Appendix H: Construction

New York City Department of City Planning

Atlantic Avenue Mixed-Use Project

Construction Noise Analysis Results - Summary of Noise Levels by Projected Site

Site 14		Existing Leq		Total Leq		Change in Leq	
	Dis	Min	Max	Min	Max	Min	Max
Typical - 50 feet	50	63	70	75	93	7	29
Typical - 100 feet	100	63	70	72	88	4	24
Typical - 150 feet	150	63	70	70	84	3	21
Typical - 200 feet	200	63	70	68	82	2	19
Typical - 250 feet	250	63	70	67	79	1	16
Typical - 300 feet	300	63	70	66	77	1	14
Typical - 350 feet	350	63	70	66	76	1	12
Typical - 400 feet	400	63	70	65	75	1	10
Typical - 450 feet	450	63	70	65	74	1	9
Typical - 500 feet	500	63	70	65	74	0	9

Site 22		Existing Leq		Total Leq		Change in Leq	
	Dis	Min	Max	Min	Max	Min	Max
Typical - 50 feet	50	63	66	74	92	9	29
Typical - 100 feet	100	63	66	71	88	5	25
Typical - 150 feet	150	63	66	69	84	4	21
Typical - 200 feet	200	63	70	67	82	2	19
Typical - 250 feet	250	63	70	66	79	2	16
Typical - 300 feet	300	63	70	66	77	1	13
Typical - 350 feet	350	63	70	65	75	1	11
Typical - 400 feet	400	63	70	65	74	1	10
Typical - 450 feet	450	63	70	65	73	1	10
Typical - 500 feet	500	63	70	64	72	1	9

Site 54		Existing Leq		Total Leq		Change in Leq	
	Dis	Min	Max	Min	Max	Min	Max
Typical - 50 feet	50	63	67	75	93	9	30
Typical - 100 feet	100	63	67	72	88	5	25
Typical - 150 feet	150	63	67	70	84	4	21
Typical - 200 feet	200	63	68	69	82	3	19
Typical - 250 feet	250	63	68	67	79	2	16
Typical - 300 feet	300	63	68	67	78	2	13

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Typical - 350 feet	350	63	68	66	76	1	12
Typical - 400 feet	400	63	68	66	74	1	10
Typical - 450 feet	450	63	68	65	73	1	10
Typical - 500 feet	500	63	68	65	73	1	9

Site 55		Existing Leq		Total Leq		Change in Leq	
	Dis	Min	Max	Min	Max	Min	Max
Typical - 50 feet	50	67	70	76	93	7	26
Typical - 100 feet	100	67	70	72	88	4	21
Typical - 150 feet	150	67	70	71	84	3	17
Typical - 200 feet	200	67	70	70	82	2	15
Typical - 250 feet	250	63	70	67	79	2	16
Typical - 300 feet	300	63	70	66	77	2	14
Typical - 350 feet	350	63	70	66	76	1	12
Typical - 400 feet	400	63	70	65	75	1	10
Typical - 450 feet	450	63	70	65	74	1	9
Typical - 500 feet	500	63	70	65	73	1	9

Site 6		Existing Leq		Total Leq		Change in Leq	
	Dis	Min	Max	Min	Max	Min	Max
Typical - 50 feet	50	63	70	74	92	6	29
Typical - 100 feet	100	63	70	71	88	4	25
Typical - 150 feet	150	63	70	69	84	3	21
Typical - 200 feet	200	63	70	67	82	2	19
Typical - 250 feet	250	63	70	66	79	2	16
Typical - 300 feet	300	63	70	66	77	1	14
Typical - 350 feet	350	63	70	65	75	1	11
Typical - 400 feet	400	63	70	65	74	1	10
Typical - 450 feet	450	63	70	65	73	1	9
Typical - 500 feet	500	63	70	64	73	0	9

Site 9		Existing Leq		Total Leq		Change in Leq	
	Dis	Min	Max	Min	Max	Min	Max

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Construction Noise Analysis Results - Summary of Noise Levels by Projected Site

Typical - 50 feet	50	63	70	74	92	5	28
Typical - 100 feet	100	63	70	71	88	3	23
Typical - 150 feet	150	63	70	69	84	2	21
Typical - 200 feet	200	63	70	68	82	1	18
Typical - 250 feet	250	63	70	66	79	1	16
Typical - 300 feet	300	63	70	66	77	1	14
Typical - 350 feet	350	63	70	65	75	1	12
Typical - 400 feet	400	63	70	65	74	1	10
Typical - 450 feet	450	63	70	65	74	1	9
Typical - 500 feet	500	63	70	64	73	0	9

Site 10		**Existing Leq**		**Total Leq**		**Change in Leq**	
	Dis	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**
Typical - 50 feet	50	63	70	74	92	5	29
Typical - 100 feet	100	63	70	71	88	3	25
Typical - 150 feet	150	63	70	69	84	2	21
Typical - 200 feet	200	63	70	68	82	2	19
Typical - 250 feet	250	63	70	66	80	1	16
Typical - 300 feet	300	63	70	66	77	1	14
Typical - 350 feet	350	63	70	65	75	1	12
Typical - 400 feet	400	63	70	65	74	1	10
Typical - 450 feet	450	63	70	65	74	0	9
Typical - 500 feet	500	63	70	64	73	0	9

Site 20		**Existing Leq**		**Total Leq**		**Change in Leq**	
	Dis	**Min**	**Max**	**Min**	**Max**	**Min**	**Max**
Typical - 50 feet	50	63	69	74	92	7	28
Typical - 100 feet	100	63	69	71	88	4	23
Typical - 150 feet	150	63	69	69	84	3	20
Typical - 200 feet	200	63	69	67	82	2	17
Typical - 250 feet	250	63	69	66	79	1	16
Typical - 300 feet	300	63	69	66	77	1	14
Typical - 350 feet	350	63	69	65	75	1	12
Typical - 400 feet	400	63	69	65	75	1	10

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Construction Noise Analysis Results - Summary of Noise Levels by Projected Site

Typical - 450 feet	450	63	69	65	74	0	9
Typical - 500 feet	500	63	69	64	73	0	9

Site 45		Existing Leq		Total Leq		Change in Leq	
	Dis	Min	Max	Min	Max	Min	Max
Typical - 50 feet	50	63	70	74	92	5	29
Typical - 100 feet	100	63	70	71	88	3	25
Typical - 150 feet	150	63	70	69	84	2	21
Typical - 200 feet	200	63	70	68	82	1	19
Typical - 250 feet	250	63	70	66	80	1	16
Typical - 300 feet	300	63	70	66	77	1	14
Typical - 350 feet	350	63	70	65	75	1	12
Typical - 400 feet	400	63	70	65	74	1	10
Typical - 450 feet	450	63	70	65	74	0	9
Typical - 500 feet	500	63	70	64	73	0	9

