CENTRAL BUSINESS DISTRICT (CBD) TOLLING PROGRAM

Appendix 4B.5, Transportation:

Traffic LOS: CBD Tolling Alternative with Mitigation

August 2022

			Downtown	Brooklyn Stud	y Area - No-Act	ion vs NEPA 4 V	Vith-Action (Wi	th Mitigation)	- Midday Peak H	our			
						Volume (vph)		V	'/C	De	elay	L	OS
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
			L	L	585	585	0	1.20	0.98	155.2	82.9	F	F
		NB	TR	Т	820	593	-227	1.21dl	0.97dl	69.7	37.2	Е	D
				R	345	343	-2	0.51	0.51	5.8	5.7	А	Α
		CD.	T	T	636	425	-211	0.59	0.39	39.5	35.9	D	D
		SB	R	R	77	51	-26	0.31	0.21	37.4	35.1	D	D
1	Flatbush Avenue		L	L	123	91	-32	0.68	0.50	66.4	56.9	E	E
'	and Tillary Street	EB	T	T	683	697	14	0.82	0.84	47.2	48.3	D	D
			R	R	255	262	7	0.77	0.79	53.8	55.8	D	E
			L	L	233	222	-11	0.73	0.69	61.6	59.7	E	E
		WB	T	T	366	349	-17	0.85	0.66	51.5	41.0	D	D
			R	R	382	259	-123	0.96	0.75	83.4	54.4	F	D
		Intersection								59.6	44.1	E	D
			L	L	0	0	0	-	-	-	-	-	-
		NB	T	T	474	409	-65	0.66	0.59	41.2	39.8	D	D
			R	R	44	44	0	0.81	0.79	57.9	57.6	E	E
				R2	188	178	-10	-	-				-
		65	<u> </u>	L	634	667	33	0.88	0.90	54.8	56.1	D	E
		SB	T	T	735	773	38	0.54	0.57	21.6	22.9	C	С
	Adam Street and		R	R	19	20	1	0.04	0.05	8.6	8.7	А	A
2	Tillary Street	ED.	L	L	0	0	0	-	-	- 07./	-		
	,	EB	TR	T	279 85	264 85	-15	0.41	0.39	37.6	37.4	D	D
				R			0	- 110	-	- 400.4	-	-	-
		WB	L T	L T	169	158	-11	1.10	1.00	138.4	112.2	F	F
		WB			214	200	-14	0.31	0.29	36.6	36.3	D	D
			R	R R2	0 33	0 15	-18	0.08	0.04	32.4	30.9	- C	- C
		Interception		K2	33	15	-18	0.08	0.04	45.3	43.9	D	D
		Intersection	ı	1	1094	1128	34	1.03	1.03	63.0	62.4	E	E
	Old Fulton Street	NB	T	T	1094	126	4	0.25	0.25	20.7	20.1	C	C
3	and Vine Street	SB	T	T	509	463	-46	0.25	0.25	23.5	17.0	C	В
	and vine street	Intersection	'	'	507	403	-40	0.41	0.30	47.2	45.8	D	D
		ii itei section								41.2	43.0	υ	U

			L	ong Island City S	Study Area - No	-Action vs With- Volume (vph)	Action (No Miti		ak Hour /C	Delay (:	seconds)	L	OS
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NB	LT T	L T	71 715	71 705	0 -10	1.18	1.17	128.5	124.4	F	F
	Dulanti Baldan /		R T	R T	390 445	396 445	6	0.66 0.68	0.67 0.68	43.9 8.6	44.2 8.7	D A	D A
1a	Pulaski Bridge / 11th Street & Jackson Avenue	SB EB	TR LT	R L	60 35	62 31	2 -4	-	-	-	-		-
	Jackson Avenue	WB	T L	T L	71 480	65 464	-6 -16	0.26 0.69	0.23 0.66	37.8 44.6	37.3 43.8	D D	D D
		Intersection	T	T	206	208	2	0.29	0.29	14.6 61.3	14.6 59.7	B E	B E
		NB	L T	T T	65 685 495	65 671 497	-14 2	0.39 0.65 0.66	0.39 0.64 0.66	3.2 23.2 39.1	3.0 19.1 39.2	C D	A B D
1b	11th Street & 48TH Avenue	SB	TR	R L	15 10	15	0	-	-				-
		WB	LTR	T R	25 10	25 10	0	0.08	0.08	17.8	17.8	В .	В -
		Intersection NB	T	T	218	214	-4	0.37	0.36	28.0 14.2	25.9 14.1	C B	C B
		SB	R LT	R L	11 35	12 40	1 5	0.03	0.03	10.6	10.8	B -	B -
2	50TH Avenue @ Vernon Blvd			T L	165 35	164 35	-1 0	0.47	0.49	16.9	17.3	B -	B -
		EB Intersection	LTR	T R	50 30	58 30	8	0.29	0.31	13.7	13.8	- B B	- B B
		NB	T TR	T R	1176 30	1153 30	-23 0	0.85	0.83	27.2	26.2	C .	C
	Green Street &	SB	L T	L T	74 962	73 944	-1 -18	0.80	0.75	68.0 17.9	58.7 17.7	E B	E B
3	McGuiness Blvd	EB	LTR	L T	185 20	182 20	-3 0	0.63	0.62	40.7	40.4	D	D
		Intersection		R	40	40	0	-	-	26.3	25.4	- C	- C
	McGuinness Blvd &	NB SB	T	T	1361 1036	1335 1017	-26 -19	-	-	-	-		-
4	Freeman Street	WB Intersection	TR R	R R	115 211	115 180	-31				-		-
		NB	LTR	L	35 90	35 90	0	0.57	0.57	33.0	32.9	- C	- C
				R L	40 99	40 98	0 -1		-		-		-
	21st Street & 49th	SB	LTR	T R	129 10	127 10	-2 0	1.04	1.04	97.1	95.3	F ·	F -
5	Avenue	EB	LTR	T R	38 141 11	37 138 11	-1 -3 0	0.49	0.48	24.5	24.3	C	C
		WB	LT	L T	5 40	5 40	0	0.11	0.11	17.8	17.8	- B	B
		Intersection	R	R	310	310	0	0.91	0.91	57.4 54.9	57.4 54.4	E D	E D
		NB	LTR	L T	17 67	17 67	0	-	-		-		-
				R L	23 35	17 32	-6 -3	-	-	-	-		-
7	11th Street &	SB	LTR	T R L	0 125 561	0 114 570	0 -11 9	-	-	-	-		
,	Borden Avenue	EB	LTR	T R	50 26	50 19	0 -7	-			-	-	
		WB	LTR	L T	40 422	40 424	0 2		-		-		-
		Intersection		R	77	59	-18		-		-		-
		NB	LT T	L T	26 303	23 297	-3 -6	0.45	0.41	8.3	7.1	A F	A F
8a	Van Dam Street & QMT Expy	SB	T TR T	T R T	842 19 891	765 17 840	-77 -2 -51	0.70	0.63	80.0 - 26.6	61.2 - 25.5	- C	- C
		WB Intersection	TR	R	263	258	-5	-	-	42.3	34.6	- D	- C
		NB	T TR	T R	299 5	291 5	-8 0	0.57	0.56	43.7	42.7	D -	D .
8b	Van Dam Street &	SB	L T	L T	636 206	585 180	-51 -26	0.97 0.29	0.89 0.26	95.6 3.4	92.4 3.0	F A	F A
	Borden Avenue	EB	LTR	T R	30 185 15	29 185 15	-1 0 0	0.31	0.31	29.0	28.9	C	C
		Intersection		L	0	0	0			57.9	56.0	E	E
		NB	LT TR	T R	260 16	301 16	41	0.65	0.74	51.3	55.4	D .	E
	Jackson Ave /	SB	LT T	L T	15 132	15 135	0	0.40	0.41	38.9	39.3	D	D
9	Northern Blvd & Queens Plaza	EB	T R	T R	963 327	833 283	-130 -44	0.47 0.66	0.41 0.57	22.8 31.1	21.8 27.9	C	C
		WB	LT T TR	T R	50 733 60	50 723 60	-10 0	0.50	0.48	15.5	15.3	В .	В .
		Intersection	L	L	0	0	0			26.0	26.4	C	C
		SB EB	LR T	R T	0	0 388	0 -12						
44-	Thomson Avenue &			T	385	385 896	0	-	-	-	-		-
11a	Thomson Avenue & Dutch Kills Street	WB	T R	R	896	0,0						-	
11a	Dutch Kills Street		R T	R	1281	1281	0	-	-	-	-		-
11h		WB Intersection WB EB	R	R			0 -153 -12	-	-				
11h	Dutch Kills Street Thomson Avenue &	WB Intersection WB	R T R T	R T R T	1281 842 400	1281 689 388	-153 -12	-	-	-	-	-	-
11b	Dutch Kills Street Thomson Avenue &	WB Intersection WB EB Intersection	R T R	R T R	1281 842 400	1281 689 388	-153 -12	-	-	-	-	-	-
11b	Dutch Kills Street Thomson Avenue & Dutch Kills Street	WB Intersection WB EB Intersection NB	R T R T	R T R T	1281 842 400 0 365 947	1281 689 388 0 365 951	-153 -12 0 0 4	- - 0.47 1.05	- - 0.47 1.06	- - - 17.6 70.5	- - - 17.6 72.2	B	B

	1		Lo	ong Island City S	tudy Area - No-	Action vs With-A	Action (With Mit		eak Hour /C	Delay	seconds)	1.	OS
						volume (vpm)		v	70	Delay (secorius)		03
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
			LT	L	70	68	-2	-		-			-
		NB	T R	T R	515 283	499 312	-16 29	1.03 0.41	1.00 0.45	84.6 34.0	77.8 34.8	F C	E C
	Pulaski Bridge /	SB	T TR	T R	340 75	337 84	-3 9	0.65	0.66	8.9	9.0	A	A
1a	11th Street & Jackson Avenue	EB	LT T	L T	55 89	73 114	18 25	0.33	0.42	38.9	40.9	D	D
		WB	L	L	395	342	-53	0.57	0.49	37.5	35.7	D	D
		Intersection	T	Т	208	209	1	0.28	0.28	12.0 41.6	12.1 39.3	B D	B D
		NB	L T	L T	55 515	55 517	2	0.32 0.57	0.33 0.57	5.9 11.3	6.9 12.7	A B	A B
	11th Street & 48TH	SB	T TR	T R	410 35	416 35	6	0.67	0.68	43.1	43.4	D -	D -
1b	Avenue	WB	LTR	L T	5 25	5 25	0	0.08	0.08	15.1	15.1	- B	В
		Intersection		R	15	15	0	-	-	24.3	25.3	-	-
		NB	Ţ	T	230	249	19	0.44	0.48	15.4	16.0	C B	C B
		SB	R LT	R L	27 35	39 48	12	0.06	0.09	11.0	11.2	B -	B .
2	50TH Avenue @ Vernon Blvd			T L	214 30	207 30	-7 0	0.53	0.56	17.6	18.7	B -	B -
		EB	LTR	T R	30 20	42 20	12 0	0.21	0.23	12.7	12.9	B -	B -
		Intersection	T	Т	752	754	2	0.55	0.55	15.7 17.1	16.3 17.1	B B	B B
		NB	TR L	R L	40 78	39 71	-1 -7	0.38	0.35	- 19.1	18.1	- B	В
3	Green Street & McGuiness Blvd	SB	T	T	624 243	561 250	-63 7	0.38	0.34	14.1	13.6	В -	В .
		EB	LTR	T	40	40 59	0 -1	0.84	0.85	53.3	54.8	D .	D .
		Intersection NB	T	T	995	1004	9			23.5	24.1	C	C
4	McGuinness Blvd &	SB	T	T	702	632	-70		-	-	-		·
+	Freeman Street	WB	TR R	R R	215 185	215 114	-71	-	-			-	
		Intersection	170	L	20	20	0	-	-			-	-
		NB	LTR	T R	85 50	85 50	0	0.47	0.47	28.7	28.7	C -	C -
		SB	LTR	L T	105 100	96 91	-9 -9	0.87	0.78	58.7	47.2	- E	- D
5	21st Street & 49th Avenue			R L	10 33	9 38	-1 5	-	-	-	-	-	-
	Avenue	EB	LTR	T R	111 11	128 13	17	0.39	0.45	22.3	23.6	C -	C -
		WB	LT	L T	5 35	5 35	0	0.09	0.09	17.5	17.5	- B	- В
		Intersection	R	R	310	310	0	0.79	0.79	39.3 38.0	39.3 34.8	D D	D C
		NB	LTR	L T	10 80	8 70	-2 -10	-	-	-	-	-	-
				R L	41 45	32 64	-9 19		-	-	-		
		SB	LTR	T R	6	9	3 56		-	-	-		
7	11th Street & Borden Avenue	EB	LTR	L T	581 75	610	29						
				R	41 70	40	-1 0						
		WB	LTR	T R	271 346	265 357	-6 11				-		
		Intersection		R				-	-	-		-	
		NB	T T	T	20	19 228	-1 -10	0.27	0.26	3.6	3.6	A	A
8a	Van Dam Street & QMT Expy	SB	T TR	T R	768 14	580 11	-188 -3	0.64	0.48	73.7	22.9	- E	C -
		WB	T TR	T R	651 501	643 528	-8 27	0.70	0.71	18.1	18.1	B -	В .
		Intersection NB	T	Т	238	227	-11	0.38	0.36	35.2 28.0	17.6 27.8	D C	B C
		SB	TR L	R L	10 574	10 403	-171	0.95	0.66	93.1	83.9	F	F
8b	Van Dam Street & Borden Avenue		T	T L	194 20	177 20	-17 0	0.27	0.24	2.2	1.5	A -	A -
		EB	LTR	T R	205 35	205 35	0	0.32	0.32	23.6	23.6	C -	C -
		Intersection	1.7	L	15	15	0		-	51.4	42.7	D	D
		NB	LT TR	T R	272 42	304 46	32 4	0.80	0.85	59.2	62.1	E .	E .
	Jackson Ave /	SB	LT T	L	55 145	56 147	1 2	0.66	0.69	53.9	56.1	D	F
9	Northern Blvd & Queens Plaza	EB	T R	T R	762 210	326 90	-436 -120	0.40	0.17	21.1	18.9	C	B B
	Gacciis i laza	WB	LT T	L T	45 861	44 849	-120 -1 -12	0.41	0.18	16.4	16.6	- B	В
			TR	R	90	89	-12	0.54	- 0.51	27.6	30.3		- C
		Intersection SB	L	L	1047	1022	-25	0.59	0.58	27.6 17.4	30.3 17.1	C B	В
	Thomson Avenue &	EB	LR T	R	25 223	24 207	-1 -16	0.19	0.18	29.0	28.8	C	C
11a	Dutch Kills Street	WB	T R	T R	235 0	230	-5 0	0.28	0.27	30.4	30.3	C	C -
11a		Intersection	_	T	235	230	-5	-	-	21	20.7	C -	C -
11a			T			885	0	-	-	-	-		-
11a 11b	Thomson Avenue & Dutch Kills Street	WB EB	R T	R T	885 1270	1229	-41		-	-	-		-
		WB EB Intersection	R				-41			-	-	-	
		WB EB Intersection NB	R	T	1270	1229		0.99		J.		- D C	- D C
	Dutch Kills Street 21th Street &	WB EB Intersection	R T	T L T T R	0 818 496 249	0 804 499 268	0 -14 3 19	0.99	0.97 0.73 0.37	- 54.6	50.7 26.9 16.9	D C B	D C B
11b	Dutch Kills Street	WB EB Intersection NB	R T T	L T	0 818 496	0 804 499	0 -14 3	0.99 0.72 0.34	0.97 0.73	54.6 26.7 16.5	50.7 26.9	D C	D C

