural Coating	Compressor (air)	1	40	78		163	67.7	8	480	64
	Concrete Mixer Truck	1	40	79		163	68.7	8	480	65
Total for Architectural Coating Phase: <b>67.3</b>										

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allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 8 noise level limit for construction phase, per FTA = 80

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		10	95.0	8	480	91
	Dump Truck	0	40	76		10	90.0	8	480	0
	Vacuum Street Sweeper	0	10	80		10	94.0	2	120	0
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		10	95.0	8	480	91
	Dump Truck	0	40	76		10	90.0	8	480	0
	Backhoe	0	40	78		10	92.0	8	480	0
	Vacuum Street Sweeper	0	10	80		10	94.0	2	120	0
Total for Trenching Phase:										
Demolition	Dump Truck	0	40	76		10	90.0	8	480	0
	Excavator	1	40	81		10	95.0	8	480	91
	Front End Loader	0	40	79		10	93.0	4	240	0
	Pickup Truck	0	40	55		10	69.0	4	240	0
	Vacuum Street Sweeper	0	10	80		10	94.0	2	120	0
Total for Demolition Phase:										
Grading	Excavator	1	40	81		10	95.0	8	480	91
	Dump Truck	0	40	76		10	90.0	8	480	0
	Vacuum Street Sweeper	0	10	80		10	94.0	2	120	0
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		25	101.0	8	480	94
	Excavator	0	40	81		10	95.0	8	480	0
	Dump Truck	0	40	76		10	90.0	8	480	0
	Vacuum Street Sweeper	0	10	80		10	94.0	2	120	0
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		10	95.0	8	480	91
	Concrete Mixer Truck	0	40	79		10	93.0	4	240	0
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	0	40	78		10	92.0	8	480	0
	Concrete Mixer Truck	1	40	79		10	93.0	8	480	89
Total for Architectural Coating Phase:										

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allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		163	70.7	8	480	67
	Dump Truck	3	40	76		163	65.7	8	480	67
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Site Preparation Phase: <b>69.8</b>										
Trenching	Excavator	1	40	81		163	70.7	8	480	67
	Dump Truck	3	40	76		163	65.7	8	480	67
	Backhoe	1	40	78		163	67.7	8	480	64
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Trenching Phase: <b>70.7</b>										
Demolition	Dump Truck	2	40	76		163	65.7	8	480	65
	Excavator	1	40	81		163	70.7	8	480	67
	Front End Loader	1	40	79		163	68.7	4	240	62
	Pickup Truck	1	40	55		163	44.7	4	240	38
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Demolition Phase: <b>69.8</b>										
Grading	Excavator	2	40	81		163	70.7	8	480	70
	Dump Truck	4	40	76		163	65.7	8	480	68
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Grading Phase: <b>72.0</b>										
Retaining Wall Construction	Impact Pile Driver	1	20	95		163	84.7	8	480	78
	Excavator	2	40	81		163	70.7	8	480	70
	Dump Truck	4	40	76		163	65.7	8	480	68
	Vacuum Street Sweeper	1	10	80		163	69.7	2	120	54
Total for Retaining Wall Construction Phase: <b>78.8</b>										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		163	70.7	8	480	67
	Concrete Mixer Truck	1	40	79		163	68.7	4	240	62
Total for Sidewalk/Brow Ditch/Paving Phase: <b>67.9</b>										
Architectural Coating	Compressor (air)	1	40	78		163	67.7	8	480	64
	Concrete Mixer Truck	1	40	79		163	68.7	8	480	65
Total for Architectural Coating Phase: <b>67.3</b>										

