CENTRAL BUSINESS DISTRICT (CBD) TOLLING PROGRAM

Appendix 12, Noise

2023

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12.1 LOCAL STREET NOISE ASSESSMENT

Table 12-1. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Long Island City Traffic Analysis Area

					EQUIVAL CHA (NO	PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION)			
INTERSECTION #	INTERCECTION NAME	ADDDOACH	LANE	MOVEMENT	PCE	PCE	PCE PM		
INTERSECTION #	INTERSECTION NAME	APPROACH	GROUP	MOVEMENT	AM	MD 0.1			
		NB	LT	L T	0.0 -0.1	-0.1 -0.1	-0.3		
		IND	T		0.1	0.4	0.0		
			R T	R T	0.0	0.4	-0.1		
1-	Pulaski Bridge/11th Street and	SB	TR	R	0.0	0.0	0.2		
1a	Jackson Avenue								
		EB	LT	L	-0.5	1.2 1.1	2.4		
			T	T	-0.4		2.1		
		WB	L	L	-0.1	-0.6	-0.3		
			T	T	0.0	0.0	0.0		
	11th Street and 48th Avenue	NB	L	L	0.0	0.0	0.0		
41-			T T	T	-0.1	0.0	0.1		
1b		SB	<u> </u>	L	0.0	0.1	-0.1		
		WD	TR	T	0.0	0.0	0.0		
		WB	LTR	T	0.0	0.0	0.0		
		NB	T	T	-0.1	0.3	0.8		
	50th Avenue @ Vernon	SB	R	R	0.2	1.6	1.5		
•			LT	T	0.6	1.1	0.4		
2	Boulevard			L	0.0	-0.1	0.0		
				L	0.0	0.0	0.0		
		EB	LTR	T	0.4	1.6	0.8		
				R	0.0	0.0	0.0		
		NB	<u>T</u>	T	-0.1	0.0	-0.3		
			TR	R	0.0	-0.1	0.0		
•	Greene Street and McGuinness	SB	<u>L</u>	L	0.0	-0.5	-0.1		
3	Boulevard		T	T	-0.1	-0.5	-0.2		
				L	0.0	0.1	-0.1		
		EB	LTR	Т	0.0	0.0	0.0		
				R	0.0	0.0	-0.1		
		NB	T	T	-0.1	0.0	-0.3		
4	McGuinness Boulevard and	SB	T	T	0.0	-0.4	-0.2		
4	Freeman Street		TR	R	0.0	0.0	0.0		
_		WB	R	R	-0.5	-1.7	-1.3		

					EQUIVAI CH	PASSENGER CAR EQUIVALENT NOISE LEVE CHANGES (DB(A)) (NO MITIGATION)		
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	
				L	0.0	0.0	0.0	
		NB	LTR	Т	0.0	0.0	0.0	
				R	0.0	0.0	0.0	
				L	0.0	-0.4	-0.1	
		SB	LTR	Т	-0.1	-0.4	-0.1	
5	21st Street and 49th Avenue			R	0.0	-0.5	-0.1	
J	21st Street and 49th Avenue			L	-0.1	0.6	1.0	
		EB	LTR	T	-0.1	0.6	1.0	
				R	0.0	0.7	1.1	
			LT	L	0.0	0.0	0.0	
		WB		T	0.0	0.0	0.0	
			R	R	0.0	0.0	0.0	
				L	0.0	-1.0	-0.9	
		NB	LTR	T	0.0	-0.6	-0.3	
				R	-1.3	-1.1	-4.3	
				L	-0.4	1.5	2.3	
	11th Street and Borden Avenue	SB	LTR	T	0.0	1.8	2.2	
7				R	-0.4	1.6	2.3	
,		EB		L	0.1	0.2	0.2	
			LTR	T	0.0	-0.1	-0.3	
				R	-1.2	-0.1	-3.0	
				L	0.0	0.0	0.0	
		WB	LTR	T	0.0	-0.1	-0.3	
_				R	-1.1	0.1	-2.4	
		NB	LT	L	-0.1	-0.1	-1.2	
		110	T	T	0.0	-0.2	-0.4	
8a	Vandam Street and Queens-	SB	T	T	-0.5	-1.2	-1.0	
ou .	Midtown Tunnel Expressway		TR	R	-0.1	-0.4	-1.1	
		WB	T	T	-0.2	0.0	-0.2	
		5	TR	R	0.0	0.3	-0.4	
		NB	T	T	-0.1	-0.2	-0.4	
			TR	R	0.0	0.0	0.0	
	Vandam Street and Borden	SB	LT	L	-0.3	-1.4	-0.8	
8b	Avenue		T	L	-0.5	-0.7	-1.0	
	- 19-2			L	-0.2	0.0	-0.1	
		EB	LTR	T	0.0	0.0	0.0	
				R	0.0	0.0	0.0	

		I		1	DAG	OCNOED (240
					_	SENGER (LENT NOIS	
						ANGES (DE	
						MITIGATI	
			LANE		PCE	PCE	PCE
INTERSECTION #	INTERSECTION NAME	APPROACH	GROUP	MOVEMENT	AM	MD	PM
		NB	T	T	0.0	0.0	0.0
		IND	TR	R	0.7	0.4	0.9
		SB	LT	L	0.0	0.1	0.0
	Jackson Avenue/Northern	SD	R	T	0.1	0.1	0.0
9	Boulevard and Queens Plaza	EB	T	L	-0.6	-3.7	-3.0
	Dodlevaru ariu Queeris Fraza	LD	R	T	-0.6	-3.7	-3.0
			LT	L	0.0	-0.1	0.0
		WB	T	T	-0.1	-0.1	-0.1
			TR	R	0.0	0.0	0.0
			L	L	1.0	0.8	0.8
		NB	T	T	0.0	0.0	0.0
10			TR	R	0.0	0.0	0.0
	Thomson Avenue and Vandam	SB	T	L	0.5	0.0	0.0
10	Street	OD.	R	T	0.5	0.0	0.0
		EB	T	T	-0.1	0.0	0.0
			R	R	-0.1	0.0	0.0
		WB	T	T	0.0	0.0	0.0
		SB	L	L	0.0	-0.1	0.0
	Thomson Avenue and Dutch Kills	_	LR	R	0.0	-0.2	0.0
11a	Street	EB	T	T	-0.2	-0.4	0.2
	Officer	WB	T	T	0.0	0.0	0.0
		VVD	R	R	0.0	0.0	0.0
	Thomson Avenue and Dutch Kills	WB	T	T	0.0	0.0	0.0
11b	Street		TR	R	-0.8	0.0	0.0
	Olioci	EB	EBT	Т	-0.2	-0.2	0.0
		NB	LT	T	0.0	0.0	0.0
		140	T	R	0.5	-0.1	-0.1
		SB	T	L	0.0	0.0	0.0
12	21st Street and Queens Plaza N	OD.	RT	T	-0.7	0.3	-0.8
				L	-0.1	-0.6	-0.2
		WB	LTR	T	-0.9	-0.3	-1.1
				R	0.0	-0.6	-0.3

Table 12-2. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Lower Manhattan Traffic Analysis Area

