

APPENDIX G
NOISE ANALYSIS BACKUP TABLES

NOISE MONITORING RESULTS

Site	Location	Time		Leq	L1	L10	L50	L90	Lmin	Lmax
1	First Avenue between East 35th Street and East 36th Street	weekday	AM	72.4	80.0	75.8	70.0	65.6	62.0	83.2
			MD	71.8	79.6	74.4	70.8	63.6	61.7	
			PM	71.4	79.8	74.0	69.6	62.6	60.6	82.4
2	East 36th Street between First Avenue and FDR Drive (New Street)	weekday	AM	68.3	73.0	70.0	67.6	66.2	64.6	74.6
			MD	64.3	69.2	65.6	63.4	62.0	60.6	78.2
			PM	65.4	68.4	66.8	65.0	63.4	61.8	70.8
3	FDR Drive between East 35th Street and East 36th Street	weekday	AM	77.8	87.0	80.4	75.0	71.4	68.3	90.6
			MD	74.5	83.6	76.4	72.6	69.0	66.2	91.6
			PM	73.6	80.2	75.4	72.2	69.6	67.3	87.2
4	East 35th Street between First Avenue and FDR Drive	weekday	AM	69.8	76.0	71.8	68.4	66.8	64.2	80.4
			MD	68.3	76.4	70.4	66.6	64.8	63.4	80.8
			PM	70.5	80.4	71.4	66.4	64.6	63.0	89.7
5	First Avenue between East 39th Street and East 40th Street	weekday	AM	76.0	85.6	79.2	72.8	65.4	63.8	92.3
			MD	73.8	82.2	77.4	71.2	63.0	61.5	87.9
			PM	73.9	82.0	77.4	71.8	62.8	61.6	89.5
6	East 40th Street between First Avenue and Second Avenue	weekday	AM	69.4	78.8	71.9	66.4	63.7	61.8	86.8
			MD	66.9	74.4	68.2	65.4	63.6	62.6	82.1
			PM	65.7	71.6	68.6	63.8	61.0	59.6	81.1
7	East 39th Street between First Avenue and Second Avenue	weekday	AM	71.1	83.0	72.0	67.0	62.2	60.6	89.4
			MD	70.2	82.2	71.4	66.0	62.4	61.2	88.7
			PM	70.8	77.0	71.0	66.4	62.6	61.1	97.2
8	East 38th Street between First Avenue and FDR Drive (New Street)	weekday	AM	71.4	78.4	71.8	69.6	68.2	67.1	91.3
			MD	69.4	77.2	70.8	67.6	66.2	65.0	88.7
			PM	69.1	75.0	70.8	68.0	66.8	65.4	78.5
9	FDR Drive (New Street) between East 39th Street and East 40th Street	weekday	AM	80.4	85.2	81.8	80.0	77.8	73.7	91.0
			MD	72.7	80.8	74.6	70.8	68.0	63.8	91.1
			PM	78.8	81.8	80.2	78.6	76.4	71.0	85.3
10	East 41st Street between First Avenue and FDR Drive (New Street)	weekday	AM	73.5	83.4	75.8	69.6	66.6	64.8	91.6
			MD	71.8	81.8	76.0	65.4	62.4	60.8	87.3
			PM	72.9	82.8	76.2	67.6	64.4	62.0	88.3

Proportional & TNM Models Noise Analysis Results (Without UNDC)