New York City Department of City Planning

Atlantic Avenue Mixed-Use Project

Construction Noise Analysis Equipment Noise Assumptions

									Area Source	Point Source
Phase	**Activity**	**Equipment Type (from NYC DCP)**	**RCNM Equiv**	**Equipment Quantity**	**Hrs/Day**	**U.F**	**Lmax**	**Leq**	**Leq Energy**	**Leq Energy**
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	excavator	Excavator	1		0.4	85	81	1E+08	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	jackhammer/pavement breaker	Jackhammer	2		0.2	85	81	1E+08	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	compressor	Compressor (air, less than or equal to 350 cfm)	1		0.4	75	71	1E+07	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	rebar bender	Bar Bender	2		0.2	80	76	4E+07	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	welding equipment	Welder / Torch	2		0.4	73	72	2E+07	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	generator	Generator	1		0.5	82	79	8E+07	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	pile driver	Impact Pile Driver	1		0.2	95	88	6E+08	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	portable water pump	Pumps	1		0.5	77	74	3E+07	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	dozer	Dozer	1		0.4	85	81	1E+08	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	wheeled front end loader	Front End Loader	1		0.4	80	76	4E+07	
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	concrete pump	Concrete Pump Truck	1		0.2	82	75		3E+07
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	concrete mixer	Concrete Mixer Truck	1		0.4	85	81		1E+08
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	100 ton crawler crane	Crane	1		0.16	85	77	5E+07	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	excavator	Excavator	2		0.4	85	84	3E+08	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	jackhammer/pavement breaker	Jackhammer	2		0.2	85	81	1E+08	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	compressor	Compressor (air, less than or equal to 350 cfm)	1		0.4	75	71	1E+07	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	rebar bender	Bar Bender	2		0.2	80	76	4E+07	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	welding equipment	Welder / Torch	2		0.4	73	72	2E+07	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	generator	Generator	1		0.5	82	79	8E+07	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	pile driver	Impact Pile Driver	1		0.2	95	88	6E+08	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	portable water pump	Pumps	1		0.5	77	74	3E+07	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	dozer	Dozer	1		0.4	85	81	1E+08	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	wheeled front end loader	Front End Loader	1		0.4	80	76	4E+07	
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	concrete pump	Concrete Pump Truck	1		0.2	82	75		3E+07
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	concrete mixer	Concrete Mixer Truck	1		0.4	85	81		1E+08
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	100 ton crawler crane	Crane	1		0.16	85	77	5E+07	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	excavator	Excavator	2		0.4	85	84	3E+08	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	jackhammer/pavement breaker	Jackhammer	2		0.2	85	81	1E+08	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	compressor	Compressor (air, less than or equal to 350 cfm)	2		0.4	75	74	3E+07	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	rebar bender	Bar Bender	2		0.2	80	76	4E+07	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	welding equipment	Welder / Torch	2		0.4	73	72	2E+07	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	generator	Generator	2		0.5	82	82	2E+08	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	pile driver	Impact Pile Driver	2		0.2	95	91	1E+09	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	portable water pump	Pumps	2		0.5	77	77	5E+07	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	dozer	Dozer	2		0.4	85	84	3E+08	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	wheeled front end loader	Front End Loader	2		0.4	80	79	8E+07	
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	concrete pump	Concrete Pump Truck	1		0.2	82	75		3E+07
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	concrete mixer	Concrete Mixer Truck	1		0.4	85	81		1E+08
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	100 ton crawler crane	Crane	1		0.16	85	77	5E+07	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	excavator	Excavator	3		0.4	85	86	4E+08	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	jackhammer/pavement breaker	Jackhammer	2		0.2	85	81	1E+08	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	compressor	Compressor (air, less than or equal to 350 cfm)	2		0.4	75	74	3E+07	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	rebar bender	Bar Bender	4		0.2	80	79	8E+07	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	welding equipment	Welder / Torch	4		0.4	73	75	3E+07	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	generator	Generator	2		0.5	82	82	2E+08	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	pile driver	Impact Pile Driver	3		0.2	95	93	2E+09	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	portable water pump	Pumps	2		0.5	77	77	5E+07	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	dozer	Dozer	2		0.4	85	84	3E+08	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	wheeled front end loader	Front End Loader	3		0.4	80	81	1E+08	
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	concrete pump	Concrete Pump Truck	2		0.2	82	78		6E+07
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	concrete mixer	Concrete Mixer Truck	2		0.4	85	84		3E+08
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	100 ton crawler crane	Crane	2		0.16	85	80	1E+08	
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	rebar bender	Bar Bender	2		0.2	80	76	4E+07	
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	welding equipment	Welder / Torch	2		0.4	73	72	2E+07	
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	generator	Generator	1		0.5	82	79	8E+07	
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	concrete pump	Concrete Pump Truck	1		0.2	82	75		3E+07
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	concrete mixer	Concrete Mixer Truck	1		0.4	85	81		1E+08
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	troweling machine	Troweling Machine	6		0.3	76	79	7E+07	
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	concrete vibrator	Vibratory Concrete Consolidator	6		0.3	76	79	7E+07	
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	portable cement mixer	Drum Mixer	2		0.5	80	80	1E+08	
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	100 ton crawler crane	Crane	1		0.16	85	77	5E+07	
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	dual hoist - high rise	Dual Hoist High-Rise	1		0.5	75	72	2E+07	
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	rebar bender	Bar Bender	2		0.2	80	76	4E+07	
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	welding equipment	Welder / Torch	2		0.4	73	72	2E+07	
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	generator	Generator	1		0.5	82	79	8E+07	
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	concrete pump	Concrete Pump Truck	1		0.2	82	75		3E+07
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	concrete mixer	Concrete Mixer Truck	1		0.4	85	81		1E+08
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	troweling machine	Troweling Machine	6		0.3	76	79	7E+07	
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	concrete vibrator	Vibratory Concrete Consolidator	6		0.3	76	79	7E+07	
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	portable cement mixer	Drum Mixer	2		0.5	80	80	1E+08	
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	100 ton crawler crane	Crane	2		0.16	85	80	1E+08	
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	dual hoist - high rise	Dual Hoist High-Rise	1		0.5	75	72	2E+07	
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	rebar bender	Bar Bender	4		0.2	80	79	8E+07	
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	welding equipment	Welder / Torch	4		0.4	73	75	3E+07	
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	generator	Generator	2		0.5	82	82	2E+08	
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	concrete pump	Concrete Pump Truck	2		0.2	82	78		6E+07
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	concrete mixer	Concrete Mixer Truck	2		0.4	85	84		3E+08
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	troweling machine	Troweling Machine	10		0.3	76	81	1E+08	
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	concrete vibrator	Vibratory Concrete Consolidator	10		0.3	76	81	1E+08	
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	portable cement mixer	Drum Mixer	4		0.5	80	83	2E+08	
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	100 ton crawler crane	Crane	2		0.16	85	80	1E+08	
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	dual hoist - high rise	Dual Hoist High-Rise	1		0.5	75	72	2E+07	
Interior Fit-Out (<150,000 sf)	Interior Fit-Out (<150,000 sf)	scissor lift	Scissor Lift	3		0.5	63	65	3E+06	
Interior Fit-Out (<150,000 sf)	Interior Fit-Out (<150,000 sf)	forklift	Man Lift	3		0.2	85	83	2E+08	
Interior Fit-Out (<150,000 sf)	Interior Fit-Out (<150,000 sf)	table saw	Table Saw	4		0.2	76	75	3E+07	
Interior Fit-Out (<150,000 sf)	Interior Fit-Out (<150,000 sf)	circular saw	Circular Saw	4		0.2	76	75	3E+07	
Interior Fit-Out (<150,000 sf)	Interior Fit-Out (<150,000 sf)	100 ton crawler crane	Crane	1		0.16	85	77	5E+07	
Interior Fit-Out (<150,000 sf)	Interior Fit-Out (<150,000 sf)	dual hoist - high rise	Dual Hoist High-Rise	1		0.5	75	72	2E+07	