INTERSECTION			LANG		EQUIVA CH (N	PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION) PCE PCE PCE			
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	AM	MD	PCE		
	Trinity Place and Edgar Street								
1		NB	LT_	L	0.0	-10.4	0.0		
			T	T	-1.1	-10.0	0.0		
		EB	L	L T	0.0	2.5	0.1		
	Titali Diseased Desire	NB	T	T	-0.7	1.1	-0.2		
2	Trinity Place and Rector		R2	R2	0.0	0.0 -1.3	0.0 -1.1		
	Street	EB	LT	L T	-0.2 -0.1	0.0	0.0		
			T	T	-0.1 -0.1	-0.3	-0.2		
	Hugh L. Carey Tunnel	NB	R2	R2	0.2	1.0	0.7		
3a	Entrance/Exit and West	SB	T	T	-0.1	-0.4	-0.3		
	Street	WB	i	i	0.1	0.6	-0.1		
		NB	T	T	-0.1	-0.3	-0.2		
	Hugh L. Carey Tunnel Exit		T	T	-0.1	-0.4	-0.3		
3b	and West Street and West	SB	R	R	0.0	0.0	0.0		
	Thames Street	EB	R	R	0.0	0.0	0.0		
	, 	WB	R	R	0.2	0.7	0.0		
		NB	L	L	-0.2	-1.1	-0.5		
	Chambers Street and Centre	IND	T	T	-0.2	-1.1	-0.5		
4	Street	SB	TR	T	-0.6	-3.2	-2.1		
	Officer			R	-0.6	-1.1	-1.3		
		EB	R	R	-0.1	-1.6	-0.7		
				L	0.0	0.0	0.0		
		NB	LTR	T	0.0	0.0	0.0		
			D0	R	-1.2	-1.6	-0.1		
5 -	Canal Street and Hudson		R2	R2	0.0	-1.6	-3.0		
5a	Street/Holland Tunnel		L2L	L2	0.0	0.0	0.0 -0.2		
	On-Ramp	EB	T	L T	-1.2 -0.1	-1.6 -0.4	-0.2 -0.4		
			T T	T T	-0.1	-4.0	0.0		
		WB	R	R	-0. <i>1</i> -1.1	-4.3	0.0		
		EB	T	T	-0.3	-0.7	-0.4		
5b	Canal Street and Holland		T	T	-0.8	-4.0	0.0		
OD	Tunnel On-Ramp	WB	R	R	0.0	0.0	0.0		
		.,-	T	T	0.0	0.1	-0.1		
7a Canal Street and West Stree	0	NB	R	R	-0.2	-1.2	0.0		
	Canal Street and West Street	OD.	L	L	-0.3	-1.7	-0.6		
		SB	T	Т	-0.1	0.3	-0.1		

INTERSECTION			LANE		PASSENGER C EQUIVALENT NOISI CHANGES (DB (NO MITIGATION PCE PCE		SE LEVEL B(A))	
#	INTERSECTION NAME	APPROACH	GROUP	MOVEMENT	AM	MD	PM	
		ND	T	T	-0.1	0.1	-0.2	
	Mast Chroat and Albania	NB	TR	R	0.0	0.5	-0.2	
9	West Street and Albany Street	SB	T	T	0.1	0.3	0.1	
		SD	R	R	-0.1	-0.1	-0.1	
		EB	T	T	0.0	0.0	0.0	
		NB	Τ	T	0.0	0.2	0.0	
		SB	Τ	T	0.0	0.3	0.1	
		SB	R	R	-0.1	-0.1	-0.1	
10	West Street and Vesey Street	EB	L	L	0.0	-0.1	0.0	
10	10 West Street and Vesey Street	LD	R	R	0.0	0.3	0.3	
			LT	L	0.0	0.0	0.0	
		WB		T	0.0	0.0	0.0	
			R	R	0.0	0.0	0.0	
		NB	T	Т	-0.1	-0.1	-0.2	
	West Street and Chambers Street	IND	TR	T	0.0	-0.1	-0.1	
			L	L	-0.1	-0.2	-0.4	
11		SB	T	Т	0.0	0.1	0.0	
			R	R	0.0	-0.1	-0.2	
				L	-0.1	-0.1	0.0	
		EB	LTR	Т	0.0	0.0	0.0	
				R	0.0	0.2	0.0	
			LT	L	0.0	0.3	0.2	
		WB		Т	0.0	0.0	0.0	
			R	R	0.0	-0.1	0.0	
		EB	T	Т	-0.5	-2.3	-1.5	
			R	R	0.0	-0.2	-0.3	
		WB	T	T	-0.7	-2.2	-2.2	
14	Canal Street/Manhattan	NB	T	T	0.0	-0.2	-0.2	
	Bridge and Bowery		R	R	-0.4	-2.4	-1.4	
		0.0	L	L	-0.8	-3.4	-2.6	
		SB	TR	T	-0.3	-1.6	-5.5	
		ND		R	-0.5	-0.7	-1.0	
45	Manhattan Bridge and	NB OB	T	T	0.0	-0.2	-0.1	
15	Bowery	SB	T	T	-0.7	-2.4	-2.8	
	,	WB	R	R	-1.8	-11.1	-3.1	
	Obath Assessment of 1847 to	WB	TR	T	-0.3	-0.6	-0.6	
18	Sixth Avenue and Watts			R	0.0	-0.1	0.0	
	Street	NB	LT	L T	-0.6	-1.1	-0.7	
		NED		T	-0.3	-0.8	-0.7	
		NEB	R	R	-0.2 -0.2	-0.9	-0.6	
		ND	LTD	L T		-0.7	-0.6	
10	Canal Street and Sixth	NB	LTR	R	-0.2 0.0	-0.6 -1.2	-0.5 -1.2	
19	Avenue/ Laight Street	ED	T	T	-0.2			
		EB	I	T	-0.2 -0.3	-0.3	-0.5 -0.4	
		WB	TR			-0.7		
				R	-0.3	-0.6	-0.5	

Table 12-3. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings — CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Queens-Midtown Tunnel Traffic Analysis Area

					PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION)			
INTERSECTION			LANE		PCE	PCE	PCE	PCE
#	INTERSECTION NAME	APPROACH	GROUP	MOVEMENT	AM	MD	PM	LN
		NB	LT	L	-0.7	-1.2	-0.2	-1.0
1	E. 37th Street and Third	110		Т	-0.3	-0.6	-0.4	-0.8
•	Avenue	WB	TR	Т	0.1	0.4	0.1	1.0
		****		R	0.1	0.7	0.3	1.4
		SB	L	L	-0.2	0.1	0.7	1.8
	E. 36th Street and	0.5	T	T	-0.1	-0.2	-0.2	-0.1
2	Second Avenue	EB	T	Т	-0.3	0.2	0.6	1.5
	Cooona / Wondo		TR	R	-0.1	-0.2	-0.1	-0.7
		WB	L	L	0.0	0.0	0.0	0.0
			LT	L	-0.3	-0.1	-0.3	-0.3
3		NB	Т	T	-0.2	-0.5	-0.4	-0.7
	E. 34th Street and Third		R	R	-0.1	-0.3	-0.1	-0.2
J	Avenue	EB	T	Т	-0.4	-0.8	-0.8	-0.7
		WB	Т	Т	-0.2	0.0	-0.3	0.3
		VVD	R	R	-0.1	0.1	-0.2	0.5
		NB	LT	L	-0.1	-0.3	-0.3	-0.6
4	E. 35th Street and Third	IND	T	Т	-0.2	-0.5	-0.4	-0.6
7	Avenue	WB	T	T	-0.3	-0.2	-0.5	-0.3
		VVD	TR	R	-0.2	-0.1	-0.6	-0.1
			L	L	0.0	0.0	-0.1	-0.2
		SB	Т	T	-0.1	-0.2	-0.2	-0.1
5	E. 34th Street and		TR	R	-0.1	-0.1	-0.2	-1.1
J	Second Avenue	EB	Т	T	-0.1	-0.1	0.0	0.0
			TR	R	0.0	0.0	-0.2	-0.1
		WB	Т	Т	0.0	-0.4	-0.4	-2.1
		SB	Т	T	-0.1	-0.2	-0.2	-0.1
	E. 35th Street and		TR	R	0.0	0.0	-0.1	0.1
6	Second Avenue	EB	R	R	0.0	-0.1	0.0	-0.3
	OGCOND AVENUE	WB	LT	T	0.0	-0.1	0.0	-1.6
		VVD	L	L	0.0	0.0	0.0	-1.4

