

CENTRAL BUSINESS DISTRICT (CBD) TOLLING PROGRAM

Appendix 4B.5, Transportation: Traffic LOS: CBD Tolling Alternative with Mitigation

2023

Downtown Brooklyn Study Area - No-Action vs NEPA 4 With-Action (With Mitigation) - Midday Peak Hour

Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay		LOS		
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action	
1	Flatbush Avenue and Tillary Street	NB	L	L	585	585	0	1.20	0.98	155.2	82.9	F	F	
			TR	T	820	593	-227	1.21dl	0.97dl	69.7	37.2	E	D	
			R	R	345	343	-2	0.51	0.51	5.8	5.7	A	A	
		SB	T	T	636	425	-211	0.59	0.39	39.5	35.9	D	D	
			R	R	77	51	-26	0.31	0.21	37.4	35.1	D	D	
			L	L	123	91	-32	0.68	0.50	66.4	56.9	E	E	
		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	
		2	Adam Street and Tillary Street	NB	L	L	0	0	0	-	-	-	-	-
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	-	-	-	-	-	-	-
SB	L			L	634	667	33	0.88	0.90	54.8	56.1	D	E	
	T			T	735	773	38	0.54	0.57	21.6	22.9	C	C	
	R			R	19	20	1	0.04	0.05	8.6	8.7	A	A	
EB	L			L	0	0	0	-	-	-	-	-	-	-
	TR			T	279	264	-15	0.41	0.39	37.6	37.4	D	D	
				R	85	85	0	-	-	-	-	-	-	-
WB	L			L	169	158	-11	1.10	1.00	138.4	112.2	F	F	
	T			T	214	200	-14	0.31	0.29	36.6	36.3	D	D	
	R			R	0	0	0	-	-	-	-	-	-	-
		R2	33	15	-18	0.08	0.04	32.4	30.9	C	C			
Intersection								45.3	43.9	D	D			
3	Old Fulton Street and Vine Street	NB	L	L	1094	1128	34	1.03	1.03	63.0	62.4	E	E	
			T	T	122	126	4	0.25	0.25	20.7	20.1	C	C	
		SB	T	T	509	463	-46	0.41	0.38	23.5	17.0	C	B	
		Intersection								47.2	45.8	D	D	

Long Island City Study Area - No-Action vs With-Action (No Mitigation)- AM Peak Hour															
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS			
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action		
1a	Pulaski Bridge / 11th Street & Jackson Avenue	NB	L	L	71	71	0	-	-	-	-	-	-		
				T	715	705	-10	1.18	1.17	128.5	124.4	F	F		
				R	390	396	6	0.66	0.67	43.9	44.2	D	D		
		SB	T	T	445	445	0	0.68	0.68	8.6	8.7	A	A		
				TR	60	62	2	-	-	-	-	-	-		
				LT	35	31	-4	-	-	-	-	-	-		
		EB	T	T	71	65	-6	0.26	0.23	37.8	37.3	D	D		
				L	480	464	-16	0.69	0.66	44.6	43.8	D	D		
				T	206	208	2	0.29	0.29	14.6	14.6	B	B		
		Intersection									61.3	59.7	E	E	
1b	11th Street & 48TH Avenue	NB	L	L	65	65	0	0.39	0.39	3.2	3.0	A	A		
				T	685	671	-14	0.65	0.64	23.2	19.1	C	B		
				R	495	497	2	0.66	0.66	39.1	39.2	D	D		
		SB	TR	T	15	15	0	-	-	-	-	-	-		
				L	10	10	0	-	-	-	-	-	-		
				R	25	25	0	0.08	0.08	17.8	17.8	B	B		
		WB	R	T	10	10	0	-	-	-	-	-	-		
L	10			10	0	-	-	-	-	-	-				
R	10			10	0	-	-	-	-	-	-				
Intersection									28.0	25.9	C	C			
2	50TH Avenue @ Vernon Blvd	NB	T	T	218	214	-4	0.37	0.36	14.2	14.1	B	B		
				R	11	12	1	0.03	0.03	10.6	10.8	B	B		
		SB	LT	L	35	40	5	-	-	-	-	-	-		
				T	165	164	-1	0.47	0.49	16.9	17.3	B	B		
		EB	LTR	L	35	35	0	-	-	-	-	-	-		
				T	50	58	8	0.29	0.31	13.7	13.8	B	B		
				R	30	30	0	-	-	-	-	-	-		
		Intersection									15.0	15.2	B	B	
		3	Green Street & McGuinness Blvd	NB	T	T	1176	1153	-23	0.85	0.83	27.2	26.2	C	C
						R	30	30	0	-	-	-	-	-	-
SB	L			L	74	73	-1	0.80	0.75	68.0	58.7	E	E		
				T	962	944	-18	0.61	0.60	17.9	17.7	B	B		
				L	185	182	-3	-	-	-	-	-	-		
EB	LTR			T	20	20	0	0.63	0.62	40.7	40.4	D	D		
				R	40	40	0	-	-	-	-	-	-		
Intersection									26.3	25.4	C	C			
4	McGuinness Blvd & Freeman Street	NB	T	T	1361	1335	-26	-	-	-	-	-			
				R	1036	1017	-19	-	-	-	-	-			
		SB	TR	T	115	115	0	-	-	-	-	-			
				R	211	180	-31	-	-	-	-	-			
Intersection															
5	21st Street & 49th Avenue	NB	LTR	L	35	35	0	-	-	-	-	-			
				T	90	90	0	0.57	0.57	33.0	32.9	C	C		
				R	40	40	0	-	-	-	-	-			
		SB	LTR	L	99	98	-1	-	-	-	-	-			
				T	129	127	-2	1.04	1.04	97.1	95.3	F	F		
				R	10	10	0	-	-	-	-	-			
		EB	LTR	L	38	37	-1	-	-	-	-	-			
				T	141	138	-3	0.49	0.48	24.5	24.3	C	C		
				R	11	11	0	-	-	-	-	-			
		WB	LT	L	5	5	0	-	-	-	-	-			
T	40			40	0	0.11	0.11	17.8	17.8	B	B				
R	310			310	0	0.91	0.91	57.4	57.4	E	E				
Intersection									54.9	54.4	D	D			
7	11th Street & Borden Avenue	NB	LTR	L	17	17	0	-	-	-	-	-			
				T	67	67	0	-	-	-	-	-			
				R	23	17	-6	-	-	-	-	-			
		SB	LTR	L	35	32	-3	-	-	-	-	-			
				T	0	0	0	-	-	-	-	-			
				R	125	114	-11	-	-	-	-	-			
		EB	LTR	L	561	570	9	-	-	-	-	-			
				T	50	50	0	-	-	-	-	-			
				R	26	19	-7	-	-	-	-	-			
		WB	LTR	L	40	40	0	-	-	-	-	-			
T	422			424	2	-	-	-	-	-					
R	77			59	-18	-	-	-	-	-					
Intersection															
8a	Van Dam Street & QMT Expy	NB	LT	L	26	23	-3	-	-	-	-	-			
				T	303	297	-6	0.45	0.41	8.3	7.1	A	A		
		SB	TR	T	842	765	-77	0.70	0.63	80.0	61.2	E	E		
				R	19	17	-2	-	-	-	-	-			
		WB	TR	T	891	840	-51	0.70	0.67	26.6	25.5	C	C		
				R	263	258	-5	-	-	-	-	-			
Intersection									42.3	34.6	D	C			
8b	Van Dam Street & Borden Avenue	NB	TR	R	5	5	0	-	-	-	-	-			
				L	636	585	-51	0.97	0.89	95.6	92.4	F	F		
		SB	T	T	206	180	-26	0.29	0.26	3.4	3.0	A	A		
				L	30	29	-1	-	-	-	-	-			
		EB	LTR	L	185	185	0	0.31	0.31	29.0	28.9	C	C		
				T	15	15	0	-	-	-	-	-			
				R	15	15	0	-	-	-	-	-			
Intersection									57.9	56.0	E	E			
9	Jackson Ave / Northern Blvd & Queens Plaza	NB	LT	T	260	301	41	0.65	0.74	51.3	55.4	D	E		
				TR	16	16	0	-	-	-	-	-			
				L	15	15	0	-	-	-	-	-			
		SB	T	T	132	135	3	0.40	0.41	38.9	39.3	D	D		
				L	963	833	-130	0.47	0.41	22.8	21.8	C	C		
				R	327	283	-44	0.66	0.57	31.1	27.9	C	C		
		WB	LTR	L	50	50	0	-	-	-	-	-			
				T	733	723	-10	0.50	0.48	15.5	15.3	B	B		
				TR	60	60	0	-	-	-	-	-			
		Intersection									26.0	26.4	C	C	
11a	Thomson Avenue & Dutch Kills Street	SB	LR	R	0	0	0	-	-	-	-	-			
				T	0	0	0	-	-	-	-	-			
				T	400	388	-12	-	-	-	-	-			
		WB	R	T	385	385	0	-	-	-	-	-			
				R	896	896	0	-	-	-	-	-			
Intersection															
11b	Thomson Avenue & Dutch Kills Street	WB	R	T	1281	1281	0	-	-	-	-	-			
				R	842	689	-153	-	-	-	-	-			
		EB	T	400	388	-12	-	-	-	-	-				
Intersection															
12	21th Street & Queens Plaza N	NB	T	L	0	0	0	-	-	-	-	-			
				T	365	365	0	0.47	0.47	17.6	17.6	B	B		
		SB	R	T	947	951	4	1.05	1.06	70.5	72.2	E	E		
				R	401	334	-67	0.51	0.43	18.3	16.6	B	B		
		WB	LTR	L	123	120	-3	-	-	-	-	-			
				T	78	63	-15	0.71	0.66	47.3	45.1	D	D		
				R	84	82	-2	-	-	-	-	-			
Intersection									46.5	47.8	D	D			