To User: bordered cells are inputs, unbordered cells have formulae

allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		155	71.2	8	480	67
	Dump Truck	0	40	76		155	66.2	8	480	0
	Vacuum Street Sweeper	0	10	80		155	70.2	2	120	0
Total for Site Preparation Phase: 67										
Trenching	Excavator	1	40	81		155	71.2	8	480	67
	Dump Truck	0	40	76		155	66.2	8	480	0
	Backhoe	0	40	78		155	68.2	8	480	0
	Vacuum Street Sweeper	0	10	80		155	70.2	2	120	0
Total for Trenching Phase: 67										
Demolition	Dump Truck	0	40	76		155	66.2	8	480	0
	Excavator	1	40	81		155	71.2	8	480	67
	Front End Loader	0	40	79		155	69.2	4	240	0
	Pickup Truck	0	40	55		155	45.2	4	240	0
	Vacuum Street Sweeper	0	10	80		155	70.2	2	120	0
	Total for Demolition Phase: 67									
Grading	Excavator	1	40	81		155	71.2	8	480	67
	Dump Truck	0	40	76		155	66.2	8	480	0
	Vacuum Street Sweeper	0	10	80		155	70.2	2	120	0
Total for Grading Phase: 67										
Retaining Wall Construction	Impact Pile Driver	1	20	95		155	85.2	8	480	78
	Excavator	0	40	81		155	71.2	8	480	0
	Dump Truck	0	40	76		155	66.2	8	480	0
	Vacuum Street Sweeper	0	10	80		155	70.2	2	120	0
Total for Retaining Wall Construction Phase: 78										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		155	71.2	8	480	67
	Concrete Mixer Truck	0	40	79		155	69.2	4	240	0
Total for Sidewalk/Brow Ditch/Paving Phase: 67										
Architectural Coating	Compressor (air)	0	40	78		155	68.2	8	480	0
	Concrete Mixer Truck	1	40	79		155	69.2	8	480	65
Total for Architectural Coating Phase: 65										

To User: bordered cells are inputs, unbordered cells have formulae

allowable hours over which Leq is to be averaged (example: 8 for County of San Diego, FTA guidance) = 80  
noise level limit for construction phase, per FTA = 8

Construction Phase	Equipment	Total Equipment Qty	AUF % (from FHWA RCNM)	Reference Lmax @ 50 ft. from FHWA RCNM	Client Equipment Description, Data Source and/or Notes	Source to NSR Distance (ft.)	Distance-Adjusted Lmax	Allowable Operation Time (hours)	Allowable Operation Time (minutes)	Predicted 8-hour Leq
Site Preparation	Excavator	1	40	81		256	66.8	8	480	63
	Dump Truck	3	40	76		256	61.8	8	480	63
	Vacuum Street Sweeper	1	10	80		256	65.8	2	120	50
Total for Site Preparation Phase:										
Trenching	Excavator	1	40	81		256	66.8	8	480	63
	Dump Truck	3	40	76		256	61.8	8	480	63
	Backhoe	1	40	78		256	63.8	8	480	60
	Vacuum Street Sweeper	1	10	80		256	65.8	2	120	50
Total for Trenching Phase:										
Demolition	Dump Truck	2	40	76		256	61.8	8	480	61
	Excavator	1	40	81		256	66.8	8	480	63
	Front End Loader	1	40	79		256	64.8	4	240	58
	Pickup Truck	1	40	55		256	40.8	4	240	34
	Vacuum Street Sweeper	1	10	80		256	65.8	2	120	50
	Total for Demolition Phase:									
Grading	Excavator	2	40	81		256	66.8	8	480	66
	Dump Truck	4	40	76		256	61.8	8	480	64
	Vacuum Street Sweeper	1	10	80		256	65.8	2	120	50
Total for Grading Phase:										
Retaining Wall Construction	Impact Pile Driver	1	20	95		256	80.8	8	480	74
	Excavator	2	40	81		256	66.8	8	480	66
	Dump Truck	4	40	76		256	61.8	8	480	64
	Vacuum Street Sweeper	1	10	80		256	65.8	2	120	50
Total for Retaining Wall Construction Phase:										
Sidewalk/Brow Ditch/Paving	Excavator	1	40	81		256	66.8	8	480	63
	Concrete Mixer Truck	1	40	79		256	64.8	4	240	58
Total for Sidewalk/Brow Ditch/Paving Phase:										
Architectural Coating	Compressor (air)	1	40	78		256	63.8	8	480	60
	Concrete Mixer Truck	1	40	79		256	64.8	8	480	61
Total for Architectural Coating Phase:										