Intersection # Intersection Name. Approach Lane Group Movement				Lo	ng Island City S	tudy Area - No-	Action vs With-A	ction (With Mi						
Marie Mari							Volume (vph)		V	//C	Delay (:	seconds)	L	os
April	Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
March Marc														F
14 Marchane			NB	R	R	379	378	-1	0.50	0.54	35.7	38.8	D	D
## MASS AND ADDRESS AND ADDRES	10		SB											
10 10 10 10 10 10 10 10	Id		EB											
The Professor of the Pr			WB	L	L	666	621	-45	0.86	0.87	49.9	53.4	D	D
10 10 10 10 10 10 10 10			Intersection								40.4	40.9	D	D
The Dispert A 4999			NB			590	599		0.56	0.57	4.6	7.0	Α	Α
## Annual	16	11th Street & 48TH	SB											
Minimar Charles	10	Avenue	WB				10							
10 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1														
2 Mill Amena © 10 11 17 17 17 18 18 18 18											16.1	18.4	В	В
## SITE AND THE PROPERTY OF TH						48	56		-	-	-			
Company	2		35											
Processor Proc			EB	LTR	Т	34	41	7					В	В
The Desire of August 2 and Augu			Intersection	т							15.8	17.2	В	В
The Street A Annual Processor Ray 1			NB		R	20	20	0	-	-		-		
## Miscanes Bold	3		SB		T	970	914	-56		0.52	16.7	16.1	В	В
Michael Sheet R S S S S S S S S S	3	McGuiness Blvd	EB	LTR	T	35	35	0	0.63					
4 McCalmones Book A Fromman Street McCalmones Book A Fromman Street Will 8 8 8 199 1010 108 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Intersection		R	55	53	-2	-	-	20.4	19.6	- C	- B
## Miller 178			NB											-
### Service No.	4			TR	R	340	340	0						
Secretary Part Pa				К		•					-		-	
Se LIR T 163 199 4-4			NB	LTR	Т	105	105	0						C
S										-		-		
Part			SB	LTR										
R 36 46 10 10 10 10 10 10 10 1	5		EB	LTR	L	48	61	13	-	-	-	-		
Wilson					R	36	46	10	-	-		-		
Part			WB		T	85	85	0		0.20	18.8	18.8	В	В
No.			Intersection	R					0.87	0.87	60.9	47.0 56.8	E E	E E
11th Street & Sa			NB	LTR	_				-	-	-	-		-
Tith Street & R 263 450 187														-
## Britishers ##			SB	LTR		9	15	6		-				-
## But R	7		FR	LTR	L	567	590	23		-				-
Basistree Basi				2.11	R	10	5	-5				-		-
Main			WB	LTR	T	334	313	-21				-		-
Van Dam Street & OMT Expy			Intersection		R	•			-			-		-
An Dem Street & OMT Expy			NB	T	T	265	243	-22					- A	
No.	8a		SB											
Intersection		слин ехру	WB	T	T	867	808	-59					C	
No. TR											23.3	21.7	С	C
Shake Van Dam Street & Borden Avenue EB				TR	R	10	10	0	-	-	-	-		
Borden Avenue EB	8b		SB		T	212	172	-40	0.57	0.45	85.6	85.7	F	F
Intersection		borden Avenue	EB	LTR	T	545	545	0	0.59	0.59	34.0	34.0	С	С
NB			Intersection						-	-				
Fig.			NB	LT					0.91	0.73		-	E	D D
Packed Northern Blyd & Care Car			60		R	17	21	4		-				
Cuens Plaza	q			T	T	143	144	1	0.35	0.35	36.7	36.5	D	D
WB	Í		EB	R	R	199	100	-99				19.4		
Intersection			WB	T	T	752	738	-14				14.0	В	В
Thomson Avenue & EB T T 342 355 13 0.36 0.37 43.6 43.9 D D D D			Intersection								29.0	25.2		
Dutch Kills Street				LR	R	15	15	0	-	-		-		
WB R R Q Q Q Q Q Q Q Q	11a													
Thomson Avenue & WB T T 401 400 -1									-	-				
Dutch Kills Street EB T T 1727 1729 2 - - - - - - - - -		Thomson A												
12	11b								-					
1 1 1063 1045 -18 1.12 1.11 95.6 88.4 F F SB T T T 629 631 2 0.70 0.71 23.5 23.6 C C C 21th Street & Queens Plaza N WB LTR T 113 87 -26 0.82 0.73 54.4 48.4 D D R 144 136 -8												-	-	
12 21th Street & Queens Plaza N WB LTR T 113 87 -26 0.82 0.73 54.4 48.4 D D D C R 144 136 -8														
WB LTR T 113 87 -26 0.82 0.73 54.4 48.4 D D R 144 136 -8	12		35		R	272	226	-46			15.2	14.4	В	В
			WB	LTR	T	113	87	-26	0.82	0.73	54.4		D	D
			Intersection					<u> </u>		İ		55.6	E	E

			Lo	wer Manhattan	Study Area - No		n-Action (No Mit	tigation) - AM P	eak Hour				
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	Volume (vph) With-Action	Increment	V No-Action	/C With-Action	Delay (No-Action	seconds) With-Action	No-Action	OS With-Action
		NEB	L	L2	0	0	0	-		-		-	
	Trinity Place &		LT	L L	3	0	-3	-	-	-	-	-	-
1	Edgar Street	NB	T	T	79	62	-17	0.09	0.06	10.1	10.0	В	Α
		EB Intersection	L	L	35	35	0	0.09	0.09	20.7 13.5	20.7 14.1	C B	C B
		NB	TR	T	104	88	-16	0.16	0.14	10.7	10.5	В	В
2	Trinity Place &		LT	R L	10 102	9 97	-5	-	-	-	-	-	-
	Rector Street	EB	LI	T	35	34	-1	0.52	0.49	31.9	31.0	C	C
		Intersection		_	1051	1000				22.1	22.2	С	С
		NB	T R2	T R2	1056 424	1022 448	-34 24	0.73 0.27	0.71 0.28	45.2 0.5	44.4 0.5	D A	D A
3a	HCT Entrance/Exit & West Street	SB	T	T	1044	1008	-36	0.65	0.63	1.4	1.3	A	A
		WB Intersection	L	L	1692	1722	30	0.97	0.99	53.0 32.7	56.8 34.2	D C	E C
		NB	T	T	1056	1022	-34	0.61	0.59	1.2	1.2	A	A
	HCT Exit & West	SB	TR	T R	1044	1008	-36 0	0.76	0.73	46.1	45.1	D	D
3b	Street & West Thames Street	EB	R	R	0	0	0	-	-	-	-	-	-
	maines street	WB	R	R	1239	1280	41	0.82	0.85	38.4	40.1	D	D
		Intersection	L	L	430	406	-24	0.48	0.45	29.5 26.5	30.1 26.0	C C	C
		NB	T	T	496	469	-27	0.57	0.54	13.8	13.2	В	В
4	Chambers Street & Centre Street	SB	TR	T R	237 31	206 27	-31 -4	0.79 0.29	0.69 0.25	50.5 35.9	43.2 34.7	D D	D C
		EB	R	R	394	381	-13	0.89	0.86	51.3	47.5	D	D
		Intersection	LT	L	105	105	0			32.7	30.2	C -	C -
		NB		T	670	670	0	0.87	0.86	41.0	40.8	D	D
	Canal Stroot B	IAD	R R2	R R2	190 46	147 45	-43 -1	0.56 0.24	0.43 0.24	34.9 27.9	31.0 27.8	C C	C C
5a	Canal Street & Hudson		L L	L2	50	49	-1	-	-	-	-	-	-
эа	Street/Holland	EB	т	L T	438	328	-110	0.80	0.62	42.9	35.6	D	D
	Tunnel On-Ramp	\A/D	T TR	T	589 409	564 342	-25 -67	0.71 0.81	0.68	19.8 28.9	18.8 18.5	B C	B B
		WB		R	89	74	-15	-	-	-	-	-	-
-	0.16	Intersection EB	T	T	635	609	-26	0.42	0.40	33.6 5.1	29.8 5.0	C A	C A
5b	Canal Street & Holland Tunnel On-	WB	T	Ť	498	416	-82	1.08	0.97	97.8	60.0	F	E
	Ramp	Intersection	R	R	880	880	0	1.14	1.14	100.9 70.3	100.9 57.7	F E	F F
		NB	T	T	2680	2678	-2	1.00	1.00	50.2	49.9	D	D
7a	Canal Street S &	IND	R L	R L	291 734	278 673	-13 -61	0.61 0.75	0.58 0.69	28.2 115.1	27.1 113.0	C	C F
74	West Street	SB	T	T	2144	2111	-33	0.76	0.74	8.2	8.0	A	A
	1	Intersection	To	_						41.9	40.8	D	D
		NB	TR	T R	2267 93	2230 92	-37 -1	0.79	0.78	25.8	25.3	C -	C -
		CD.		L	5	5		-	-	-	-	-	-
9	West Street &	SB	TR	T R	1644 140	1670 136	26 -4	0.58	0.59	19.8	19.9	B -	B -
1	Albany Street	_		L	135	134		-	-	-	-	-	-
		EB	LTR	T R	90 62	90 65	3	0.76	0.76	57.9 -	58.3	E -	E .
		Intersection								25.6	25.4	С	C
		NB	Т	L	5 2296	5 2243	-53	0.71	0.69	20.3	19.8	- C	- B
		SB	T	T	1855	1874	19	0.69	0.70	20.0	20.3	С	С
	Wort Chry 11 2		R	R	330	323	-7	0.86	0.84	44.0	41.6	D F	D F
10	West Street & Vesey Street	EB	L R	R R	105 77	104 79	-1 2	0.58	0.57	58.1 48.5	57.5 48.8	D	D
]	MD	LT	L	0	0	0	-	-	-	-	-	-
1		WB	R	T R	0	0	0	-	-	-	-	-	-
		Intersection								23.5	23.1	C	С
<u> </u>		NB	TR	T T	2328 65	2256 63	-72 -2	0.88	0.85	38.4	36.9	D -	D -
1			L	L	230	223	-7	0.77	0.75	80.2	78.7	F	E
		SB	T R	T R	1793 50	1789 49	-4 -1	0.63 0.27	0.63 0.26	17.1 57.3	17.1 57.1	B E	B E
11	West Street &			L	105	103	-2	-	-	-	-	-	-
''	Chambers Street	EB	LTR	T R	30 15	29 15	-1 0	0.58	0.57	55.5	55.0	E -	- E
			LT	L	67	69	2	-	-	-	-	-	-
1		WB	R	T R	60 310	60 305	-5	0.56 0.75	0.57 0.74	56.0 46.7	56.6 45.9	E D	E D
	<u> </u>	Intersection	7.	Λ	310	303	-0	0.70	0.74	35.0	34.0	D	C
		EB	T	T	839	756 103	-83 1	0.87	0.78	34.0	29.0	С	C
1		WB	R T	R T	104 1149	103 980	-1 -169	0.29 1.05	0.29 0.90	20.7 69.5	20.7 37.4	C E	C D
	Canal	NB	T	T	294	292	-2	0.56	0.55	35.0	35.0	D	С
14	Street/Manhattan Bridge & Bowery		R L	R L	337 331	304 272	-33 -59	0.36 0.57	0.33	0.9 16.0	0.8 13.6	A B	A B
		SB	TR	T	156	142	-14	0.68	0.58	12.7	10.3	В	В
		Intersection		R	85	77	-8	-	-	37.7	25.8	- D	- C
	1	NB	T	T	294	292	-2	0.51	0.51	6.7	6.6	A	A
15	Manhattan Bridge & Bowery	SB WB	T R	T R	572 555	491 366	-81 -189	0.37 0.94	0.32 0.62	18.6 54.0	18.0 32.2	B D	B C
<u> </u>	a bowery	Intersection	Л	Λ	333	300	-104	0.74	0.02	30.0	32.2 19.6	C	B
		WB	TR	T	776	715	-61	0.37	0.34	17.1	16.9	В	В
18	6th Avenue &	AID	LT	R L	25 86	25 74	-12	-	-	-	-	-	-
1	Watts Street	NB		T	997	925	-72	0.47	0.43	12.5	11.8	В	В
<u> </u>	+	Intersection NEB	R	R	629	602	-27	1.05	1.00	14.4 82.6	13.9 71.1	B F	B E
				L	168	160	-8	-	-	-	-	-	-
1	Canal Street & 6th	NB	LTR	T R	694 4	663 4	-31 0	0.52	0.50	24.2	23.9	C -	C -
19	Avenue/Laight Street	EB	T	T	657	628	-29	0.83	0.79	40.8	38.5	D	D
	511001	WB	TR	T R	1217 265	1145 249	-72 -16	1.09	1.03	78.6	56.8	E .	E -
1		Intersection		7.	203	247	-10	-	-	59.5	48.1	E	- D

				Lower Manhatta	n Study Area -	No-Action vs Wi	th-Action (Mitig	gation) - MD Pea	ak Hour				
Intersection #	Intersection Name	Approach	Lane Group	Movement		Volume (vph)		V	'/C	, ,	seconds)		OS
3.30331011 #			L L	L2	No-Action 0	With-Action 0	Increment 0	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NEB		L	0	0	0	-	-	-	-	-	-
1	Trinity Place &	NB	LT	L	11	1	-10	-	-	-	-	-	
	Edgar Street	EB	T L	T L	99 254	10 451	-89 197	0.09 0.61	0.01 0.81	10.0 30.4	14.6 32.7	B C	B C
		Intersection								24.7	32.4	С	С
		NB	TR	T R	297 56	389 72	92 16	0.42	0.55	36.9	30.6	D	С
2	Trinity Place &	EB	LT	L	110	79	-31	-	-	-	-	-	-
	Rector Street			T	45	44	-1	0.42	0.32	24.3	22.2	C	C
		Intersection	T	T	1033	970	-63	0.58	0.56	33.1 25.0	28.8 25.0	C	C
	HCT Entrance/Exit	NB	R2	R2	781	977	196	0.41	0.51	0.8	1.2	A	A
3a	& West Street	SB	T	T	1409	1294	-115	0.65	0.61	1.1	1.0 37.0	A D	A
		WB Intersection	L	L	832	964	132	0.63	0.71	35.5 14.2	14.9	В	D B
		NB	T	T	1033	970	-63	0.49	0.46	0.7	0.6	Α	Α
3b	HCT Exit & West Street & West	SB	TR	T R	1409	1294 0	-115 0	0.76	0.71	29.4	28.5	C -	C -
35	Thames Street	WB	R	R	823	973	150	0.73	0.85	39.2	43.9	D	D
		Intersection					200			22.4	24.4	C	С
		NB	L T	L T	344 433	266 334	-78 -99	0.43 0.47	0.33	25.7 12.1	24.3 10.6	C B	C B
4	Chambers Street &	SB	TR	T	226	107	-119	0.77	0.36	48.6	33.0	D	С
4	Centre Street		D	R	15	12	-3	0.21	0.16	35.3 50.4	33.6	D	C
		EB Intersection	R	R	391	269	-122	0.89	0.61	32.9	31.8 23.3	D C	C
			LT	L	75	75	0	-	-	-	-	-	-
		NB	R	T R	515 325	515 207	-118	0.96 0.57	0.96 0.36	58.7 31.2	58.7 27.3	E C	E C
	Canal Street &		R2	R2	58	43	-15	0.31	0.23	29.8	27.8	С	С
5a	Hudson Street/Holland	EB	L	L2	31 328	31 211	0 -117	0.65	0.44	36.5	31.9	- D	- C
	Street/Holland Tunnel On-Ramp	ED	T	T T	328 357	322	-117	0.65	0.44	36.5 13.3	31.9 12.6	В	В
		WB	TR	T	257	104	-153	0.75	0.30	19.1	6.3	В	A
		Intersection		R	42	17	-25	0.19	0.08	11.1 35.6	4.4 36.0	B D	A D
	Canal Street &	EB	T	T	415	365	-50	0.28	0.24	5.6	5.2	A	Α
5b	Canal Street & Holland Tunnel On-	WB	T	Ţ	299	121	-178	0.87	0.35	55.9	29.2	E	С
	Ramp	Intersection	R	R	605	605	0	0.58	0.58	15.2 21.8	15.2 13.5	B C	B B
		NB	T	T	2136	2186	50	0.94	0.96	38.4	41.1	D	D
70	Canal Street S &		R	R L	163 428	125 285	-38 -143	0.40 0.44	0.31 0.29	23.4 53.1	21.3 38.4	C D	C D
7a	West Street	SB	T	T	428 1911	285	-143 103	0.44	0.29	6.5	7.5	A A	A A
		Intersection								26.3	25.7	С	C
1		NB	TR	T R	1533 85	1578 90	45 5	0.62	0.64	20.8	21.2	C -	C
				L L	5	5	0	-	-	-	-	-	-
	West Street &	SB	TR	T	2174	2349	175	0.76	0.82	24.1	26.0	С	С
9	Albany Street			R L	90 105	86 101	-4 -4	-	-	-	-	-	-
		EB	LTR	T	95	95	0	0.60	0.60	36.6	36.9	D	D
		Interception		R	62	69	7	-	-	- 22 7	24.0	-	-
—		Intersection		L	10	11	1	-	-	23.7	24.9	C -	C -
		NB	T	T	1924	1923	-1	0.74	0.76	23.8	24.5	С	С
		SB	T R	T R	2165 170	2304 164	139 -6	0.88 0.42	0.93 0.40	29.6 20.5	34.2 20.1	C	C
10	West Street &	EB	L	L L	144	136	-6 -8	0.42	0.53	39.9	38.6	D	D
10	Vesey Street	LD	R	R	149	163	14	0.45	0.49	34.6	35.9	С	D
		WB	LT	L T	0	0	0	-	-	-	-	-	-
			R	R	0	0	0	-	-	-	-	-	-
		Intersection		т	100/	1040	24	0.00	0.0/	27.3	29.9	C	C
		NB	TR	T	1996 46	1960 44	-36 -2	0.88	0.86	36.9	35.9	D -	D -
		60	L	L	179	165	-14	0.47	0.44	52.9	52.2	D	D
		SB	T R	T R	2063 85	2127 82	-3	0.74 0.36	0.76 0.34	18.7 45.4	19.4 45.1	B D	B D
11	West Street &			L	45	43	-2	-	-	-	-	-	-
''	Chambers Street	EB	LTR	T	0 10	0 11	0	0.18	0.18	33.5	33.4	С	С
			LT	R L	72	80	8	-	-	-	-	-	-
		WB		T	65	65	0	0.52	0.56	42.5	44.0	D	D
		Intersection	R	R	284	271	-13	0.60	0.57	28.2 29.7	27.3 29.3	C	C
		EB	T	T	631	372	-259	0.65	0.38	25.5	20.5	С	С
			R	R	125	124	-1	0.35	0.34	21.6	21.6	C	C
	Canal	WB	T T	T T	697 269	419 255	-278 -14	0.71 0.46	0.42 0.44	27.0 31.5	21.0 31.1	C C	C
14	Street/Manhattan	NB	R	R	431	245	-186	0.44	0.25	1.3	0.5	Α	Α
	Bridge & Bowery	SB	L TR	L T	396 150	189 99	-207 -51	0.69 0.76	0.39 0.41	22.5 17.0	11.2 6.9	C B	B A
		35		R	75	66	-51 -9	-	- 0.41	-	- 0.7	- B	
		Intersection						* **		20.9	17.0	С	В
	Manhattan Bridge	NB SB	T	T	269 621	255 354	-14 -267	0.25 0.40	0.23 0.23	0.7 19.0	0.7 17.0	A B	A B
15	& Bowery	WB	R	R	272	21	-251	0.40	0.02	7.4	6.2	Α	Α
		Intersection	TD	т	705	/05	100	0.27	0.22	11.9	9.9	В	A
	[WB	TR	T R	785 25	685 24	-100 -1	0.37	0.33	17.2	16.7	B -	B -
18	6th Avenue & Watts Street	NB	LT	L	92	69	-23	-	-	-	-	-	-
				T	882	747	-135	0.39	0.33	8.0 12.3	7.6 11.9	A B	A B
—		Intersection NEB	R	R	389	318	-71	0.70	0.57	12.3 40.2	36.6	D B	D B
				L	165	141	-24	-	-	-	-	-	-
1	Canal Street & 6th	NB	LTR	T R	733	625	-108 -1	0.51	0.43	24.0	23.0	C -	C -
19	Avenue/Laight Street	EB	T	T	417	383	-34	0.58	0.54	31.5	30.5	С	С
	Succi	WB	TR	T	703	594	-109	0.69	0.58	22.7	20.3	С	С
		Intersection		R	144	122	-22	-	-	27.3	25.4	- C	- C
											. 20.7		