Long Island City Study Area - No-Action vs With-Action (With Mitigation) - MD Peak Hour															
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS			
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action		
1a	Pulaski Bridge / 11th Street & Jackson Avenue	NB	LT	L	70	68	-2	-	-	-	-	-	-	-	
			T	T	515	499	-16	1.03	1.00	84.6	77.6	F	E		
			R	R	283	312	29	0.41	0.45	34.0	34.8	C	C		
		SB	T	T	340	337	-3	0.65	0.66	8.9	9.0	A	A		
			TR	R	75	84	9	-	-	-	-	-	-	-	
			LT	L	55	73	18	-	-	-	-	-	-	-	
		EB	T	T	89	114	25	0.33	0.42	38.9	40.9	D	D		
			L	L	395	342	-53	0.57	0.49	37.5	35.7	D	D		
			T	T	208	209	1	0.28	0.28	12.0	12.1	B	B		
		Intersection									41.6	39.3	D	D	
1b	11th Street & 48TH Avenue	NB	L	L	55	55	0	0.32	0.33	5.9	6.9	A	A		
			T	T	515	517	2	0.57	0.57	11.3	12.7	B	B		
			T	T	410	416	6	0.67	0.68	43.1	43.4	D	D		
		SB	TR	R	35	35	0	-	-	-	-	-	-	-	
			L	L	5	5	0	-	-	-	-	-	-	-	
			T	T	25	25	0	0.08	0.08	15.1	15.1	B	B		
		WB	L	L	15	15	0	-	-	-	-	-	-	-	
			T	T						24.3	25.3	C	C		
Intersection															
2	50TH Avenue @ Vernon Blvd	NB	T	T	230	249	19	0.44	0.48	15.4	16.0	B	B		
			R	R	27	39	12	0.06	0.09	11.0	11.2	B	B		
		SB	LT	L	35	48	13	-	-	-	-	-	-	-	
			T	T	214	207	-7	0.53	0.56	17.6	18.7	B	B		
			L	L	30	30	0	-	-	-	-	-	-	-	
		EB	LTR	T	30	42	12	0.21	0.23	12.7	12.9	B	B		
			R	R	20	20	0	-	-	-	-	-	-	-	
			T	T						15.7	16.3	B	B		
		Intersection													
		3	Green Street & McGuinness Blvd	NB	T	T	752	754	2	0.55	0.55	17.1	17.1	B	B
TR	R				40	39	-1	-	-	-	-	-	-	-	
SB	L			L	78	71	-7	0.38	0.35	19.1	18.1	B	B		
	T			T	624	561	-63	0.38	0.34	14.1	13.6	B	B		
	L			L	243	250	7	-	-	-	-	-	-	-	
EB	LTR			T	40	40	0	0.84	0.85	53.3	54.8	D	D		
	R			R	60	59	-1	-	-	-	-	-	-	-	
	T			T						23.5	24.1	C	C		
Intersection															
4	McGuinness Blvd & Freeman Street	NB	T	T	995	1004	9	-	-	-	-	-	-		
		SB	T	T	702	632	-70	-	-	-	-	-	-		
		TR	R	215	215	0	-	-	-	-	-	-	-		
		WB	R	R	185	114	-71	-	-	-	-	-	-		
		Intersection													
5	21st Street & 49th Avenue	NB	L	L	20	20	0	-	-	-	-	-	-		
			T	T	85	85	0	0.47	0.47	28.7	28.7	C	C		
			R	R	50	50	0	-	-	-	-	-	-		
		SB	L	L	105	96	-9	-	-	-	-	-	-	-	
			T	T	100	91	-9	0.87	0.78	58.7	47.2	E	D		
			R	R	10	9	-1	-	-	-	-	-	-		
		EB	LTR	L	33	38	5	-	-	-	-	-	-	-	
			T	T	111	128	17	0.39	0.45	22.3	23.6	C	C		
			R	R	11	13	2	-	-	-	-	-	-		
		WB	LT	L	5	5	0	-	-	-	-	-	-	-	
			T	T	35	35	0	0.09	0.09	17.5	17.5	B	B		
			R	R	310	310	0	0.79	0.79	39.3	39.3	D	D		
		Intersection									38.0	34.8	D	C	
		7	11th Street & Borden Avenue	NB	L	L	10	8	-2	-	-	-	-	-	-
T	T				80	70	-10	-	-	-	-	-	-		
R	R				41	32	-9	-	-	-	-	-	-		
SB	L			L	45	64	19	-	-	-	-	-	-	-	
	T			T	6	9	3	-	-	-	-	-	-		
	R			R	130	186	56	-	-	-	-	-	-		
EB	LTR			L	581	610	29	-	-	-	-	-	-	-	
	T			T	75	73	-2	-	-	-	-	-	-		
	R			R	41	40	-1	-	-	-	-	-	-		
WB	LTR			L	70	70	0	-	-	-	-	-	-	-	
	T			T	271	265	-6	-	-	-	-	-	-		
	R			R	346	357	11	-	-	-	-	-	-		
Intersection															
8a	Van Dam Street & QMT Expy			NB	LT	L	20	19	-1	-	-	-	-	-	-
		T	T		238	228	-10	0.27	0.26	3.6	3.6	A	A		
		SB	T	T	768	580	-188	0.64	0.48	73.7	22.9	E	C		
			TR	R	14	11	-3	-	-	-	-	-	-		
			T	T	651	643	-8	0.70	0.71	18.1	18.1	B	B		
		WB	TR	R	501	528	27	-	-	-	-	-	-		
		Intersection									35.2	17.6	D	B	
8b	Van Dam Street & Borden Avenue	NB	T	T	238	227	-11	0.38	0.36	28.0	27.8	C	C		
			TR	R	10	10	0	-	-	-	-	-	-		
			L	L	574	403	-171	0.95	0.66	93.1	83.9	F	F		
		SB	T	T	194	177	-17	0.27	0.24	2.2	1.5	A	A		
			L	L	20	20	0	-	-	-	-	-	-		
			T	T	205	205	0	0.32	0.32	23.6	23.6	C	C		
		WB	L	L	35	35	0	-	-	-	-	-	-		
		Intersection									51.4	42.7	D	D	
9	Jackson Ave / Northern Blvd & Queens Plaza	NB	LT	L	15	15	0	-	-	-	-	-	-		
			T	T	272	304	32	0.80	0.85	59.2	62.1	E	E		
			TR	R	42	46	4	-	-	-	-	-	-		
		SB	LT	L	55	56	1	-	-	-	-	-	-		
			T	T	145	147	2	0.66	0.69	53.9	56.1	D	E		
			T	T	762	326	-436	0.40	0.17	21.1	18.9	C	B		
		EB	R	R	210	90	-120	0.41	0.18	23.2	19.7	C	B		
			LT	L	45	44	-1	-	-	-	-	-	-		
			T	T	861	849	-12	0.54	0.51	16.4	16.6	B	B		
		WB	TR	R	90	89	-1	-	-	-	-	-			
		Intersection									27.6	30.3	C	C	
11a	Thomson Avenue & Dutch Kills Street	SB	L	L	1047	1022	-25	0.59	0.58	17.4	17.1	B	B		
			LR	R	25	24	-1	-	-	-	-	-			
		EB	T	T	223	207	-16	0.19	0.18	29.0	28.8	C	C		
			T	T	235	230	-5	0.28	0.27	30.4	30.3	C	C		
		WB	R	R	0	0	0	-	-	-	-	-			
Intersection									21	20.7	C	C			
11b	Thomson Avenue & Dutch Kills Street	WB	T	T	235	230	-5	-	-	-	-	-			
		R	R	885	885	0	-	-	-	-	-				
		T	T	1270	1229	-41	-	-	-	-	-				
Intersection															
12	21th Street & Queens Plaza N	NB	L	L	0	0	0	-	-	-	-	-			
			T	T	818	804	-14	0.99	0.97	54.6	50.7	D	D		
		SB	T	T	496	499	3	0.72	0.73	26.7	26.9	C	C		
			R	R	249	268	19	0.34	0.37	16.5	16.9	B	B		
		WB	L	L	65	55	-10	-	-	-	-	-			
			T	T	44	41	-3	0.41	0.35	38.2	37.0	D	D		
			R	R	51	43	-8	-	-	-	-	-			
		Intersection									39.7	37.5	D	D	