New York City Department of City Planning

Atlantic Avenue Mixed-Use Project

Construction Noise Analysis Equipment Noise Assumptions

									Area Source	Point Source
Phase	Activity	Equipment Type (from NYC DCP)	RCNM Equiv	Equipment Quantity	Hrs/Day	U.F	Lmax	Leq	Leq Energy	Leq Energy
Interior Fit-Out (150,000 sf - 250,000 sf)	Interior Fit-Out (150,000 sf - 250,000 sf)	scissor lift	Scissor Lift	4		0.5	63	66	4E+06	
Interior Fit-Out (150,000 sf - 250,000 sf)	Interior Fit-Out (150,000 sf - 250,000 sf)	forklift	Man Lift	4		0.2	85	84	3E+08	
Interior Fit-Out (150,000 sf - 250,000 sf)	Interior Fit-Out (150,000 sf - 250,000 sf)	table saw	Table Saw	4		0.2	76	75	3E+07	
Interior Fit-Out (150,000 sf - 250,000 sf)	Interior Fit-Out (150,000 sf - 250,000 sf)	circular saw	Circular Saw	4		0.2	76	75	3E+07	
Interior Fit-Out (150,000 sf - 250,000 sf)	Interior Fit-Out (150,000 sf - 250,000 sf)	100 ton crawler crane	Crane	1		0.16	85	77	5E+07	
Interior Fit-Out (150,000 sf - 250,000 sf)	Interior Fit-Out (150,000 sf - 250,000 sf)	dual hoist - high rise	Dual Hoist High-Rise	1		0.5	75	72	2E+07	
Interior Fit-Out (>250,000 sf)	Interior Fit-Out (>250,000 sf)	scissor lift	Scissor Lift	4		0.5	63	66	4E+06	
Interior Fit-Out (>250,000 sf)	Interior Fit-Out (>250,000 sf)	forklift	Man Lift	5		0.2	85	85	3E+08	
Interior Fit-Out (>250,000 sf)	Interior Fit-Out (>250,000 sf)	table saw	Table Saw	4		0.2	76	75	3E+07	
Interior Fit-Out (>250,000 sf)	Interior Fit-Out (>250,000 sf)	circular saw	Circular Saw	4		0.2	76	75	3E+07	
Interior Fit-Out (>250,000 sf)	Interior Fit-Out (>250,000 sf)	100 ton crawler crane	Crane	2		0.16	85	80	1E+08	
Interior Fit-Out (>250,000 sf)	Interior Fit-Out (>250,000 sf)	dual hoist - high rise	Dual Hoist High-Rise	1		0.5	75	72	2E+07	

New York City Department of City Planning

Atlantic Avenue Mixed-Use Project

Construction Noise Analysis Equipment Noise Assumptions - SoundPLAN Library Inputs

		Area Source		Point Source - Single	
Work Phase/Activity	**Vlookup-HIDE**	**CUMUL**	**MAX**	**Concrete Pump Truck**	**Concrete Mixer Truck**
Demolition/Excavation/Foundation (< 75,000 sf)	Demolition/Excavation/Foundation (< 75,000 sf)	91.1	126.6	75.0	81.0
Demolition/Excavation/Foundation (75,000 - 150,000 sf)	Demolition/Excavation/Foundation (75,000 - 150,000 sf)	91.5	126.6	75.0	81.0
Demolition/Excavation/Foundation (150,000 - 250,000 sf)	Demolition/Excavation/Foundation (150,000 - 250,000 sf)	93.7	126.6	75.0	81.0
Demolition/Excavation/Foundation (>250,000 sf)	Demolition/Excavation/Foundation (>250,000 sf)	95.1	126.6	75.0	81.0
Building Superstructure/Exterior (<150,000 sf)	Building Superstructure/Exterior (<150,000 sf)	86.5	116.6	75.0	81.0
Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	Building Superstructure/Exterior (150,000 sf - 250, 000 sf)	87.0	116.6	75.0	81.0
Building Superstructure/Exterior (>250,000 sf)	Building Superstructure/Exterior (>250,000 sf)	89.2	116.6	75.0	81.0
Interior Fit-Out (<150,000 sf)	Interior Fit-Out (<150,000 sf)	85.1	116.6	75.0	81.0
Interior Fit-Out (150,000 sf - 250,000 sf)	Interior Fit-Out (150,000 sf - 250,000 sf)	85.9	116.6	75.0	81.0
Interior Fit-Out (>250,000 sf)	Interior Fit-Out (>250,000 sf)	87.0	116.6	75.0	81.0

New York City Department of City Planning
Atlantic Avenue Mixed-Use Project
Construction Vibration Analysis Results - Distance to Impact

Distance from Work (feet)	Vibe (PPV in/sec)			Vibe (VdB)			Building Type Structural Impact Conditions				Vibration Annoyance Impact		
	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
1	22.2136	3.0699	2.6215	3587.3	3000.9	2966.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2	10.3630	1.4322	1.2230	1673.5	1400.0	1383.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes
3	6.6342	0.9168	0.7829	1071.4	896.2	885.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes
4	4.8345	0.6681	0.5705	780.7	653.1	645.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes
5	3.7823	0.5227	0.4464	610.8	511.0	505.1	Yes	Yes	Yes	Yes	Yes	Yes	Yes
6	3.0949	0.4277	0.3652	499.8	418.1	413.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
7	2.6122	0.3610	0.3083	421.9	352.9	348.8	Yes	Yes	Yes	Yes	Yes	Yes	Yes
8	2.2554	0.3117	0.2662	364.2	304.7	301.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
9	1.9813	0.2738	0.2338	320.0	267.7	264.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10	1.7645	0.2439	0.2082	284.9	238.4	235.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11	1.5889	0.2196	0.1875	256.6	214.6	212.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
12	1.4438	0.1995	0.1704	233.2	195.1	192.8	Yes	Yes	Yes	Yes	Yes	Yes	Yes
13	1.3222	0.1827	0.1560	213.5	178.6	176.6	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14	1.2187	0.1684	0.1438	196.8	164.6	162.7	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15	1.1296	0.1561	0.1333	182.4	152.6	150.8	Yes	Yes	Yes	Yes	Yes	Yes	Yes
16	1.0522	0.1454	0.1242	169.9	142.1	140.5	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17	0.9843	0.1360	0.1162	159.0	133.0	131.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18	0.9243	0.1277	0.1091	149.3	124.9	123.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19	0.8709	0.1204	0.1028	140.6	117.7	116.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20	0.8232	0.1138	0.0971	132.9	111.2	109.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes
21	0.7802	0.1078	0.0921	126.0	105.4	104.2	Yes	Yes	Yes	Yes	Yes	Yes	Yes
22	0.7412	0.1024	0.0875	119.7	100.1	99.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23	0.7059	0.0975	0.0833	114.0	95.4	94.3	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24	0.6736	0.0931	0.0795	108.8	91.0	89.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes
25	0.644	0.0890	0.076	104.0	87.0	86.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes
26	0.6168	0.0852	0.0728	99.6	83.3	82.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27	0.5917	0.0818	0.0698	95.6	79.9	79.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes
28	0.5685	0.0786	0.0671	91.8	76.8	75.9	Yes	Yes	Yes	Yes	Yes	Yes	Yes
29	0.5470	0.0756	0.0646	88.3	73.9	73.0	Yes	Yes	Yes	Yes	Yes	Yes	Yes
30	0.5270	0.0728	0.0622	85.1	71.2	70.4	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31	0.5083	0.0702	0.0600	82.1	68.7	67.9	Yes	Yes	Yes	Yes	Yes	Yes	No
32	0.4909	0.0678	0.0579	79.3	66.3	65.5	No	Yes	Yes	Yes	Yes	No	No
33	0.4745	0.0656	0.0560	76.6	64.1	63.4	No	Yes	Yes	Yes	Yes	No	No
34	0.4592	0.0635	0.0542	74.2	62.0	61.3	No	Yes	Yes	Yes	Yes	No	No

New York City Department of City Planning
Atlantic Avenue Mixed-Use Project
Construction Vibration Analysis Results - Distance to Impact