Receptor Location	Site	Hour	Existing							No Build 2014					Build 2014						
			Volume	% Auto	% Medium	% Heavy	% Bus	PCEs	Leq(1)	Volume	PCEs	Leq(1)	Change	Increment Autos	Increment Taxi	Incr. Total Trucks	Incr. Medium Truck	Incr. Heavy Truck	Total PCEs	Leq(1)	Change
First Avenue between East 35th Street and East 36th Street	1	AM	1713	89.8	4.1	1.8	4.3	5226	72.4	1818	5547	72.7	0.3	146	218	16	11	5	6282	73.2	0.5
		MD	1275	87.2	6.2	2.7	3.9	4652	71.8	1379	5032	72.1	0.3	70	106	14	10	4	5533	72.6	0.4
		PM	2477	95.3	1.4	0.6	2.8	4758	71.4	2649	5089	71.7	0.3	160	161	9	6	3	5619	72.1	0.4
East 36th Street between First Avenue and FDR Drive (New Street)	2*	AM	74	92.9	4.0	1.7	1.4		68.3	79		68.6	0.3	68	86	2	1	1		69.4	0.8
		MD	72	91.7	5.8	2.5	0.0		64.3	82		64.6	0.3	22	40	2	1	1		65.3	0.7
		PM	35	100.0	0.0	0.0	0.0		65.4	42		65.7	0.3	33	43	1	1	0		66.3	0.6
FDR Drive between East 35th Street and East 36th Street	3	AM	1480	96.1	0.4	0.0	3.4	2405	77.8	1638	2662	78.2	0.4	179	180	21	15	6	3508	79.4	1.2
		MD	1146	96.5	0.8	0.0	2.7	1782	74.5	1265	1967	74.9	0.4	62	82	17	12	5	2505	76.0	1.1
		PM	1337	98.3	0.2	0.0	1.5	1710	73.6	1495	1912	74.1	0.5	136	116	11	8	3	2419	75.1	1.0
East 35th Street between First Avenue and FDR Drive	4	AM	400	93.3	1.1	0.5	5.2	899	69.8	469	1054	70.5	0.7	138	107	9	6	3	1508	72.0	1.6
		MD	331	97.2	1.3	0.0	1.6	473	68.3	373	533	68.8	0.5	53	47	8	6	2	819	70.7	1.9
		PM	336	90.7	0.0	0.0	9.3	867	70.5	386	996	71.1	0.6	97	39	5	4	2	1248	72.1	1.0
First Avenue between East 39th Street and East 40th Street	5	AM	1936	88.3	5.0	2.2	4.5		76.0	2065	6974	76.3	0.3	235	145	30	21	9		77.0	0.7
		MD	1455	87.4	6.4	2.8	3.4		73.8	1549	5629	74.1	0.3	50	80	24	17	7		74.5	0.4
		PM	2264	95.3	1.2	0.5	3.0		73.9	2407	4535	74.2	0.3	180	138	15	11	5		74.8	0.6
East 40th Street between First Avenue and Second Avenue	6	AM	272	94.8	2.9	1.2	1.1	568	69.4	286	597	69.6	0.2	26	56	3	2	1	748	70.6	1.0
		MD	213	89.7	6.2	2.7	1.4	687	66.9	224	722	67.1	0.2	8	22	2	1	1	799	67.6	0.4
		PM	407	93.8	3.5	1.5	1.1	934	65.7	428	983	65.9	0.2	16	50	2	1	1	1095	66.4	0.5
East 39th Street between First Avenue and Second Avenue	7	AM	271	94.7	3.2	1.4	0.7	582	71.1	288	618	71.4	0.3	38	30	5	4	2	802	72.5	1.1
		MD	255	94.3	3.7	1.6	0.4	573	70.2	268	602	70.4	0.2	19	19	3	2	1	710	71.1	0.7
		PM	328	99.4	0.2	0.1	0.3	368	70.8	345	387	71.0	0.2	37	35	3	2	1	528	72.4	1.4
East 38th Street between First Avenue and FDR Drive (New Street)	8	AM	424	97.5	1.4	0.6	0.5		71.4	445	680	71.6	0.2	96	10	14	10	4		72.6	1.0
		MD	302	91.9	4.5	1.9	1.6		69.4	317	851	69.6	0.2	62	8	11	8	3		70.4	0.8
		PM	236	96.2	0.9	0.4	2.5		69.1	248	426	69.3	0.2	253	9	7	5	2		70.9	1.6
FDR Drive (New Street) between East 39th Street and East 40th Street	9	AM	1629	96.1	0.4	0.0	3.4	2647	80.4	1801	2927	80.8	0.4	183	90	29	20	9	3872	82.1	1.2
		MD	1363	96.5	0.8	0.0	2.7	2119	72.7	1500	2333	73.1	0.4	37	46	23	16	7	2949	74.1	1.0
		PM	1570	98.3	0.2	0.0	1.5	2008	78.8	1752	2241	79.3	0.5	75	80	14	10	4	2721	80.1	0.8
East 41st Street between First Avenue and FDR Drive (New Street)	10	AM	72	20.9	4.2	1.8	73.1		73.5	76	1122	73.7	0.2	232	0	30	21	9		75.4	1.7
		MD	50	40.0	1.4	0.6	58.0		71.8	53	599	72.0	0.2	17	0	24	17	7		73.4	1.4
		PM	89	58.6	0.0	0.0	41.4		72.9	94	756	73.2	0.3	89	0	16	11	5		74.3	1.1

the TNM Model was used.

Proportional & TNM Models Noise Analysis Results (With UNDC)