Part				Lov	ver Manhattan	Study Area - No	o-Action vs Witl	n-Action (No Mi	itigation) - PM I	Peak Hour				
1 Pich Page 1	Intersection #	Intersection Name	Approach				Volume (vph)		V	/C				
THE STREAM THE AME AND THE AME						0	0	0	INU-ACTION	vviin-Action	INU-ACTION	vviin-Action	INU-ACTION -	vviin-Action
Proposition		Trinity Place &		IT	-									
Property Property Property Property Property Property	1			T	T	9	0	-9	0.01	-	9.5	-	Α	-
Printy Place Prin				L	L	134	138	4	0.28	0.29				
Properties Pro				TR								35.8	С	D
A	2		ED	LT					-	-	-	-	-	-
Maintensecond Maintensecon		Rector Street			T	40	39	-1	0.35	0.27				
## HET Grove and Tail ## A PACE 1979 19											23.4	23.2	С	С
West part West	22													
MT For a West 100	34	& West Street	WB								35.8	35.7	D	D
MET CHE A Was 19				T	Т	566	539	-27	0.28	0.26				
Marie Rook Wall Res 1					T	1297	1191	-106	0.69	0.63	31.2	29.6	С	С
Memoration	3b		WB	R										
August Control Stored Control Stor			Intersection				20/	40			25.4	24.6		
Courts Street May R 15 11 4 0.77 0.13 221 315 C C			NB											
Second	4		SB	TR									F	
See		Centre Street		R							131.1	74.1		E
Second Street A			Intersection	IT	1	45	45	0	_					
Canal Street A			NB		T	585	585	0	0.88	0.88	44.6	44.6	D	D
Second Second Age		Canal Street &												
Transid On Remp Web Tild Tild 100 0 100 000 1 131 8 8 8 8 8	5a	Hudson	ED		L2	5	5	0	-	-	-	-	-	-
Ministruction Fig. 2 G			EB											
Const Street 5		·	WB	TR										
Canal Street & Web T T T T T T T T T											31.1	31.5	С	С
Pollar function										0.27		2.9		A
The following The followin	5b									1.23	131.8		F	F
Tay				T	T	2698	2647	-51	0.98	0.97			F D	D D
West Street Sile T	7.0	Canal Street S &	NB				5	0			14.8	14.8	В	
West Street & Part	74	West Street	SB											
West Street & Fig. 1			Intersection	TD	т	1294	1227	5.7	0.49	0.46				
West Street & Chambers Street Sale TR			NB	TK.	R	49	47	-2	-		-		-	-
West Street & R			SB	TR						0.72		25.7		
EB	9				R	80	76	-4	-					
Intersection		,	EB	LTR						0.73	50.7	51.7	- D	D
NB			Interception		R	82	88	6	-	-	- 25.7	- 2/ 1		
1					L						-	-	-	-
West Street See Fig. West Street Barrier See Fig. See														
Vesey Street		West Charles	SB			140	135	-5	0.33	0.31	15.5	15.3	В	В
MB	10		EB											
Intersection		-	\A/ID	LT					- 0.05	- 0.05				
NB			WD	R										
Mest Street & Chambers Street Chambers Stree					Т	1879	1781	-98	0.75	0.71				
SB			NB			38	36	-2	-	-	-	-	-	-
Next Street R			SB				1938	-7	0.72					
Chambers Street		Wast Street 9		R			90		0.47	0.44	67.4	66.6	E	
WB	11		EB	LTR	T	20	20	0					D	D
WB				LT										-
Intersection			WB		T	90	90	0	0.74	0.77	58.8	61.7	E	E
EB			Intersection	K	K	396	394	-2	0.72	0.72				
Canal Street Manhattan Bridge & Bowery SB											52.4	26.5	D	С
Canal Street/Manhattan Bridge & Bowery SB			WB	T	T	542	328	-214	0.52	0.31	22.2	19.4	С	В
Bridge & Bowery SB	14		NB											
R	, ,			L	L	677	370	-307	1.02	0.56	55.1	13.8	E	В
Intersection			SB	TR										
Manhattan Bridge				-							34.4	17.9	С	В
NB	15	Manhattan Bridge												
18	15		WB								8.3	7.0	Α	A
18				TR					0.11	0.09				
Watts Street NB	18			IT										
NEB R R 447 381 -66 0.79 0.67 44.3 39.1 D D	10	Watts Street		LI							35.7	35.1	D	D
To Canal Street & 6th Avenue/Laight Street NB				R	R	447	381	-66	0.79	0.67				
19 Avenue/Light EB T T 396 345 -51 0.53 0.46 30.2 29.1 C C C C C WB TR T 1333 1229 -104 0.96 0.88 38.9 30.1 D C C					L	44	39	-5	-	-	-	-	-	-
Avenue/Laight Street EB T T 396 345 -51 0.53 0.46 30.2 29.1 C C	10		NB	LTR								22.3	-	-
WB 1R 1 1333 1229 -1104 0.90 0.66 36.9 30.1 U C	19				T	396	345	-51	0.53		30.2		С	С
				IK							-	-	-	-
			Intersection								34.6	29.4	С	

				RFK Brido	ge Study Area -	No-Action vs A	ction (Mitigatio	n) - AM Peak Ho	our				
						Volume		V.	/C	De	lay	LC	S
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	Action	∆ Increment	No-Action	Action	No-Action	Action	No-Action	Action
			L	L2	30	30	0	-		-	-	-	-
		NW		L	190	190	0	0.97	0.97	85.0	85.0	F	F
			R	R T	415 1240	415 1161	-79	0.31	0.31 0.52	7.3 21.9	7.3 21.4	A C	A C
1	126th Street and	SB	TR	R	45	41	-4	-	-			-	-
	2nd Avenue			L	40	39	-1	-	-	-	-	=	-
		WB	L	T	30	29	-1	0.80	0.77	57.6	54.7	E	D
		Intersection		R	94	90	-4	-	-	28.9	28.5	C	C
		intersection	L	L	501	497	-4	0.54	0.64	7.4	12.7	Ä	В
		SB	TR	T	754	683	-71	0.58	0.62	6.9	11.1	A	В
				R	55 394	50 460	-5 66	1.06	1.04	90.2	79.3	- F	F
	125th Street and	SW	L	L R	133	460 155	22	1.06	1.04	90.2	79.3	<u>-</u>	<u> </u>
2	2nd Avenue	EB	TR	T	627	678	51	0.86	0.89	44.2	45.4	D	D
		EB	IK.	R	40	40	0	-	-	-	-	-	-
		WB	LT	L T	22 61	11 30	-11 -31	0.22	0.10	28.9	26.4	- C	- C
		Intersection		ı	61	30	-31	0.22	0.10	34.9	37.8	C	D
		NB	TR	T	140	140	0	0.46	0.46	18.5	18.5	В	В
		IND	IK	R	80	80	0	-	-	-	-	-	-
	E 134th Street & St.	SB	LT	L T	145 105	145 105	0	0.62	0.62	20.2	20.2	C	C
11	Ann's Avenue			L	140	140	0	0.02	- 0.02	20.2	- 20.2	-	-
	7 III I 7 II OI GO	EB	LTR	T	120	120	0	0.80	0.80	33.1	33.1	С	С
				R	45	45	0	-	÷	-	-	-	-
		Intersection			0.5	0.5				24.8	24.8	С	С
		NB	LTR	L T	25 105	25 105	0	0.56	0.56	46.0	46.0	- D	- D
			2.11	R	30	30	0	-	-	-	-	-	-
				L	55	55	0	-	-	-	-	-	-
		SB	LTR	T R	70 25	70 25	0	0.57	0.57	48.6	48.6	D	D
22	St Ann's Ave and			L L	50	50 50	0	-	-	-	-	-	-
	Bruckner Blvd	EB	LTR	T	1440	1440	0	0.90	0.90	25.6	25.6	С	С
				R	30	30	0	-	-	-	-	-	-
		WB	LTR	L T	40 480	40 480	0	0.50	0.50	11.6	11.6	- В	- D
		VVD	LIK	R	65	65	0	0.50	0.50	- 11.0	- 11.0	- D	B -
		Intersection					_			24.9	24.9	С	С
		NB	T	T	96	70	-26	0.26	0.19	37.3	36.1	D	D
			R T	R T	17 558	12 567	-5 9	0.02	0.02	7.3 26.5	7.2 27.2	A C	A C
4.7	31st St & Astoria	SB	R	R	174	175	1	0.62	0.63	23.9	24.3	C	C
17	Blvd			L	10	11	1	-		-	-	-	-
		EB	L	T	362	384	22	0.51	0.54	32.6	33.3	С	С
		Intersection		R	26	28	2	-	-	28.8	29.3	- C	C
		NB	L	L	18	15	-3	-		-	-	-	
		IND	L	T	94	75	-19	0.21	0.16	21.0	19.2	С	В
		SB	T	T R	262 131	265 130	3 -1	0.81	0.81	109.4	109.5	F	F
24	Hoyt N & 31st St		L	L L	401	402	1	0.26	0.26	9.3	9.3	Α	A
		WB	T	T	2135	2127	-8	0.66	0.66	14.1	14.0	В	В
			R	R	35	35	0	0.10	0.10	8.5	8.5	Α	A
		Intersection		T	97	74	-23	0.16	0.12	27.3 21.9	27.3 22.6	C	C
		NB	T	R	97	74	-23	- 0.16	- 0.12	- 21.9	- 22.6	-	-
		SB	L	L	20	20	0	-	-	-	-	-	-
3	Hoyt S & 31st St	JD	L	T	643	647	4	0.38	0.38	15.7	15.9	В	В
-	,	EB	L	L	15 893	16 946	1 53	0.79	0.84	46.5	48.7	- D	- D
		LD	R	T R	893	946	6	0.79	0.84	46.5	48.7	D D	D D
		Intersection								33.6	35.5	C	D

				RFK Brid	ge Study Area -		ction (Mitigation	n) - MD Peak Ho	ur				
						Volume			/C	De	elay	LO	OS
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	Action	∆ Increment	No-Action	Action	No-Action	Action	No-Action	Action
				L2	0	0	0	-	-	-	-	-	-
		NW	L	L	120	120	0	0.55	0.55	41.3	41.3	D	D
			R	R	1050	1050	0	0.70	0.70	13.0	13.0	В	B C
1	126th Street and	SB	TR	T R	1042 49	929 42	-113 -7	0.47	0.42	20.7	20.1	C	-
	2nd Avenue			Ĺ	45	42	-3	-	-	-	-	-	-
		WB	L	T	20	18	-2	0.68	0.62	46.0	42.6	D	D
		Intersection		R	90	82	-8	-	-	20.3	19.6	- C	- В
		intersection	L	L	318	305	-13	0.38	0.37	6.2	7.0	A	A
		SB	TR	T	724	627	-97	0.54	0.48	6.8	7.2	Α	Α
				R	45 314	39 322	-6 8	1.02	0.99	80.0	- 70.0	- F	-
	125th Street and	SW	L	L R	129	132	3	1.02	0.99	80.0	72.3	- F	E
2	2nd Avenue	EB	TR	T	555	604	49	0.72	0.78	36.8	39.1	D	D
		LU	TIN.	R	50	50	0	-	-	-	-	-	-
		WB	LT	L T	18 64	6 22	-12 -42	0.19	0.06	28.3	26.6	- C	- C
		Intersection		'	04	22	-42	0.17	0.00	30.6	31.5	C	C
		NB	TR	T	170	170	0	0.51	0.51	14.1	14.1	В	В
				R	80	80	0	-	-	-	-	-	-
	E 134th Street & St.	SB	LT	L T	110 95	110 95	0	0.53	0.53	18.0	18.0	- В	В
11	Ann's Avenue			Ĺ	155	155	0	-	-	-	-	-	-
		EB	LTR	T	140	140	0	0.94	0.94	51.5	51.5	D	D
		Intersection		R	85	85	0	-	-	31.7	31.7	- C	- C
		intersection		L	20	20	0	-	-	31.7	- 31.7	-	-
		NB	LTR	T	140	140	0	0.80	0.80	55.7	55.7	E	E
				R	75	75	0	-	-	-	-	-	-
		SB	LTR	L T	85 60	85 60	0	0.73	0.73	59.3	59.3	- F	- F
	St Apple Ave and	05		R	35	35	0	-	-	-	-	-	-
22	St Ann's Ave and Bruckner Blvd			L	55	55	0	-	-	-	-	-	-
	Bradition Biva	EB	LTR	T R	1260 35	1260 35	0	0.98	0.98	41.0	41.0	D -	D
				L	40	40	0	-	-	-	-	-	-
		WB	LTR	T	760	760	0	0.70	0.70	19.9	19.9	В	В
				R	55	55	0	-	-	-	-	-	-
		Intersection	T	Т	117	30	-87	0.32	0.08	37.1 30.4	37.1 27.0	D C	D C
		NB	R	R	3	3	0	-	-	4.3	4.3	A	A
		SB	T	T	242	240	-2	0.29	0.29	11.6	11.6	В	В
17	31st St & Astoria Blvd		R	R L	115 20	114 21	-1 1	0.38	0.38	14.8	14.9	В	В
	DIVU	EB	L	T	364	382	18	0.46	0.48	22.3	22.6	- C	- C
				R	40	42	2	-	-	-	-	ē	-
		Intersection			100	40	F.			19.5	18.5	В	В
		NB	L	L T	102 41	48 9	-54 -32	0.29	0.11	9.5	11.5	- A	- В
		SB	T	Ť	206	203	-32	0.29	0.11	23.1	23.0	C	C
24	Hoyt N & 31st St	วน		R	70	70	0	-	-	-	-	-	-
	,	WB	L T	L T	215 1684	215 1685	0	0.17 0.67	0.17 0.67	11.2 16.7	11.2 16.8	B B	B B
		v∜D	R	R	65	1685	0	0.67	0.67	16.7	16.8	В	В
		Intersection								16.4	16.8	В	В
		NB	T	Ţ	133	46	-87	0.16	0.06	11.4	22.4	В	С
				R	4 140	5 139	-1	-	-	-	-	-	-
_		SB	L	T	281	279	-2	0.41	0.39	13.2	13.1	В	В
3	Hoyt S & 31st St		L	Ĺ	10	11	1	-	-	-	-	-	-
		EB		T	861	918	57	0.55	0.59	26.0	26.6	C	C
		Intersection	R	R	76	75	-1	0.23	0.23	23.9 20.9	23.8 22.4	C	C
		IIIICI SCCIIOII								20.7	44.4		U

				RFK Brid	ige Study Area -	No-Action vs A	ction (Mitigation	n) - PM Peak Ho	ur				
						Volume		V.	/C	De	lay	LC	OS
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	Action	∆ Increment	No-Action	Action	No-Action	Action	No-Action	Action
			L	L2	25	25	0	-	-	-		-	-
		NW		L	180	180	0	0.93	0.93	76.4	76.4	E	E
			R	R T	765 1472	765 1250	-222	0.55 0.58	0.55 0.49	10.0 22.2	10.0 21.0	B C	B C
1	126th Street and 2nd Avenue	SB	TR	R	35	29	-6	-	-	-	-	-	-
	Zild Avenue			L	47	40	-7	-	-	-	-	-	-
		WB	L	T R	25 51	21 42	-4 -9	0.57	0.47	40.0	36.6	D	D
		Intersection		К	31	42	-9	-	-	24.1	23.3	- C	C
			L	L	663	595	-68	0.69	0.91	9.9	34.1	Ä	C
		SB	TR	T	822	672	-150	0.55	0.65	6.4	15.2	A	В
				R L	59 369	48 594	-11 225	0.88	0.96	- 51.0	52.1	- D	- D
2	125th Street and	SW	L	R	138	222	84	-	-	-	JZ.1 -	-	-
2	2nd Avenue	EB	TR	T	686	724	38	0.81	0.85	39.9	42.5	D	D
				R	20	20	0		-	-	-	-	
		WB	LT	L T	55 176	21 66	-34 -110	0.63	0.19	38.3	28.2	- D	- C
	l	Intersection			170	00	110	0.00	0.17	25.0	36.2	C	D
		NB	TR	T	110	110	0	0.41	0.41	10.9	10.9	В	В
				R	100	100 110	0	-	-	-	-	-	-
	E 134th Street & St.	SB	LT	T	110 50	50	0	0.38	0.38	13.8	13.8	В	В
11	Ann's Avenue			L	155	155	0	-	-	-	-	-	-
		EB	LTR	T	140	140	0	0.78	0.78	30.3	30.3	С	С
		Intersection		R	30	30	0	-	-	20.5	20.5	- C	-
		intersection		L	20	20	0	-	-	20.5	20.5	-	C -
		NB	LTR	T	95	95	0	0.50	0.50	43.0	43.0	D	D
				R	30	30	0	-	-	-	-	-	-
		SB	LTR	L T	35 20	35 20	0	0.29	0.29	39.6	39.6	D	- D
		36	LIK	R	25	25	0	- 0.29	- 0.29	39.0	39.0	-	-
22	St Ann's Ave and Bruckner Blvd			Ĺ	50	50	0	-	1	-		-	-
	Bruckrier bivu	EB	LTR	T	1300	1300	0	0.85	0.85	22.5	22.5	С	С
				R L	45 25	45 25	0	-	-	-	-	-	-
		WB	LTR	T	610	610	0	0.46	0.46	11.4	11.4	В	В
				R	65	65	0	-	1	-	1	-	-
		Intersection	_	_						21.1	21.1	С	С
		NB	T R	T R	42 5	11 3	-31 -2	0.11 0.01	0.03	27.5 4.4	26.3 4.3	C A	C A
		CD	T	T	478	446	-32	0.58	0.54	76.7	76.5	E	E
17	31st St & Astoria	SB	R	R	222	204	-18	0.75	0.69	94.5	92.0	F	F
.,	Blvd	EB	L	L	16	16 399	0	0.50	0.52	23.0	23.2	- C	-
		LD	L	T R	388 48	399 49	11	0.50	0.52	23.0	25.2		C -
		Intersection								57.3	56.2	E	Е
		NB	L	L	17	4	-13	-	-	-	-		-
				T	47 121	31 73	-16 -48	0.12 0.36	0.06 0.29	27.8 38.4	23.0 37.4	C D	C D
24	Hard No. of 15:	SB	T	R	70	67	-46	-	-	- 30.4	- 37.4	-	-
24	Hoyt N & 31st St		L	L	513	514	1	0.34	0.34	9.7	9.7	Α	A
		WB	T	T	1523	1463	-60	0.47	0.45	10.7	10.5	В	В
	i	Intersection	R	R	35	35	0	0.07	0.07	7.8 13.3	7.8 12.2	A B	A B
			-	T	53	24	-29	0.08	0.04	37.4	34.9	D	С
		NB	T	R	5	3	-2	-	-	-	-	-	-
		SB	L	L	20	20	0	- 0.00	- 0.07	- 10.0	10.1		-
3	Hoyt S & 31st St			T L	614 11	567 11	-47 0	0.39	0.36	13.2	10.1	B -	B -
		EB	L	T	1071	1104	33	0.61	0.62	33.2	33.6	C	C
			R	R	86	83	-3	0.25	0.25	29.3	29.1	С	С
		Intersection								26.4	25.9	С	С