Distance from Work (feet)	Vibe (PPV in/sec)			Vibe (VdB)			Building Type Structural Impact Conditions				Vibration Annoyance Impact		
	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
35	0.4448	0.0615	0.0525	71.8	60.1	59.4	No	Yes	Yes	Yes	Yes	No	No
36	0.4312	0.0596	0.0509	69.6	58.3	57.6	No	Yes	Yes	Yes	Yes	No	No
37	0.4184	0.0578	0.0494	67.6	56.5	55.9	No	Yes	Yes	Yes	Yes	No	No
38	0.4063	0.0562	0.0479	65.6	54.9	54.3	No	Yes	Yes	Yes	Yes	No	No
39	0.3949	0.0546	0.0466	63.8	53.3	52.7	No	Yes	Yes	Yes	No	No	No
40	0.3840	0.0531	0.0453	62.0	51.9	51.3	No	Yes	Yes	Yes	No	No	No
41	0.3737	0.0516	0.0441	60.4	50.5	49.9	No	Yes	Yes	Yes	No	No	No
42	0.3640	0.0503	0.0430	58.8	49.2	48.6	No	Yes	Yes	Yes	No	No	No
43	0.3547	0.0490	0.0419	57.3	47.9	47.4	No	Yes	Yes	Yes	No	No	No
44	0.3458	0.0478	0.0408	55.8	46.7	46.2	No	Yes	Yes	Yes	No	No	No
45	0.3374	0.0466	0.0398	54.5	45.6	45.1	No	Yes	Yes	Yes	No	No	No
46	0.3293	0.0455	0.0389	53.2	44.5	44.0	No	Yes	Yes	Yes	No	No	No
47	0.3216	0.0444	0.0380	51.9	43.4	42.9	No	Yes	Yes	Yes	No	No	No
48	0.3142	0.0434	0.0371	50.7	42.5	42.0	No	Yes	Yes	Yes	No	No	No
49	0.3072	0.0425	0.0363	49.6	41.5	41.0	No	Yes	Yes	Yes	No	No	No
50	0.3004	0.0415	0.0355	48.5	40.6	40.1	No	Yes	Yes	Yes	No	No	No
51	0.2940	0.0406	0.0347	47.5	39.7	39.3	No	No	Yes	Yes	No	No	No
52	0.2878	0.0398	0.0340	46.5	38.9	38.4	No	No	Yes	Yes	No	No	No
53	0.2818	0.0389	0.0333	45.5	38.1	37.6	No	No	Yes	Yes	No	No	No
54	0.2760	0.0381	0.0326	44.6	37.3	36.9	No	No	Yes	Yes	No	No	No
55	0.2705	0.0374	0.0319	43.7	36.5	36.1	No	No	Yes	Yes	No	No	No
56	0.2652	0.0367	0.0313	42.8	35.8	35.4	No	No	Yes	Yes	No	No	No
57	0.2601	0.0359	0.0307	42.0	35.1	34.7	No	No	Yes	Yes	No	No	No
58	0.2552	0.0353	0.0301	41.2	34.5	34.1	No	No	Yes	Yes	No	No	No
59	0.2504	0.0346	0.0296	40.4	33.8	33.4	No	No	Yes	Yes	No	No	No
60	0.2458	0.0340	0.0290	39.7	33.2	32.8	No	No	Yes	Yes	No	No	No
61	0.2414	0.0334	0.0285	39.0	32.6	32.2	No	No	Yes	Yes	No	No	No
62	0.2371	0.0328	0.0280	38.3	32.0	31.7	No	No	Yes	Yes	No	No	No
63	0.2330	0.0322	0.0275	37.6	31.5	31.1	No	No	Yes	Yes	No	No	No
64	0.2290	0.0316	0.0270	37.0	30.9	30.6	No	No	Yes	Yes	No	No	No
65	0.2251	0.0311	0.0266	36.4	30.4	30.1	No	No	Yes	Yes	No	No	No
66	0.2214	0.0306	0.0261	35.7	29.9	29.6	No	No	Yes	Yes	No	No	No
67	0.2177	0.0301	0.0257	35.2	29.4	29.1	No	No	Yes	Yes	No	No	No
68	0.2142	0.0296	0.0253	34.6	28.9	28.6	No	No	Yes	Yes	No	No	No

New York City Department of City Planning
Atlantic Avenue Mixed-Use Project
Construction Vibration Analysis Results - Distance to Impact

Distance from Work (feet)	Vibe (PPV in/sec)			Vibe (VdB)			Building Type Structural Impact Conditions				Vibration Annoyance Impact		
	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
69	0.2108	0.0291	0.0249	34.0	28.5	28.2	No	No	Yes	Yes	No	No	No
70	0.2075	0.0287	0.0245	33.5	28.0	27.7	No	No	Yes	Yes	No	No	No
71	0.2043	0.0282	0.0241	33.0	27.6	27.3	No	No	Yes	Yes	No	No	No
72	0.2012	0.0278	0.0237	32.5	27.2	26.9	No	No	Yes	Yes	No	No	No
73	0.1981	0.0274	0.0234	32.0	26.8	26.5	No	No	No	Yes	No	No	No
74	0.1952	0.0270	0.0230	31.5	26.4	26.1	No	No	No	Yes	No	No	No
75	0.1923	0.0266	0.0227	31.1	26.0	25.7	No	No	No	Yes	No	No	No
76	0.1896	0.0262	0.0224	30.6	25.6	25.3	No	No	No	Yes	No	No	No
77	0.1868	0.0258	0.0220	30.2	25.2	25.0	No	No	No	Yes	No	No	No
78	0.1842	0.0255	0.0217	29.7	24.9	24.6	No	No	No	Yes	No	No	No
79	0.1816	0.0251	0.0214	29.3	24.5	24.3	No	No	No	Yes	No	No	No
80	0.1792	0.0248	0.0211	28.9	24.2	23.9	No	No	No	Yes	No	No	No
81	0.1767	0.0244	0.0209	28.5	23.9	23.6	No	No	No	Yes	No	No	No
82	0.1744	0.0241	0.0206	28.2	23.6	23.3	No	No	No	Yes	No	No	No
83	0.1720	0.0238	0.0203	27.8	23.2	23.0	No	No	No	Yes	No	No	No
84	0.1698	0.0235	0.0200	27.4	22.9	22.7	No	No	No	Yes	No	No	No
85	0.1676	0.0232	0.0198	27.1	22.6	22.4	No	No	No	Yes	No	No	No
86	0.1655	0.0229	0.0195	26.7	22.4	22.1	No	No	No	Yes	No	No	No
87	0.1634	0.0226	0.0193	26.4	22.1	21.8	No	No	No	Yes	No	No	No
88	0.1613	0.0223	0.0190	26.1	21.8	21.5	No	No	No	Yes	No	No	No
89	0.1593	0.0220	0.0188	25.7	21.5	21.3	No	No	No	Yes	No	No	No
90	0.1574	0.0217	0.0186	25.4	21.3	21.0	No	No	No	Yes	No	No	No
91	0.1555	0.0215	0.0183	25.1	21.0	20.8	No	No	No	Yes	No	No	No
92	0.1536	0.0212	0.0181	24.8	20.8	20.5	No	No	No	Yes	No	No	No
93	0.1518	0.0210	0.0179	24.5	20.5	20.3	No	No	No	Yes	No	No	No
94	0.1500	0.0207	0.0177	24.2	20.3	20.0	No	No	No	Yes	No	No	No
95	0.1483	0.0205	0.0175	23.9	20.0	19.8	No	No	No	Yes	No	No	No
96	0.1466	0.0203	0.0173	23.7	19.8	19.6	No	No	No	Yes	No	No	No
97	0.1449	0.0200	0.0171	23.4	19.6	19.4	No	No	No	Yes	No	No	No
98	0.1433	0.0198	0.0169	23.1	19.4	19.1	No	No	No	Yes	No	No	No
99	0.1417	0.0196	0.0167	22.9	19.1	18.9	No	No	No	Yes	No	No	No
100	0.1402	0.0194	0.0165	22.6	18.9	18.7	No	No	No	Yes	No	No	No
101	0.1386	0.0192	0.0164	22.4	18.7	18.5	No	No	No	Yes	No	No	No
102	0.1371	0.0190	0.0162	22.1	18.5	18.3	No	No	No	Yes	No	No	No

New York City Department of City Planning
Atlantic Avenue Mixed-Use Project
Construction Vibration Analysis Results - Distance to Impact