Receptor Location	Site	Hour	EXISTING CONDITIONS							NO BUILD 2014				BUILD 2014							
			Volume	% Auto	% Medium	% Heavy	% Bus	PCEs	Leq(1)	Volume	PCEs	Leq(1)	Change	Incr. Autos	Incr. Taxi	Incr. Total Trucks	Incr. Medium Truck	Incr. Heavy Truck	Total PCE's	Leq(1)	Change
First Avenue between East 35th Street and East 36th Street	1	AM	1713	89.8%	4.1%	1.8%	4.3%	5226	72.4	1885	5751	72.8	0.4	146	218	16	11.2	4.8	6486	73.3	0.5
		MD	1275	87.2%	6.2%	2.7%	3.9%	4652	71.8	1386	5058	72.2	0.4	70	106	14	9.8	4.2	5558	72.6	0.4
		PM	2477	95.3%	1.4%	0.6%	2.8%	4758	71.4	2669	5127	71.7	0.3	160	161	9	6.3	2.7	5657	72.2	0.4
East 36th Street between First Avenue and FDR Drive (New Street)	2	AM	74	92.9%	4.0%	1.7%	1.4%		68.3	79		68.6	0.3	68	86	2	1.4	0.6		69.4	0.8
		MD	72	91.7%	5.8%	2.5%	0.0%		64.3	82		64.6	0.3	22	40	2	1.4	0.6		65.3	0.7
		PM	35	100.0%	0.0%	0.0%	0.0%		65.4	42		65.7	0.3	33	43	1	0.7	0.3		66.3	0.6
FDR Drive between East 35th Street and East 36th Street	3	AM	1480	96.1%	0.4%	0.0%	3.4%	2405	77.8	1654	2688	78.3	0.5	179	180	21	14.7	6.3	3534	79.5	1.2
		MD	1146	96.5%	0.8%	0.0%	2.7%	1782	74.5	1273	1980	75.0	0.5	62	82	17	11.9	5.1	2518	76.0	1.0
		PM	1337	98.3%	0.2%	0.0%	1.5%	1710	73.6	1540	1970	74.2	0.6	136	116	11	7.7	3.3	2477	75.2	1.0
East 35th Street between First Avenue and FDR Drive	4	AM	400	93.3%	1.1%	0.5%	5.2%	899	69.8	471	1058	70.5	0.7	138	107	9	6.3	2.7	1512	72.1	1.5
		MD	331	97.2%	1.3%	0.0%	1.6%	473	68.3	374	534	68.8	0.5	53	47	8	5.6	2.4	820	70.7	1.9
		PM	336	90.7%	0.0%	0.0%	9.3%	867	70.5	387	999	71.1	0.6	97	39	5	3.5	1.5	1251	72.1	1.0
First Avenue between East 39th Street and East 40th Street	5	AM	1936	88.3%	5.0%	2.2%	4.5%		76.0	2103		76.4	0.4	235	145	30	21	9		77.0	0.6
		MD	1455	87.4%	6.4%	2.8%	3.4%		73.8	1558		74.1	0.3	50	80	24	16.8	7.2		74.6	0.5
		PM	2264	95.3%	1.2%	0.5%	3.0%		73.9	2426		74.2	0.3	180	138	15	10.5	4.5		74.8	0.6
East 40th Street between First Avenue and Second Avenue	6	AM	272	94.8%	2.9%	1.2%	1.1%	568	69.4	304	634	69.9	0.5	26	56	3	2.1	0.9	786	70.8	0.9
		MD	213	89.7%	6.2%	2.7%	1.4%	687	66.9	225	725	67.1	0.2	8	22	2	1.4	0.6	802	67.6	0.4
		PM	407	93.8%	3.5%	1.5%	1.1%	934	65.7	443	1017	66.1	0.4	16	50	2	1.4	0.6	1130	66.5	0.5
East 39th Street between First Avenue and Second Avenue	7	AM	271	94.7%	3.2%	1.4%	0.7%	582	71.1	315	676	71.8	0.7	38	30	5	3.5	1.5	860	72.8	1.0
		MD	255	94.3%	3.7%	1.6%	0.4%	573	70.2	268	602	70.4	0.2	19	19	3	2.1	0.9	710	71.1	0.7
		PM	328	99.4%	0.2%	0.1%	0.3%	368	70.8	357	400	71.2	0.4	37	35	3	2.1	0.9	542	72.5	1.3
East 38th Street between First Avenue and FDR Drive (New Street)	8	AM	424	97.5%	1.4%	0.6%	0.5%		71.4	445		71.7	0.3	96	10	14	9.8	4.2		72.6	0.9
		MD	302	91.9%	4.5%	1.9%	1.6%		69.4	318		69.6	0.2	62	8	11	7.7	3.3		70.4	0.8
		PM	236	96.2%	0.9%	0.4%	2.5%		69.1	262		69.4	0.3	253	9	7	4.9	2.1		71.0	1.6
FDR Drive (New Street) between East 39th Street and East 40th Street	9	AM	1629	96.1%	0.4%	0.0%	3.4%	2647	80.4	1818	2954	80.9	0.5	183	90	29	20.3	8.7	3900	82.1	1.2
		MD	1363	96.5%	0.8%	0.0%	2.7%	2119	72.7	1509	2346	73.1	0.4	37	46	23	16.1	6.9	2963	74.2	1.0
		PM	1570	98.3%	0.2%	0.0%	1.5%	2008	78.8	1786	2284	79.4	0.6	75	80	14	9.8	4.2	2764	80.2	0.8
East 41st Street between First Avenue and FDR Drive (New Street)	10	AM	72	20.9%	4.2%	1.8%	73.1%		73.5	139		74.9	1.4	232	0	30	21	9		76.3	1.4
		MD	50	40.0%	1.4%	0.6%	58.0%		71.8	69		72.3	0.5	17	0	24	16.8	7.2		73.6	1.3
		PM	89	58.6%	0.0%	0.0%	41.4%		72.9	145		73.9	1.0	89	0	16	11.2	4.8		74.9	1.0

the TNM Model was used.