				RFK Bridg	je Study Area - N	No-Action vs Ac	tion (No Mitigati	ion) - LN Peak H	our				
						Volume		V.	/C	De	lay	LC)S
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	Action	∆ Increment	No-Action	Action	No-Action	Action	No-Action	Action
			L	L2	5	5	0	-	-	-		-	-
		NW		L	75	75	0	0.36	0.36	35.3	35.3	D	D
			R	R T	535 560	535 342	-218	0.40	0.40	8.1 18.2	8.1 17.4	A B	A B
1	126th Street and	SB	TR	R	20	11	-218	- 0.24	0.14	- 10.2	- 17.4	- D	- D
	2nd Avenue			L	20	20	0	-	-	-	-	-	-
		WB	L	T	35	33	-2	0.46	0.44	35.7	35.1	D	D
				R	60	56	-4	-	-	-	-	-	
		Intersection	L	L	109	91	-18	0.13	0.11	16.6 5.7	15.9 6.3	B A	B A
		SB		T	456	266	-190	0.13	0.18	6.3	6.4	A	A
			TR	R	20	10	-10	-	-	-	-	-	-
		SW	L	L	174	198	24	0.61	0.70	37.6	40.4	D	D
2	125th Street and			R T	153	174	21	- 0.70	- 0.07	- 240	- 40.0	-	-
	2nd Avenue	EB	TR	R R	535 50	704 50	169 0	0.68	0.87	34.9	43.9	C -	D -
		1475	1.7	L	9	4	-5	-	-	-	-	-	-
		WB	LT	T	70	10	-60	0.15	0.03	27.5	26.2	С	С
		Intersection								23.8	33.1	С	С
		NB	TR	T	100	100	0	0.21	0.21	17.0	17.0	В	В
				R	20 40	20 40	0	-	-	-	-	-	-
4.	E 134th Street & St.	SB	LT	T	50	50	0	0.18	0.18	10.9	10.9	В	В
11	Ann's Avenue			L	190	190	0	-	-	-		-	-
		EB	LTR	T	90	90	0	0.70	0.70	25.0	25.0	С	С
				R	35	35	0	-	-	-	-	-	-
		Intersection			10	10	0			20.6	20.6	С	С
		NB	LTR	L T	55	55	0	0.24	0.24	33.0	33.0	- C	C
				R	15	15	0	-	-	-	-	-	-
				L	30	30	0	-	1	-	-	-	-
		SB	LTR	T	10	10	0	0.25	0.25	35.0	35.0	С	С
22	St Ann's Ave and			R	45 40	45 40	0	-	-	-	-	-	-
22	Bruckner Blvd	EB	LTR	L T	1515	1515	0	0.88	0.88	26.6	26.6	C	C
				R	10	10	0	-	-	-	-	-	-
				L	10	10	0	=		-		=	-
		WB	LTR	T	500	500	0	0.33	0.33	12.2	12.2	В	В
		Intersection		R	25	25	0	-	-	23.7	23.7	- C	- C
			T	T	120	26	-94	0.34	0.07	30.7	26.8	C	C
		NB	R	R	13	6	-74	0.02	0.01	4.5	4.5	A	A
		SB	T	T	345	308	-37	0.47	0.41	9.2	7.4	A	А
17	31st St & Astoria	35	R	R	165	147	-18	0.39	0.34	10.0	8.4	A	A
	Blvd	EB	L	L T	10 286	10 328	0 42	0.32	0.36	20.2	20.8	C	C
		LD	L	R	15	17	2	- 0.32	-	- 20.2	-	-	-
		Intersection								15.5	13.6	В	В
		NB	L	L	80	12	-68	=	-	-	-	-	-
		.40		Ţ	51	25	-26	0.23	0.05	7.7	10.1	A	В
		SB	T	T R	220 40	167 38	-53 -2	0.28	0.23	21.7	21.1	C -	C -
24	Hoyt N & 31st St		L	L	440	444	4	0.33	0.33	45.6	40.3	D D	
		WB	Ť	T	1105	1063	-42	0.42	0.41	13.2	13.1	В	В
] .		R	R	20	20	0	0.04	0.04	10.4	10.4	В	В
		Intersection		-	10/	24	05	0.1/	0.04	21.2	20.8	C	С
		NB	T	T R	126 4	31 5	-95 1	0.16	0.04	8.3	16.8	A	В
		-		L	205	203	-2					-	-
3	Hout C C 24-t C	SB	L	T	455	408	-47	0.65	0.58	26.9	31.6	С	С
3	Hoyt S & 31st St		L	L	5	6	1	-	-	-	-	-	-
		EB		Ţ	744	882	138	0.44	0.52	24.3	25.4	С	С
		Interes	R	R	55	47	-8	0.17	0.15	22.7	22.3	C	C
		Intersection								24.1	27.6	С	С

						Volume (vph)		V	'/C	Delay (s	seconds)	LO	OS
ntersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		ND	L	L	20	19	-1	0.09	0.09	4.1	4.1	А	А
	5 0 7 1 1 0 1 1 0 0 1	NB	T	T	826	773	-53	0.60	0.56	6.8	6.4	Α	Α
1	E 37th Street & 3rd	WD	T	T	728	745	17	0.58	0.59	18.6	18.9	В	В
	Avenue	WB	R	R	263	271	8	0.75	0.78	47.9	49.6	D	D
		Intersection								17.4	18.1	В	В
			L	L	438	415	-23	0.65	0.62	33.2	32.2	С	С
		SB	T	Т	1006	970	-36	0.52	0.50	12.1	11.8	В	В
	E 36th Street & 2nd		Ť	Т	431	408	-23	0.48	0.45	27.5	27.2	C	C
2	Avenue	EB	TR	R	47	45	-2	-	-	-	-	-	-
		WB	ı	1	515	515	0	1.67	1.61	340.7	311.9	F	F
		Intersection								93.6	88.9	F	F
			LT	ı	94	88	-6	-	-	-	-	-	-
		NB	T	T	1005	949	-56	0.54	0.51	19.4	18.9	В	В
			R	R	104	99	-5	1.02	0.98	116.9	104.1	F	F
3	E 34th Street & 3rd	EB	T	Т	416	379	-37	1.01	0.92	73.5	53.9	Е	D
	Avenue		T	Т	402	380	-22	1.04	0.98	84.1	69.6	F	Е
		WB	R	R	50	48	-2	0.18	0.18	21.3	21.2	С	С
	1	Intersection								47.5	39.9	D	D
			LT	L	109	103	-6	-	-	-	-	-	-
	E 0511 01 1 0 0 1	NB	T	T	946	894	-52	0.48	0.46	2.5	2.4	Α	Α
4	E 35th Street & 3rd	WD	TR	T	574	535	-39	0.61	0.57	26.4	25.5	С	С
	Avenue	WB	R	R	55	52	-3	0.16	0.15	20.7	20.5	С	С
		Intersection								11.0	10.6	В	В
			L	L	370	363	-7	0.66	0.65	34.1	34.1	С	С
		SB	TR	T	1453	1422	-31	0.83	0.81	24.7	23.7	С	С
	E 24th Ctroot 0 2nd		I IX	R	120	117	-3	1.18	1.15	162.2	150.8	F	F
5	E 34th Street & 2nd	EB	T	T	572	561	-11	0.76	0.74	34.8	34.2	С	С
	Ave		R	R	116	114	-2	0.63	0.62	42.3	41.7	D	D
		WB	T	T	195	191	-4	0.51	0.50	30.5	30.3	С	С
		Intersection								35.3	34.1	D	С
		SB	T	T	1393	1358	-35	0.56	0.55	16.1	16.2	В	В
		30	TR	R	175	172	-3	0.55	0.54	19.5	19.7	В	В
6	E 35th Street & 2nd	EB	R	R	473	468	-5	0.64	0.64	26.8	26.6	С	С
U	Ave	WB	T	T	87	86	-1	0.14	0.14	18.3	18.3	В	В
		VVD	L	L	77	76	-1	0.14	0.14	18.9	18.9	В	В
		Intersection								19.0	19.0	В	В

			Queens Mid	town Tunnel (M	anhattan) Stud	y Area - No-Actio	on vs With-Actio	, ,	,				
						Volume (vph)		V	'/C	Delay (s	seconds)	LO	OS
Intersection #	Intersection NMDe	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NB	L	L	44	37	-7	0.16	0.15	6.5	7.7	Α	A
	F 0711 01 1 0 0 1	NB	T	T	635	553	-82	0.49	0.47	5.9	7.3	Α	Α
1	E 37th Street & 3rd Avenue	WB	T	T	577	638	61	0.95	0.98	49.3	52.9	D	D
	Avenue	VVD	R	R	265	303	38	0.73	0.79	44.8	47.8	D	D
		Intersection								29.2	34.3	С	С
		SB	L	L	242	248	6	0.43	0.46	28.6	29.9	С	С
	E 36th Street & 2nd	3D	T	T	1035	990	-45	0.50	0.49	11.7	12.1	В	В
2	Avenue	EB	T	T	1278	1335	57	1.34	1.35	189.4	189.8	F	F
	Avenue	ED	TR	R	85	83	-2	-	-	-	-	-	-
		Intersection								106.1	109.7	F	F
			LT	L	24	21	-3	=	-	-	-	-	-
		NB	T	T	1075	949	-126	0.48	0.42	18.5	17.8	В	В
	F 34th Street & 3rd		R	R	173	162	-11	0.78	0.73	47.2	41.9	D	D
3	Avenue	EB	T	T	445	367	-78	0.96	0.80	62.0	39.1	E	D
	Avenue	WB	T	T	450	446	-4	0.98	0.97	65.0	63.1	E	E
		WB	R	R	80	83	3	0.30	0.31	23.4	23.6	С	С
		Intersection								38.9	33.8	D	С
		NB	LT	L	83	76	-7	-	-		-		-
	E 35th Street & 3rd	110	T	T	1072	956	-116	0.82	0.73	14.3	11.6	В	В
4	Avenue	WB	TR	T	519	490	-29	0.57	0.54	25.4	24.8	С	С
	Avenue		R	R	60	58	-2	0.19	0.19	21.4	21.3	С	С
		Intersection								18.0	16.3	В	В
			L	L	229	226	-3	0.37	0.37	29.5	30.0	С	С
		SB	TR	T	1325	1271	-54	0.73	0.70	21.9	21.2	С	С
	E 34th Street & 2nd			R	45	43	-2	0.34	0.33	18.9	18.5	В	В
5	Ave	EB	T	T	591	577	-14	0.75	0.73	34.3	33.6	С	С
			R	R	130	126	-4	0.59	0.57	37.9	36.9	D	D
		WB	T	Ť	253	234	-19	0.63	0.58	33.8	32.2	С	С
		Intersection		_						27.4	26.7	С	С
		SB	T	T	1040	992	-48	0.58	0.55	12.1	11.4	В	В
			TR	R	80	81	1	-	-	-	-	-	-
6	E 35th Street & 2nd	EB	R	R	476	467	-9	0.62	0.61	26.1	25.9	С	С
	Ave	WB	T	Т	88	86	-2	0.15	0.14	18.4	18.3	В	В
			L	L	83	81	-2	0.15	0.15	19.0	19.0	В	В
	1	Intersection	1	l	l	1		1	1	16.6	16.1	В	В

			Queens Mid	town Tunnel (M	lanhattan) Stud	y Area - No-Acti	on vs With-Acti	on (No Mitigatio	on) - PM Peak H	our			
				,	,	Volume (vph)		, ,	'/C		seconds)	L	OS
Intersection #	Intersection NPMe	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NB	L	L	25	22	-3	-	-	-	-	-	-
	E 37th Street & 3rd	IND	T	T	873	780	-93	0.52	0.46	2.9	2.6	Α	A
1	Avenue	WB	T	T	618	628	10	0.51	0.51	17.2	17.3	В	В
	Avenue	WD	R	R	274	293	19	0.69	0.73	42.1	44.7	D	D
		Intersection								14.0	15.3	В	В
		SB	L	L	364	421	57	0.55	0.64	30.2	32.3	С	С
	E 36th Street & 2nd	30	T	T	1567	1488	-79	0.67	0.64	14.4	13.7	В	В
2	Avenue	EB	T	T	1044	1209	165	0.79	0.90	33.4	39.6	С	D
	Avenue	LD	TR	R	61	59	-2	-	-	-	-	-	-
		Intersection								23.4	26.8	С	С
			LT	L	69	64	-5	-	-		-	-	-
		NB	T	T	1418	1297	-121	0.65	0.59	21.2	20.2	С	С
	E 34th Street & 3rd		R	R	124	118	-6	0.68	0.65	38.6	36.2	D	D
3	Avenue	EB	T	T	386	320	-66	0.81	0.67	40.3	31.9	D	С
	Avenue	WB	T	T	431	403	-28	1.04	0.97	80.6	63.5	F	E
			R	R	79	75	-4	0.30	0.28	23.4	23.1	С	С
		Intersection								35.9	30.9	D	С
		NB	LT	L	173	163	-10	-	-	-	-	-	-
	E 35th Street & 3rd		T	T	1324	1209	-115	0.81	0.75	9.0	7.9	Α	A
4	Avenue	WB	TR	T	429	375	-54	0.48	0.42	23.9	22.9	С	С
	7.170.1100		R	R	35	31	-4	0.13	0.11	20.4	20.1	С	С
		Intersection								12.6	11.5	В	В
			L	L	259	251	-8	0.42	0.41	24.3	24.8	С	С
		SB	TR	T	1657	1581	-76	0.84	0.80	28.5	21.7	С	С
	E 34th Street & 2nd			R	55	52	-3	1.28	1.21	231.7	207.1	F	F
5	Ave	EB	T	T	428	431	3	0.58	0.58	29.4	29.4	С	С
			R	R	111	108	-3	0.60	0.58	39.0	38.0	D	D
		WB	T	T	202	182	-20	0.50	0.45	30.0	28.8	C	С
		Intersection								33.5	28.9	С	С
		SB	Т	T	1533	1454	-79	0.61	0.58	10.8	10.5	В	В
	<u> </u>		TR	R	95	93	-2	0.29	0.29	10.2	10.2	В	В
6	E 35th Street & 2nd	EB	R	R	437	430	-7	0.56	0.55	24.8	24.5	C	С
	Ave	WB	T	T	1	0	-1	-	-	17.0	-	В	-
			L	L	1	0	-1	-	-	17.0	-	В	-
		Intersection	l			l		l		13.8	13.6	В	В