Table 12-4. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Red Hook Brooklyn Traffic Analysis Area

INTERSECTION			LANE		PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION) PCE PCE PCE PCE			
#	INTERSECTION NAME	APPROACH	GROUP	MOVEMENT	AM	MD	PM	LN
		EB	TR	T	0.0	0.0	0.0	0.6
			110	R	0.0	0.0	0.0	0.0
	Hamilton Avenue Clinton	NB	ΙT	L	0.0	0.0	0.0	0.0
			LT	T	-0.1	0.1	-0.1	-0.3
		SB (at W9th)	DT	Т	0.1	0.4	0.2	0.9
1	Hamilton Avenue, Clinton		RT	R	0.3	0.3	0.1	0.7
	Street and West 9th Street	SB	LT	L	0.1	0.5	0.3	1.2
		(at Clinton	LI	Т	0.1	0.3	0.3	0.9
		St)	L	L	0.0	0.8	0.1	0.8
		WB	T	Т	0.0	0.0	0.0	0.0
		VVB	L	L	0.0	0.0	0.0	0.0
	Hamilton Avenue NB and	NB	Т	T	-0.1	0.1	-0.2	-0.7
2	West 9th Street	WB	R	R	0.0	0.0	-0.2	-0.3

Table 12-5. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Upper East Side Traffic Analysis Area

					PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION)			EVEL)
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	PCE LN
				L	-1.1	-1.4	-4.7	-0.6
	E. 60th Street and Queensboro	NB	LTR	T	-1.2	-1.2	-2.9	-0.6
1	Bridge Exit			R	-1.3	-1.2	-2.9	-0.6
	Bridge Exit	EB	LT	L	0.0	0.0	0.0	0.0
		25		T	0.0	-1.3	-10.5	-4.8
		NB	L	<u>L</u>	-1.5	-2.1	-1.6	-0.6
2	E. 60th Street and Third Avenue		T	T	-1.5	-1.8	-1.8	-0.7
		WB	T	T	0.4	0.0	-2.1	-3.1
		ND	R	R	0.1	0.0	-1.8	-7.8
		NB SB	T T	T	0.0 -1.6	0.0	0.0 -2.1	0.0
		SB	<u> </u>	T	-3.9	-1.9 -2.7	-2.1 -9.3	-3.6 -0.3
		EB	LT	T	0.0	0.0	0.0	0.0
3	E. 60th Street and York Avenue	LD	R	R	0.0	0.0	0.0	-3.5
		WB	IX I	I	0.0	0.0	0.0	0.0
			T	T	0.0	0.0	0.0	0.0
		***	R	R	0.0	0.0	0.0	0.0
-			T	T	-1.5	-8.8	-9.3	-8.2
		EB		R	-1.3	-2.0	-4.4	-4.2
	E. 59th Street and Second		RR2	R2	-0.2	-0.2	-0.7	-1.0
4	Avenue		L2	L2	-1.7	-9.7	-11.6	-9.2
		SB	L2L	L	-1.0	-3.0	0.0	-10.6
			T	T	-0.2	-0.6	-1.6	-3.0
		NWB	L2	L2	0.3	0.0	-2.2	-4.9
		INVVD		L	0.4	0.0	-2.1	-5.2
	E. 60th Street and Second		L2	L2	0.0	-1.1	-1.5	-9.4
5	Avenue	SB	TR	Т	-2.1	-5.1	-6.7	-5.0
	7.001.00		111	R	-1.1	-2.5	-3.4	-0.2
		WB	LT	<u>L</u>	-4.9	-2.2	-3.1	0.0
		5		T	0.0	0.0	0.0	0.0
		NB	T	T	-1.4	-1.8	-2.2	-0.8
6	E. 60th Street and First Avenue		TR	R	-1.9	-1.8	-2.3	-1.0
		EB	L	L	0.0	0.0	-0.7	-1.3
			T	T	-3.2	-2.4	-5.5	-0.6
	C 60th Ctroot and Louisetter	SB	Т	Т	-1.2	-1.7	-2.3	-2.6
7	E. 60th Street and Lexington Avenue		TR	R	-0.7	-1.3	-1.9 -4.2	-2.1 5.5
1	Aveilue	WB	T	T	0.0	-0.1 -0.3	-4.2 -1.6	-5.5 -1.3
			LT		-0.7	-0.3	-1.6	-0.2
8a	F 60th Street and Park Avenue	NB	T	T	-0.7	-1.1	-1.5	-0.2
	E. 60th Street and Park Avenue NB		T T	T	-2.6	-4.7	-4.5	-3.7
		SB	TR	R	-2.1	-1.2	-1.1	0.0
			111	1.	۷.۱	1.4		0.0

					PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION)			EVEL)
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	PCE LN
		CD	T	Т	-0.1	-0.3	-0.3	-0.8
8b	E. 60th Street and Park Avenue	SB	TR	R	-0.1	-0.2	-0.2	-0.8
OD	NB	WB	L	L	0.0	0.0	-2.1	-0.5
		VVD	T	T	-0.2	-1.3	-2.1	-2.1
		NB	L	L	-0.9	-0.7	-1.0	-0.4
9	E. 60th Street and Madison	IND	T	T	-1.1	-1.3	-1.3	-0.6
9	Avenue	WB	T	T	-0.1	0.0	-0.6	-0.9
		VVD	TR	R	-0.5	-8.1	-6.1	-5.7
		NB	T	T	-1.5	-0.2	-2.9	0.5
10	E. 62nd Street and Queensboro	IND	R	R	-1.4	-0.2	-2.9	0.5
10	Bridge Exit	EB	LT	L	-0.3	0.0	0.0	-2.2
		LD	T	T	-1.2	-1.3	-2.3	-2.2
		SB	Т	T	-1.1	-1.7	-2.1	-2.5
11	E. 60th Street and Fifth Avenue	OB	R	R	-1.2	-1.5	-2.1	-2.4
11	E. Cour Guest and I mar / Wends	WB	L	L	0.0	0.0	-1.0	-0.5
		***	Т	T	-0.4	-0.6	-1.0	-0.8
		NB	Т	T	-0.6	-0.7	-1.8	-1.1
		110	TR	R	-0.9	-1.3	-2.5	-2.0
			L	L	-0.2	-0.5	-0.6	-0.8
12	E. 63rd Street and York Avenue	SB	T	T	-0.4	-0.4	-0.4	-0.9
12			TR	R	0.0	0.0	0.0	-0.1
			L	L	-0.8	-1.7	-1.3	-2.9
		WB	LT	T	-0.8	-1.6	-0.9	-2.2
			TR	R	-0.4	-1.7	-0.6	-1.7
13	E. 53rd Street and FDR Drive	SB	R	R	-0.3	-0.6	-0.7	-1.4
		SWB	R	R	-0.4	-0.7	-0.8	-0.9
14	E. 61st Street and Fifth Ave	SB	T	T	-1.2	-1.5	-1.1	-2.1
		WB	L	L	-1.0	-2.0	-15.3	-6.1
		SB	LT -	L	-0.4	-0.3	-0.3	-0.6
15	E. 65th Street and Fifth Avenue		T	T	-0.5	-0.5	-0.4	-0.6
		EB	T	T	-0.2	-0.3	-0.3	-0.1
			R	R	-0.1	-0.3	-0.2	-0.1
		SB	T	T	-0.6	-0.5	-0.3	-0.6
16	E. 66th Street and Fifth Avenue		TR	R	-0.2	-0.3	-0.1	-0.4
		WB	LT T	L	-0.3	-0.7	-0.4	-0.3
			T	T	-0.5	-0.5	-0.6	-0.5
		CD.	LT T	L T	-0.4	-0.1	-0.1	-0.3
		SB	TD	T	-0.4	-0.3	-0.1	-0.4
47	F 70th Ctroot and Fifth Assessed		TR	R	-0.8	-0.5	-0.2	-0.5
17	E. 79th Street and Fifth Avenue	EB -	T	T	-0.2	-0.4	-0.5	-0.4
	_		R	R	-0.2	-0.3	-0.4	-0.3
		WB	L T	L	-0.3	-0.1	-0.3	-0.6
			T	T	-0.5	-0.4	-0.6	-0.8