Long Island City Study Area - No-Action vs With-Action (With Mitigation) - PM Peak Hour															
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS			
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action		
1a	Pulaski Bridge / 11th Street & Jackson Avenue	NB	LT	L	70	70	0	1.01	0.98	145.9	135.1	F	F		
			T	T	610	565	-45	0.81	0.75	48.5	45.5	D	D		
			R	R	379	378	-1	0.50	0.54	35.7	38.8	D	D		
		SB	T	T	556	546	-10	0.89	0.88	20.1	19.2	C	B		
			TR	R	55	58	3	-	-	-	-	-	-		
		EB	LT	L	50	104	54	-	-	-	-	-	-		
			T	T	145	237	92	0.41	0.67	40.2	45.0	D	D		
		WB	L	L	666	621	-45	0.86	0.87	49.9	53.4	D	D		
			T	T	159	160	1	0.18	0.18	10.9	10.9	B	B		
		Intersection									40.4	40.9	D	D	
1b	11th Street & 48th Avenue	NB	L	L	70	70	0	0.64	0.63	22.7	25.8	C	C		
			T	T	590	599	9	0.56	0.57	4.6	7.0	A	A		
		SB	T	T	601	594	-7	0.92	0.91	60.1	58.7	E	E		
			TR	R	35	35	0	-	-	-	-	-	-		
		WB	L	L	10	10	0	-	-	-	-	-	-		
			LTR	L	40	40	0	0.10	0.10	15.3	15.3	B	B		
			R	R	15	15	0	-	-	-	-	-	-		
		Intersection									32.8	33.0	C	C	
		2	50TH Avenue @ Vernon Blvd	NB	T	T	277	338	61	0.50	0.60	16.1	18.4	B	B
					R	R	45	63	18	0.12	0.16	11.6	12.2	B	B
SB	LT			L	48	56	8	-	-	-	-	-	-		
	T			T	179	176	-3	0.51	0.55	17.3	18.6	B	B		
EB	L			L	50	50	0	-	-	-	-	-	-		
	T			T	34	41	7	0.29	0.30	13.9	14.0	B	B		
WB	L			L	15	15	0	-	-	-	-	-	-		
	R			R	15	15	0	-	-	-	-	-	-		
Intersection									15.8	17.2	B	B			
3	Green Street & McGuinness Blvd			NB	T	T	892	829	-63	0.61	0.56	18.1	17.2	B	B
		TR	R		20	20	0	-	-	-	-	-	-		
		SB	L	L	59	57	-2	0.35	0.31	19.2	17.2	B	B		
			T	T	970	914	-56	0.55	0.52	16.7	16.1	B	B		
		EB	L	L	170	160	-10	-	-	-	-	-	-		
			T	T	35	35	0	0.63	0.60	40.4	39.3	D	D		
		WB	L	L	55	53	-2	-	-	-	-	-	-		
			R	R	55	53	-2	-	-	-	-	-	-		
		Intersection									20.4	19.6	C	B	
		4	McGuinness Blvd & Freeman Street	NB	T	T	1062	989	-73	-	-	-	-	-	-
TR	R				1029	971	-58	-	-	-	-	-	-		
SB	L			L	340	340	0	-	-	-	-	-	-		
	TR			R	139	101	-38	-	-	-	-	-	-		
WB	L			L	1062	989	-73	-	-	-	-	-	-		
	R			R	1029	971	-58	-	-	-	-	-	-		
Intersection									-	-	-	-			
5	21st Street & 49th Avenue			NB	L	L	40	40	0	-	-	-	-	-	-
					T	T	105	105	0	0.63	0.63	33.5	33.4	C	C
					R	R	65	65	0	-	-	-	-	-	-
		SB	L	L	163	159	-4	-	-	-	-	-	-		
			T	T	79	77	-2	1.17	1.13	137.6	124.8	F	F		
		EB	R	R	30	29	-1	-	-	-	-	-	-		
			L	L	48	61	13	-	-	-	-	-	-		
		WB	T	T	97	123	26	0.50	0.64	25.1	29.9	C	C		
			R	R	36	46	10	-	-	-	-	-	-		
		Intersection									60.9	56.8	E	E	
7	11th Street & Borden Avenue	NB	L	L	11	9	-2	-	-	-	-	-			
			T	T	42	39	-3	-	-	-	-	-			
		SB	L	L	16	6	-10	-	-	-	-	-			
			T	T	53	90	37	-	-	-	-	-			
		EB	L	L	9	15	6	-	-	-	-	-			
			T	T	263	450	187	-	-	-	-	-			
		WB	L	L	567	590	23	-	-	-	-	-			
			T	T	70	65	-5	-	-	-	-	-			
		Intersection									-	-	-	-	
		8a	Van Dam Street & QMT Expy	NB	LT	L	30	26	-4	-	-	-	-	-	
T	T				265	243	-22	0.29	0.26	4.7	4.7	A	A		
SB	TR			R	508	412	-96	0.45	0.37	25.2	22.8	C	C		
	T			T	9	7	-2	-	-	-	-	-			
WB	T			T	867	808	-59	0.74	0.68	26.8	25.2	C	C		
	TR			R	393	356	-37	-	-	-	-	-			
Intersection									23.3	21.7	C	C			
8b	Van Dam Street & Borden Avenue			NB	T	T	265	241	-24	0.44	0.40	39.5	38.8	D	D
					TR	R	10	10	0	-	-	-	-	-	
				SB	L	L	296	240	-56	0.56	0.46	96.8	83.0	F	F
		T	T		212	172	-40	0.57	0.45	85.6	85.7	F	F		
		EB	L	L	30	28	-2	-	-	-	-	-			
			T	T	545	545	0	0.59	0.59	34.0	34.0	C	C		
		WB	L	L	15	15	0	-	-	-	-	-			
			R	R	15	15	0	-	-	-	-	-			
		Intersection									55.1	51.3	E	D	
		9	Jackson Ave / Northern Blvd & Queens Plaza	NB	LT	L	35	35	0	-	-	-	-	-	
T	T				410	305	-105	0.91	0.73	69.6	54.6	E	D		
SB	TR			R	17	21	4	-	-	-	-	-			
	T			T	20	20	0	-	-	-	-	-			
EB	L			L	143	144	1	0.35	0.35	36.7	36.5	D	D		
	T			T	926	465	-461	0.44	0.22	21.7	18.8	C	B		
WB	R			R	199	100	-99	0.40	0.20	23.0	19.4	C	B		
	LT			L	20	20	0	-	-	-	-	-			
Intersection									29.0	25.2	C	C			
11a	Thomson Avenue & Dutch Kills Street			SB	L	L	1385	1374	-11	0.70	0.69	19.3	19.1	B	B
		LR	R		15	15	0	-	-	-	-	-			
		EB	T	T	342	355	13	0.36	0.37	43.6	43.9	D	D		
			T	T	401	400	-1	0.58	0.58	49.1	49.0	D	D		
		WB	R	R	0	0	0	-	-	-	-	-			
			R	R	0	0	0	-	-	-	-	-			
		Intersection									29.3	29.4	C	C	
		11b	Thomson Avenue & Dutch Kills Street	WB	T	T	401	400	-1	-	-	-	-	-	
					R	R	670	670	0	-	-	-	-	-	
				EB	T	T	1727	1729	2	-	-	-	-	-	
T	T				1727	1729	2	-	-	-	-	-			
Intersection									-	-	-	-			
12	21th Street & Queens Plaza N			NB	L	L	0	0	0	-	-	-	-	-	
					T	T	1063	1045	-18	1.12	1.11	95.6	88.4	F	F
				SB	T	T	629	631	2	0.70	0.71	23.5	23.6	C	C
					R	R	272	226	-46	0.34	0.28	15.2	14.4	B	B
				WB	L	L	77	73	-4	-	-	-	-	-	
		T	T		113	87	-26	0.82	0.73	54.4	48.4	D	D		
		WB	L	L	144	136	-8	-	-	-	-	-			
			R	R	144	136	-8	-	-	-	-	-			
		Intersection									59.1	55.6	E	E	