			Queens Midto	wn Tunnel (Mar	nhattan) Study	Area - No-Actior	n vs With-Action	n (Mitigation) - I	ate Night Peak	Hour			
						Volume (vph)		V	/C	Delay (s	seconds)	L	OS
Intersection #	Intersection NLNe	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NB	L	L	25	20	-5	0.08	0.08	3.7	7.2	Α	A
	E 37th Street & 3rd	IND	T	T	1063	893	-170	0.55	0.56	4.9	9.0	Α	Α
1	Avenue	WB	T	T	372	477	105	0.29	0.33	14.4	11.6	В	В
	Avenue	WD	R	R	339	471	132	0.98	0.99	78.4	71.2	E	E
		Intersection								21.8	26.5	С	С
		SB	L	L	421	628	207	0.53	0.78	29.6	37.4	С	D
	E 36th Street & 2nd	30	T	T	1530	1493	-37	0.67	0.66	14.3	14.0	В	В
2	Avenue	EB	T	T	580	816	236	0.56	0.76	28.7	33.3	С	С
	Avenue	ED	TR	R	50	43	-7	-	-	-	-	-	-
		Intersection								20.3	24.4	С	С
			LT	L	39	32	-7	-	-	-	-	-	-
		NB	T	T	1257	1069	-188	0.52	0.44	18.9	17.9	В	В
	E 34th Street & 3rd		R	R	193	175	-18	0.57	0.52	25.8	24.1	С	С
3	Avenue	EB	T	Т	500	417	-83	0.52	0.43	24.5	23.1	С	С
	Avenue	WB	T	T	321	350	29	0.36	0.39	22.1	22.5	С	С
		WD	R	R	100	113	13	0.33	0.37	23.6	24.5	С	С
		Intersection								21.3	20.6	С	С
		NB	LT	L	54	47	-7	-	-	-	-	-	-
	E 35th Street & 3rd	IND	T	T	1303	1135	-168	0.52	0.45	4.3	5.1	Α	Α
4	Avenue	WB	TR	T	461	427	-34	0.51	0.47	24.3	23.7	С	С
	Avenue	WD	R	R	60	57	-3	0.17	0.16	20.7	20.5	С	С
		Intersection								10.1	10.7	В	В
			L	L	350	330	-20	0.57	0.53	26.7	25.5	С	С
		SB	TR	T	1406	1357	-49	0.72	0.70	14.3	12.9	В	В
	E 34th Street & 2nd		TIX.	R	105	82	-23	0.28	0.22	8.0	7.0	Α	A
5	Ave	EB	T	T	623	631	8	0.66	0.66	29.9	29.9	С	С
	AVC		R	R	75	72	-3	-	-	-	-	-	-
		WB	T	T	210	119	-91	0.28	0.16	24.5	23.1	С	С
		Intersection								20.6	19.7	С	В
		SB	T	T	1485	1438	-47	0.68	0.66	11.5	11.2	В	В
			TR	R	95	98	3	-	-	,	-	-	=
6	E 35th Street & 2nd	EB	R	R	295	276	-19	0.37	0.34	21.2	20.8	С	С
Ü	Ave	WB	T	T	86	59	-27	0.13	0.09	18.2	17.8	В	В
		VVD	L	L	81	55	-26	0.13	0.09	18.6	18.1	В	В
		Intersection								13.5	13.0	В	В

				Upper East St	udy Area - No-	Action vs With-	Action (Mitigati			Deley (OC.
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	Volume (vph) With-Action	Increment	No-Action	/C With-Action	No-Action	with-Action	No-Action	OS With-Action
				L	14	11	-3	-	With-Action	NO-ACTION	- vvitii-Action		
	E 60th Street &	NB	LTR	T R	296 487	226 371	-70 -116	-	-	-	-	-	-
1	Queensboro Bridge Exit	EB	LT	L	0	0	0	-	-		-	-	
		Intersection	Unsignalized	T	10	10	0	-	-	-	-	-	-
		NB	L	L T	94 1000	68 713	-26 -287	0.24 0.55	0.18 0.40	19.8 22.1	19.6 20.7	B C	B C
2	E 60th Street & 3rd Ave	WB	T	T	384	408	24	0.72	0.74	19.1	21.0	В	C
		Intersection	R	R	242	250	8	1.11	1.09	110.3 33.5	34.1	C	C
		NB SB	T	T	670 447	670 318	-129	0.38	0.38	20.3 18.9	20.3 18.0	C B	C B
		EB	L T	L T	219 0	90	-129 0	0.29 0.31	0.12 0.13	28.7 29.0	25.6 25.8	C C	C C
3	E 60th Street & York Ave		R	R	50	50	0	0.13	0.13	25.7	25.7	Č	Č
		WB	L T	L T	0	0	0	-	-		-	-	-
		Intersection	R	R	0	0	0	-	-	21.4	20.3	- C	C
		EB	T	T R	1023	727 14	-296 -1	1.36 0.11	0.97 0.11	198.1 25.5	55.5 25.4	F	E C
	E 59th Street & 2nd	EB	RR2	R2	15 15	14	-1	-	-	-	-	- C	-
4	Ave	SB	L2 L2L	L2 L	1332 5	885 4	-447 -1	0.88	0.58	27.1	13.9	C -	B -
		Intersection	T	T	856	811	-45	0.46	0.43	7.1 75.9	10.9 25.4	A E	B C
		NWB	L2	L2	769	828	59	0.54	0.58	20.9	21.6	С	С
			L LT	L L2	577 10	621 10	44 0	0.65	0.69	24.1	25.5	C -	C -
5	E 60th Street & 2nd Ave	SB	R	T R	1420 39	871 27	-549 -12	0.73 0.13	0.45	23.6 16.0	18.3 15.4	C B	B B
		WB	LT	L T	4	1 10	-3 0	0.03	0.02	15.4	15.4	. В	. В
		Intersection								22.8	21.3	С	С
	E 60th Street & 1st	NB	TR	T R	1196 47	859 34	-337 -13	0.51	0.37	16.5	14.8	B -	B -
6	Ave	EB	L T	L T	275 222	275 106	0 -116	0.77 0.20	0.77 0.10	43.8 16.4	43.8 15.4	D B	D B
		Intersection		ī	939	729	-210	0.58	0.45	20.6	20.9	C	C B
	E 60th Street &	SB	TR	R	78	61	-17	0.25	0.19	17.9	17.0	В	В
7	Lexington Ave	WB	L T	L T	101 377	101 375	-2	0.34 0.45	0.34 0.45	34.1 34.8	33.7 34.5	C	C C
		Intersection		L	104	86	-18			25.0	24.5	С	С
	E 60th Street &	NB	LT	T	917	751	-166	0.53	0.43	21.5	19.8	C	В
8a	Park Ave NB	WB	TR	T R	357 98	357 79	0 -19	0.59	0.56	30.6	29.7	C -	C -
		Intersection		T	1198	1166	-32	0.68	0.66	24.5 24.0	23.4 23.6	C	C
8b	E 60th Street &	SB	TR	R	95 80	92 80	-3 0	-	-	-	-	-	-
OD	Park Ave NB	WB	LT	T	381	363	-18	0.58	0.56	15.3	13.7	В	В
		Intersection	L	L	134	105	-29	0.32	0.25	21.6 20.5	20.9 19.3	C	C B
9	E 60th Street &		T	T T	782 348	612 346	-170 -2	0.61 0.59	0.48 0.55	18.3 21.7	15.8 21.1	B C	B C
	Madison Ave	WB Intersection	TR	R	128	109	-19	-	-	19.7	18.2	-	В
		NB	T	T	681	491	-190	0.61	0.44	11.2	8.9	B B	A
10	E 62nd Street & Queensboro Bridge	EB	R LT	R L	715 10	517 8	-198 -2	0.62	0.45	13.9	10.3	B -	B -
	Exit	Intersection	LI	T	232	184	-48	0.41	0.32	30.6 15.0	29.4 12.8	C B	C B
		SB	T R	T R	851 274	652 210	-199 -64	0.90 0.78	0.69 0.60	27.1 29.1	17.3 20.2	C	B C
11	E 60th Street & 5th Ave	WB	L	L	153	150	-3	0.44	0.43	27.4	27.2	С	С
		Intersection	T	T	329	301	-28	0.41	0.37	24.2 26.8	23.7 20.5	C C	C C
		NB	TR	T R	472 527	414 431	-58 -96	0.81	0.71 0.52	40.9 7.9	35.2 4.9	D A	D A
		SB	L	L	353 372	332 342	-21 -30	0.65 0.47	0.55 0.44	39.2 13.8	29.6 13.3	D B	C B
12	E 63rd Street & York Ave	JD	TR	R	75	74	-1	-	-		-	-	-
		WB	L TR	L T	270 251	216 212	-54 -39	0.56 0.58	0.46 0.49	42.3 39.9	39.3 37.7	D D	D D
		Intersection	- AN	R	74	65	-9	-	-	26.5	23.1	- C	- C
13	E 53rd Street &	SB SWB	R R	R R	233 258	221 233	-12 -25	-	-	-	-		-
	FDR Drive	Intersection	Unsignalized						0.45	00.1	20.0		
14	E 61st Street & 5th Ave	SB WB	T L	T L	867 258	657 205	-210 -53	0.57 0.26	0.43 0.20	22.4 18.8	20.1 18.3	C B	C B
	,,,,,	Intersection	17	L	89	78	-11	-	-	21.6	19.7	C -	B -
15	E 65th Street & 5th	SB	LT T	T	773 781	681 755	-92 -26	0.54 0.97	0.47 0.94	4.9 55.7	4.7 49.9	A E	A D
13	Ave	EB	R	R	338	327	-11	0.97	0.93	69.7	63.1	E	E
		Intersection SB	TR	T	798	702	-96	0.70	0.63	36.0 21.0	33.6 19.5	D C	C B
16	E 66th Street & 5th			R L	318 64	298 57	-20 -7	-	-	-	-	-	-
	Avenue	WB	LT	T	410	363	-47	0.54	0.48	28.1 23.1	27.1 21.7	C	C
				L	74	67	-7	-	-	-	-	-	-
		SB	LTR	T R	660 99	601 87	-59 -12	0.73	0.66	29.2	27.4	C .	C -
17	E 79th Street & 5th Ave	EB	T R	T R	397 243	375 229	-22 -14	0.74 1.03	0.70 0.97	39.8 101.2	38.1 86.7	D F	D F
		WB	L T	L T	98 441	90 390	-8 -51	0.87	0.80	90.7	78.7 23.2	F C	E C
		Intersection								41.7	38.5	D	D
		NB	LTR	L T	53 380	48 307	-5 -73	0.46	0.38	22.4	20.8	- C	- C
				R L	0	0	0	-	-		-	-	-
18	E 71st Street &	SB	LTR	T	384	328	-56	0.43	0.37	21.7	20.7	С	С
	York Ave		L	R L	59 160	52 157	-7 -3	0.42	0.41	31.5	31.3	- C	- C
	1	WB	TD	T	125	124	7	0.62	0.59	37.9	36.6	D	D
			TR	R	114	104	-10	-	-	-	-	-	-

			Up	per East Study	Area - No-Actio	n vs With-Action Volume (vph)	n (No Mitigation		Peak Hour VC	Delay (seconds)		OS
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NB	LTR	L T	15 277	11 210	-4 -67	-	-	-	-	-	-
1	E 60th Street & Queensboro Bridge Exit	EB	LT	R L T	628 5 15	477 5 8	-151 0 -7	-	-		-	-	-
		Intersection	Unsignalized	L	74	50	-24	0.19	0.13	19.0	18.1	В	В
	E 60th Street & 3rd	NB	T	T	969	650	-319	0.58	0.39	22.7	20.0	С	В
2	Ave	WB	T R	T R	264 275	265 273	-2	0.55 1.05	0.56 1.04	4.8 88.7	4.5 85.5	A F	A F
		Intersection NB	Т	Т	525	525	0	0.31	0.31	29.4 19.3	29.0 19.3	C B	C B
		SB	T	T L	681 412	437 227	-244 -185	0.39	0.25 0.30	20.4 35.6	18.6 28.9	C D	B
3	E 60th Street &	EB	T R	T R	0	0	0	0.57	0.32	36.5	29.3	D	С
3	York Ave		L	L	35 0	35 0	0	0.10	0.10	25.3	25.3	C -	- C
		WB	T R	T R	0	0	0	-	-		-	-	
		Intersection	T	T	875	112	-763	1.02	0.13	24.0 65.5	21.0 20.7	C E	C
		EB	RR2	R R2	112 70	65 64	-47 -6	0.47	0.34	27.2	24.4	C -	C -
4	E 59th Street & 2nd Ave	SB	L2 L2L	L2 L	1044 6	120 3	-924 -3	0.73	0.08	46.4	17.1	D	В
			T	T	1579	1367	-212	0.73	0.63	40.7	33.4	D	C
		Intersection NWB	L2	L2	963	975	12	0.79	0.80	47.7 28.8	30.6 29.5	D C	C
			L LT	L L2	514 20	520 13	-7	0.64	0.64	25.4	25.6	C -	C -
5	E 60th Street & 2nd Ave	SB	R	T R	1656 20	509 13	-1147 -7	0.87 0.06	0.27 0.04	40.8 14.9	17.5 14.6	D B	B B
		WB	LT	L	10	6	-4 0	0.01	0.01	15.2	15.2	- B	B
		Intersection		T	940	618	-322	0.44	0.29	34.2 15.7	25.3	C B	C B
	E 60th Street & 1st	NB	TR	R	84	55	-29		-		14.1		
6	Ave	EB	L T	L T	280 363	278 207	-2 -156	0.81 0.34	0.80 0.19	45.6 17.8	45.1 16.3	D B	D B
		Intersection		T	938	644	-294	0.88	0.60	21.3 33.6	22.2 22.2	C	C
7	E 60th Street &	SB	TR L	R L	69	47 62	-22 -4	0.26 0.25	0.18 0.24	19.4 18.7	17.8 18.6	B B	B B
,	Lexington Ave	WB	T	T	272	253	-19	0.29	0.27	17.9	17.9	В	В
		Intersection NB	LT	L	64	49	-15	-	-	29.0	20.7	C -	C -
8a	E 60th Street &	WB	TR	T	900 266	688 225	-212 -41	0.51 0.42	0.39	21.6 28.3	19.6 27.6	C	B C
	Park Ave NB	Intersection	IK	R	75	75	0	-	-	23.4	21.9	C	C
		SB	TR	T	915 99	858	-57	0.55	0.52	22.1	21.5	C	c
8b	E 60th Street & Park Ave NB	WB	LT	R L	116	93 116	-6 0						-
		Intersection		Т	214	158	-56	0.43	0.37	13.8 20.0	13.0 19.5	B B	B B
		NB	L T	L T	109 652	83 494	-26 -158	0.27 0.51	0.21	19.7 14.5	18.6 12.8	B B	B B
9	E 60th Street & Madison Ave	WB	TR	T R	243 70	243 8	0 -62	0.40	0.28	19.6	20.7	В	C
		Intersection	т	T	810	763	-47	0.67	0.63	16.5 12.3	15.7 11.5	B B	B B
40	E 62nd Street &	NB	R	R	779	735	-44	0.69	0.65	16.0	14.6	В	В
10	Queensboro Bridge Exit	EB	LT	L T	0 206	0 147	0 -59	0.33	0.23	29.4	28.3	- C	- C
		Intersection SB	T	Т	632	433	-199	0.71	0.49	15.4 21.5	14.0 16.1	B C	B B
11	E 60th Street & 5th		R L	R L	286 151	196 150	-90 -1	1.01 0.42	0.69 0.42	76.2 27.0	29.5 26.9	E C	C C
	Ave	WB	T	T	201	176	-25	0.25	0.22	22.1	21.7	С	С
		Intersection NB	TR	Ţ	424	363	-61	0.73	0.62	36.8	21.4 32.3	C D	C
			L	R L	432 428	320 376	-112 -52	0.67 0.45	0.50 0.37	16.1 16.4	11.8 11.5	B B	B B
12	E 63rd Street &	SB	TR	T R	463 70	412 69	-51 -1	0.40	0.35	8.0	7.4	A -	A -
	York Ave	WB	L	L T	317 258	210 188	-107 -70	0.92 0.94	0.64	85.0 73.6	56.2 50.8	F E	E D
		Intersection	TR	R	65	50	-15	-	-	34.2	23.8	C	C
13	E 53rd Street &	SB SWB	R R	R R	149 353	134 300	-15 -53			-	-	-	-
13	FDR Drive	Intersection	Unsignalized			•						1	
14	E 61st Street & 5th Ave	SB WB	T L	T L	628 290	449 180	-179 -110	0.41 0.28	0.29 0.17	19.8 19.1	18.4 17.9	B B	B B
	Ave	Intersection	17	L	85	76	-9	-	-	19.6	18.2	В -	В .
15	E 65th Street & 5th	SB	LT T	T	533 638	474 607	-59 -31	0.39	0.35 0.71	7.6 34.2	7.5 32.8	A C	A C
10	Ave	EB	R	R	299	284	-15	0.75	0.71	54.5	48.9	D	D
		Intersection SB	TR	Т	538	478	-60	0.65	0.60	27.5 20.2	26.3 19.1	C C	C B
16	E 66th Street & 5th Avenue	WB	LT	R L	410 80	388 72	-22 -8	-	-	-	-	-	-
	, venue	Intersection		T	474	427	-47	0.66	0.59	30.8 24.1	29.2 22.9	C C	C C
		SB	LTR	L T	65 445	61 417	-4 -28	0.66	0.61	27.7	26.6	- C	- C
	E 70th Ct			R	150	137	-13	-	-			-	
17	E 79th Street & 5th Ave	EB	T R	T R	458 189	425 175	-33 -14	0.72 0.92	0.66 0.85	38.7 78.1	36.9 66.5	D E	D E
		WB	L T	L T	70 543	65 491	-5 -52	0.82 0.56	0.76 0.50	92.6 25.1	83.4 24.2	F C	F C
		Intersection		L	64	57	-7	-	-	36.9	34.4	D -	C -
		NB	LTR	T	390	307	-83	0.49	0.39	23.0	21.1	С	C
				R L	0	0	0		-	-	-	-	-
18	E 71st Street & York Ave	SB	LTR	T R	348 55	262 44	-86 -11	0.40	0.30	21.2	19.7	C -	B -
		WB	L	L T	205 160	199 158	-6 -2	0.66 0.78	0.64 0.72	41.1 46.3	40.2 42.6	D D	D D
			TR	R	139	124	-2 -15	-				-	-
		Intersection	. –					1 -	1 -	30.6	29.5	C	C