Distance from Work (feet)	Vibe (PPV in/sec)			Vibe (VdB)			Building Type Structural Impact Conditions				Vibration Annoyance Impact		
	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
103	0.1357	0.0188	0.0160	21.9	18.3	18.1	No	No	No	Yes	No	No	No
104	0.1342	0.0186	0.0158	21.7	18.1	17.9	No	No	No	Yes	No	No	No
105	0.1328	0.0184	0.0157	21.5	17.9	17.7	No	No	No	Yes	No	No	No
106	0.1315	0.0182	0.0155	21.2	17.8	17.6	No	No	No	Yes	No	No	No
107	0.1301	0.0180	0.0154	21.0	17.6	17.4	No	No	No	Yes	No	No	No
108	0.1288	0.0178	0.0152	20.8	17.4	17.2	No	No	No	Yes	No	No	No
109	0.1275	0.0176	0.0150	20.6	17.2	17.0	No	No	No	Yes	No	No	No
110	0.1262	0.0174	0.0149	20.4	17.0	16.9	No	No	No	Yes	No	No	No
111	0.1250	0.0173	0.0147	20.2	16.9	16.7	No	No	No	Yes	No	No	No
112	0.1237	0.0171	0.0146	20.0	16.7	16.5	No	No	No	Yes	No	No	No
113	0.1225	0.0169	0.0145	19.8	16.6	16.4	No	No	No	Yes	No	No	No
114	0.1213	0.0168	0.0143	19.6	16.4	16.2	No	No	No	Yes	No	No	No
115	0.1202	0.0166	0.0142	19.4	16.2	16.0	No	No	No	Yes	No	No	No
116	0.1190	0.0165	0.0140	19.2	16.1	15.9	No	No	No	No	No	No	No
117	0.1179	0.0163	0.0139	19.0	15.9	15.7	No	No	No	No	No	No	No
118	0.1168	0.0161	0.0138	18.9	15.8	15.6	No	No	No	No	No	No	No
119	0.1157	0.0160	0.0137	18.7	15.6	15.5	No	No	No	No	No	No	No
120	0.1147	0.0158	0.0135	18.5	15.5	15.3	No	No	No	No	No	No	No
121	0.1136	0.0157	0.0134	18.4	15.4	15.2	No	No	No	No	No	No	No
122	0.1126	0.0156	0.0133	18.2	15.2	15.0	No	No	No	No	No	No	No
123	0.1116	0.0154	0.0132	18.0	15.1	14.9	No	No	No	No	No	No	No
124	0.1106	0.0153	0.0131	17.9	14.9	14.8	No	No	No	No	No	No	No
125	0.1097	0.0152	0.0129	17.7	14.8	14.6	No	No	No	No	No	No	No
126	0.1087	0.0150	0.0128	17.6	14.7	14.5	No	No	No	No	No	No	No
127	0.1078	0.0149	0.0127	17.4	14.6	14.4	No	No	No	No	No	No	No
128	0.1068	0.0148	0.0126	17.3	14.4	14.3	No	No	No	No	No	No	No
129	0.1059	0.0146	0.0125	17.1	14.3	14.1	No	No	No	No	No	No	No
130	0.1050	0.0145	0.0124	17.0	14.2	14.0	No	No	No	No	No	No	No
131	0.1041	0.0144	0.0123	16.8	14.1	13.9	No	No	No	No	No	No	No
132	0.1033	0.0143	0.0122	16.7	14.0	13.8	No	No	No	No	No	No	No
133	0.1024	0.0142	0.0121	16.5	13.8	13.7	No	No	No	No	No	No	No
134	0.1016	0.0140	0.0120	16.4	13.7	13.6	No	No	No	No	No	No	No
135	0.1008	0.0139	0.0119	16.3	13.6	13.5	No	No	No	No	No	No	No
136	0.0999	0.0138	0.0118	16.1	13.5	13.3	No	No	No	No	No	No	No

New York City Department of City Planning
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	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
137	0.0991	0.0137	0.0117	16.0	13.4	13.2	No	No	No	No	No	No	No
138	0.0983	0.0136	0.0116	15.9	13.3	13.1	No	No	No	No	No	No	No
139	0.0976	0.0135	0.0115	15.8	13.2	13.0	No	No	No	No	No	No	No
140	0.0968	0.0134	0.0114	15.6	13.1	12.9	No	No	No	No	No	No	No
141	0.0960	0.0133	0.0113	15.5	13.0	12.8	No	No	No	No	No	No	No
142	0.0953	0.0132	0.0112	15.4	12.9	12.7	No	No	No	No	No	No	No
143	0.0946	0.0131	0.0112	15.3	12.8	12.6	No	No	No	No	No	No	No
144	0.0938	0.0130	0.0111	15.2	12.7	12.5	No	No	No	No	No	No	No
145	0.0931	0.0129	0.0110	15.0	12.6	12.4	No	No	No	No	No	No	No
146	0.0924	0.0128	0.0109	14.9	12.5	12.3	No	No	No	No	No	No	No
147	0.0917	0.0127	0.0108	14.8	12.4	12.3	No	No	No	No	No	No	No
148	0.0911	0.0126	0.0107	14.7	12.3	12.2	No	No	No	No	No	No	No
149	0.0904	0.0125	0.0107	14.6	12.2	12.1	No	No	No	No	No	No	No
150	0.0897	0.0124	0.0106	14.5	12.1	12.0	No	No	No	No	No	No	No
151	0.0891	0.0123	0.0105	14.4	12.0	11.9	No	No	No	No	No	No	No
152	0.0884	0.0122	0.0104	14.3	11.9	11.8	No	No	No	No	No	No	No
153	0.0878	0.0121	0.0104	14.2	11.9	11.7	No	No	No	No	No	No	No
154	0.0872	0.0120	0.0103	14.1	11.8	11.6	No	No	No	No	No	No	No
155	0.0865	0.0120	0.0102	14.0	11.7	11.6	No	No	No	No	No	No	No
156	0.0859	0.0119	0.0101	13.9	11.6	11.5	No	No	No	No	No	No	No
157	0.0853	0.0118	0.0101	13.8	11.5	11.4	No	No	No	No	No	No	No
158	0.0847	0.0117	0.0100	13.7	11.4	11.3	No	No	No	No	No	No	No
159	0.0842	0.0116	0.0099	13.6	11.4	11.2	No	No	No	No	No	No	No
160	0.0836	0.0116	0.0099	13.5	11.3	11.2	No	No	No	No	No	No	No
161	0.0830	0.0115	0.0098	13.4	11.2	11.1	No	No	No	No	No	No	No
162	0.0824	0.0114	0.0097	13.3	11.1	11.0	No	No	No	No	No	No	No
163	0.0819	0.0113	0.0097	13.2	11.1	10.9	No	No	No	No	No	No	No
164	0.0813	0.0112	0.0096	13.1	11.0	10.9	No	No	No	No	No	No	No
165	0.0808	0.0112	0.0095	13.0	10.9	10.8	No	No	No	No	No	No	No
166	0.0803	0.0111	0.0095	13.0	10.8	10.7	No	No	No	No	No	No	No
167	0.0797	0.0110	0.0094	12.9	10.8	10.6	No	No	No	No	No	No	No
168	0.0792	0.0109	0.0093	12.8	10.7	10.6	No	No	No	No	No	No	No
169	0.0787	0.0109	0.0093	12.7	10.6	10.5	No	No	No	No	No	No	No
170	0.0782	0.0108	0.0092	12.6	10.6	10.4	No	No	No	No	No	No	No