Lower Manhattan Study Area - No-Action vs With-Action (No Mitigation) - AM Peak Hour																
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS				
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action			
1	Trinity Place & Edgar Street	NEB	L	L2	0	0	0	-	-	-	-	-	-			
				L	0	0	-	-	-	-	-	-	-			
				LT	3	0	-3	-	-	-	-	-	-			
		NB	T	79	62	-17	0.09	0.06	10.1	10.0	B	A				
			T	35	35	0	0.09	0.09	20.7	20.7	C	C				
Intersection									13.5	14.1	B	B				
2	Trinity Place & Rector Street	NB	TR	T	104	88	-16	0.16	0.14	10.7	10.5	B	B			
				R	10	9	-	-	-	-	-	-	-			
				L	102	97	-5	-	-	-	-	-	-			
		EB	L	35	34	-1	0.52	0.49	31.9	31.0	C	C				
			Intersection								22.1	22.2	C	C		
3a	HCT Entrance/Exit & West Street	NB	R2	T	1056	1022	-34	0.73	0.71	45.2	44.4	D	D			
				R	424	448	24	0.27	0.28	0.5	0.5	A	A			
				T	1044	1008	-36	0.65	0.63	1.4	1.3	A	A			
		WB	L	1692	1722	30	0.97	0.99	53.0	56.8	D	E				
			Intersection								32.7	34.2	C	C		
3b	HCT Exit & West Street & West Thames Street	NB	TR	T	1056	1022	-34	0.61	0.59	1.2	1.2	A	A			
				R	1044	1008	-36	0.76	0.73	46.1	45.1	D	D			
				R	0	0	0	-	-	-	-	-	-			
		EB	R	0	0	0	-	-	-	-	-	-				
			Intersection								38.4	40.1	D	D		
4	Chambers Street & Centre Street	NB	L	L	430	406	-24	0.48	0.45	26.5	26.0	C	C			
				T	496	469	-27	0.57	0.54	13.8	13.2	B	B			
				T	237	206	-31	0.79	0.69	50.5	43.2	D	D			
		SB	R	31	27	-4	0.29	0.25	35.9	34.7	D	C				
			Intersection								39.4	38.1	D	D		
5a	Canal Street & Hudson Street/Holland Tunnel On-Ramp	NB	L	L	105	105	0	-	-	-	-	-	-			
				T	670	670	0	0.87	0.86	41.0	40.8	D	D			
				R	190	147	-43	0.56	0.43	34.9	31.0	C	C			
				R2	46	45	-1	0.24	0.24	27.9	27.8	C	C			
		EB	L	438	328	-110	0.80	0.62	42.9	35.6	D	D				
			T	589	564	-25	0.71	0.68	19.8	18.8	B	B				
			T	409	342	-67	0.81	0.68	28.9	18.5	C	B				
			Intersection								89	74	-15	-	-	
		WB	R	89	74	-15	-	-	-	-	33.6	29.8	C	C		
			Intersection								41.9	40.8	A	D		
5b	Canal Street & Holland Tunnel On-Ramp	WB	R	T	635	609	-26	0.42	0.40	5.1	5.0	A	A			
				T	498	416	-82	1.08	0.97	97.8	60.0	F	E			
				R	880	880	0	1.14	1.14	100.9	100.9	F	F			
Intersection									70.3	57.7	E	E				
7a	Canal Street S & West Street	NB	TR	T	2680	2678	-2	1.00	1.00	50.2	49.9	D	D			
				R	291	278	-13	0.61	0.58	28.2	27.1	C	C			
				L	734	673	-61	0.75	0.69	115.1	113.0	F	F			
		SB	T	2144	2111	-33	0.76	0.74	8.2	8.0	A	A				
			Intersection								41.9	40.8	D	D		
9	West Street & Albany Street	NB	TR	T	2267	2230	-37	0.79	0.78	25.8	25.3	C	C			
				R	93	92	-1	-	-	-	-	-	-			
				L	5	5	0	-	-	-	-	-	-			
				T	1644	1670	26	0.58	0.59	19.8	19.9	B	B			
		SB	R	140	136	-4	-	-	-	-	-	-				
			L	135	134	-1	-	-	-	-	-	-				
			T	90	90	0	0.76	0.76	57.9	58.3	E	E				
			Intersection								62	65	3	-	-	
		WB	L	0	0	0	-	-	-	-	25.6	25.4	C	C		
			Intersection								23.5	23.1	C	C		
10	West Street & Vesey Street	NB	L	L	5	5	0	-	-	-	-	-	-			
				T	2296	2243	-53	0.71	0.69	20.3	19.8	C	B			
				T	1855	1874	19	0.69	0.70	20.0	20.3	C	C			
				R	330	323	-7	0.86	0.84	44.0	41.6	D	D			
		EB	L	105	104	-1	0.58	0.57	58.1	57.5	E	E				
			R	77	79	2	0.38	0.39	48.5	48.8	D	D				
			L	0	0	0	-	-	-	-	-	-				
			T	0	0	0	-	-	-	-	-	-				
		WB	L	0	0	0	-	-	-	-	-	-				
			Intersection								0	0	-	-		
11	West Street & Chambers Street	NB	TR	T	2328	2256	-72	0.88	0.85	38.4	36.9	D	D			
				T	65	63	-2	-	-	-	-	-	-			
				L	230	223	-7	0.77	0.75	80.2	78.7	F	E			
				T	1793	1789	-4	0.63	0.63	17.1	17.1	B	B			
		SB	R	50	49	-1	0.27	0.26	57.3	57.1	E	E				
			L	105	103	-2	-	-	-	-	-	-				
			T	30	29	-1	0.58	0.57	55.5	55.0	E	E				
			R	15	15	0	-	-	-	-	-	-				
		WB	L	67	69	2	-	-	-	-	-	-				
			Intersection								60	60	0	0.56	0.57	56.0
14	Canal Street/Manhattan Bridge & Bowery	EB	TR	T	839	756	-83	0.87	0.78	34.0	29.0	C	C			
				R	104	103	-1	0.29	0.29	20.7	20.7	C	C			
				T	1149	980	-169	1.05	0.90	69.5	37.4	E	D			
				T	294	292	-2	0.56	0.55	35.0	35.0	D	C			
		NB	R	337	304	-33	0.36	0.33	0.9	0.8	A	A				
			L	331	272	-59	0.57	0.49	16.0	13.6	B	B				
			T	156	142	-14	0.68	0.58	12.7	10.3	B	B				
			R	85	77	-8	-	-	-	-	-	-				
		Intersection									37.7	25.8	D	C		
		15	Manhattan Bridge & Bowery	WB	R	T	294	292	-2	0.51	0.51	6.7	6.6	A	A	
T	572					491	-81	0.37	0.32	18.6	18.0	B	B			
R	555					366	-189	0.94	0.62	54.0	32.2	D	C			
Intersection												30.0	19.6	C	B	
18	6th Avenue & Watts Street	WB	TR	T	776	715	-61	0.37	0.34	17.1	16.9	B	B			
				R	25	25	0	-	-	-	-	-	-			
				L	86	74	-12	-	-	-	-	-	-			
		NB	L	997	925	-72	0.47	0.43	12.5	11.8	B	B				
			Intersection								14.4	13.9	B	B		
19	Canal Street & 6th Avenue/Laight Street	NEB	R	R	629	602	-27	1.05	1.00	82.6	71.1	F	E			
				L	168	160	-8	-	-	-	-	-	-			
				T	694	663	-31	0.52	0.50	24.2	23.9	C	C			
				R	4	4	0	-	-	-	-	-	-			
		EB	T	657	628	-29	0.83	0.79	40.8	38.5	D	D				
			T	1217	1145	-72	1.09	1.03	78.6	56.8	E	E				
			R	265	249	-16	-	-	-	-	-	-				
			Intersection								59.5	48.1	E	D		