				Upper East Stu	idy Area - No-A	tion vs With-A Volume (vph)	ction (No Mitiga		Hour VC	Delay (seconds)		OS
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
				L	5	2	-3	-	-		-	-	-
	E 60th Street &	NB	LTR	T R	130 328	67 169	-63 -159		-				-
1	Queensboro Bridge Exit	EB	LT	L	0	0	0		-			-	
		Intersection	Unsignalized	T	10	5	-5		-				-
		NB	L	L	92 892	61	-31	0.25	0.17	19.9	18.7	В	В
2	E 60th Street & 3rd Ave	WB	T T	T T	331	591 199	-301 -132	0.50 0.53	0.33	21.4 7.0	19.3 4.2	C A	B A
	Ave	Intersection	R	R	162	88	-74	0.75	0.41	40.6 20.4	24.9 16.7	D C	C B
		NB	T	T	445	445	0	0.24	0.24	18.6	18.6	В	В
		SB	T L	T L	1016 170	624 22	-392 -148	0.53 0.26	0.33	22.8 28.1	19.6 24.5	C	B C
	E 60th Street &	EB	T	T	15	15	0	0.27	0.04	28.3	24.3	C	C
3	York Ave		R L	R L	45 0	45 0	0	0.11	0.11	25.3	25.3	C -	C -
		WB	T R	T R	0	0	0	-	-			-	-
		Intersection	, ,	K	U	U	U	-	-	22.4	19.6	C	В
		EB	Т	T R	1063 47	121 17	-942 -30	1.20 0.41	0.14	127.9 25.9	20.8 23.6	F C	C
	E 59th Street & 2nd		RR2	R2	104	88	-16	-	-	-	-	-	
4	Ave	SB	L2 L2L	L2 L	1561 0	110 0	-1451 0	1.12	0.08	78.7	11.1	E .	B -
			T	T	1028	705	-323	0.49	0.34	8.9	13.5	A	В
		Intersection NWB	L2	L2	670	397	-273	0.41	0.24	72.4 19.0	15.2 17.2	B	B B
		INVVD	L	L L2	454 10	269 7	-185 -3	0.41	0.24	19.3	17.3	В	В
5	E 60th Street & 2nd	SB	LT	T	1914	416	-1498	0.86	0.19	33.3	15.4	C	В
3	Ave		R	R L	39 5	18	-21 -3	0.12	0.06	15.8	14.9	В -	B .
		WB	LT	T	0	0	0			15.2	15.0	В	В
		Intersection	TD	T	1091	649	-442	0.46	0.27	27.8 15.8	16.5 13.9	C B	B B
6	E 60th Street & 1st		TR L	R L	40 148	24 116	-16 -32	0.51	0.40	30.7	27.8	- C	- C
0	Ave	EB	T	T	190	58	-132	0.51	0.40	16.1	15.0	В	В
		Intersection		Т	724	418	-306	0.49	0.28	17.5 18.9	16.0 16.4	B B	B B
	E 60th Street &	SB	TR	R	58	33	-25	0.19	0.11	16.9	15.7	В	В
7	Lexington Ave	WB	L T	L T	98 325	39 221	-59 -104	0.32 0.35	0.13 0.24	19.4 18.1	17.3 17.9	B B	B B
		Intersection								18.7	16.9	В	В
	F (0) 5) 10	NB	LT	L T	77 1014	54 716	-23 -298	0.53	0.37	21.3	18.7	C	В
8a	E 60th Street & Park Ave NB	WB	TR	T R	298 85	169 85	-129 0	0.40	0.28	26.4	24.7	С	С
		Intersection		K	63	63	U	-	-	22.7	20.3	C	C
		SB	TR	T R	851 99	790 92	-61 -7	0.50	0.47	20.5	20.0	C -	B .
8b	E 60th Street & Park Ave NB	WB	LT	L	109	62	-47		-				
	T GRANGE TAB	Intersection		T	266	161	-105	0.44	0.26	12.4 18.1	13.1 18.5	B B	B B
		NB	L	L	106	79	-27	0.26	0.20	19.5	18.4	В	В
9	E 60th Street &	WB	T TR	T	901 271	675 230	-226 -41	0.77 0.41	0.57 0.26	23.0 14.1	17.5 17.3	C B	B B
	Madison Ave	Intersection	IK	R	94	23	-71	-	-	20.4	17.6	C	В
		NB	Т	Т	387	197	-190	0.52	0.27	9.9	7.3	A	A
10	E 62nd Street & Queensboro Bridge		R	R L	816 0	418 0	-398 0	0.55	0.28	12.1	8.1	В	A
	Exit	EB	LT	Ť	105	57	-48	0.17	0.09	27.6	26.8	С	С
		Intersection	Т	T	566	352	-214	0.68	0.42	12.1 15.2	9.4 4.0	B B	A A
	E 60th Street & 5th	SB	R L	R	266 150	166	-100	0.85	0.53 0.38	37.6	9.9 25.8	D C	A C
11	Ave	WB	T	L T	227	124 185	-26 -42	0.46 0.24	0.38	27.7 21.9	21.4	С	C
		Intersection		Т	389	264	-125	0.94	0.64	22.8 68.3	12.3 41.4	C E	B D
		NB	TR	R	239	127	-112	0.32	0.17	9.1	7.7	A	A
	F (0.10)	SB	L	L T	416 671	354 600	-62 -71	1.00 0.86	0.89	97.1 44.0	73.8 30.6	F D	E C
12	E 63rd Street & York Ave		TR	R	75	74	-1	-	-		-	-	-
		WB	L TR	L T	398 171	297 140	-101 -31	0.51 0.52	0.40	39.3 36.8	36.2 34.4	D D	D C
		Intersection	- IN	R	15	13	-2	-	-	49.4	37.5	- D	D
4-	E 53rd Street &	SB	R	R	207	178	-29	-	-		-	-	-
13	FDR Drive	SWB Intersection	R Unsignalized	R	321	266	-55	-	-		-	-	-
14	E 61st Street & 5th	SB	T	T	661	509	-152	0.47	0.36	20.6	19.1	С	В
14	Ave	WB Intersection	L	L	171	9	-162	0.18	0.01	18.0 20.1	16.3 19.1	B C	B B
		SB	LT	L T	65 656	60 604	-5 -52	0.42	0.39	-	-	-	-
15	E 65th Street & 5th Ave	EB	T	T	656 737	696	-52 -41	0.88	0.83	7.3 42.9	7.1 38.8	A D	A D
	Ave	Intersection	R	R	361	341	-20	0.97	0.92	71.2 34.4	60.3 30.8	E C	E C
		SB	TR	Т	631	586	-45	0.71	0.67	21.6	20.7	С	С
16	E 66th Street & 5th			R L	378 90	367 78	-11 -12		-				-
	Avenue	WB	LT	T	517	448	-69	0.65	0.57	30.6	28.7	С	С
		Intersection		L	69	67	-2		-	24.8	23.3	C -	C -
		SB	LTR	T	561	546	-15	0.72	0.70	29.2	28.5	C	С
17	E 79th Street & 5th	EB	Т	R T	178 416	169 373	-9 -43	0.73	0.65	39.1	36.5	- D	- D
17	Ave		R L	R L	216 50	194 45	-22 -5	0.99 0.53	0.89 0.48	90.9 58.7	69.6 54.8	F E	E D
		WB	T	T	554	45 485	-5 -69	0.60	0.48	26.1	24.6	С	C
		Intersection		L	35	29	-6		_	38.1	34.3	D .	C .
		NB	LTR	T	421	294	-127	0.47	0.33	22.4	20.1	С	С
	1			R L	0	0	0	-	-		-	-	-
18	E 71st Street &	SB	LTR	T	556	469	-87	0.65	0.56	26.8	24.3	С	С
18	E 71st Street & York Ave	SB		R	84	76	-8		-				
18		SB	LTR L TR					0.65 - 0.31 0.52	0.56 - 0.30 0.48	26.8 - 29.0 33.7	24.3 - 28.7 32.6	C - C	- C C

				per Łast Study	Area - No-Action	n vs With-Actio Volume (vph)	n (No Mitigatio	n) - Late Night F V	eak Hour /C	Delay (seconds)	L	OS
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NB	LTR	L T	10 89	9 78	-1 -11	-	-	-	-	-	-
1	E 60th Street & Queensboro Bridge	ND	LIK	R	308	269	-39		-	-		-	-
	Exit	EB	LT	L T	0 30	0 10	-20	-	-	-	-	-	-
		Intersection	Unsignalized	L	79	67	-12	0.16	0.13	18.2	17.9	В	В
2	E 60th Street & 3rd	NB	Ţ	T	1059	901	-158	0.52	0.44	21.5	20.5	C	С
2	Ave	WB	T R	T R	378 160	194 27	-184 -133	0.66 0.74	0.34 0.12	13.3 43.2	15.6 33.6	B D	B C
		Intersection NB	T	T	475	475	0	0.27	0.27	21.6 18.8	19.8 18.8	C B	B B
		SB	T L	T L	635 247	275 230	-360 -17	0.32 0.34	0.14 0.32	19.5 29.6	17.4 29.1	B C	B C
	E 60th Street &	EB	T	T	0	0	0	0.35	0.33	30.0	29.5	C	C
3	York Ave		R L	R L	45 0	22 0	-23 0	0.11	0.05	25.2	24.4	C -	C -
		WB	T R	T R	0	0	0	-	-	-	-	-	-
		Intersection	Т	T	819	131	-688	0.90	0.14	21.4 41.2	21.1 20.8	C D	C C
		EB	RR2	R	166	68	-98	0.86	0.48	50.2	28.0	D	C
4	E 59th Street & 2nd Ave		L2	R2 L2	120 1151	91 127	-29 -1024	0.80	0.09	17.3	2.5	В	A
	Ave	SB	L2L T	L T	11 1209	2 616	-9 -593	0.58	0.29	7.7	3.2	- A	- A
		Intersection	L2	L2	474	142	-332	0.29	0.09	22.7 17.6	9.5 15.8	C	A B
		NWB	L	L	444	133	-311	0.40	0.12	19.2	16.2	B B	В
5	E 60th Street & 2nd	SB	LT	L2 T	30 1892	10 598	-20 -1294	0.82	0.26	25.9	16.0	- C	- B
Ü	Ave	1470	R	R L	89 5	83 5	-6 0	0.24	0.22	17.2	17.0	В -	В -
		WB	LT	T	5	5	0	0.01	0.01	15.2 23.1	15.2	В	В
		Intersection NB	TR	T	1290	1073	-217	0.52	0.43	16.5	16.1 15.5	C B	B B
6	E 60th Street & 1st	EB	L	R L	99 145	82 109	-17 -36	0.41	0.31	27.3	25.4	C C	C
	Ave	Intersection	T	T	193	170	-23	0.18	0.15	16.1 17.5	15.9 16.4	B B	B B
		SB	TR	T	1113	604	-509	0.94	0.51	40.4	20.4	D	С
7	E 60th Street & Lexington Ave	WB	L	R L	70 160	38 46	-32 -114	0.17 0.37	0.09	16.7 21.4	15.8 20.4	B C	B C
	LEXINGTON AVE	Intersection	T	T	297	215	-82	0.35	0.25	19.8 33.3	21.9 20.6	B C	C
		NB	LT	L T	55 552	52 517	-3 -35	0.32	0.30	18.7	18.5	- B	B
8a	E 60th Street & Park Ave NB	WB	TR	T	332	218	-114	0.46	0.32	28.9	26.7	C	C
		Intersection		R	35	35	0	-	-	22.8	21.2	- C	C
		SB	TR	T R	877 104	737 87	-140 -17	0.54	0.45	21.8	20.5	C	C
8b	E 60th Street & Park Ave NB	WB	LT	L	110 277	96 174	-14 -103	0.48	0.34	10.0	11.7	D	В
		Intersection								18.3	18.2	B B	В
	E 60th Street &	NB	L T	L T	82 911	71 788	-11 -123	0.16 0.66	0.14 0.57	17.5 17.7	17.3 15.7	B B	B B
9	Madison Ave	WB	TR	T R	266 115	227 34	-39 -81	0.48	0.32	16.1	18.0	B -	B -
		Intersection	T	Т	982	1099	117	0.70	0.78	17.2 13.0	16.4 15.4	B B	B B
	E 62nd Street &	NB	R	R	746	838	92	0.71	0.79	16.7	21.2	В	C
10	Queensboro Bridge Exit	EB	LT	L T	10 142	6 89	-4 -53	0.25	0.16	28.5	27.4	c	C
		Intersection	T	T	876	497	-379	0.91	0.52	15.4 26.0	17.7 8.8	B C	B A
	E 60th Street & 5th	SB	R	R L	284 169	161 146	-123 -23	0.71 0.37	0.40 0.32	20.1 24.9	9.3 24.0	C C	A C
••	Ave	WB	Ť	T	179	152	-27	0.21	0.18	21.7	21.3	C	С
		Intersection	TR	T	189	151	-38	0.46	0.37	24.3 35.1	13.1 33.0	C D	B C
		110	L	R L	377 370	240 310	-137 -60	0.47 0.50	0.30 0.41	7.9 25.7	6.2 21.8	A C	A C
12	E 63rd Street &	SB	TR	T R	385 50	323 49	-62 -1	0.46	0.38	19.3	18.0	В	В
12	York Ave	WB	L	L	330	170	-160	0.54	0.30	40.2	34.1	D	C
			TR	T R	295 25	177 17	-118 -8	0.54	0.30	37.2	32.9	D -	C -
	E 53rd Street &	Intersection SB	R	R	158	119	-39	-	-	25.3	21.9	C -	C -
	FDR Drive	SWB Intersection	R Unsignalized	R	365	298	-67	-	-	-	-	-	-
14	E 61st Street & 5th	SB	T	T	976	607	-369	0.59	0.37	22.6	19.1	C	В
14	Ave	WB Intersection	L	L	184	51	-133	0.19	0.05	18.2 21.8	16.8 18.9	B C	B B
	5 (5) (0)	SB	LT	L T	75 731	65 638	-10 -93	0.47	0.41	6.6	6.6	- A	- A
			T	T R	669	652 200	-17 -5	0.74	0.73	33.6 32.7	32.9 32.2	C	C
15	E 65th Street & 5th Ave	EB	D		200	200	-5			20.0	20.4	С	С
15		EB Intersection	R						0.50	18.2	17.2		В
	Ave		R TR	T R	747 255	650 238	-97 -17	0.56	-	-	-	B -	
15		Intersection		T R L	255 59	238 53	-17 -6	-	•	-	-		
	Ave E 66th Street & 5th	Intersection SB	TR	T R L T	255 59 468	238 53 419	-17 -6 -49	0.56		-	-		- C C
	Ave E 66th Street & 5th	Intersection SB WB	TR	T R L T	255 59 468 60 617	238 53 419 55 564	-17 -6 -49 -5 -53	- 0.60 - 0.56	- 0.54 - 0.51	29.4 22.1 - 25.1	28.1 21.1 -	- C C C	- C - C
16	E 66th Street & 5th Avenue	Intersection SB WB Intersection SB	TR LT LTR T	T R L T R L T R T T R T T R T T T T T T	255 59 468 60 617 70 354	238 53 419 55 564 62 331	-17 -6 -49 -5 -53 -8 -23	- 0.60 - 0.56 -	- 0.54 - 0.51 - 0.53	29.4 22.1 - 25.1 - 34.1	28.1 21.1 - 24.3 -	- C C C C C C C C C C C C C C C C C C C	C C C C
16	E 66th Street & 5th Avenue	Intersection SB WB Intersection SB EB	TR LT LTR T R	T R L T R R T R R	255 59 468 60 617 70 354 110	238 53 419 55 564 62 331 103	-17 -6 -49 -5 -53 -8 -23 -7	- 0.60 - 0.56 - 0.56 0.38	- 0.54 - 0.51 - 0.53 0.35	29.4 22.1 - 25.1 - 34.1 33.0	28.1 21.1 - 24.3 - 33.4 32.5	- C C - C - C	C C C C
16	E 66th Street & 5th Avenue	Intersection SB WB Intersection SB EB WB	TR LT LTR T	T R L T R L T R T T R T T R T T T T T T	255 59 468 60 617 70 354	238 53 419 55 564 62 331	-17 -6 -49 -5 -53 -8 -23	- 0.60 - 0.56 -	- 0.54 - 0.51 - 0.53	29.4 22.1 - 25.1 - 34.1 33.0 57.9 22.5	28.1 21.1 - 24.3 - 33.4 32.5 53.2 21.7	- C C C C C C C C C C C C C C C C C C C	- C C C C C C C C C C C C C C C C C C C
16	E 66th Street & 5th Avenue	Intersection SB WB Intersection SB EB WB Intersection	TR LT LTR T R L T T T	T R L T R R L T T R R L T T R R L L T T R L L L T T R R L L T T R R L L T T R R L L T T R R L L T T L L L L	255 59 468 60 617 70 354 110 54 388	238 53 419 55 564 62 331 103 47 329	-17 -6 -49 -5 -53 -8 -23 -7 -7 -59	0.60 0.56 0.56 0.38 0.55	0.54 - 0.51 - 0.53 0.35 0.48 0.34	29.4 22.1 25.1 25.1 34.1 33.0 57.9 22.5 28.1	28.1 21.1 24.3 33.4 32.5 53.2 21.7 27.3	- C C C C C C C C C C C C C C C C C C C	- C C C C C C C C C C C C C C C C C C C
16	E 66th Street & 5th Avenue	Intersection SB WB Intersection SB EB WB	TR LT LTR T R L	T R L T R L T T L T T L T T T T T T T T	255 59 468 60 617 70 354 110 54 388	238 53 419 55 564 62 331 103 47 329 8	-17 -6 -49 -5 -53 -8 -23 -7 -7 -59	0.60 - 0.56 - 0.56 0.38 0.55 0.40	0.54 - 0.51 - 0.53 - 0.53 - 0.48 - 0.34	29.4 22.1 - 25.1 - 34.1 33.0 57.9 22.5 28.1 - 18.4	28.1 21.1 24.3 - 33.4 32.5 53.2 21.7 27.3 - 17.1	- C C C C C C C C C C C C C C C C C C C	- C C C C C C C C C C C C C C C C C C C
16	E 66th Street & 5th Avenue E 79th Street & 5th Ave	Intersection SB WB Intersection SB EB WB Intersection NB	TR LT LTR T R L T T R L T T T T T T T	T R L T T L T T R L L T T R L L T T L T T L L T T L L T T L L T T L L T T L	255 59 468 60 617 70 354 110 54 388 10 236 0	238 53 419 55 564 62 331 103 47 329 8 104 0	-17 -6 -49 -5 -53 -8 -23 -7 -7 -59 -2 -132 0		0.54 0.51 - 0.53 0.35 0.48 0.34	29.4 22.1 - 25.1 - 34.1 33.0 57.9 22.5 28.1 - 18.4	28.1 21.1 24.3 24.3 32.5 53.2 21.7 27.3 -	C C C C C C C C C C C C C C C C C C C	C C C C C C C C C C C C C C C C C C C
16	E 66th Street & 5th Avenue	Intersection SB WB Intersection SB EB WB Intersection	TR LT LTR T R L T LT T R L T L T L T L T	T R L T R L T R R L T T R R L T T R R L T T R R L T T R R L T T R R R L T T R R R R	255 59 468 60 617 70 354 110 54 388 10 236 0 0 317 40	238 53 419 55 564 62 331 103 47 329 8 8 0 0 0	-17 -6 -49 -5 -53 -8 -23 -7 -7 -59 -2 -2 -132 0 0 -136 -14			29.4 22.1 25.1 - 34.1 33.0 57.9 22.5 28.1 - 18.4 -	28.1 21.1 24.3 - 24.3 33.4 32.5 53.2 21.7 27.3 - 17.1 -	- C C C C C C C C C C C C C C C C C C C	- C C C C C C C C C C C C C C C C C C C
16	E 66th Street & 5th Avenue E 79th Street & 5th Ave E 79th Street & 5th	Intersection SB WB Intersection SB EB WB Intersection NB	TR LT LTR T R L T T R L T T T T T T T	T R L T R L T T R L T T R L T T R L T T R R L T T R R L T T R R L T T R R L T T R R L T T R R L T T T R R L T T T R R L T T T T	255 59 468 60 617 70 354 110 54 388 10 236 0	238 53 419 55 564 62 331 103 47 329 8 104 0	-17 -6 -49 -5 -5 -8 -23 -7 -7 -59 -2 -132 0 0 -136		0.54 0.51 - 0.53 0.35 0.48 0.34	29.4 22.1 - 25.1 - 34.1 33.0 57.9 22.5 28.1 - 18.4	28.1 21.1 24.3 24.3 32.5 53.2 21.7 27.3 -	C C C C C C C C C C C C C C C C C C C	- C C C C C C C C C C C C C C C C C C C