Noise Analysis Results in L10 (Without UNDC)

Note: This L10 calculation sheet is valid for the following in addition to Residential 7 AM - 10 PM school, museum, library, court, house of worship, transient hotel or motel, public meeting room, auditorium, out patient public health facility, commercial

Categories	
L10 < or equal 65 dBA	acceptable
65 < L10 < or equal 70 dBA	marginally acceptable
70 < L10 < or equal 80 dBA	marginally acceptable
L10 > 80 dBA	clearly unacceptable

Receptor Location	Site	Hour	NB Change	Existing L10	Category (Existing L10 noise levels)	Existing L10 + NB Change = NB L10	Category (NB L10 noise levels)	Build Change	No Build L10	No Build L10 + Build Change = L10	Category (B L10 noise levels)	CEQR criteria 45 dB(A)	Building Attenuation required
First Avenue between East 35th Street and East 36th Street	1	AM	0.3	75.8	MARGINALLY UNACCEPTABLE	76.1	MARGINALLY UNACCEPTABLE	0.5	76.1	76.6	MARGINALLY UNACCEPTABLE	45	31.6
		MD	0.3	74.4	MARGINALLY UNACCEPTABLE	74.7	MARGINALLY UNACCEPTABLE	0.4	74.7	75.2	MARGINALLY UNACCEPTABLE	45	30.2
		PM	0.3	74.0	MARGINALLY UNACCEPTABLE	74.3	MARGINALLY UNACCEPTABLE	0.4	74.3	74.7	MARGINALLY UNACCEPTABLE	45	29.7
East 36th Street between First Avenue and FDR Drive (New Street)	2	AM	0.3	70.0	MARGINALLY ACCEPTABLE	70.3	MARGINALLY UNACCEPTABLE	0.8	70.3	71.1	MARGINALLY UNACCEPTABLE	45	26.1
		MD	0.3	65.6	MARGINALLY ACCEPTABLE	65.9	MARGINALLY ACCEPTABLE	0.7	65.9	66.6	MARGINALLY ACCEPTABLE	45	21.6
		PM	0.3	66.8	MARGINALLY ACCEPTABLE	67.1	MARGINALLY ACCEPTABLE	0.6	67.1	67.7	MARGINALLY ACCEPTABLE	45	22.7
FDR Drive between East 35th Street and East 36th Street	3	AM	0.4	80.4	CLEARLY UNACCEPTABLE	80.8	CLEARLY UNACCEPTABLE	1.2	80.8	82.0	CLEARLY UNACCEPTABLE	45	37.0
		MD	0.4	76.4	MARGINALLY UNACCEPTABLE	76.8	MARGINALLY UNACCEPTABLE	1.1	76.8	77.9	MARGINALLY UNACCEPTABLE	45	32.9
		PM	0.5	75.4	MARGINALLY UNACCEPTABLE	75.9	MARGINALLY UNACCEPTABLE	1.0	75.9	76.9	MARGINALLY UNACCEPTABLE	45	31.9
East 35th Street between First Avenue and FDR Drive	4	AM	0.7	71.8	MARGINALLY UNACCEPTABLE	72.5	MARGINALLY UNACCEPTABLE	1.6	72.5	74.0	MARGINALLY UNACCEPTABLE	45	29.0
		MD	0.5	70.4	MARGINALLY UNACCEPTABLE	70.9	MARGINALLY UNACCEPTABLE	1.9	70.9	72.8	MARGINALLY UNACCEPTABLE	45	27.8
		PM	0.6	71.4	MARGINALLY UNACCEPTABLE	72.0	MARGINALLY UNACCEPTABLE	1.0	72.0	73.0	MARGINALLY UNACCEPTABLE	45	28.0