Appendix 12, Noise

					EQUI	PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION)		
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	PCE LN
		NB	LT	L	-0.4	-0.5	-1.0	-0.4
			T	T	-1.1	-1.5	-3.8	-1.1
			TR	R	0.0	0.0	0.0	0.0
		SB	LT	L	0.0	0.0	0.0	0.0
18	E. 71st Street and York Avenue		LTR	Т	-1.3	-0.8	-2.6	-1.3
			TR	R	-0.9	-0.6	-1.8	-0.9
			L	L	-0.1	-0.2	-0.2	-0.1
		WB	TR	T	0.0	0.0	0.0	0.0
				R	-0.4	-0.6	-1.4	-0.4

Table 12-6. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Lincoln Tunnel Traffic Analysis Area

	Tarric Arialysis Area				EQUIVA CH	ASSENGER C ALENT NOISE HANGES (DB) O MITIGATIO	E LEVEL (A))
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE PM	PCE MD	PCE PM
		OD	T	Т	-0.1	-0.2	-0.3
4	Ninth Avenue and W. 33rd	SB	R	R	-0.7	-0.6	-0.6
1	Street	WB	L	L	0.0	0.0	0.0
		VVD	T	Т	-0.1	-0.7	-0.3
		SB	L	L	-0.1	-0.3	-0.1
		36	R	R	-0.1	-0.3	0.0
2	Dyer Avenue and W. 34th	EB	L	L	0.0	0.0	0.0
۷	Street	LD	T	Т	-0.1	-0.3	-0.3
		WB	Т	T	0.0	0.1	0.0
		***	R	R	0.0	0.0	0.0
		NB	T	T	0.0	-0.1	-0.1
			R	R	0.0	0.0	-0.2
3	Twelfth Avenue and	SB	<u>L</u>	L	-0.4	-0.3	-0.2
-	W. 34th Street		<u>T</u>	Т	-0.2	-0.3	-0.4
		WB	<u>L</u>	L	-0.1	0.1	-0.1
			R	R	0.0	0.0	0.0
		OD.	<u>L</u> T	L	-0.1	-0.1	-0.5
4	Eleventh Avenue and W. 42nd Street	SB	<u>।</u> R	T R	-0.4 -0.2	-1.1 -0.2	-1.2
			T T	T	-0.2	-0.2	-0.4 -0.1
4		EB	R	R	-0.2	-0.8	-0.1
			L	L	0.0	0.0	0.0
		WB	T T	T	0.0	0.0	0.0
				T	-0.5	-0.6	-1.1
		NB	TR	R	0.0	0.0	-1.0
			L	ı	-0.1	-0.3	-0.1
		SB	<u>-</u> T	T	-0.1	-0.6	-0.1
5	Twelfth Avenue and		R	R	0.0	-0.5	-0.1
-	W 34th Street			L	0.0	0.0	0.0
		EB	LTR	Т	-0.2	-0.6	-0.4
				R	0.0	0.0	0.0
		WB	R	R	0.0	0.0	0.0
		NB	LT	L	0.0	0.0	0.0
6	Tenth Avenue and W 33rd	IND	LI	Т	-0.1	-0.2	-0.1
O	Street	WB	TR	Т	0.0	-3.5	-0.7
		VVD	ш	R	-0.1	-0.3	-0.0
				L	-0.1	-0.1	-0.7
		SB	LTR	Т	-0.1	-0.2	-0.6
	Eleventh Avenue and			R	0.0	0.0	-0.5
7	W 34th Street	EB	<u> L </u>	L	0.0	-0.2	-0.3
			<u>T</u>	T	-0.2	-0.2	-0.2
			R	R	0.0	0.0	0.0
		WB	L	L	0.0	0.0	0.0

Appendix 12, Noise

					EQUIVA CH	SSENGER C LENT NOISE IANGES (DB) O MITIGATIC	E LEVEL (A))
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE PM	PCE MD	PCE PM
			TR	T	0.0	0.0	-0.1
			IK	R	0.0	0.0	-0.0
		NB	LT	L	-0.6	-1.7	-4.1
8	Tenth Avenue and W 41st Street	ND	LI	T	0.0	-0.1	-0.1
		WB	T	T	-0.6	-1.7	-5.2
		VVD	R	R	-0.1	0.0	-0.4
		NID	T	T	0.0	0.0	-0.1
		NB	R	R	0.0	-0.3	-0.3
		SB	Ш	L	-0.2	-0.6	-0.3
	Twelfth Avenue and	SB	T	T	-0.2	-0.3	-0.3
9	W 42nd Street			L	0.0	0.0	0.0
Š	W 42110 Oli 661	EB	LTR	T	0.0	0.0	0.0
				R	0.0	0.0	0.0
		WB	L	Ĺ	0.0	0.0	-0.1
		VVD	R	R	-0.1	0.0	-0.1

Table 12-7. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: West Side Highway/Route 9A Traffic Analysis Area

					EQL	PASSENG JIVALENT CHANGE (NO MITI	NOISE LE	VEL
INTERSECTION #	INTERSECTION NAME	APPROACH	MOVEMENT	LANE GROUP	PCE AM	PCE MD	PCE PM	PCE LN
		NB	NBT	T	-0.0	0.0	-0.1	-0.4
		IND	NBR	TR	0.0	0.0	0.0	-0.1
1	W 24th Street and	CD	SBL	L	-0.1	-0.4	-0.2	-0.6
I	Twelfth Avenue	SB	SBT	T	-0.3	-0.4	-0.4	-0.7
		WB	WBL	LR	0.0	0.0	0.0	0.0
		VVD	WBR	R	0.0	0.0	0.0	0.0

Table 12-8. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario C) PCE Divided by No Action Alternative PCE: Downtown Brooklyn Analysis Area

					EQI	PASSENG JIVALENT CHANGE (NO MITI	NOISE LE	VEL
INTERSECTION #	INTERSECTION NAME	APPROACH	MOVEMENT	LANE GROUP	PCE AM	PCE MD	PCE PM	PCE LN
			NBL	L	0.0	0.0	0.0	0.0
		NB	NBT	T	-1.0	-2.3	-2.1	-6.1
			NBR	R	0.0	0.0	-0.1	-0.3
		SB	SBT	T	-0.3	-2.4	-1.4	-1.8
	Flatbush Avenue and	SB	SBR	R	-0.2	-2.5	-1.2	-1.1
1	Tillary Street		EBL	L	-0.9	-3.7	-2.6	-9.5
	Tillary Street	EB	EBT	T	0.0	-0.6	-0.5	-0.9
			EBR	R	0.0	-0.5	-0.4	-0.3
			WBL	L	-0.1	-0.1	0.0	0.0
		WB	WBT	T	0.0	-0.2	-0.1	0.0
			WBR	R	-1.0	-2.6	-2.1	-7.1
			NBL	L	0.0	0.0	0.0	0.0
		NB	NBT	T	-0.1	-0.7	-0.5	-2.0
			NBR	R	0.0	0.0	0.0	0.0
			SBL	L	0.0	-1.1	-0.6	-0.9
		SB	SBT	T	0.0	-1.1	-0.6	-1.0
2	Adams Street and		SBR	R	0.0	-0.6	-0.7	0.0
2	Tillary Street		EBL	L	0.0	0.0	0.0	0.0
		EB	EBT	T	-0.2	-0.3	-0.3	-2.6
			EBR	R	0.0	0.0	0.0	0.0
			WBL	L	0.0	-0.3	-0.1	-0.2
		WB	WBT	T	0.0	-0.2	-0.1	-0.1
			WBR	R	0.0	0.0	0.0	0.0
		NB	NBL	L	0.0	-0.6	-0.2	-0.4
3	Old Fulton Street and	IND	NBT	T	0.0	-0.8	-0.1	-0.2
	Vine Street	SB	SBT SBR	T	0.0	-0.5	-0.3	-1.7