ntersection#	Intersection Name	Approach	Lane Group	Movement	No-Action	Vith-Action (No Volume (vph) With-Action	Increment		/C With-Action	Delay (s	econds) With-Action	No-Action	OS With-Act
		NB	L T	L T	104 187	98 177	-6 -10	0.36 0.35	0.34	20.4	19.7 16.4	C B	B B
		SB	R TR	R T R	64 414 30	60 406 30	-4 -8 0	0.22 0.60	0.20 0.59	15.7 27.8	15.5 27.6	B C	B C
1	W 72nd Street & West End Ave	EB	LTR	L T R	10 131 116	8 105 90	-2 -26 -26	0.64	0.50	37.4	33.2	- D	- C
		WB	LTR	L T	84 138	74 125	-10 -13	0.75	0.64	43.9	37.7	D D	D
		Intersection		R L	19	40 15	-4	-	-	30.0	27.5	C	C
		NB	LTR	T R	370 57 55	272 45 55	-98 -12 0	0.47 - 0.25	0.35 - 0.21	10.1	9.4	B - B	- A - B
2	W 61st Street & West End Ave	SB	TR	T R	574 35	450 35	-124 0	0.36	0.29	13.4	12.7	B .	В .
		EB	LTR	T R	20 15 55	19 11 55	-1 -4 0	0.34	0.33	28.9	28.8	C	C
		Intersection NB	LTR	L T	60 30	57 30	-3 0	0.66	0.61	13.5	13.2	- D	D
		SB	LTR	R L T	10 15 130	10 15 130	0 0	1.03	1.00	87.9	81.7	- - F	- - F
3a	W 79th Street & Riverside Drive	EB	TR	R L T	154 5 502	147 4 448	-7 -1 -54	0.59	0.53	12.6	11.5	- - B	- B
		WB	TR	R	330 5	295 5	-35 0	-	-	-		7 1	- 1
		Intersection	IR	T R	590 25	547 24	-43 -1	0.46	0.43	10.6 - 26.7	10.3 - 25.5	B - C	- C
4a	W 56th Street &	NB	TR	R L	212 100 465	207 99 464	-5 -1 -1	0.35	0.34	22.2	22.1	C -	C -
-	12th Avenue	Intersection	LT T	Ť	705	702	-3	0.86	0.86	7.0 10.6	6.8 10.4	A B	A B
4b	W 56th Street & West Side Highway	NB SB	L T	T L T	2143 1170 2958	2128 1166 2936	-15 -4 -22	1.05 0.91 0.52	1.05 0.90 0.51	65.6 47.9 0.7	47.5 0.6	D A	D A
		Intersection NB	L T	L T	75 2013	75 2002	0 -11	1.01 0.59	1.01	32.1 206.8 15.6	31.2 206.8 15.4	C F B	F B
5a	W 55th Street & West Side Highway	SB	TR	T R L	2958 0 126	2936 0 122	-22 0 -4	0.92	0.92	33.2	32.7	C	C
	west side riigiiway	WB	LT R	T R	30 130	29 126	-1 -4	0.77 0.36	0.75 0.35	30.1	27.9	C A	C
		Intersection NB	LT	L T	0 282	0 277	0 -5	0.36	0.35	28.2 - 11.8	27.8 - 11.7	- B	- C
5b	W 55th Street & 12th Avenue	SB	TR	T R L	0 0	0 0	0 0	-	-	•		-	-
		WB	LTR	T R	286 30	277 29	-9 -1	0.54	0.52	57.9 - 36.2	57.5 - 35.8	E .	
5c	W 55th Street & West Side Highway	Intersection SB WB	T L	T L	0 105	0 104	0 -1	0.41	0.40	37.2	35.2	D	
	Arterial	Intersection NB	L T	L T	328 503	317 486	-11 -17	0.78 0.42	0.76 0.40	37.2 48.5 14.3	35.2 46.8 14.2	D D B	
6	W 60th Street & Broadway	SB	TR	T R	845 64	689 52	-156 -12	0.89	0.72	27.7	20.9	C .	-
	W 60th Street &	Intersection SB	TR	T R	972 78	752 60	-220 -18	0.73	0.56	5.9	24.3 4.6	A	Α .
7	Columbus Ave	WB	L T	L T	235 157	215 154	-20 -3	0.92	0.84	46.5 3.8 12.5	36.6 3.7 10.5	D A B	A B
8	W 60th Street &	NB	LT T	L T T	91 912 170	69 687 150	-22 -225 -20	0.47 0.48	0.36 0.43	14.5 44.6	13.2 46.4	В D	B
	Amsterdam Ave	WB	R	R	65	64	-1	0.31	0.31	42.9 20.9	45.9 21.4	D C	C
		NB SB	L T TR	L T	19 372 609	14 276 489	-5 -96 -120	0.09 0.34 0.33	0.06 0.25 0.26	11.1 12.3 3.1	10.5 11.4 3.5	B B A	B B A
9	W 60th Street &	EB	LTR	R L T	20 5 0	16 5 0	-4 0 0	0.12	0.12	21.3	21.3	- C	- - C
	West End Ave	WB	LTR	R L T	30 140 52	30 137 31	-3 -21	- 0.68	0.58	56.0	- 54.5	- - F	
		Intersection		R	69	51	-18	-	-	16.7	16.7	- B	B
10	W 61st Street &	NB EB	TR LT	T R L	972 5 117	747 4 102	-225 -1 -15	0.44	0.34	3.2	3.6	A .	
	Amsterdam Ave	WB Intersection	R	T R	10 10	9 10	-1 0	0.46 0.04	0.40 0.04	38.9 23.6 8.1	39.0 23.6 9.0	D C A	C A
11	W 61st Street & Columbus Ave	SB Intersection	LT	L T	182 1050	156 812	-26 -238	0.77	0.61	22.2 22.2	18.1 18.1	C C	B
		NB	TR	T R	493 10	476 10	-17 0	0.34	0.33	9.6	9.6	A	Α .
12	W 61st Street & Broadway	SB	LT	L T L	20 801 30	0 650 26	-20 -151 -4	0.56	0.40	19.7	17.2	B	B
		EB Intersection	LTR	T R	44 108	39 91	-5 -17	0.54	0.46	25.7 - 17.0	26.5 - 15.5	C - B	- C
13	W 61st Street & Columbus Ave	NB EB Intersection	T L	T L	598 74	575 49	-23 -25	0.32 0.23	0.31 0.15	13.4 28.1 15.1	13.3 18.9 13.8	B C B	E B
		NB	LTR	L T	15 224	14 219	-1 -5	0.28	0.27	19.1	19.0	В В	B
		SB	LTR	R L T	169 165 385	164 162 379	-5 -3 -6	0.44 0.57 0.88	0.42 0.56 0.86	23.2 28.7 43.6	22.9 28.2 41.1	C C D	C
14	W 81st Street & Central Park West	EB	L	R L T	45 15 312	42 13 278	-3 -2 -34	0.18	0.15 0.82	44.0 61.6	43.2 48.2	D	D
			TR L	R L	10 167	9 151	-1 -16	0.04 0.84	0.03 0.68	23.5 52.4	23.4 34.8	C	C
		WB	T R	T R	224 118	188 107	-36 -11	0.71 0.41	0.60 0.37	40.8 30.1 39.7	35.4 29.2 34.4	D C D	C C
		NB	LT	L T T	65 353 656	62 335 612	-3 -18 -44	0.43 0.57	0.40 0.54	3.4	3.2 19.6	A C	-
15	W 66th Street & Central Park West	SB	TR L	R L	656 45 177	44 162	-1 -15	0.51	0.47	20.4	30.2	- C	- C
		WB	T R	T R	314 231	285 211	-29 -20	0.80 0.65	0.73 0.60	44.6 37.0 23.6	39.4 34.6 21.7	D D C	C
		NB	TR	T R	388 255	369 254	-19 -1	0.84	0.81	37.7	36.2	D .	D .
16	W 65th Street & Central Park West	SB	LT L	L T L	370 463 30	345 429 28	-25 -34 -2	0.98 0.56 0.09	0.90 0.52 0.09	59.2 9.8 22.9	43.3 8.8 22.9	E A C	D A C
	1	EB	TR	T	499	462	-37	0.77	0.71	36.1	33.6	D	C

F				Upper Wes	t Study Area - N	o-Action vs Wit	h-Action (With I Volume (vph)	Mitigation) - Mi		r //C	Delay (seconds)	L	OS
Int	tersection#	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
			NB	L T R	L T R	115 284 70	107 265 65	-8 -19 -5	0.34 0.49 0.23	0.31 0.45 0.22	19.0 19.8 16.5	18.2 19.1 16.2	B B B	B B B
			SB	TR	T R	329 55	312 55	-17 0	0.57	0.55	29.4	28.9	C .	C -
	1	W 72nd Street & West End Ave	EB	LTR	T R	25 108 89	19 81 62	-6 -27 -27	0.63	0.46	38.5	33.6	D	C
			WB	LTR	L T	80 155	67 137	-13 -18	0.89	0.73	59.6	43.7	E	D
			Intersection		R L	50	44	-6 -1	-	-	34.2	29.1	Ċ	C
			NB	LTR	T R	366 60	251 41	-115 -19	0.42	0.29	9.5	10.3	Α .	B -
	2	W 61st Street & West End Ave	SB	L TR	T R	14 568 15	14 375 15	-193 0	0.07	0.06	12.6	12.3	B B	B B
			EB	LTR	L T	5 20	5 20	0	0.17	0.17	24.0	24.0	C	- C
			Intersection		R	35 70	35 66	-4	-	-	12.8	12.9	В .	B
			NB	LTR	T R	45 5	45 5	0	0.46	0.43	31.6	30.5	C -	C .
			SB	LTR	T R	5 65 130	5 65 122	0 0 -8	0.68	0.65	38.8	37.4	D	D
	3a	W 79th Street & Riverside Drive	EB	TR	L T	20 313	17 265	-3 -48	0.53	0.44	12.7	11.5	В	В
			WB	TR	R L T	357 0 533	303 0 483	-54 0 -50	0.38	0.34	10.6	10.2	- - B	- - B
			Intersection		R	50	48	-2	-	-	16.8	16.3	В	- B
	4a	W 56th Street &	NB	TR	R L	258 85 270	252 84 265	-6 -1 -5	0.25	0.25	4.0	3.9	A	. A
		12th Avenue	EB Intersection	LT	Ť	290	285	-5	0.84	0.82	16.8 11.6	15.5 10.8	B B	B B
	4b	W 56th Street & West Side Highway	NB SB	L T	L T	2417 560 2307	2398 550 2255	-19 -10 -52	0.78 0.91 0.81	0.78 0.89 0.79	10.5 63.0 49.6	10.1 60.8 49.4	B E D	E D
		- agindy	Intersection NB	L	L	155	155	0	1.05	1.05	33.6 165.1	33.0 165.1	C F	C F
	Ec	W 55th Street &	SB	T TR	T T R	2232 2307 0	2222 2255 0	-10 -52 0	0.71 0.91	0.70 0.89	19.0 79.9	18.9 79.3	B E	B E -
	5a	West Side Highway	WB	LT	L T	162 65	155 62	-7 -3	0.80	0.77	26.5	23.2	- C	- C
			Intersection	R	R	185	176 0	-9	0.42	0.40	5.9 50.5	5.7 49.9	D .	D .
			NB SB	LT TR	T T	298 0	293 0	-5 0	0.43	0.43	15.5	15.4	В .	B .
	5b	W 55th Street & 12th Avenue	WB	LTR	R L T	0 0 412	0 0 393	0 0 -19	0.56	0.53	42.7	42.1	D	- - D
			Intersection		R	45	43	-2	-	-	31.9	31.3	C	- C
	5c	W 55th Street & West Side Highway Arterial	SB WB Intersection	T L	T L	0 220	217	-3	0.57	0.57	66.0	62.0 62.0	E E	E E
		W 60th Street &	NB	L T	L T	338 450	327 436	-11 -14	0.83 0.36	0.81 0.35	52.2 13.6	49.9 13.5	D B	D B
	6	Broadway	SB Intersection	TR	T R	753 79	544 57	-209 -22	0.86	0.62	34.5 - 32.6	21.6	- C	- C
		W 60th Street &	SB	TR	T R	967 123	636 81	-331 -42	0.74	0.48	6.6	4.2	A .	A
	7	Columbus Ave	WB Intersection	L T	T T	214 203	181 203	-33 0	0.75 0.32	0.63 0.32	25.2 3.5 8.8	19.1 3.1 6.5	C A A	A A
		W 60th Street &	NB	LT T	L T T	64 1031	46 735	-18 -296	0.48	0.35	14.6	13.0	В В	В В
	8	Amsterdam Ave	WB Intersection	R	R	241 85	199 85	-42 0	0.60	0.50	45.3 41.1 22.0	45.2 44.1 22.3	D D C	D D C
			NB	L T	L T	10 356	7 221	-3 -135	0.05	0.03	10.3 11.8	9.9 10.8	B B	A B
		W 60th Street &	SB	TR	T R L	588 15 0	400 10 0	-188 -5 0	0.30	0.21	5.2	5.2	A	- A
	9	West End Ave	EB	LTR	T R L	0 20 170	0 20 170	0 0	0.07	0.07	20.6	20.6	C .	C -
			WB	LTR	T R	60	0 75	-60 0	0.72	0.63	47.9	45.8	D	D .
			Intersection	TR	T R	1106 10	812 8	-294 -2	0.47	0.35	17.9 3.6	18.4 4.3	A .	A .
	10	W 61st Street & Amsterdam Ave	EB	LT	L T	84 10	67 8	-17 -2	0.28	0.23	34.0	32.4	C	C C
		W 61st Street &	WB Intersection SB	R LT	R L	20	20	-37	0.06	0.06	23.9 6.8	23.9 7.5	C A	A -
	11	Columbus Ave	Intersection	TR	T T	1090	717	-373 -7	0.82	0.57	23.8 23.8 5.1	17.3 17.3 5.1	C C A	B B A
			NB SB	TR LT	R L	8 30	1 6	-7 -24	-	-		-	-	-
	12	W 61st Street & Broadway	EB	LTR	T L T	688 45 35	483 39 30	-205 -6 -5	0.53 - 0.66	0.34 - 0.55	19.2	16.6 - 38.6	- D	D
			Intersection		R	144	118	-26	-	-	18.0	16.1	В В	В В
	13	W 61st Street & Columbus Ave	NB EB Intersection	T L	T L	617 73	578 37	-39 -36	0.34 0.25	0.32 0.13	13.6 24.0 14.7	13.3 9.4 13.1	B C B	A B
			NB	LTR	L T R	40 395 255	37 386 247	-3 -9 -8	0.50 0.91	0.48 0.88	21.7	21.4 55.9	C E	C E
l			SB	LTR	L T R	85 305 40	79 287 35	-6 -18 -5	0.48	0.44	29.3 35.8	27.6 32.3	C D	C C
	14	W 81st Street & Central Park West	EB	L TR	L T	15 299	13 263	-2 -36	0.20	0.16 0.65	44.7	43.8 36.1	D D	D D
		l	WB	L T	R L T	30 178 261	27 159 219	-3 -19 -42	0.19 0.91 0.64	0.17 0.77 0.54	27.2 64.5 36.0	26.8 42.3 32.4	C E D	C D C
				R	R	158	142	-16	0.57	0.51	35.2 38.7	33.3 34.1	D D	C
			Intersection			45	43	-2 -21	0.44	0.41	1.6	1.5	Α	A
			NB	LT	T T	474 585	453 523	-62			20.6	19.6	С	В
	15	W 66th Street & Central Park West	NB SB	TR L	T T R L	474 585 55 218	523 53 197	-62 -2 -21	0.55 - 0.65	0.50 - 0.59	20.6	19.6 - 33.7	- D	- C
		W 66th Street & Central Park West	NB	TR	T T R	474 585 55	523 53	-62 -2	0.55	0.50	-	-	-	B -
		W 66th Street & Central Park West	NB SB WB Intersection NB	TR L T R	T T R L T R	474 585 55 218 387 273 464 200	523 53 197 347 246 447 199	-62 -2 -21 -40 -27	0.55 - 0.65 0.98 0.81	0.50 - 0.59 0.88 0.73	36.1 71.1 49.0 30.9 34.6	33.7 52.5 42.3 25.5 33.5	D E D C C	B - C D D C C C -
		W 66th Street & Central Park West W 65th Street & Central Park West	NB SB WB Intersection	TR L T R	T T R L T R	474 585 55 218 387 273	523 53 197 347 246	-62 -2 -21 -40 -27	0.55 - 0.65 0.98 0.81	0.50 - 0.59 0.88 0.73	36.1 71.1 49.0 30.9	33.7 52.5 42.3 25.5	D E D C	B - C D D C