First Avenue between East 39th Street and East 40th Street	5	AM	0.3	79.2	MARGINALLY UNACCEPTABLE	79.5	MARGINALLY UNACCEPTABLE	0.7	79.5	80.2	CLEARLY UNACCEPTABLE	45	35.2
		MD	0.3	77.4	MARGINALLY UNACCEPTABLE	77.7	MARGINALLY UNACCEPTABLE	0.4	77.7	78.1	MARGINALLY UNACCEPTABLE	45	33.1
		PM	0.3	77.4	MARGINALLY UNACCEPTABLE	77.7	MARGINALLY UNACCEPTABLE	0.6	77.7	78.3	MARGINALLY UNACCEPTABLE	45	33.3
East 40th Street between First Avenue and Second Avenue	6	AM	0.2	71.9	MARGINALLY UNACCEPTABLE	72.1	MARGINALLY UNACCEPTABLE	1.0	72.1	73.1	MARGINALLY UNACCEPTABLE	45	28.1
		MD	0.2	68.2	MARGINALLY ACCEPTABLE	68.4	MARGINALLY ACCEPTABLE	0.4	68.4	68.9	MARGINALLY ACCEPTABLE	45	23.9
		PM	0.2	68.6	MARGINALLY ACCEPTABLE	68.8	MARGINALLY ACCEPTABLE	0.5	68.8	69.3	MARGINALLY ACCEPTABLE	45	24.3
East 39th Street between First Avenue and Second Avenue	7	AM	0.3	72.0	MARGINALLY UNACCEPTABLE	72.3	MARGINALLY UNACCEPTABLE	1.1	72.3	73.4	MARGINALLY UNACCEPTABLE	45	28.4
		MD	0.2	71.4	MARGINALLY UNACCEPTABLE	71.6	MARGINALLY UNACCEPTABLE	0.7	71.6	72.3	MARGINALLY UNACCEPTABLE	45	27.3
		PM	0.2	71.0	MARGINALLY UNACCEPTABLE	71.2	MARGINALLY UNACCEPTABLE	1.4	71.2	72.6	MARGINALLY UNACCEPTABLE	45	27.6
East 38th Street between First Avenue and FDR Drive (New Street)	8	AM	0.2	71.8	MARGINALLY UNACCEPTABLE	72.0	MARGINALLY UNACCEPTABLE	1.0	72.0	73.0	MARGINALLY UNACCEPTABLE	45	28.0
		MD	0.2	70.8	MARGINALLY UNACCEPTABLE	71.0	MARGINALLY UNACCEPTABLE	0.8	71.0	71.8	MARGINALLY UNACCEPTABLE	45	26.8
		PM	0.2	70.8	MARGINALLY UNACCEPTABLE	71.0	MARGINALLY UNACCEPTABLE	1.6	71.0	72.6	MARGINALLY UNACCEPTABLE	45	27.6
FDR Drive (New Street) between East 39th Street and East 40th Street	9	AM	0.4	81.8	CLEARLY UNACCEPTABLE	82.2	CLEARLY UNACCEPTABLE	1.2	82.2	83.5	CLEARLY UNACCEPTABLE	45	38.5
		MD	0.4	74.6	MARGINALLY UNACCEPTABLE	75.0	MARGINALLY UNACCEPTABLE	1.0	75.0	76.0	MARGINALLY UNACCEPTABLE	45	31.0
		PM	0.5	80.2	CLEARLY UNACCEPTABLE	80.7	CLEARLY UNACCEPTABLE	0.8	80.7	81.5	CLEARLY UNACCEPTABLE	45	36.5
East 41st Street between First Avenue and FDR Drive (New Street)	10	AM	0.2	75.8	MARGINALLY UNACCEPTABLE	76.0	MARGINALLY UNACCEPTABLE	1.7	76.0	77.7	MARGINALLY UNACCEPTABLE	45	32.7
		MD	0.2	76.0	MARGINALLY UNACCEPTABLE	76.2	MARGINALLY UNACCEPTABLE	1.4	76.2	77.6	MARGINALLY UNACCEPTABLE	45	32.6
		PM	0.3	76.2	MARGINALLY UNACCEPTABLE	76.5	MARGINALLY UNACCEPTABLE	1.1	76.5	77.6	MARGINALLY UNACCEPTABLE	45	32.6