Table 12-9. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Robert F. Kennedy Bridge Traffic Analysis Area

					EQUI	VALENT CHANGE	GER CAI NOISE L S (DB(A)	EVEL)
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	PCE LN
		NW	L	L	0.0	0.0	0.0	0.0
		INVV	R	R	0.0	0.0	0.0	0.0
	E. 126th Street and	SB	LT	L	0.0	0.0	0.0	0.0
1	Second Avenue	ОВ	<u> </u>	T	-0.3	-0.5	-0.7	-2.2
	Coocha / Worldo		L	L	-0.2	-0.6	-0.9	-2.0
		WB	T	T	-0.2	-0.3	-0.6	0.0
			R	R	-0.1	-0.2	-0.5	-0.1
		0.0	L	L	0.0	-0.1	-0.6	-0.5
		SB	TR	T	-0.4	-0.6	-0.8	-2.4
			1	R	-0.5	-0.5	-0.9	-2.4
2	E. 125th Street and	SW	L R	L R	0.7	0.1	2.1	0.6
Z	Second Avenue		K	T	0.0	0.1	0.3	1.2
		EB	TR	R	0.0	0.4	0.0	0.0
				L	0.0	-3.4	-4.9	-3.5
		WB	LT	T	0.0	-5.8	-4.6	-12.4
				T	0.0	0.0	0.0	0.0
		NB	TR	R	0.0	0.0	0.0	0.0
11				L	0.0	0.0	0.0	0.0
	E. 134th Street and St.	SB	LT		0.0	0.0	0.0	0.0
	Ann's Avenue	EB	LTR	L	0.0	0.0	0.0	0.0
				Т	0.0	0.0	0.0	0.0
				R	0.0	0.0	0.0	0.0
				L	0.0	0.0	0.0	0.0
		NB	LTR	Т	0.0	0.0	0.0	0.0
				R	0.0	0.0	0.0	0.0
				L	0.0	0.0	0.0	0.0
		SB	LTR	T	0.0	0.0	0.0	0.0
	St. Ann's Avenue and			R	0.0	0.0	0.0	0.0
22	Bruckner Boulevard			L	0.0	0.0	0.0	0.0
		EB	LTR	T	0.0	0.0	0.0	0.0
				R	0.0	0.0	0.0	0.0
			LT	L T	0.0	0.0	0.0	0.0
		WB		T	0.0	0.0	0.0	0.0
			TR	R	0.0	0.0	0.0	0.0
			T	T	-0.9	-6.3	-7.8	-7.1
		NB	R	R	-0.9	0.0	-2.2	-3.4
			T	T	0.0	0.0	-0.4	-0.4
17	31st Street and Astoria	SB	R	R	0.0	0.0	-0.3	-0.4
* 1	Boulevard		L	L	0.4	0.1	0.0	0.0
		EB	T	T	0.2	0.2	0.2	0.5
			R	R	0.2	0.1	0.1	0.5

Appendix 12, Noise

					EQUI	VALENT CHANGE	GER CAI NOISE L S (DB(A)	.EVEL))
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	PCE LN
		ND	L	L	-0.8	-3.6	-6.3	-8.2
		NB	T	Т	-1.2	-7.7	-2.2	-3.1
	Hayt Avanua Namal 21at	SB	T	T	0.0	0.0	-2.3	-1.3
24	Hoyt Avenue N and 31st Street	SB	R	R	0.0	0.0	-0.1	-0.2
		WB	L	L	0.0	0.0	0.0	0.0
			T	T	0.0	0.0	-0.2	-0.2
			R	R	0.0	0.0	0.0	0.0
		NID	T	T	-0.7	-5.3	-3.3	-6.5
		NB	R	R	-1.1	1.0	-2.2	1.0
	Hout Avenue C and 21 at	SB	L	L	0.0	0.0	0.0	0.0
.5	Hoyt Avenue S and 31st Street	SB	T	Т	0.0	0.0	-0.3	-0.4
	Succi		Ĺ	Ĺ	0.2	0.9	0.0	0.8
		EB	Т	Т	0.3	0.3	0.1	0.7
			R	R	0.5	0.0	-0.1	-0.5

Table 12-10. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Upper West Side Traffic Analysis Area

					EQU	PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION)				
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	PCE LN		
			NBL	L	-0.3	-0.2	-0.2	-0.4		
		NB	NBT	Т	-0.3	-0.3	-0.4	-0.4		
			NBR	R	-0.2	-0.1	-0.4	-0.4		
		CD	SBT	Т	0.0	-0.2	-0.5	-0.3		
	W 72nd Street and West End	SB	SBR	TR	0.0	0.0	0.0	0.0		
1	Avenue		EBL	LT	-1.0	-0.8	-1.9	-1.0		
	Avenue	EB	EBT	TR	-1.1	-1.0	-1.9	-1.1		
			EBR		-0.9	-1.6	-2.6	-1.4		
			WBL	LT	-0.3	-1.0	-1.3	-0.9		
		WB	WBT	TR	-0.4	-0.4	-0.4	-1.0		
			WBR	111	-0.2	-0.5	-0.4	-1.0		
			NBL	LT	-0.3	-1.0	-0.4	-1.5		
		NB	NBT	TR	-1.3	-1.6	-1.7	-2.4		
			NBR	111	-1.2	-1.4	-1.1	-2.3		
	W 61st Street and West End	SB _	SBL	L	0.0	0.0	0.0	0.0		
2	Avenue		SBT	T	-1.0	-1.7	-1.6	-2.2		
			SBR	TR	0.0	0.0	0.0	0.0		
			EBL		0.0	0.0	-0.2	-0.2		
		EB	EBT	LTR	-1.3	0.0	0.0	0.0		
			EBR		0.0	0.0	0.0	0.0		
			NBL		-0.2	-0.1	-0.5	-0.2		
		NB	NBT	LTR	0.0	0.0	0.0	0.0		
			NBR		0.0	0.0	0.0	0.0		
		0.0	SBL	LTR	0.0	0.0	0.0	0.0		
		SB	SBT	-	0.0	0.0	0.0	0.0		
3a	W 79th Street and Riverside		SBR	1.7	-0.3	-0.2	-0.4	-0.3		
	Drive	ED	EBL EBT	LT	-0.3 -0.5	-0.4	-0.7	-1.0 -1.1		
		EB	EBR	TR	-0.5 -0.5	-0.7 -0.7	-0.8 -0.7	-1.1 -1.1		
		_	WBL	LT	0.0	0.0	0.0	-0.2		
		WB	WBT		-0.4	-0.4	-0.8	-0.2		
		VVD	WBR	TR	0.0	0.0	-0.6	-0.4		
			NBT	T	-0.1	-0.1	-0.1	-0.1		
	W 56th Street and Twelfth	NB	NBR	TR	-0.1	0.0	-0.2	-0.7		
4a	Avenue		EBL	LT	0.0	-0.1	0.0	-0.2		
T u	7.11.011.00	EB	EBT	T	0.0	0.0	-0.1	-0.1		
		NB	NBT	T	0.0	-0.1	-0.1	-0.1		
4b	W 56th Street and West Side		SBL	L	0.0	-0.1	-0.1	-0.1		
	Highway	SB	SBT	T	0.0	-0.1	-0.1	-0.2		

						PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION)				
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	PCE LN		
		ND	NBL	L	0.0	0.0	0.0	0.0		
		NB	NBT	Т	0.0	0.0	0.0	-0.1		
	W 55th Street and West Side	SB	SBT	TR	0.0	-0.1	-0.1	-0.2		
5a	Highway	OB	SBR		0.0	0.0	0.0	0.0		
	- riigiiway		WBL	LT	0.0	-0.1	-0.3	-0.6		
		WB	WBT		0.0	-0.1	0.0	-1.0		
			WBR	R	-0.1	-0.2	-0.3	-0.6		
		NB	NBL	L	0.0	0.0	0.0	0.0		
			NBT	Т	-0.1	-0.1	-0.2	-0.6		
E	W 55th Street and Twelfth	SB	SBT	TR	0.0	0.0	0.0	0.0		
5b	Avenue		SBR		0.0	0.0	0.0	0.0		
		WB	WBL	LT	0.0	0.0	0.0	0.0		
			WBT	Б	-0.1	-0.1	-0.2	-0.6		
	M FFIL OLD LAND INVESTIGATION	OD	WBR	R	-0.1	-0.2	-0.2	-0.5		
5c	W 55th Street and West Side	SB WB	SBT WBL	T	0.0	0.0	0.0	0.0 -0.2		
-	Highway Arterial	VVD	NBL	L	-0.1	-0.2	-0.3	-0.2		
		NB	NBT	T	-0.1	-0.2	-0.3	-0.2		
6	W 60th Street and Broadway		SBT	l	-0.2	-1.5	-1.4	-2.3		
Ů		SB	SBR	TR	-0.9	-1.3	-1.2	-1.4		
			SBT		-1.1	-1.8	-2.4	-3.4		
	W 60th Street and Columbus	SB	SBR	TR	-0.7	-1.9	-2.2	-3.1		
7	Avenue		WBL	L	-0.4	-0.8	-0.7	-1.0		
		WB	WBT	T T	-0.2	0.0	-0.3	-0.0		
			NBL	-	-0.6	-1.4	-1.5	-0.7		
•	W 60th Street and Amsterdam	NB	NBT	LT	-1.2	-1.5	-1.6	-0.8		
8	Avenue	WD	WBT	Т	-0.7	-1.0	-0.8	-0.7		
		WB	WBR	R	0.0	0.0	-1.0	-0.9		
		ND	NBL	L	-0.5	-0.5	-1.5	-2.2		
		NB	NBT	Т	-1.4	-2.3	-1.8	-3.2		
		SB	SBT	TR	-1.0	-1.7	-1.8	-2.1		
9	W 60th Street and West End	30	SBR	IIX	-1.5	-2.6	-1.5	-2.2		
3	Avenue		EBL		0.0	0.0	0.0	0.0		
		EB	EBT	LTR	0.0	0.0	0.0	0.0		
			EBR		0.0	0.0	0.0	0.0		
		WB	WBL	LTR	0.0	0.0	-0.4	-0.2		
		NB	NBT	T	-1.2	-1.4	-1.6	-0.9		
	W 61st Street and Amsterdam	5	NBR	TR	-1.0	-1.0	-2.3	-0.6		
10	Avenue	EB	EBL	LT	-0.6	-0.9	-2.1	-0.7		
			EBT		-0.5	-1.0	-2.8	0.0		
	W 04 + 01 + 1 + 0 + 1	WB	WBR	R	0.0	0.0	-0.2	-0.1		
11	W 61st Street and Columbus	SB	SBL	L	-0.5	-0.7	-1.2	-0.7		
	Avenue		SBT	T	-1.2	-1.8	-2.4	-3.1		

					EQU	PASSENGER CAR EQUIVALENT NOISE LEVEL CHANGES (DB(A)) (NO MITIGATION)			
INTERSECTION #	INTERSECTION NAME	APPROACH	LANE GROUP	MOVEMENT	PCE AM	PCE MD	PCE PM	PCE LN	
π	INTERSECTION NAME		NBT	T	-0.2	0.0	-0.2	-0.3	
		NB	NBR	R	0.0	-9.0	0.0	0.0	
			SBL	L	0.0	-9.9	-11.1	0.0	
12	W 61st Street and Broadway	SB	SBT	T	-0.8	-1.5	-1.5	-2.8	
			EBL		-0.5	-0.4	-1.1	-0.3	
		EB	EBT	LTR	-0.3	-0.4	-1.2	-1.0	
			EBR		-0.5	-0.8	-1.5	-0.8	
40	W 61st Street and Columbus	NB	NBT	Т	-0.2	-0.3	-0.3	-0.5	
13	Avenue	EB	EBL	L	-1.7	-2.1	-3.7	-3.3	
			NBL	LT	-0.3	-0.1	-0.2	-0.1	
		NB	NBT	TR	-0.1	-0.1	-0.1	0.0	
			NBR	IK	-0.1	-0.1	-0.2	-0.2	
		_	SBL	LT	-0.1	-0.3	-0.2	-0.9	
14		SB	SBT	TR	-0.1	-0.2	-0.1	-0.4	
	W 81st Street and Central Park West		SBR	111	-0.2	-0.4	-0.4	-1.0	
17			EBL	L	-0.6	-0.3	-0.8	-0.3	
		EB	EBT	TR	-0.5	-0.5	-0.8	-0.5	
			EBR		-0.5	-0.3	-0.8	-0.3	
			WBL	L	-0.6	-0.4	-0.4	-0.9	
		WB	WBT	T	-0.9	-0.8	-0.7	-1.1	
			WBR	R	-0.4	-0.5	-0.5	-0.8	
		NB	NBL	LT	-0.1	-0.1	-0.1	-0.1	
			NBT	T	-0.2	-0.2	-0.2	-0.1	
45	W 66th Street and Central	SB	SBT	T	-0.3	-0.5	-0.5	-1.0	
15	Park West		SBR WBL	TR	-0.1 -0.2	-0.1 -0.4	-0.2 -0.8	-0.1 -2.0	
		WB	WBT	L T	-0.2	-0.4	-0.6	-2.0 -0.9	
		VVB	WBR	R	-0.4	-0.5 -0.5	-0.6	-0.9	
			NBT	T	-0.6	-0.5	-0.6	-0.9	
		NB	NBR	TR	0.0	0.0	0.0	0.0	
			SBL	TL	-0.4	-0.5	-0.6	-1.3	
16	W 65th Street and Central	SB	SBT	T	-0.4	-0.5	-0.6	-1.3	
16	Park West		EBL		-0.4	-0.4	-0.0	-0.2	
	Talk West	EB	EBT	_	-0.4	-0.6	-0.2	-0.2	
			EBR	TR	-0.4	-0.0	-0.4	-0.2	

Table 12-11. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings — CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Little Dominican Republic (Washington Heights) Analysis Area

					EQUIVA CH	SSENGER LENT NOIS ANGES (DE D MITIGATI	SE LEVEL B(A))
INTERSECTION #	INTERSECTION NAME	APPROACH	MOVEMENT	LANE GROUP	PCE AM	PCE MD	PCE PM
		NB	NBL	L	0.0	0.0	0.0
		IND	NBT	T	0.0	0.0	0.0
		SB	SBT	T	0.0	0.0	0.0
1	W 179th St & Broadway	SD	SBTR	R	0.0	0.0	0.0
				L	0.0	0.0	0.0
		WB	TR	T	0.3	1.2	0.5
				R	0.0	0.0	0.0