Lower Manhattan Study Area - No-Action vs With-Action (Mitigation) - MD Peak Hour														
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS		
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action	
1	Trinity Place & Edgar Street	NEB	L	L2	0	0	0	-	-	-	-	-	-	
				L	0	0	0	-	-	-	-	-	-	
		NB	LT	L	11	1	-10	-	-	-	-	-	-	-
				T	99	10	-89	0.09	0.01	10.0	14.6	B	B	
		EB	L	L	254	451	197	0.61	0.81	30.4	32.7	C	C	
Intersection									24.7	32.4	C	C		
2	Trinity Place & Rector Street	NB	TR	T	297	389	92	0.42	0.55	36.9	30.6	D	C	
				R	56	72	16	-	-	-	-	-	-	
		EB	LT	L	110	79	-31	-	-	-	-	-	-	-
				T	45	44	-1	0.42	0.32	24.3	22.2	C	C	
		Intersection									33.1	28.8	C	C
3a	HCT Entrance/Exit & West Street	NB	R2	T	1033	970	-63	0.58	0.56	25.0	25.0	C	C	
				R2	781	977	196	0.41	0.51	0.8	1.2	A	A	
		SB	T	T	1409	1294	-115	0.65	0.61	1.1	1.0	A	A	
				L	832	964	132	0.63	0.71	35.5	37.0	D	D	
		Intersection									14.2	14.9	B	B
3b	HCT Exit & West Street & West Thames Street	NB	TR	T	1033	970	-63	0.49	0.46	0.7	0.6	A	A	
				R	1409	1294	-115	0.76	0.71	29.4	28.5	C	C	
		SB	R	R	0	0	0	-	-	-	-	-	-	
				L	823	973	150	0.73	0.85	39.2	43.9	D	D	
		Intersection									22.4	24.4	C	C
4	Chambers Street & Centre Street	NB	L	L	344	266	-78	0.43	0.33	25.7	24.3	C	C	
				T	433	334	-99	0.47	0.36	12.1	10.6	B	B	
		SB	TR	T	226	107	-119	0.77	0.36	48.6	33.0	D	C	
				R	15	12	-3	0.21	0.16	35.3	33.6	D	C	
		EB	R	R	391	269	-122	0.89	0.61	50.4	31.8	D	C	
Intersection									32.9	23.3	C	C		
5a	Canal Street & Hudson Street/Holland Tunnel On-Ramp	NB	L	L	75	75	0	-	-	-	-	-	-	
				T	515	515	0	0.96	0.96	58.7	58.7	E	E	
				R	325	207	-118	0.57	0.36	31.2	27.3	C	C	
				R2	58	43	-15	0.31	0.23	29.8	27.8	C	C	
		EB	L	L2	31	31	0	-	-	-	-	-	-	
				L	328	211	-117	0.65	0.44	36.5	31.9	D	C	
		WB	TR	T	357	322	-35	0.44	0.40	13.3	12.6	B	B	
				T	257	104	-153	0.75	0.30	19.1	6.3	B	A	
		Intersection									11.1	4.4	B	A
		5b	Canal Street & Holland Tunnel On-Ramp	EB	T	T	415	365	-50	0.28	0.24	5.6	5.2	A
R	299					121	-178	0.87	0.35	55.9	29.2	E	C	
WB	R			R	605	605	0	0.58	0.58	15.2	15.2	B	B	
				Intersection									21.8	13.5
7a	Canal Street S & West Street	NB	TR	T	2136	2186	50	0.94	0.96	38.4	41.1	D	D	
				R	163	125	-38	0.40	0.31	23.4	21.3	C	C	
		SB	L	L	428	285	-143	0.44	0.29	53.1	38.4	D	D	
				T	1911	2014	103	0.71	0.75	6.5	7.5	A	A	
		Intersection									26.3	25.7	C	C
9	West Street & Albany Street	NB	TR	T	1533	1578	45	0.62	0.64	20.8	21.2	C	C	
				R	85	90	5	-	-	-	-	-	-	
				L	5	5	0	-	-	-	-	-	-	
		SB	TR	T	2174	2349	175	0.76	0.82	24.1	26.0	C	C	
				R	90	86	-4	-	-	-	-	-	-	
		EB	LTR	L	105	101	-4	-	-	-	-	-	-	
				T	95	95	0	0.60	0.60	36.6	36.9	D	D	
Intersection														
10	West Street & Vesey Street	NB	T	L	10	11	1	-	-	-	-	-	-	
				T	1924	1923	-1	0.74	0.76	23.8	24.5	C	C	
		SB	R	R	2165	2304	139	0.88	0.93	29.6	34.2	C	C	
				L	170	164	-6	0.42	0.40	20.5	20.1	C	C	
		EB	L	L	144	136	-8	0.56	0.53	39.9	38.6	D	D	
				R	149	163	14	0.45	0.49	34.6	35.9	C	D	
		WB	LT	L	0	0	0	-	-	-	-	-	-	
				T	0	0	0	-	-	-	-	-	-	
		Intersection												
		11	West Street & Chambers Street	NB	TR	T	1996	1960	-36	0.88	0.86	36.9	35.9	D
T	46					44	-2	-	-	-	-	-	-	
SB	L			L	179	165	-14	0.47	0.44	52.9	52.2	D	D	
				T	2063	2127	64	0.74	0.76	18.7	19.4	B	B	
EB	LTR			R	85	82	-3	0.36	0.34	45.4	45.1	D	D	
				L	45	43	-2	-	-	-	-	-	-	
WB	LT			R	10	11	1	-	-	-	-	-	-	
				L	72	80	8	-	-	-	-	-	-	
Intersection														
14	Canal Street/Manhattan Bridge & Bowery			EB	R	T	631	372	-259	0.65	0.38	25.5	20.5	C
		R	125			124	-1	0.35	0.34	21.6	21.6	C	C	
		WB	T	T	697	419	-278	0.71	0.42	27.0	21.0	C	C	
				R	269	255	-14	0.46	0.44	31.5	31.1	C	C	
		SB	TR	R	431	245	-186	0.44	0.25	1.3	0.5	A	A	
				L	396	189	-207	0.69	0.39	22.5	11.2	C	B	
		Intersection												
		15	Manhattan Bridge & Bowery	NB	T	T	269	255	-14	0.25	0.23	0.7	0.7	A
R	621					354	-267	0.40	0.23	19.0	17.0	B	B	
WB	R			R	272	21	-251	0.21	0.02	7.4	6.2	A	A	
				Intersection										
18	6th Avenue & Watts Street	WB	TR	T	785	685	-100	0.37	0.33	17.2	16.7	B	B	
				R	25	24	-1	-	-	-	-	-	-	
		NB	LT	L	92	69	-23	-	-	-	-	-	-	
				T	882	747	-135	0.39	0.33	8.0	7.6	A	A	
Intersection														
19	Canal Street & 6th Avenue/Laight Street	NEB	R	R	389	318	-71	0.70	0.57	40.2	36.6	D	D	
				L	165	141	-24	-	-	-	-	-	-	
		NB	LTR	T	733	625	-108	0.51	0.43	24.0	23.0	C	C	
				R	4	3	-1	-	-	-	-	-	-	
		WB	TR	T	417	383	-34	0.58	0.54	31.5	30.5	C	C	
				T	703	594	-109	0.69	0.58	22.7	20.3	C	C	
Intersection														