Noise Analysis Results in L10 (With UNDC)

Note: This L10 calculation sheet is valid for the following in addition to Residential 7 AM - 10 PM school, museum, library, court, house of worship, transient hotel or motel, public meeting room, auditorium, out patient public health facility, commercial

Categories	
L10 < or equal 65 dBA	acceptable
65 < L10 < or equal 70 dBA	marginally acceptable
70 < L10 < or equal 80 dBA	marginally acceptable
L10 > 80 dBA	clearly unacceptable

Receptor Location	Site	Hour	NB Change	Existing L10	Category (Existing L10 noise levels)	Existing L10 + NB Change = NB L10	Category (NB L10 noise levels)	Build Change	No Build L10	No Build L10 + Build Change = L10	Category (B L10 noise levels)	CEQR criteria 45 dB(A)	Building Attenuation required
First Avenue between East 35th Street and East 36th Street	1	AM	0.4	75.8	MARGINALLY UNACCEPTABLE	76.2	MARGINALLY UNACCEPTABLE	0.5	76.2	76.7	MARGINALLY UNACCEPTABLE	45	31.7
		MD	0.4	74.4	MARGINALLY UNACCEPTABLE	74.8	MARGINALLY UNACCEPTABLE	0.4	74.8	75.2	MARGINALLY UNACCEPTABLE	45	30.2
		PM	0.3	74.0	MARGINALLY UNACCEPTABLE	74.3	MARGINALLY UNACCEPTABLE	0.4	74.3	74.8	MARGINALLY UNACCEPTABLE	45	29.8
East 36th Street between First Avenue and FDR Drive (New Street)	2	AM	0.3	70.0	MARGINALLY ACCEPTABLE	70.3	MARGINALLY UNACCEPTABLE	0.8	70.3	71.1	MARGINALLY UNACCEPTABLE	45	26.1
		MD	0.3	65.6	MARGINALLY ACCEPTABLE	65.9	MARGINALLY ACCEPTABLE	0.7	65.9	66.6	MARGINALLY ACCEPTABLE	45	21.6
		PM	0.3	66.8	MARGINALLY ACCEPTABLE	67.1	MARGINALLY ACCEPTABLE	0.6	67.1	67.7	MARGINALLY ACCEPTABLE	45	22.7
FDR Drive between East 35th Street and East 36th Street	3	AM	0.5	80.4	CLEARLY UNACCEPTABLE	80.9	CLEARLY UNACCEPTABLE	1.2	80.9	82.1	CLEARLY UNACCEPTABLE	45	37.1
		MD	0.5	76.4	MARGINALLY UNACCEPTABLE	76.9	MARGINALLY UNACCEPTABLE	1.0	76.9	77.9	MARGINALLY UNACCEPTABLE	45	32.9
		PM	0.6	75.4	MARGINALLY UNACCEPTABLE	76.0	MARGINALLY UNACCEPTABLE	1.0	76.0	77.0	MARGINALLY UNACCEPTABLE	45	32.0
East 35th Street between First Avenue and FDR Drive	4	AM	0.7	71.8	MARGINALLY UNACCEPTABLE	72.5	MARGINALLY UNACCEPTABLE	1.5	72.5	74.1	MARGINALLY UNACCEPTABLE	45	29.1
		MD	0.5	70.4	MARGINALLY UNACCEPTABLE	70.9	MARGINALLY UNACCEPTABLE	1.9	70.9	72.8	MARGINALLY UNACCEPTABLE	45	27.8
		PM	0.6	71.4	MARGINALLY UNACCEPTABLE	72.0	MARGINALLY UNACCEPTABLE	1.0	72.0	73.0	MARGINALLY UNACCEPTABLE	45	28.0
First Avenue between East 39th Street and East 40th Street	5	AM	0.4	79.2	MARGINALLY UNACCEPTABLE	79.6	MARGINALLY UNACCEPTABLE	0.6	79.6	80.2	CLEARLY UNACCEPTABLE	45	35.2
		MD	0.3	77.4	MARGINALLY UNACCEPTABLE	77.7	MARGINALLY UNACCEPTABLE	0.5	77.7	78.2	MARGINALLY UNACCEPTABLE	45	33.2
		PM	0.3	77.4	MARGINALLY UNACCEPTABLE	77.7	MARGINALLY UNACCEPTABLE	0.6	77.7	78.3	MARGINALLY UNACCEPTABLE	45	33.3
East 40th Street between First Avenue and Second Avenue	6	AM	0.5	71.9	MARGINALLY UNACCEPTABLE	72.4	MARGINALLY UNACCEPTABLE	0.9	72.4	73.3	MARGINALLY UNACCEPTABLE	45	28.3
		MD	0.2	68.2	MARGINALLY ACCEPTABLE	68.4	MARGINALLY ACCEPTABLE	0.4	68.4	68.9	MARGINALLY ACCEPTABLE	45	23.9
		PM	0.4	68.6	MARGINALLY ACCEPTABLE	69.0	MARGINALLY ACCEPTABLE	0.5	69.0	69.4	MARGINALLY ACCEPTABLE	45	24.4
East 39th Street between First Avenue and Second Avenue	7	AM	0.7	72.0	MARGINALLY UNACCEPTABLE	72.7	MARGINALLY UNACCEPTABLE	1.0	72.7	73.7	MARGINALLY UNACCEPTABLE	45	28.7
		MD	0.2	71.4	MARGINALLY UNACCEPTABLE	71.6	MARGINALLY UNACCEPTABLE	0.7	71.6	72.3	MARGINALLY UNACCEPTABLE	45	27.3
		PM	0.4	71.0	MARGINALLY UNACCEPTABLE	71.4	MARGINALLY UNACCEPTABLE	1.3	71.4	72.7	MARGINALLY UNACCEPTABLE	45	27.7
East 38th Street between First Avenue and FDR Drive (New Street)	8	AM	0.3	71.8	MARGINALLY UNACCEPTABLE	72.1	MARGINALLY UNACCEPTABLE	0.9	72.1	73.0	MARGINALLY UNACCEPTABLE	45	28.0
		MD	0.2	70.8	MARGINALLY UNACCEPTABLE	71.0	MARGINALLY UNACCEPTABLE	0.8	71.0	71.8	MARGINALLY UNACCEPTABLE	45	26.8
		PM	0.3	70.8	MARGINALLY UNACCEPTABLE	71.1	MARGINALLY UNACCEPTABLE	1.6	71.1	72.7	MARGINALLY UNACCEPTABLE	45	27.7
FDR Drive (New Street) between East 39th Street and East 40th Street	9	AM	0.5	81.8	CLEARLY UNACCEPTABLE	82.3	CLEARLY UNACCEPTABLE	1.2	82.3	83.5	CLEARLY UNACCEPTABLE	45	38.5
		MD	0.4	74.6	MARGINALLY UNACCEPTABLE	75.0	MARGINALLY UNACCEPTABLE	1.0	75.0	76.1	MARGINALLY UNACCEPTABLE	45	31.1
		PM	0.6	80.2	CLEARLY UNACCEPTABLE	80.8	CLEARLY UNACCEPTABLE	0.8	80.8	81.6	CLEARLY UNACCEPTABLE	45	36.6
East 41st Street between First Avenue and FDR Drive (New Street)	10	AM	1.4	75.8	MARGINALLY UNACCEPTABLE	77.2	MARGINALLY UNACCEPTABLE	1.4	77.2	78.6	MARGINALLY UNACCEPTABLE	45	33.6
		MD	0.5	76.0	MARGINALLY UNACCEPTABLE	76.5	MARGINALLY UNACCEPTABLE	1.3	76.5	77.8	MARGINALLY UNACCEPTABLE	45	32.8
		PM	1.0	76.2	MARGINALLY UNACCEPTABLE	77.2	MARGINALLY UNACCEPTABLE	1.0	77.2	78.2	MARGINALLY UNACCEPTABLE	45	33.2