Table 12-12. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings — CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Lower East Side Analysis Area

					EQUIVAI CH/	SSENGER (LENT NOIS ANGES (DE) MITIGATIO	E LEVEL (A))
INTERSECTION #	INTERSECTION NAME	APPROACH	MOVEMENT	LANE GROUP	PCE AM	PCE MD	PCE PM
			NLT	L	0.0	0.0	0.0
		NB	INLI	Т	0.0	0.0	0.0
			NR	R2	-0.2	-0.7	-0.8
			ST	Т	-0.7	-0.9	-0.8
		SB	STR	T	0.0	0.0	0.0
	Park Row/Chatham		SIK	R	0.0	0.0	0.0
1	Square & Worth/Oliver St.	EB	ETR	T	0.0	0.0	0.0
,	& Mott St.	ortification of:		R	0.0	0.0	0.0
			WL	L	-0.6	-5.4	-3.9
		WB	WT	T	0.0	0.0	0.0
			WTR	R	-0.5	-4.3	-2.7
				L2	0.0	0.0	0.0
		SWB	SLR	L	0.0	0.0	0.0
-				R	0.0	0.0	0.0
		NB	NL	L	0.0	0.0	0.0
		IND	NR	R	0.0	0.0	0.0
2	Chatham Square & East	EB	ET	T	-0.4	-1.2	-1.3
۷	Broadway	LD	ER	R	0.0	0.0	0.0
		WB	WL	L	0.0	0.0	0.0
		VVD	WT	Т	-0.7	-8.3	-5.1
		NB	NL	L	0.0	0.0	0.0
		IND	NT	T	0.0	0.0	0.0
3	Chatham Square/Bowery	EB	ET	T	0.0	0.0	0.0
	& Division St.	LD	ETR	R2	-0.3	-1.1	-1.1
		WB	WLT	L	0.0	0.0	0.0
-		VVD	WT	T	0.0	0.0	0.0

Table 12-13. Passenger Car Equivalent Analysis Noise Level Change (dB(A)) Findings – CBD Tolling Alternative (Tolling Scenario D) PCE Divided by No Action Alternative PCE: Jersey City, NJ, Analysis Area

					EQUIVAI CH/	SSENGER (LENT NOIS ANGES (DB) MITIGATIO	E LEVEL B(A))
INTERSECTION #	INTERSECTION NAME	APPROACH	MOVEMENT	LANE GROUP	PCE AM	PCE MD	PCE PM
		WD	TD	T	0.0	0.0	0.0
		WB	TR	R	0.0	0.0	0.0
	14th Ctreet/Halland	WB2	TR	Т	0.0	0.0	0.0
1	14th Street/Holland Tunnel (E-W) & Marin	VVDZ	IK	R	0.0	0.0	0.0
ı	Boulevard (N-S)	NB	L	L	0.0	0.0	0.0
	Bodicvara (14-0)	IND	T	T	0.0	0.0	0.0
		SB	TR	T	0.0	0.0	0.0
-		OD	IIX	R	0.0	0.0	0.0
			L	L	0.0	0.0	0.0
		WB	TR	Т	-0.5	-1.0	0.0
	14th Street (E-W) &			R	0.0	0.0	0.0
4	Jersey Avenue (N-S)	NB	L	L	0.0	0.0	0.0
		115	T	T	0.0	0.0	0.0
		SB	TR	T	0.0	0.0	0.0
		0.5	R	R	0.0	0.0	0.0
		SE	<u>L</u>	L	0.0	0.0	0.0
		<u> </u>	T	T	0.0	0.0	0.0
_	12th Street (E-W) &		<u> </u>	R	0.0	0.0	0.0
5	Jersey Avenue (N-S)	EB	T	L -	0.0	0.0	0.0
	, , , ,		R	T	0.0	0.0	0.0
		SB	<u> </u>	R	0.0	0.0	0.0
			Ţ	L	0.0	0.0	0.0
		- FD	L	L	0.0	0.0	0.0
	12th Street/Holland	EB	TR	T	0.0	0.0	0.0
8 Tunnel (E	Tunnel (E-W) & Marin		-	R	0.0	0.0	0.0
	Boulevard (N-S)	NB	T	T	0.0	0.0	0.0
	boulevard (N-5)		R	R	0.0	0.0	0.0
		WB	T	T	0.0	0.0	0.0

12.2 RECEPTOR LOCATION DATA COLLECTION AND SUMMARY

Analysis presented in Subchapter 4B, "Transportation: Highways and Local Intersections," shows that the largest increases in traffic generation would occur under Tolling Scenario D in Manhattan at locations near the Queens—Midtown Tunnel and the Hugh L. Carey Tunnel. Accordingly, 24-hour, long-term noise measurements were collected at representative receptor sites identified near these two locations. The selected noise measurement locations are identified as receptor Sites R1 and R2 on Figure 12-1 and Figure 12-2, respectively. Site R1 was located near the portal of the Queens—Midtown Tunnel at Second Avenue and East 37th Street, and Site R2 was located adjacent to the Manhattan portal near West Street at the Hugh L. Carey Tunnel. These two locations were selected for monitoring because they represent areas with some of the highest existing ambient noise levels in New York City and are projected to experience among the highest traffic diversions. Perceptible noise increases generated from Project traffic movements would be most likely to occur at these locations and could potentially worsen traffic noise conditions at sensitive receptors within these adjacent communities. If projected traffic increases would not result in perceptible increases in noise levels, then there would be no anticipated adverse effect at noise sensitive receptor locations within the adjacent communities.

Noise measurements were collected using laboratory-certified noise monitoring equipment that complies with the American National Standards Institute requirements for Type II precision sound level meters. Two Larson Davis Model 720 noise level meters were deployed outdoors on MTA right-of-way property near major roadways leading to the Queens—Midtown Tunnel and the Hugh L. Carey Tunnel. The noise meters were configured to sample and record noise levels in one-hour intervals, with a new reading starting at the beginning of each hour. Hourly monitoring data consisted of A-weighted levels of the Leq, Lmax, Lmin, L1, L10, L50, and L90 noise descriptors. At each measurement location, the noise meter was calibrated before monitoring began and after monitoring ended. Noise measurements were collected from October 3, 2019, through October 7, 2019—prior to the COVID-19 pandemic—and reflect traffic patterns and ambient noise exposure conditions that are considered a reasonable estimate of the affected environment and the 2023 No Action Alternative. All noise measurement data collected during weekends or during periods of precipitation were excluded from the measurement survey findings.

EAST 36TH STREET 0 200 400 **Land Use** □ Feet Residential Major Interstates Commercial Roadways Institutional FDR Drive 24-Hour Noise Monitoring Location Recreational