Lower Manhattan Study Area - No-Action vs With-Action (No Mitigation) - PM Peak Hour															
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS			
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action		
1	Trinity Place & Edgar Street	NEB	L	L2	0	0	0	-	-	-	-	-	-		
				L	0	0	0	-	-	-	-	-	-		
		NB	LT	L	1	0	-1	-	-	-	-	-	-	-	
				T	9	0	-9	0.01	-	9.5	-	A	-		
		EB	L	L	134	138	4	0.28	0.29	23.2	23.3	C	C		
Intersection									22.2	23.3	C	C			
2	Trinity Place & Rector Street	NB	TR	T	125	120	-5	0.21	0.20	34.1	35.8	C	D		
				R	18	18	0	-	-	-	-	-	-		
		EB	LT	L	81	59	-22	-	-	-	-	-	-		
				T	40	39	-1	0.35	0.27	23.2	21.5	C	C		
		Intersection									29.1	29.8	C	C	
3a	HCT Entrance/Exit & West Street	NB	T	T	566	539	-27	0.32	0.31	23.4	23.2	C	C		
				R2	1297	1520	223	0.65	0.77	1.5	2.6	A	A		
		SB	T	T	1297	1191	-106	0.61	0.56	1.0	0.8	A	A		
				L	351	347	-4	0.29	0.29	35.8	35.7	D	D		
		Intersection									8.4	8.4	A	A	
3b	HCT Exit & West Street & West Thames Street	NB	T	T	566	539	-27	0.28	0.26	0.5	0.5	A	A		
				R	1297	1191	-106	0.69	0.63	31.2	29.6	C	C		
		SB	TR	R	0	0	0	-	-	-	-	-	-		
				T	510	510	0	0.48	0.48	39.5	39.5	D	D		
		Intersection									25.4	24.6	C	C	
4	Chambers Street & Centre Street	NB	L	L	445	396	-49	0.51	0.45	27.1	26.1	C	C		
				T	533	474	-59	0.66	0.58	16.0	14.2	B	B		
		SB	TR	T	370	230	-140	1.24	0.77	160.8	49.0	F	D		
				R	15	11	-4	0.17	0.13	33.1	31.5	C	C		
		EB	R	R	510	434	-76	1.18	1.01	131.1	74.1	F	E		
Intersection									80.0	39.8	E	D			
5a	Canal Street & Hudson Street/Holland Tunnel On-Ramp	NB	LT	L	45	45	0	-	-	-	-	-	-		
				T	585	585	0	0.88	0.88	44.6	44.6	D	D		
				R	189	184	-5	0.31	0.30	26.5	26.4	C	C		
		EB	L	R2	10	5	-5	0.05	0.02	24.0	23.4	C	C		
				L2	5	5	0	-	-	-	-	-	-		
				L	225	209	-16	0.41	0.38	31.3	30.9	C	C		
		WB	TR	T	462	419	-43	0.54	0.49	15.0	14.1	B	B		
				T	10	0	-10	0.03	-	3.8	-	A	-		
		Intersection									31.1	31.5	C	C	
		5b	Canal Street & Holland Tunnel On-Ramp	EB	T	T	472	424	-48	0.30	0.27	3.2	2.9	A	A
						T	12	0	-12	0.04	-	24.2	-	C	-
WB	R			R	1405	1405	0	1.23	1.23	131.8	131.8	F	F		
				Intersection								99.7	102.7	F	F
7a	Canal Street S & West Street			NB	T	T	2698	2647	-51	0.98	0.97	45.7	42.2	D	D
		R	5			5	0	0.01	0.01	14.8	14.8	B	B		
		SB	L	L	559	476	-83	0.62	0.53	114.2	111.6	F	F		
				T	1884	1854	-30	0.65	0.64	5.4	5.4	A	A		
		Intersection									39.0	35.7	D	D	
9	West Street & Albany Street	NB	TR	T	1284	1227	-57	0.48	0.46	20.5	20.1	C	C		
				R	49	47	-2	-	-	-	-	-	-		
		SB	TR	L	0	0	0	-	-	-	-	-	-		
				T	2324	2402	78	0.70	0.72	25.1	25.7	C	C		
				R	80	76	-4	-	-	-	-	-	-		
		EB	LTR	L	140	140	0	-	-	-	-	-	-		
				T	90	90	0	0.71	0.73	50.7	51.7	D	D		
		Intersection									25.7	26.1	C	C	
		10	West Street & Vesey Street	NB	T	L	0	0	0	-	-	-	-	-	-
T	1536					1469	-67	0.45	0.43	15.0	14.7	B	B		
SB	R			T	2465	2518	53	0.83	0.85	25.1	26.0	C	C		
				R	140	135	-5	0.33	0.31	15.5	15.3	B	B		
EB	L			L	100	99	-1	0.58	0.57	58.3	57.9	E	E		
				R	122	129	7	0.60	0.64	58.7	60.9	E	E		
WB	LT			T	10	10	0	-	-	-	-	-	-		
				R	0	0	0	0.05	0.05	39.7	39.7	D	D		
Intersection											23.1	23.8	C	C	
11	West Street & Chambers Street	NB	TR	T	1879	1781	-98	0.75	0.71	35.4	34.2	D	C		
				R	38	36	-2	-	-	-	-	-	-		
		SB	L	L	195	182	-13	0.82	0.77	89.8	84.7	F	F		
				T	1945	1938	-7	0.72	0.72	23.6	23.5	C	C		
				R	95	90	-5	0.47	0.44	67.4	66.6	E	E		
		EB	LTR	L	50	50	0	-	-	-	-	-	-		
				T	20	20	0	0.27	0.27	39.9	40.1	D	D		
		WB	LT	L	127	135	8	-	-	-	-	-	-		
				T	90	90	0	0.74	0.77	58.8	61.7	E	E		
		Intersection									40.9	40.6	D	D	
14	Canal Street/Manhattan Bridge & Bowery	EB	T	T	1051	763	-288	0.99	0.72	52.4	26.5	D	C		
				R	85	83	-2	0.30	0.29	21.3	21.1	C	C		
		WB	T	T	542	328	-214	0.52	0.31	22.2	19.4	C	B		
				T	177	171	-6	0.30	0.29	29.2	29.1	C	C		
		SB	R	R	619	454	-165	0.56	0.41	1.9	1.1	A	A		
				L	677	370	-307	1.02	0.56	55.1	13.8	E	B		
		Intersection	TR	T	105	32	-73	0.26	0.08	4.3	3.4	A	A		
				R	20	16	-4	0.06	0.05	2.8	2.8	A	A		
		15	Manhattan Bridge & Bowery	NB	T	T	177	171	-6	0.16	0.15	1.6	1.5	A	A
R	802					418	-384	0.40	0.21	18.8	16.8	B	B		
WB	R			R	416	203	-213	0.32	0.16	8.3	7.0	A	A		
				Intersection								13.4	10.8	B	B
18	6th Avenue & Watts Street	WB	TR	T	219	188	-31	0.11	0.09	14.7	14.6	B	B		
				R	0	0	0	-	-	-	-	-	-		
		NB	LT	L	173	147	-26	-	-	-	-	-			
				T	605	516	-89	0.34	0.29	35.7	35.1	D	D		
Intersection									30.8	30.3	C	C			
19	Canal Street & 6th Avenue/Laight Street	NEB	R	R	447	381	-66	0.79	0.67	44.3	39.1	D	D		
				L	44	39	-5	-	-	-	-	-			
		NB	LTR	T	698	625	-73	0.43	0.38	22.9	22.3	C	C		
				R	4	3	-1	-	-	-	-	-			
		WB	TR	T	396	345	-51	0.53	0.46	30.2	29.1	C	C		
				T	1333	1229	-104	0.96	0.88	38.9	30.1	D	C		
		Intersection									10	9	-1	-	
Intersection									34.6	29.4	C	C			