Noise Levels L10 for Building Façades and Open Spaces (Without UNDC)

Receptor 5			Predicted Leq & L10						
Build TNM Leq	Build Leq*	Build L10	Proposed Buildings	Façade	Build TNM Leq	Build Leq*	Build L10**	CEQR Criteria	Building Attenuation
77.2	77	80.2	708 Waterside-708-1	East	74.3	74.1	77.3	50	27.3
77.2	77	80.2		South	72.3	72.1	75.3	50	25.3
77.2	77	80.2		West	75.9	75.7	78.9	50	28.9
77.2	77	80.2		North	73.5	73.3	76.5	50	26.5
77.2	77	80.2	685 First Avenue	East	75.4	75.2	78.4	45	33.4
77.2	77	80.2		South	73.8	73.6	76.8	45	31.8
77.2	77	80.2		West	71.3	71.1	74.3	45	29.3
77.2	77	80.2		North	73	72.8	76.0	45	31.0
77.2	77	80.2	708 Waterside-WS1-1	East	72.4	72.2	75.4	45	30.4
77.2	77	80.2		South	74	73.8	77.0	45	32.0
77.2	77	80.2		West	77.3	77.1	80.3	45	35.3
77.2	77	80.2		North	73.2	73.0	76.2	45	31.2
77.2	77	80.2	708 Waterside-WS1-2	East	75.7	75.5	78.7	45	33.7
77.2	77	80.2		South	73.5	73.3	76.5	45	31.5
77.2	77	80.2		West	72.3	72.1	75.3	45	30.3
77.2	77	80.2		North	73.3	73.1	76.3	45	31.3
77.2	77	80.2	708 Waterside-WS2-1	East	72.4	72.2	75.4	45	30.4
77.2	77	80.2		South	73.6	73.4	76.6	45	31.6
77.2	77	80.2		West	76.9	76.7	79.9	45	34.9
77.2	77	80.2		North	73.3	73.1	76.3	45	31.3
77.2	77	80.2	616 First Avenue-Build 2	East	78.2	78.0	81.2	45	36.2
77.2	77	80.2		South	73.4	73.2	76.4	45	31.4
77.2	77	80.2		West	71.7	71.5	74.7	45	29.7
77.2	77	80.2		North	73.5	73.3	76.5	45	31.5
77.2	77	80.2	616 First Avenue-Building 1	East	72.8	72.6	75.8	45	30.8
77.2	77	80.2		South	75.5	75.3	78.5	45	33.5
77.2	77	80.2		West	75.9	75.7	78.9	45	33.9
77.2	77	80.2		North	74.2	74.0	77.2	45	32.2
Open Spaces									
Receptor 5			Predicted Leq & L10						
Build TNM Leq	Build Leq*	Build L10	Proposed Open Space	Location	Build TNM Leq	Build Leq*	Build L10**	CEQR Criteria	Exceed?
77.2	77	80.2	Residential Plaza	Center	72.4	72.2	75.4	55	Yes
				Near FDR	78.2	78	81.2	55	Yes
				Near 1st Ave.	76.9	76.7	79.9	55	Yes
77.2	77	80.2	Playground	Center	73.4	73.2	76.4	55	Yes
				Near FDR	78.2	78	81.2	55	Yes
				Near 38th Street	74	73.8	77	55	Yes
77.2	77	80.2	Open Space	Center	71.8	71.6	74.8	55	Yes
				Near 35th Street	73.4	73.2	76.4	55	Yes
				Near 36th Street	73.5	73.3	76.5	55	Yes

* Build Leq = Build TNM Leq - (Existing TNM Leq - Measured Existing Leq)

** Build L10 = Build Leq + (Site 5 Build L10 - Site 5 Build Leq)

Noise Levels L10 for Building Façades and Open Spaces (With UNDC)