New York City Department of City Planning
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	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
171	0.0777	0.0107	0.0092	12.5	10.5	10.4	No	No	No	No	No	No	No
172	0.0772	0.0107	0.0091	12.5	10.4	10.3	No	No	No	No	No	No	No
173	0.0767	0.0106	0.0091	12.4	10.4	10.2	No	No	No	No	No	No	No
174	0.0762	0.0105	0.0090	12.3	10.3	10.2	No	No	No	No	No	No	No
175	0.0757	0.0105	0.0089	12.2	10.2	10.1	No	No	No	No	No	No	No
176	0.0753	0.0104	0.0089	12.2	10.2	10.1	No	No	No	No	No	No	No
177	0.0748	0.0103	0.0088	12.1	10.1	10.0	No	No	No	No	No	No	No
178	0.0743	0.0103	0.0088	12.0	10.0	9.9	No	No	No	No	No	No	No
179	0.0739	0.0102	0.0087	11.9	10.0	9.9	No	No	No	No	No	No	No
180	0.0734	0.0101	0.0087	11.9	9.9	9.8	No	No	No	No	No	No	No
181	0.0730	0.0101	0.0086	11.8	9.9	9.7	No	No	No	No	No	No	No
182	0.0725	0.0100	0.0086	11.7	9.8	9.7	No	No	No	No	No	No	No
183	0.0721	0.0100	0.0085	11.6	9.7	9.6	No	No	No	No	No	No	No
184	0.0717	0.0099	0.0085	11.6	9.7	9.6	No	No	No	No	No	No	No
185	0.0712	0.0098	0.0084	11.5	9.6	9.5	No	No	No	No	No	No	No
186	0.0708	0.0098	0.0084	11.4	9.6	9.5	No	No	No	No	No	No	No
187	0.0704	0.0097	0.0083	11.4	9.5	9.4	No	No	No	No	No	No	No
188	0.0700	0.0097	0.0083	11.3	9.5	9.3	No	No	No	No	No	No	No
189	0.0696	0.0096	0.0082	11.2	9.4	9.3	No	No	No	No	No	No	No
190	0.0692	0.0096	0.0082	11.2	9.3	9.2	No	No	No	No	No	No	No
191	0.0688	0.0095	0.0081	11.1	9.3	9.2	No	No	No	No	No	No	No
192	0.0684	0.0095	0.0081	11.0	9.2	9.1	No	No	No	No	No	No	No
193	0.0680	0.0094	0.0080	11.0	9.2	9.1	No	No	No	No	No	No	No
194	0.0676	0.0093	0.0080	10.9	9.1	9.0	No	No	No	No	No	No	No
195	0.0672	0.0093	0.0079	10.9	9.1	9.0	No	No	No	No	No	No	No
196	0.0669	0.0092	0.0079	10.8	9.0	8.9	No	No	No	No	No	No	No
197	0.0665	0.0092	0.0078	10.7	9.0	8.9	No	No	No	No	No	No	No
198	0.0661	0.0091	0.0078	10.7	8.9	8.8	No	No	No	No	No	No	No
199	0.0657	0.0091	0.0078	10.6	8.9	8.8	No	No	No	No	No	No	No
200	0.0654	0.0090	0.0077	10.6	8.8	8.7	No	No	No	No	No	No	No
201	0.0650	0.0090	0.0077	10.5	8.8	8.7	No	No	No	No	No	No	No
202	0.0647	0.0089	0.0076	10.4	8.7	8.6	No	No	No	No	No	No	No
203	0.0643	0.0089	0.0076	10.4	8.7	8.6	No	No	No	No	No	No	No
204	0.0640	0.0088	0.0076	10.3	8.6	8.5	No	No	No	No	No	No	No

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	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
205	0.0636	0.0088	0.0075	10.3	8.6	8.5	No	No	No	No	No	No	No
206	0.0633	0.0087	0.0075	10.2	8.6	8.5	No	No	No	No	No	No	No
207	0.0630	0.0087	0.0074	10.2	8.5	8.4	No	No	No	No	No	No	No
208	0.0626	0.0087	0.0074	10.1	8.5	8.4	No	No	No	No	No	No	No
209	0.0623	0.0086	0.0074	10.1	8.4	8.3	No	No	No	No	No	No	No
210	0.0620	0.0086	0.0073	10.0	8.4	8.3	No	No	No	No	No	No	No
211	0.0616	0.0085	0.0073	10.0	8.3	8.2	No	No	No	No	No	No	No
212	0.0613	0.0085	0.0072	9.9	8.3	8.2	No	No	No	No	No	No	No
213	0.0610	0.0084	0.0072	9.9	8.2	8.1	No	No	No	No	No	No	No
214	0.0607	0.0084	0.0072	9.8	8.2	8.1	No	No	No	No	No	No	No
215	0.0604	0.0083	0.0071	9.8	8.2	8.1	No	No	No	No	No	No	No
216	0.0601	0.0083	0.0071	9.7	8.1	8.0	No	No	No	No	No	No	No
217	0.0598	0.0083	0.0071	9.7	8.1	8.0	No	No	No	No	No	No	No
218	0.0595	0.0082	0.0070	9.6	8.0	7.9	No	No	No	No	No	No	No
219	0.0592	0.0082	0.0070	9.6	8.0	7.9	No	No	No	No	No	No	No
220	0.0589	0.0081	0.0069	9.5	8.0	7.9	No	No	No	No	No	No	No
221	0.0586	0.0081	0.0069	9.5	7.9	7.8	No	No	No	No	No	No	No
222	0.0583	0.0081	0.0069	9.4	7.9	7.8	No	No	No	No	No	No	No
223	0.0580	0.0080	0.0068	9.4	7.8	7.7	No	No	No	No	No	No	No
224	0.0577	0.0080	0.0068	9.3	7.8	7.7	No	No	No	No	No	No	No
225	0.0574	0.0079	0.0068	9.3	7.8	7.7	No	No	No	No	No	No	No
226	0.0572	0.0079	0.0067	9.2	7.7	7.6	No	No	No	No	No	No	No
227	0.0569	0.0079	0.0067	9.2	7.7	7.6	No	No	No	No	No	No	No
228	0.0566	0.0078	0.0067	9.1	7.6	7.6	No	No	No	No	No	No	No
229	0.0563	0.0078	0.0066	9.1	7.6	7.5	No	No	No	No	No	No	No
230	0.0561	0.0077	0.0066	9.1	7.6	7.5	No	No	No	No	No	No	No
231	0.0558	0.0077	0.0066	9.0	7.5	7.5	No	No	No	No	No	No	No
232	0.0555	0.0077	0.0066	9.0	7.5	7.4	No	No	No	No	No	No	No
233	0.0553	0.0076	0.0065	8.9	7.5	7.4	No	No	No	No	No	No	No
234	0.0550	0.0076	0.0065	8.9	7.4	7.3	No	No	No	No	No	No	No
235	0.0548	0.0076	0.0065	8.8	7.4	7.3	No	No	No	No	No	No	No
236	0.0545	0.0075	0.0064	8.8	7.4	7.3	No	No	No	No	No	No	No
237	0.0542	0.0075	0.0064	8.8	7.3	7.2	No	No	No	No	No	No	No
238	0.0540	0.0075	0.0064	8.7	7.3	7.2	No	No	No	No	No	No	No

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	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
239	0.0538	0.0074	0.0063	8.7	7.3	7.2	No	No	No	No	No	No	No
240	0.0535	0.0074	0.0063	8.6	7.2	7.1	No	No	No	No	No	No	No
241	0.0533	0.0074	0.0063	8.6	7.2	7.1	No	No	No	No	No	No	No
242	0.0530	0.0073	0.0063	8.6	7.2	7.1	No	No	No	No	No	No	No
243	0.0528	0.0073	0.0062	8.5	7.1	7.0	No	No	No	No	No	No	No
244	0.0525	0.0073	0.0062	8.5	7.1	7.0	No	No	No	No	No	No	No
245	0.0523	0.0072	0.0062	8.4	7.1	7.0	No	No	No	No	No	No	No
246	0.0521	0.0072	0.0061	8.4	7.0	7.0	No	No	No	No	No	No	No
247	0.0518	0.0072	0.0061	8.4	7.0	6.9	No	No	No	No	No	No	No
248	0.0516	0.0071	0.0061	8.3	7.0	6.9	No	No	No	No	No	No	No
249	0.0514	0.0071	0.0061	8.3	6.9	6.9	No	No	No	No	No	No	No
250	0.0512	0.0071	0.0060	8.3	6.9	6.8	No	No	No	No	No	No	No
251	0.0509	0.0070	0.0060	8.2	6.9	6.8	No	No	No	No	No	No	No
252	0.0507	0.0070	0.0060	8.2	6.9	6.8	No	No	No	No	No	No	No
253	0.0505	0.0070	0.0060	8.2	6.8	6.7	No	No	No	No	No	No	No
254	0.0503	0.0069	0.0059	8.1	6.8	6.7	No	No	No	No	No	No	No
255	0.0501	0.0069	0.0059	8.1	6.8	6.7	No	No	No	No	No	No	No
256	0.0498	0.0069	0.0059	8.0	6.7	6.7	No	No	No	No	No	No	No
257	0.0496	0.0069	0.0059	8.0	6.7	6.6	No	No	No	No	No	No	No
258	0.0494	0.0068	0.0058	8.0	6.7	6.6	No	No	No	No	No	No	No
259	0.0492	0.0068	0.0058	7.9	6.6	6.6	No	No	No	No	No	No	No
260	0.0490	0.0068	0.0058	7.9	6.6	6.5	No	No	No	No	No	No	No
261	0.0488	0.0067	0.0058	7.9	6.6	6.5	No	No	No	No	No	No	No
262	0.0486	0.0067	0.0057	7.8	6.6	6.5	No	No	No	No	No	No	No
263	0.0484	0.0067	0.0057	7.8	6.5	6.5	No	No	No	No	No	No	No
264	0.0482	0.0067	0.0057	7.8	6.5	6.4	No	No	No	No	No	No	No
265	0.0480	0.0066	0.0057	7.7	6.5	6.4	No	No	No	No	No	No	No
266	0.0478	0.0066	0.0056	7.7	6.5	6.4	No	No	No	No	No	No	No
267	0.0476	0.0066	0.0056	7.7	6.4	6.4	No	No	No	No	No	No	No
268	0.0474	0.0065	0.0056	7.7	6.4	6.3	No	No	No	No	No	No	No
269	0.0472	0.0065	0.0056	7.6	6.4	6.3	No	No	No	No	No	No	No
270	0.0470	0.0065	0.0055	7.6	6.3	6.3	No	No	No	No	No	No	No
271	0.0468	0.0065	0.0055	7.6	6.3	6.3	No	No	No	No	No	No	No
272	0.0466	0.0064	0.0055	7.5	6.3	6.2	No	No	No	No	No	No	No