RFK Bridge Study Area - No-Action vs Action (Mitigation) - AM Peak Hour														
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume			V/C		Delay		LOS		
					No-Action	Action	Δ Increment	No-Action	Action	No-Action	Action	No-Action	Action	
1	126th Street and 2nd Avenue	NW	L	L2	30	30	0	-	-	-	-	-	-	
				L	190	190	0	0.97	0.97	85.0	85.0	F	F	
				R	415	415	0	0.31	0.31	7.3	7.3	A	A	
		SB	TR	T	1240	1161	-79	0.56	0.52	21.9	21.4	C	C	
				R	45	41	-4	-	-	-	-	-	-	
				L	40	39	-1	-	-	-	-	-	-	
		WB	L	T	30	29	-1	0.80	0.77	57.6	54.7	E	D	
				L	94	90	-4	-	-	-	-	-	-	
				R	94	90	-4	-	-	-	-	-	-	
		Intersection									28.9	28.5	C	C
2	125th Street and 2nd Avenue	SB	TR	L	501	497	-4	0.54	0.64	7.4	12.7	A	B	
				T	754	683	-71	0.58	0.62	6.9	11.1	A	B	
				R	55	50	-5	-	-	-	-	-	-	
		SW	L	L	394	460	66	1.06	1.04	90.2	79.3	F	E	
				R	133	155	22	-	-	-	-	-	-	
				T	627	678	51	0.86	0.89	44.2	45.4	D	D	
		EB	TR	R	40	40	0	-	-	-	-	-	-	
				L	22	11	-11	-	-	-	-	-	-	
				T	61	30	-31	0.22	0.10	28.9	26.4	C	C	
		Intersection									34.9	37.8	C	D
11	E 134th Street & St. Ann's Avenue	NB	TR	T	140	140	0	0.46	0.46	18.5	18.5	B	B	
				R	80	80	0	-	-	-	-	-	-	
				L	145	145	0	-	-	-	-	-	-	
		SB	LT	T	105	105	0	0.62	0.62	20.2	20.2	C	C	
				L	140	140	0	-	-	-	-	-	-	
				T	120	120	0	0.80	0.80	33.1	33.1	C	C	
		EB	LTR	R	45	45	0	-	-	-	-	-	-	
				L	25	25	0	-	-	-	-	-	-	
				T	105	105	0	0.56	0.56	46.0	46.0	D	D	
		Intersection									24.8	24.8	C	C
22	St Ann's Ave and Bruckner Blvd	NB	LTR	L	25	25	0	-	-	-	-	-	-	
				T	105	105	0	0.56	0.56	46.0	46.0	D	D	
				R	30	30	0	-	-	-	-	-	-	
		SB	LTR	L	55	55	0	-	-	-	-	-	-	
				T	70	70	0	0.57	0.57	48.6	48.6	D	D	
				R	25	25	0	-	-	-	-	-	-	
		EB	LTR	L	50	50	0	-	-	-	-	-	-	
				T	1440	1440	0	0.90	0.90	25.6	25.6	C	C	
				R	30	30	0	-	-	-	-	-	-	
		WB	LTR	L	40	40	0	-	-	-	-	-	-	
T	480			480	0	0.50	0.50	11.6	11.6	B	B			
R	65			65	0	-	-	-	-	-	-			
Intersection									24.9	24.9	C	C		
17	31st St & Astoria Blvd	NB	L	T	96	70	-26	0.26	0.19	37.3	36.1	D	D	
				R	17	12	-5	0.02	0.02	7.3	7.2	A	A	
				L	10	11	1	-	-	-	-	-	-	
		SB	TR	T	558	567	9	0.62	0.63	26.5	27.2	C	C	
				R	174	175	1	0.41	0.41	23.9	24.3	C	C	
				L	10	11	1	-	-	-	-	-	-	
		EB	L	T	362	384	22	0.51	0.54	32.6	33.3	C	C	
				R	26	28	2	-	-	-	-	-	-	
				L	18	15	-3	-	-	-	-	-	-	
		Intersection									28.8	29.3	C	C
24	Hoyt N & 31st St	NB	L	L	18	15	-3	-	-	-	-	-	-	
				T	94	75	-19	0.21	0.16	21.0	19.2	C	B	
				R	262	265	3	0.81	0.81	109.4	109.5	F	F	
		SB	T	L	131	130	-1	-	-	-	-	-	-	
				L	401	402	1	0.26	0.26	9.3	9.3	A	A	
				T	2135	2127	-8	0.66	0.66	14.1	14.0	B	B	
		WB	R	L	35	35	0	0.10	0.10	8.5	8.5	A	A	
				T	97	74	-23	0.16	0.12	21.9	22.6	C	C	
				R	9	7	-2	-	-	-	-	-	-	
		Intersection									27.3	27.3	C	C
3	Hoyt S & 31st St	NB	T	L	20	20	0	-	-	-	-	-	-	
				T	643	647	4	0.38	0.38	15.7	15.9	B	B	
				L	15	16	1	-	-	-	-	-	-	
		SB	L	L	893	946	53	0.79	0.84	46.5	48.7	D	D	
				T	89	95	6	0.38	0.40	41.7	42.9	D	D	
				R	89	95	6	0.38	0.40	41.7	42.9	D	D	
		Intersection									33.6	35.5	C	D