Receptor 5			Predicted Leq & L10						
Build TNM Leq	Build Leq*	Build L10	Proposed Buildings/Spaces	Façade	Build TNM Leq	Build Leq*	Build L10**	CEQR Criteria	Building Attenuation
77.2	77	80.2	708 Waterside-708-1	East	74.6	74.4	77.6	50	27.6
77.2	77	80.2		South	72.5	72.3	75.5	50	25.5
77.2	77	80.2		West	76.1	75.9	79.1	50	29.1
77.2	77	80.2		North	74.1	73.9	77.1	50	27.1
77.2	77	80.2	685 First Avenue	East	75.5	75.3	78.5	45	33.5
77.2	77	80.2		South	74	73.8	77.0	45	32.0
77.2	77	80.2		West	71.4	71.2	74.4	45	29.4
77.2	77	80.2		North	73.1	72.9	76.1	45	31.1
77.2	77	80.2	708 Waterside-WS1-1	East	72.4	72.2	75.4	45	30.4
77.2	77	80.2		South	74.1	73.9	77.1	45	32.1
77.2	77	80.2		West	77.3	77.1	80.3	45	35.3
77.2	77	80.2		North	73.3	73.1	76.3	45	31.3
77.2	77	80.2	708 Waterside-WS1-2	East	75.7	75.5	78.7	45	33.7
77.2	77	80.2		South	73.5	73.3	76.5	45	31.5
77.2	77	80.2		West	72.4	72.2	75.4	45	30.4
77.2	77	80.2		North	73.3	73.1	76.3	45	31.3
77.2	77	80.2	708 Waterside-WS2-1	East	72.5	72.3	75.5	45	30.5
77.2	77	80.2		South	73.6	73.4	76.6	45	31.6
77.2	77	80.2		West	77	76.8	80.0	45	35.0
77.2	77	80.2		North	73.4	73.2	76.4	45	31.4
77.2	77	80.2	616 First Avenue-Build 2	East	78.2	78.0	81.2	45	36.2
77.2	77	80.2		South	73.4	73.2	76.4	45	31.4
77.2	77	80.2		West	71.7	71.5	74.7	45	29.7
77.2	77	80.2		North	73.5	73.3	76.5	45	31.5
77.2	77	80.2	616 First Avenue-Building 1	East	72.9	72.7	75.9	45	30.9
77.2	77	80.2		South	75.6	75.4	78.6	45	33.6
77.2	77	80.2		West	76	75.8	79.0	45	34.0
77.2	77	80.2		North	74.3	74.1	77.3	45	32.3
Open Spaces									
Receptor 5			Predicted Leq & L10						
Build TNM Leq	Build Leq*	Build L10	Proposed Open Space	Location	Build TNM Leq	Build Leq*	Build L10**	CEQR Criteria	Exceed?
77.2	77	80.2	Residential Plaza	Center	72.5	72.3	75.5	55	Yes
				Near FDR	78.2	78	81.2	55	Yes
				Near 1st Ave.	77.0	76.8	80.0	55	Yes
77.2	77	80.2	Playground	Center	73.5	73.3	76.5	55	Yes
				Near FDR	78.2	78	81.2	55	Yes
				Near 38th Street	74.1	73.9	77.1	55	Yes
77.2	77	80.2	Open Space	Center	71.9	71.7	74.9	55	Yes
				Near 35th Street	73.4	73.2	76.4	55	Yes
				Near 36th Street	73.5	73.3	76.5	55	Yes

* Build Leq = Build TNM Leq - (Existing TNM Leq - Measured Existing Leq)

** Build L10 = Build Leq + (Site 5 Build L10 - Site 5 Build Leq)

TNM Predicted Noise Results in Leq(1), dBA

Receptor	Existing			Without UNDC				With UNDC			
	Measured	TNM		No Build		Build		No Build		Build	
		Change	TNM	Change	TNM	Change	TNM	Change	TNM	Change	TNM
AM											
2	68.3	69.8	1.5	70.1	0.3	70.9	0.8	70.1	0.3	70.9	0.8
5	76.0	76.2	0.2	76.5	0.3	77.2	0.7	76.6	0.4	77.2	0.6
10	73.5	72.4	-1.1	72.6	0.2	74.3	1.7	73.8	1.4	75.2	1.4
8	71.4	72.0	0.6	72.2	0.2	73.2	1.0	72.3	0.3	73.2	0.9
Midday											
2	64.3	65.4	1.1	65.7	0.3	66.4	0.7	65.7	0.3	66.4	0.7
5	73.8	75.4	1.6	75.7	0.3	76.1	0.4	75.7	0.3	76.2	0.5
10	71.8	71.1	-0.7	71.3	0.2	72.7	1.4	71.6	0.5	72.9	1.3
8	69.4	71.6	2.2	71.8	0.2	72.6	0.8	71.8	0.2	72.6	0.8
PM											
2	65.4	66.5	1.1	66.8	0.3	67.4	0.6	66.8	0.3	67.4	0.6
5	73.9	75.1	1.2	75.4	0.3	76.0	0.6	75.4	0.3	76.0	0.6
10	72.9	71.4	-1.5	71.7	0.3	72.8	1.1	72.4	1.0	73.4	1.0
8	69.1	70.5	1.4	70.7	0.2	72.3	1.6	70.8	0.3	72.4	1.6

A difference of 3 dBA or less between the modeled noise levels and measured noise levels indicates that the TNM model can be used with confidence.