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	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
273	0.0464	0.0064	0.0055	7.5	6.3	6.2	No	No	No	No	No	No	No
274	0.0462	0.0064	0.0055	7.5	6.2	6.2	No	No	No	No	No	No	No
275	0.0461	0.0064	0.0054	7.4	6.2	6.2	No	No	No	No	No	No	No
276	0.0459	0.0063	0.0054	7.4	6.2	6.1	No	No	No	No	No	No	No
277	0.0457	0.0063	0.0054	7.4	6.2	6.1	No	No	No	No	No	No	No
278	0.0455	0.0063	0.0054	7.4	6.1	6.1	No	No	No	No	No	No	No
279	0.0453	0.0063	0.0054	7.3	6.1	6.1	No	No	No	No	No	No	No
280	0.0452	0.0062	0.0053	7.3	6.1	6.0	No	No	No	No	No	No	No
281	0.0450	0.0062	0.0053	7.3	6.1	6.0	No	No	No	No	No	No	No
282	0.0448	0.0062	0.0053	7.2	6.1	6.0	No	No	No	No	No	No	No
283	0.0446	0.0062	0.0053	7.2	6.0	6.0	No	No	No	No	No	No	No
284	0.0445	0.0061	0.0052	7.2	6.0	5.9	No	No	No	No	No	No	No
285	0.0443	0.0061	0.0052	7.2	6.0	5.9	No	No	No	No	No	No	No
286	0.0441	0.0061	0.0052	7.1	6.0	5.9	No	No	No	No	No	No	No
287	0.0439	0.0061	0.0052	7.1	5.9	5.9	No	No	No	No	No	No	No
288	0.0438	0.0061	0.0052	7.1	5.9	5.8	No	No	No	No	No	No	No
289	0.0436	0.0060	0.0051	7.0	5.9	5.8	No	No	No	No	No	No	No
290	0.0434	0.0060	0.0051	7.0	5.9	5.8	No	No	No	No	No	No	No
291	0.0433	0.0060	0.0051	7.0	5.8	5.8	No	No	No	No	No	No	No
292	0.0431	0.0060	0.0051	7.0	5.8	5.8	No	No	No	No	No	No	No
293	0.0430	0.0059	0.0051	6.9	5.8	5.7	No	No	No	No	No	No	No
294	0.0428	0.0059	0.0051	6.9	5.8	5.7	No	No	No	No	No	No	No
295	0.0426	0.0059	0.0050	6.9	5.8	5.7	No	No	No	No	No	No	No
296	0.0425	0.0059	0.0050	6.9	5.7	5.7	No	No	No	No	No	No	No
297	0.0423	0.0058	0.0050	6.8	5.7	5.7	No	No	No	No	No	No	No
298	0.0422	0.0058	0.0050	6.8	5.7	5.6	No	No	No	No	No	No	No
299	0.0420	0.0058	0.0050	6.8	5.7	5.6	No	No	No	No	No	No	No
300	0.0419	0.0058	0.0049	6.8	5.7	5.6	No	No	No	No	No	No	No
301	0.0417	0.0058	0.0049	6.7	5.6	5.6	No	No	No	No	No	No	No
302	0.0416	0.0057	0.0049	6.7	5.6	5.5	No	No	No	No	No	No	No
303	0.0414	0.0057	0.0049	6.7	5.6	5.5	No	No	No	No	No	No	No
304	0.0413	0.0057	0.0049	6.7	5.6	5.5	No	No	No	No	No	No	No
305	0.0411	0.0057	0.0049	6.6	5.6	5.5	No	No	No	No	No	No	No
306	0.0410	0.0057	0.0048	6.6	5.5	5.5	No	No	No	No	No	No	No

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	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
307	0.0408	0.0056	0.0048	6.6	5.5	5.4	No	No	No	No	No	No	No
308	0.0407	0.0056	0.0048	6.6	5.5	5.4	No	No	No	No	No	No	No
309	0.0405	0.0056	0.0048	6.5	5.5	5.4	No	No	No	No	No	No	No
310	0.0404	0.0056	0.0048	6.5	5.5	5.4	No	No	No	No	No	No	No
311	0.0402	0.0056	0.0047	6.5	5.4	5.4	No	No	No	No	No	No	No
312	0.0401	0.0055	0.0047	6.5	5.4	5.4	No	No	No	No	No	No	No
313	0.0400	0.0055	0.0047	6.5	5.4	5.3	No	No	No	No	No	No	No
314	0.0398	0.0055	0.0047	6.4	5.4	5.3	No	No	No	No	No	No	No
315	0.0397	0.0055	0.0047	6.4	5.4	5.3	No	No	No	No	No	No	No
316	0.0395	0.0055	0.0047	6.4	5.3	5.3	No	No	No	No	No	No	No
317	0.0394	0.0054	0.0046	6.4	5.3	5.3	No	No	No	No	No	No	No
318	0.0393	0.0054	0.0046	6.3	5.3	5.2	No	No	No	No	No	No	No
319	0.0391	0.0054	0.0046	6.3	5.3	5.2	No	No	No	No	No	No	No
320	0.0390	0.0054	0.0046	6.3	5.3	5.2	No	No	No	No	No	No	No
321	0.0389	0.0054	0.0046	6.3	5.2	5.2	No	No	No	No	No	No	No
322	0.0387	0.0054	0.0046	6.3	5.2	5.2	No	No	No	No	No	No	No
323	0.0386	0.0053	0.0046	6.2	5.2	5.2	No	No	No	No	No	No	No
324	0.0385	0.0053	0.0045	6.2	5.2	5.1	No	No	No	No	No	No	No
325	0.0383	0.0053	0.0045	6.2	5.2	5.1	No	No	No	No	No	No	No
326	0.0382	0.0053	0.0045	6.2	5.2	5.1	No	No	No	No	No	No	No
327	0.0381	0.0053	0.0045	6.1	5.1	5.1	No	No	No	No	No	No	No
328	0.0379	0.0052	0.0045	6.1	5.1	5.1	No	No	No	No	No	No	No
329	0.0378	0.0052	0.0045	6.1	5.1	5.1	No	No	No	No	No	No	No
330	0.0377	0.0052	0.0044	6.1	5.1	5.0	No	No	No	No	No	No	No
331	0.0376	0.0052	0.0044	6.1	5.1	5.0	No	No	No	No	No	No	No
332	0.0374	0.0052	0.0044	6.0	5.1	5.0	No	No	No	No	No	No	No
333	0.0373	0.0052	0.0044	6.0	5.0	5.0	No	No	No	No	No	No	No
334	0.0372	0.0051	0.0044	6.0	5.0	5.0	No	No	No	No	No	No	No
335	0.0371	0.0051	0.0044	6.0	5.0	5.0	No	No	No	No	No	No	No
336	0.0370	0.0051	0.0044	6.0	5.0	4.9	No	No	No	No	No	No	No
337	0.0368	0.0051	0.0043	5.9	5.0	4.9	No	No	No	No	No	No	No
338	0.0367	0.0051	0.0043	5.9	5.0	4.9	No	No	No	No	No	No	No
339	0.0366	0.0051	0.0043	5.9	4.9	4.9	No	No	No	No	No	No	No
340	0.0365	0.0050	0.0043	5.9	4.9	4.9	No	No	No	No	No	No	No