Figure 12-1. Queens-Midtown Tunnel—Long-Term Noise Measurement Site R1

Source: ESRI, NYC Open Data, NYMTC 2020 TransCAD Highway Network

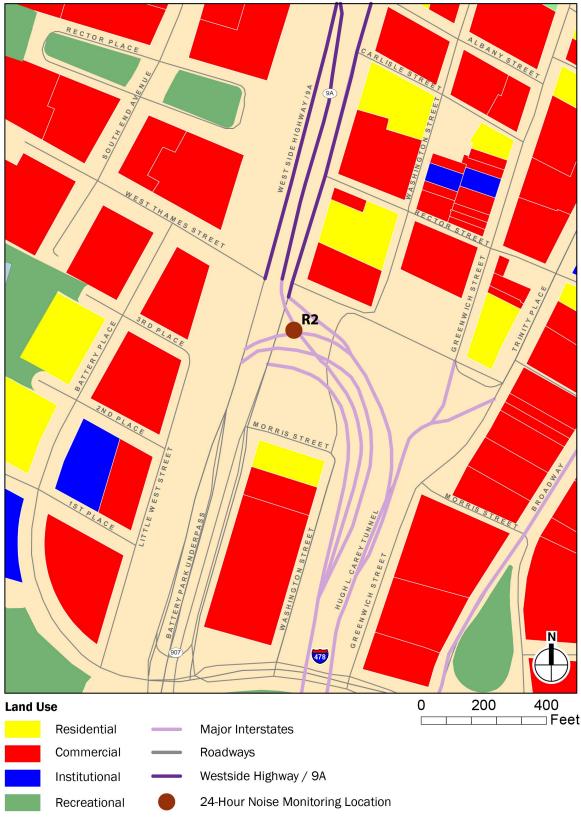


Figure 12-2. Hugh L. Carey Tunnel—Long-Term Noise Measurement Site R2

Source: ESRI, NYC Open Data, NYMTC 2020 TransCAD Highway Network

Appendix 12, Noise

In general, the loudest traffic hour typically experienced at a receptor site consists of a convergence of various factors, such as the total volume of traffic as it passes by the receptor site, its travel speed, and the proportion of the vehicle mix made up of heavy trucks. Table 12-14 provides the noise measurement data collected at Site R1 near the Queens-Midtown Tunnel, and Table 12-15 provides the noise measurement data collected at Site R2 near the Hugh L. Carey Tunnel. Each table presents the Leq data, and the L10 levels are approximately 3 dB(A) higher. At each monitoring location, the loudest (worst case) traffic noise hour was determined by averaging all the readings collected during that hour. The average hourly noise levels reported in Table 12-14 and Table 12-15 were derived from measurements collected during each hour over two or more days. Near the Queens-Midtown Tunnel (Site R1), the loudest noise hour occurred from 12:00 to 1:00 p.m., reaching 80.0 dB(A). At Site R2 near the Hugh L. Carey Tunnel, the peak noise hour occurred from 3:00 to 4:00 p.m., reaching 82.4 dB(A) near the tunnel portal. At both long-term monitoring locations, existing ambient noise levels were found to reach 75 dB(A) or higher for the majority of the long-term measurement sampling times. Noise levels below 70 dB(A) occurred only during the early morning hours. The corresponding L₁₀ levels for the L_{eq} readings shown in Table 12-14 and Table 12-15 would be approximately 3 dB(A) higher. For Receptor Categories 1, 2, and 3 shown for the External Noise Exposure Standards (Chapter 12, "Noise," Table 12-3), existing ambient levels near these two monitoring locations exceeded the CEQR 60 to 70 dB(A) L₁₀ Marginally Acceptable range for nearly all 24 hours of the day.

Table 12-14. Queens-Midtown Tunnel—Long-Term Noise Measurements Collected at Site R1

HOUR OF DAY	DAY 1 (L _{eq} 1-hr.) dB(A) (10/03/19)	DAY 2 (L _{eq} 1-hr.) dB(A) (10/04/19)	DAY 3 (L _{eq} 1-hr.) dB(A) (10/07/19)	AVERAGE L _{eq} (1-hr.) dB(A) Noise Level
12 AM to 1 AM	70.8	66.8	75.1	72.1
1 AM to 2 AM	N/A (Rain)	64.0	74.6	72.0
2 AM to 3 AM	N/A (Rain)	63.9	75.0	72.3
3 AM to 4 AM	N/A (Rain)	64.0	74.5	71.9
4 AM to 5 AM	N/A (Rain)	65.4	74.7	72.2
5 AM to 6 AM	N/A (Rain)	66.3	75.4	72.9
6 AM to 7 AM	N/A (Rain)	67.2	76.6	74.1
7 AM to 8 AM	N/A (Rain)	71.4	76.6	74.7
8 AM to 9 AM	N/A (Rain)	74.1	77.7	76.2
9 AM to 10 AM	N/A (Rain)	74.1	78.3	76.6
10 AM to 11 AM	N/A (Rain)	77.1	79.6	78.5
11 AM to 12 PM	N/A (Rain)	76.5	80.0	78.6
12 PM to 1 PM	N/A (Rain)	79.8	80.3	80.0
1 PM to 2 PM	N/A (Rain)	77.7	80.6	79.2
2 PM to 3 PM	N/A (Rain)	77.3	78.2	77.8
3 PM to 4 PM	N/A (Rain)	77.9	N/A (Rain)	77.9
4 PM to 5 PM	N/A (Rain)	79.2	N/A (Rain)	79.2
5 PM to 6 PM	N/A (Rain)	78.3	N/A (Rain)	78.3
6 PM to 7 PM	N/A (Rain)	76.1	N/A (Rain)	76.1
7 PM to 8 PM	N/A (Rain)	76.8	N/A (Rain)	76.8
8 PM to 9 PM	N/A (Rain)	78.2	N/A (Rain)	78.2
9 PM to 10 PM	N/A (Rain)	76.1	N/A (Rain)	76.1
10 PM to 11 PM	N/A (Rain)	75.9	N/A (Rain)	75.9
11 PM to 12 AM	N/A (Rain)	76.2	N/A (Rain)	76.2

Source: WSP, October 2019

N/A – Not Applicable. No measurement collected due to rain.

Table 12-15. Hugh L. Carey Tunnel—Long-Term Noise Measurements Collected at Site R2

HOUR OF DAY	DAY 1 (L _{eq} 1-hr.) dB(A) (10/03/19)	DAY 2 (L _{EQ} 1-HR.) dB(A) (10/04/19)	DAY 3 (L _{EQ} 1-HR.) dB(A) (10/07/19)	AVERAGE L _{eq} (1-hr.) dB(A) Noise Level
12 AM to 1 AM	73.1	73.9	68.0	72.3
1 AM to 2 AM	N/A (Rain)	72.4	67.2	70.5
2 AM to 3 AM	N/A (Rain)	66.9	71.5	69.8
3 AM to 4 AM	N/A (Rain)	64.7	65.5	65.1
4 AM to 5 AM	N/A (Rain)	68.0	66.0	67.1
5 AM to 6 AM	N/A (Rain)	73.2	71.4	72.4
6 AM to 7 AM	N/A (Rain)	77.3	76.8	77.1
7 AM to 8 AM	N/A (Rain)	81.7	78.5	80.4
8 AM to 9 AM	N/A (Rain)	80.5	79.5	80.0
9 AM to 10 AM	N/A (Rain)	79.3	78.2	78.8
10 AM to 11 AM	N/A (Rain)	82.3	76.1	80.2
11 AM to 12 PM	N/A (Rain)	81.2	75.2	79.1
12 AM to 1 PM	N/A (Rain)	80.7	75.6	78.9
1 PM to 2 PM	N/A (Rain)	80.9	N/A (Rain)	80.9
2 PM to 3 PM	N/A (Rain)	79.5	N/A (Rain)	79.5
3 PM to 4 PM	N/A (Rain)	82.4	N/A (Rain)	82.4
4 PM to 5 PM	N/A (Rain)	78.4	N/A (Rain)	78.4
5 PM to 6 PM	N/A (Rain)	80.0	N/A (Rain)	80.0
6 PM to 7 PM	N/A (Rain)	78.2	N/A (Rain)	78.2
7 PM to 8 PM	N/A (Rain)	76.3	N/A (Rain)	76.3
8 PM to 9 PM	N/A (Rain)	75.6	N/A (Rain)	75.6
9 PM to 10 PM	N/A (Rain)	76.7	N/A (Rain)	76.7
10 PM to 11 PM	N/A (Rain)	73.9	N/A (Rain)	73.9
11 PM to 12 AM	N/A (Rain)	78.9	N/A (Rain)	78.9

Source: WSP, October 2019

N/A – Not Applicable. No measurement collected due to rain.