			Upper V	Vest Study Area	- No-Action vs	With-Action (No Volume (vph)			//C	Delay (seconds)	L	os
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NB	L T R	T R	150 626 135	136 568 122	-14 -58 -13	0.37 0.87 0.34	0.32 0.79 0.31	18.3 34.0 15.8	16.7 27.4 15.2	C B	B C B
	W 72nd Street &	SB	TR	T R	363 30 20	325 30 13	-38 0 -7	0.64	0.58	35.7	34.1	D -	C -
1	West End Ave	EB	LTR	T R	96 90	62 48	-34 -42	0.65	0.38	41.7	33.8	D	C
		WB	LTR	L T R	79 120 45	59 102 38	-20 -18 -7	0.83	0.63	55.3	40.9	Ē	- D
		Intersection		L	15	11	-4	-	-	35.6	29.3	D -	C
		NB	LTR	T R	746 48	490 37	-256 -11	0.68	0.45	10.9	9.8	B -	. A
2	W 61st Street & West End Ave	SB	L TR	T R	35 723 20	35 495 20	-228 0	0.23	0.14 0.28	15.6 13.6	12.7 12.4	B B	B B
		EB Intersection	LTR	L T R	25 20 35	23 0 0	-2 -20 -35	0.27	0.08	27.2	24.1 - 11.4	- C - B	- C - B
		NB	LTR	L T R	40 185 15	36 185 15	-4 0 0	0.78	0.75	46.6	44.3	D	- D
		SB	LTR	T R	5 60 99	5 59 87	-1 -12	0.62	0.57	39.0	36.8	D	D -
3a	W 79th Street & Riverside Drive	EB	TR	T R	60 605 352	51 507 295	-9 -98 -57	0.78	0.64	17.1	13.1	B	B
		WB	TR	T R	419 156	345 146	-74 -10	0.41	0.35	9.5 - 20.6	9.0	A C	A - B
4a	W 56th Street &	NB	TR	R L	290 129 160	277 124 158	-13 -5	0.28	0.27	4.2	4.2	Α .	A -
40	12th Avenue	EB Intersection	LT	T	410	404	-2 -6	0.76	0.75	17.2 11.4	15.8 10.7	B B	B B
4b	W 56th Street & West Side Highway	NB SB	T L T	T L T	2667 570 2014	2625 562 1970	-42 -8 -44	0.79 0.92 0.36	0.78 0.91 0.35	8.7 77.6 0.2	8.2 74.9 0.2	A E A	A E A
		Intersection	L T	L T	15 2478	15 2448	0 -30	0.21 0.68	0.21 0.67	13.9 73.1 15.9	13.3 73.1 15.7	E B	B E B
5a	W 55th Street & West Side Highway	SB	T TR LT	T T R	2014 0 315	1970 0 301	-44 0 -14	0.66 - 0.80	0.64 - 0.75	23.7	23.3	C - C	C - C
		WB Intersection	R	T R	10 189	10 177	0 -12 0	0.88	0.84	39.1 22.9 20.8	33.5 21.7 20.1	C C	C C
5b	W 55th Street &	NB SB	LT TR	T T R	399 0	382 0 0	-17 0 0	0.46	0.44	13.4	13.1	B .	B -
Ju	12th Avenue	WB	LTR	L T R	0 514 20	0 488 19	-26 -1	0.76	0.72	64.7	62.8 - 41.3	E D	- E - D
5c	W 55th Street & West Side Highway Arterial	SB WB Intersection	T L	T L	0 25	0 25	0	0.08	0.08	7.1 7.1	6.7	A A	A A
6	W 60th Street & Broadway	NB SB	T TR	T T R	303 640 847 88	289 611 599 62	-14 -29 -248 -26	0.71 0.49 0.93	0.68 0.47 0.66	44.1 15.3 43.8	42.6 14.9 22.5	B D	B C
	2 *- 042 410A W	Intersection SB	TR	T R	1133 126	653 73	-480 -53	0.82	0.47	34.1 8.1	23.3 4.2	C A	C A
7	W 60th Street & Columbus Ave	WB	L T	L T	190 201	162 189	-28 -12	0.69 0.35	0.59 0.33	25.9 5.0	20.8 4.3	C A	C A
	M 40th C*	Intersection NB	LT	L	97 1371	66 926	-31 -445	0.65	0.44	9.7	6.7 - 14.0	- B	- B
8	W 60th Street & Amsterdam Ave	WB	T R	T R	222 105	183 79	-39 -26	0.60 0.49	0.50 0.37	45.7 46.1	49.3 49.1	D D	D D
		Intersection NB	L T	L	10 679	7 432	-3 -247	0.05 0.54	0.03	22.6 10.5 15.1	21.7 9.9 12.3	C B B	C A B
		SB	TR	T R	748 10	488 7	-260 -3	0.39	0.34	5.8	5.1	A .	A .
9	W 60th Street & West End Ave	EB	LTR	L T R	10 0 25 130	10 0 25 116	0 0 0 -14	0.10	0.10	21.0	21.0	C	- C
		WB	LTR	T R	69 120	37 96	-32 -24	0.74	0.59	16.9	42.1	D - B	D - B
	W 61st Street &	NB	TR	T R	1456 20 98	991 14 60	-465 -6 -38	0.61	0.42	3.4	3.1	A .	A .
10	Amsterdam Ave	EB WB	LT R	T R	98 5 20	12 19	-38 7 -1	0.32 0.07	0.22 0.06	32.5 23.9	39.8 23.9	C	D C
11	W 61st Street &	Intersection SB	LT	L T	194 1259	141 726	-53 -533	0.83	0.50	5.7	6.1	A	A - B
11	Columbus Ave	Intersection	TR	т	630	601	-533	0.83	0.50	24.4 24.4 5.3	16.2 16.2 5.2	C A	B A
	W 61st Street &	NB SB	LT	R L	10 40 814	10 4 576	0 -36 -238	0.60	0.37	20.6	16.8	C	- - B
12	Broadway	EB	LTR	T L T R	35 38 121	27 29 85	-238 -8 -9 -36	0.60 - 0.51	0.37	32.7	34.4	C	- C
13	W 61st Street &	Intersection NB EB	T L	T L	806 88	761 43	-45 -45	0.42	0.40	16.2 14.5 26.1	13.4 14.2 14.8	B B C	B B B
	Columbus Ave	Intersection		L	25	23	-2	-	-	15.7	14.3	B -	B -
		NB SB	LTR LTR	R L T	621 255 59 272	603 245 56 261	-18 -10 -3 -11	0.61 0.80 0.44 0.65	0.59 0.77 0.40 0.61	22.8 41.6 30.8 29.1	22.4 38.9 28.5 27.9	C C C	C C C
14	W 81st Street & Central Park West	EB	L TR	R L T	34 25 306	31 21 252	-3 -4 -54	0.28 0.89	0.23 0.73	47.1 55.4	45.5 40.6	D E	D D
		WB	L T R	R L T	25 204 283 209	21 182 237 186	-4 -22 -46 -23	0.13 0.99 0.74 0.75	0.11 0.78 0.62 0.67	25.5 79.0 40.9 45.6	25.1 40.7 35.0 40.0	E D	D D
				L	35	33	-2	-	-	40.2	32.4	D -	C -
		Intersection NB	LT		645	614	-31	0.55 0.54	0.52	13.0 20.3	9.5 19.4	B C	A B
	W 66th Street &	Intersection NB SB	LT TR	T T R	586	522 38	-64 -2	-			-		-
15	W 66th Street & Central Park West	NB SB WB		T T R L T		522 38 141 343 258	-64 -2 -32 -48 -34	0.46 1.03 0.85	0.37 0.90 0.75	29.7 85.6 51.7	27.9 57.8 42.7	C F D	- C E D
15	W 66th Street & Central Park West	NB SB WB Intersection NB	TR L T R	R L T R	586 40 173 391 292 630 250	38 141 343 258 603 249	-2 -32 -48 -34 -27 -1	0.46 1.03 0.85	0.37 0.90 0.75	29.7 85.6 51.7 34.6 51.0	57.8 42.7 26.4 43.9	F D C D	E D C D
15	W 66th Street & Central Park West W 65th Street & Central Park West	NB SB WB Intersection	TR L T R	R L T R	586 40 173 391 292	38 141 343 258 603	-2 -32 -48 -34	0.46 1.03 0.85	0.37 0.90 0.75	29.7 85.6 51.7 34.6	57.8 42.7 26.4	F D C	E D C

			Upper West	Study Area - N	o-Action vs Witi	h-Action (No Mit Volume (vph)			r //C	Delay (seconds)	L	os
Intersection #	Intersection Name	Approach	Lane Group	Movement	No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
		NB	T R	T R	93 133 59	83 119 53	-10 -14 -6	0.23 0.20 0.15	0.20 0.17 0.13	16.0 15.1 15.0	15.0 13.6 13.6	B B B	B B B
		SB	TR	T R	295 25	273 25	-22 0	0.41	0.35	26.2	24.1	C	C -
1	W 72nd Street & West End Ave	EB	LTR	T R	10 104 79	8 81 56	-2 -23 -23	0.46	0.32	33.1	29.9	C	C
		WB	LTR	L T	65 126	48 102	-23 -17 -24	0.58	0.41	36.5	31.5	D	C
		Intersection		R	30	24	-6	-	-	27.0	23.8	- C	- C
		NB	LTR	L T	10 269	7 146 14	-3 -123	0.26	0.14	8.2	11.4	Α	В В
	W 61st Street &	SB	L	R L T	24 30 555	30 335	-10 0 -220	0.10	0.08	12.7	11.9 12.0	B B	B B
2	West End Ave		TR	R L	15 10	15 9	0 -1	-	-	-	-	-	-
		EB Intersection	LTR	T R	20 25	20 25	0	0.16	0.15	23.8	22.9	C - B	C - B
		NB	LTR	L T	40 35	38 35	-2 0	0.25	0.23	26.1	25.1	- C	- C
		SB	LTR	R L	5	5	0	-	-		-		
3a	W 79th Street &	35	LIK	T R L	50 85 5	49 79 4	-1 -6	0.46	0.42	30.4	28.6	C -	C -
	Riverside Drive	EB	TR	T R	396 173	307 134	-89 -39	0.42	0.32	11.1	9.5	B -	A .
		WB	TR	L T R	0 484 30	0 444 29	-40 -1	0.36	0.32	10.4	9.6	В .	A
		Intersection NB	TR	L	161	136	-25	0.13	0.11	13.8 1.5	12.9 1.5	B A	B A
4a	W 56th Street & 12th Avenue	EB	LT	R L T	44 140 280	38 135 271	-6 -5 -9	-	. 0.62	14.6		- - B	- - A
		Intersection NB	T	T	280	271	-82	0.76	0.63	14.6 10.0 21.3	6.2 4.7 12.5	A C	A A B
4b	W 56th Street & West Side Highway	SB	L T	L T	420 1338	406 1274	-02 -14 -64	0.84 0.25	0.69	60.8 0.1	48.5 0.1	E A	D A
		Intersection NB	L	L	5	5	0	0.06	0.05	19.0 55.0	12.5 52.6	B D	B D C
5a	W 55th Street &	SB	T	T T R	2696 1338 0	2648 1274 0	-48 -64 0	0.83 0.55	0.79 0.50	24.6 23.7	20.7 21.6	C C	C C
ъa	West Side Highway	WB	LT R	L T R	105 5 270	93 4 236	-12 -1 -34	0.39 0.54	0.31 0.43	6.9 7.4	6.3 6.1	A A	A A
		Intersection		L	0	0	-54	0.54	0.43	22.7	19.7	C	B -
		NB SB	LT TR	T T	195 0	165 0	-30 0	0.26	0.21	12.7	11.3	В .	B .
5b	W 55th Street & 12th Avenue	WB	LTR	R L T	0 0 380	0 0 333	0 0 -47	0.45	0.36	40.4	36.7	- - D	- - D
		Intersection		R	10	9	-1	-	- 0.00	31.1	28.4	- C	- C
5c	W 55th Street & West Side Highway Arterial	SB WB	T L	T L	0 10	9	-1	0.03	0.02	2.5	2.3	A	- A
		Intersection NB	L T	L T	312 476	291 444	-21 -32	0.68	0.46 0.28	2.5 42.1 13.3	2.3 31.5 9.6	D B	C A
6	W 60th Street & Broadway	SB	TR	T R	620 85	363 50	-257 -35	0.76	0.43	25.6	20.7	C -	C -
		Intersection SB	TR	T R	1024 70	476 33	-548 -37	0.70	0.32	25.3 5.8	19.3 4.0	C A	B A
7	W 60th Street & Columbus Ave	WB	L T	L T	235 162	180 161	-55 -1	0.75 0.27	0.55 0.26	28.6 4.9	19.1	C A	B A
		Intersection NB	LT	L	40	34	-6	-	-	9.4	7.4	Α .	Α .
8	W 60th Street & Amsterdam Ave	WB	T R	T T R	949 147 85	777 127 67	-172 -20 -18	0.40 0.38 0.30	0.32 0.32 0.23	13.5 44.0 43.6	12.2 44.9 44.3	D D	D D
		Intersection	L	L	15	9	-6	0.06	0.03	20.0	19.2 9.3	B B	B A
		SB	T TR	T T	258 570	120 354	-138 -216	0.18 0.29	0.08 0.17	10.8 5.2	9.5 5.0	B A	A A
9	W 60th Street &	EB	LTR	R L T	10 0 0	6 0 0	-4 0 0	0.04	0.03	20.0	19.3	- B	- - B
	West End Ave			R L	15 100	15 94	-6		-	-	-	-	-
		WB Intersection	LTR	T R	42 45	20 47	-22 2	0.47	0.39	41.8	39.9 - 15.3	D	- D - B
		NB	TR	T R	1019 15	831 13	-188 -2	0.43	0.35	5.0	4.4	Α .	A .
10	W 61st Street & Amsterdam Ave	EB WB	LT R	L T R	70 4 25	60 4 24	-10 0 -1	0.20 0.07	0.16 0.07	30.3 22.6	28.9 21.8	C C	C C
	W 61st Street &	Intersection SB	LT	L	184	156	-28	-	-	7.2	6.7	Α -	Α .
11	W 61st Street & Columbus Ave	Intersection		T	1094	509	-585	0.70	0.36	19.8 19.8	13.9 13.9	B	B B
		NB SB	TR LT	T R L	476 0 20	444 0 0	-32 0 -20	0.26	0.24	5.0	7.0	A	A .
12	W 61st Street & Broadway			T L	590 40	317 37	-273 -3	0.39	0.18	17.1	14.3	В -	B .
		EB Intersection	LTR	T R	29 115	23 96	-6 -19	0.49	0.39	34.8 - 15.4	36.1 - 14.7	C - B	D - B
13	W 61st Street & Columbus Ave	NB EB	T L	T L	683 49	609 23	-74 -26	0.34 0.16	0.30 0.07	13.6 19.0	12.6 1.8	B B	B A
	NAN CONTRACTOR	Intersection NB	LTR	L T	30 320	29 318	-1 -2	0.38	0.37	14.0 - 20.5	12.2 - 19.6	- C	- B
				R L	320 170 55	318 164 45	-2 -6 -10	0.38 0.36 0.19	0.37 0.33 0.15	20.5 21.4 19.5	20.3 18.3	C B	C B
	W 81st Street &	SB	LTR	T R	201 25	172 20	-29 -5	0.50	0.42	24.4	21.8	С .	C -
14	Central Park West	EB	L TR	L T R	15 244 30	14 219 28	-1 -25 -2	0.18 0.66 0.09	0.15 0.57 0.08	44.0 36.4 24.2	41.7 32.3 23.4	D D C	C C
		WB	L T	L	93 210	76 163	-17 -47	0.37 0.56	0.27 0.42	21.2 32.7	18.2 28.5	C	B C
		Intersection	R	R	137	111	-26	0.43	0.34	30.2 26.8	27.4 24.1	C C	C C
		NB	LT	L T	30 444 403	29 429 316	-1 -15 -87	0.34 0.36	0.31 0.28	1.2 17.5	1.1 16.0	A B	A B
15	W 66th Street & Central Park West	SB	TR L	R L	30 104	29 69	-1 -35	0.29	0.18	26.3	24.0	- C	- C
		WB	T R	T R	360 242	293 200	-67 -42	0.86 0.73	0.67 0.58	49.0 41.4	35.0 33.1	D D	C
		Intersection NB	TR	T R	439 305	425 302	-14 -3	0.84	0.79	24.5 35.8	18.5 32.5	D .	B C
				L	212	165	-47	0.57	0.43	22.3	14.0	C	В
16	W 65th Street &	SB	LT	T	295	220	-75	0.32	0.24	6.8	4.2	A	A
16	W 65th Street & Central Park West	SB EB	LT L TR	T L T R	295 35 419 30	220 33 395 29	-75 -2 -24 -1	0.32 0.10 0.61	0.24 0.09 0.55	6.8 24.5 31.6	4.2 23.6 29.6	C C	А С С