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Construction Vibration Analysis Results - Distance to Impact

Distance from Work (feet)	Vibe (PPV in/sec)			Vibe (VdB)			Building Type Structural Impact Conditions				Vibration Annoyance Impact		
	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
341	0.0364	0.0050	0.0043	5.9	4.9	4.9	No	No	No	No	No	No	No
342	0.0362	0.0050	0.0043	5.9	4.9	4.8	No	No	No	No	No	No	No
343	0.0361	0.0050	0.0043	5.8	4.9	4.8	No	No	No	No	No	No	No
344	0.0360	0.0050	0.0042	5.8	4.9	4.8	No	No	No	No	No	No	No
345	0.0359	0.0050	0.0042	5.8	4.8	4.8	No	No	No	No	No	No	No
346	0.0358	0.0049	0.0042	5.8	4.8	4.8	No	No	No	No	No	No	No
347	0.0357	0.0049	0.0042	5.8	4.8	4.8	No	No	No	No	No	No	No
348	0.0356	0.0049	0.0042	5.7	4.8	4.7	No	No	No	No	No	No	No
349	0.0354	0.0049	0.0042	5.7	4.8	4.7	No	No	No	No	No	No	No
350	0.0353	0.0049	0.0042	5.7	4.8	4.7	No	No	No	No	No	No	No
351	0.0352	0.0049	0.0042	5.7	4.8	4.7	No	No	No	No	No	No	No
352	0.0351	0.0049	0.0041	5.7	4.7	4.7	No	No	No	No	No	No	No
353	0.0350	0.0048	0.0041	5.7	4.7	4.7	No	No	No	No	No	No	No
354	0.0349	0.0048	0.0041	5.6	4.7	4.7	No	No	No	No	No	No	No
355	0.0348	0.0048	0.0041	5.6	4.7	4.6	No	No	No	No	No	No	No
356	0.0347	0.0048	0.0041	5.6	4.7	4.6	No	No	No	No	No	No	No
357	0.0346	0.0048	0.0041	5.6	4.7	4.6	No	No	No	No	No	No	No
358	0.0345	0.0048	0.0041	5.6	4.7	4.6	No	No	No	No	No	No	No
359	0.0344	0.0047	0.0041	5.5	4.6	4.6	No	No	No	No	No	No	No
360	0.0343	0.0047	0.0040	5.5	4.6	4.6	No	No	No	No	No	No	No
361	0.0341	0.0047	0.0040	5.5	4.6	4.6	No	No	No	No	No	No	No
362	0.0340	0.0047	0.0040	5.5	4.6	4.5	No	No	No	No	No	No	No
363	0.0339	0.0047	0.0040	5.5	4.6	4.5	No	No	No	No	No	No	No
364	0.0338	0.0047	0.0040	5.5	4.6	4.5	No	No	No	No	No	No	No
365	0.0337	0.0047	0.0040	5.4	4.6	4.5	No	No	No	No	No	No	No
366	0.0336	0.0046	0.0040	5.4	4.5	4.5	No	No	No	No	No	No	No
367	0.0335	0.0046	0.0040	5.4	4.5	4.5	No	No	No	No	No	No	No
368	0.0334	0.0046	0.0039	5.4	4.5	4.5	No	No	No	No	No	No	No
369	0.0333	0.0046	0.0039	5.4	4.5	4.5	No	No	No	No	No	No	No
370	0.0332	0.0046	0.0039	5.4	4.5	4.4	No	No	No	No	No	No	No
371	0.0331	0.0046	0.0039	5.4	4.5	4.4	No	No	No	No	No	No	No
372	0.0330	0.0046	0.0039	5.3	4.5	4.4	No	No	No	No	No	No	No
373	0.0329	0.0046	0.0039	5.3	4.5	4.4	No	No	No	No	No	No	No
374	0.0328	0.0045	0.0039	5.3	4.4	4.4	No	No	No	No	No	No	No

New York City Department of City Planning
Atlantic Avenue Mixed-Use Project
Construction Vibration Analysis Results - Distance to Impact

Distance from Work (feet)	Vibe (PPV in/sec)			Vibe (VdB)			Building Type Structural Impact Conditions				Vibration Annoyance Impact		
	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Pile Driver (Impact)	Large Bulldozer	Loaded Trucks	Type I	Type II	Type III	Type IV	Cat 1	Cat 2	Cat 3
375	0.0327	0.0045	0.0039	5.3	4.4	4.4	No	No	No	No	No	No	No
376	0.0327	0.0045	0.0039	5.3	4.4	4.4	No	No	No	No	No	No	No
377	0.0326	0.0045	0.0038	5.3	4.4	4.3	No	No	No	No	No	No	No
378	0.0325	0.0045	0.0038	5.2	4.4	4.3	No	No	No	No	No	No	No
379	0.0324	0.0045	0.0038	5.2	4.4	4.3	No	No	No	No	No	No	No
380	0.0323	0.0045	0.0038	5.2	4.4	4.3	No	No	No	No	No	No	No
381	0.0322	0.0044	0.0038	5.2	4.3	4.3	No	No	No	No	No	No	No
382	0.0321	0.0044	0.0038	5.2	4.3	4.3	No	No	No	No	No	No	No
383	0.0320	0.0044	0.0038	5.2	4.3	4.3	No	No	No	No	No	No	No
384	0.0319	0.0044	0.0038	5.2	4.3	4.3	No	No	No	No	No	No	No
385	0.0318	0.0044	0.0038	5.1	4.3	4.2	No	No	No	No	No	No	No
386	0.0317	0.0044	0.0037	5.1	4.3	4.2	No	No	No	No	No	No	No
387	0.0316	0.0044	0.0037	5.1	4.3	4.2	No	No	No	No	No	No	No
388	0.0315	0.0044	0.0037	5.1	4.3	4.2	No	No	No	No	No	No	No
389	0.0315	0.0043	0.0037	5.1	4.2	4.2	No	No	No	No	No	No	No
390	0.0314	0.0043	0.0037	5.1	4.2	4.2	No	No	No	No	No	No	No
391	0.0313	0.0043	0.0037	5.1	4.2	4.2	No	No	No	No	No	No	No
392	0.0312	0.0043	0.0037	5.0	4.2	4.2	No	No	No	No	No	No	No
393	0.0311	0.0043	0.0037	5.0	4.2	4.2	No	No	No	No	No	No	No
394	0.0310	0.0043	0.0037	5.0	4.2	4.1	No	No	No	No	No	No	No
395	0.0309	0.0043	0.0036	5.0	4.2	4.1	No	No	No	No	No	No	No
396	0.0308	0.0043	0.0036	5.0	4.2	4.1	No	No	No	No	No	No	No
397	0.0308	0.0043	0.0036	5.0	4.2	4.1	No	No	No	No	No	No	No
398	0.0307	0.0042	0.0036	5.0	4.1	4.1	No	No	No	No	No	No	No
399	0.0306	0.0042	0.0036	4.9	4.1	4.1	No	No	No	No	No	No	No
400	0.0305	0.0042	0.0036	4.9	4.1	4.1	No	No	No	No	No	No	No