RFK Bridge Study Area - No-Action vs Action (Mitigation) - MD Peak Hour													
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume			V/C		Delay		LOS	
					No-Action	Action	Δ Increment	No-Action	Action	No-Action	Action	No-Action	Action
1	126th Street and 2nd Avenue	NW	L	L2	0	0	0	-	-	-	-	-	-
				L	120	120	0	0.55	0.55	41.3	41.3	D	D
			R	1050	1050	0	0.70	0.70	13.0	13.0	B	B	
		SB	TR	T	1042	929	-113	0.47	0.42	20.7	20.1	C	C
				R	49	42	-7	-	-	-	-	-	-
		WB	L	L	45	42	-3	-	-	-	-	-	-
				T	20	18	-2	0.68	0.62	46.0	42.6	D	D
		R	90	82	-8	-	-	-	-	-	-		
		Intersection							20.3	19.6	C	B	
2	125th Street and 2nd Avenue	SB	TR	L	318	305	-13	0.38	0.37	6.2	7.0	A	A
				T	724	627	-97	0.54	0.48	6.8	7.2	A	A
		SW	L	R	45	39	-6	-	-	-	-	-	-
				L	314	322	8	1.02	0.99	80.0	72.3	F	E
		EB	TR	R	129	132	3	-	-	-	-	-	-
				T	555	604	49	0.72	0.78	36.8	39.1	D	D
		WB	LT	R	50	50	0	-	-	-	-	-	-
				L	18	6	-12	-	-	-	-	-	-
				T	64	22	-42	0.19	0.06	28.3	26.6	C	C
				Intersection							30.6	31.5	C
11	E 134th Street & St. Ann's Avenue	NB	TR	T	170	170	0	0.51	0.51	14.1	14.1	B	B
				R	80	80	0	-	-	-	-	-	-
		SB	LT	L	110	110	0	-	-	-	-	-	-
				T	95	95	0	0.53	0.53	18.0	18.0	B	B
		EB	LTR	L	155	155	0	-	-	-	-	-	-
				T	140	140	0	0.94	0.94	51.5	51.5	D	D
		R	85	85	0	-	-	-	-	-	-		
		Intersection							31.7	31.7	C	C	
22	St Ann's Ave and Bruckner Blvd	NB	LTR	L	20	20	0	-	-	-	-	-	-
				T	140	140	0	0.80	0.80	55.7	55.7	E	E
		SB	LTR	R	75	75	0	-	-	-	-	-	-
				L	85	85	0	-	-	-	-	-	-
		EB	LTR	T	60	60	0	0.73	0.73	59.3	59.3	E	E
				R	35	35	0	-	-	-	-	-	-
		WB	LTR	L	55	55	0	-	-	-	-	-	-
				T	1260	1260	0	0.98	0.98	41.0	41.0	D	D
				R	35	35	0	-	-	-	-	-	-
				L	40	40	0	-	-	-	-	-	-
		T	760	760	0	0.70	0.70	19.9	19.9	B	B		
		R	55	55	0	-	-	-	-	-	-		
		Intersection							37.1	37.1	D	D	
17	31st St & Astoria Blvd	NB	L	T	117	30	-87	0.32	0.08	30.4	27.0	C	C
				R	3	3	0	-	-	4.3	4.3	A	A
		SB	R	T	242	240	-2	0.29	0.29	11.6	11.6	B	B
				R	115	114	-1	0.38	0.38	14.8	14.9	B	B
		EB	L	L	20	21	1	-	-	-	-	-	-
				T	364	382	18	0.46	0.48	22.3	22.6	C	C
		R	40	42	2	-	-	-	-	-	-		
		Intersection							19.5	18.5	B	B	
24	Hoyt N & 31st St	NB	L	L	102	48	-54	-	-	-	-	-	-
				T	41	9	-32	0.29	0.11	9.5	11.5	A	B
		SB	T	T	206	203	-3	0.37	0.37	23.1	23.0	C	C
				R	70	70	0	-	-	-	-	-	-
		WB	L	L	215	215	0	0.17	0.17	11.2	11.2	B	B
				T	1684	1685	1	0.67	0.67	16.7	16.8	B	B
		R	65	65	0	0.17	0.17	12.0	12.0	B	B		
		Intersection							16.4	16.8	B	B	
3	Hoyt S & 31st St	NB	T	T	133	46	-87	0.16	0.06	11.4	22.4	B	C
				R	4	5	1	-	-	-	-	-	-
		SB	L	L	140	139	-1	-	-	-	-	-	-
				T	281	279	-2	0.41	0.39	13.2	13.1	B	B
		EB	L	L	10	11	1	-	-	-	-	-	-
				T	861	918	57	0.55	0.59	26.0	26.6	C	C
		R	76	75	-1	0.23	0.23	23.9	23.8	C	C		
		Intersection							20.9	22.4	C	C	

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

RFK Bridge Study Area - No-Action vs Action (No Mitigation) - LN Peak Hour													
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume			V/C		Delay		LOS	
					No-Action	Action	Δ Increment	No-Action	Action	No-Action	Action	No-Action	Action
1	126th Street and 2nd Avenue	NW	L	L2	5	5	0	-	-	-	-	-	-
				L	75	75	0	0.36	0.36	35.3	35.3	D	D
			R	535	535	0	0.40	0.40	8.1	8.1	A	A	
		SB	TR	T	560	342	-218	0.24	0.14	18.2	17.4	B	B
				R	20	11	-9	-	-	-	-	-	-
		WB	L	L	20	20	0	-	-	-	-	-	-
				T	35	33	-2	0.46	0.44	35.7	35.1	D	D
			R	60	56	-4	-	-	-	-	-		
			Intersection						16.6	15.9	B	B	
2	125th Street and 2nd Avenue	SB	L	L	109	91	-18	0.13	0.11	5.7	6.3	A	A
				T	456	266	-190	0.31	0.18	6.3	6.4	A	A
		TR	R	L	20	10	-10	-	-	-	-	-	-
				T	174	198	24	0.61	0.70	37.6	40.4	D	D
		SW	L	R	153	174	21	-	-	-	-	-	-
				T	535	704	169	0.68	0.87	34.9	43.9	C	D
		EB	TR	R	50	50	0	-	-	-	-	-	-
				L	9	4	-5	-	-	-	-	-	-
		WB	LT	L	9	4	-5	-	-	-	-	-	-
				T	70	10	-60	0.15	0.03	27.5	26.2	C	C
			Intersection						23.8	33.1	C	C	
11	E 134th Street & St. Ann's Avenue	NB	TR	T	100	100	0	0.21	0.21	17.0	17.0	B	B
				R	20	20	0	-	-	-	-	-	-
		SB	LT	L	40	40	0	-	-	-	-	-	-
				T	50	50	0	0.18	0.18	10.9	10.9	B	B
		EB	LTR	L	190	190	0	-	-	-	-	-	-
				T	90	90	0	0.70	0.70	25.0	25.0	C	C
			R	35	35	0	-	-	-	-	-		
			Intersection						20.6	20.6	C	C	
22	St Ann's Ave and Bruckner Blvd	NB	LTR	L	10	10	0	-	-	-	-	-	-
				T	55	55	0	0.24	0.24	33.0	33.0	C	C
		R	L	L	15	15	0	-	-	-	-	-	-
				T	30	30	0	-	-	-	-	-	-
		SB	LTR	L	10	10	0	0.25	0.25	35.0	35.0	C	C
				R	45	45	0	-	-	-	-	-	-
		EB	LTR	L	40	40	0	-	-	-	-	-	-
				T	1515	1515	0	0.88	0.88	26.6	26.6	C	C
		WB	LTR	R	10	10	0	-	-	-	-	-	-
				L	10	10	0	-	-	-	-	-	-
			T	500	500	0	0.33	0.33	12.2	12.2	B	B	
			R	25	25	0	-	-	-	-	-	-	
			Intersection						23.7	23.7	C	C	
17	31st St & Astoria Blvd	NB	L	T	120	26	-94	0.34	0.07	30.7	26.8	C	C
				R	13	6	-7	0.02	0.01	4.5	4.5	A	A
		SB	R	T	345	308	-37	0.47	0.41	9.2	7.4	A	A
				R	165	147	-18	0.39	0.34	10.0	8.4	A	A
		EB	L	L	10	10	0	-	-	-	-	-	-
				T	286	328	42	0.32	0.36	20.2	20.8	C	C
					R	15	17	2	-	-	-	-	-
			Intersection						15.5	13.6	B	B	
24	Hoyt N & 31st St	NB	L	L	80	12	-68	-	-	-	-	-	-
				T	51	25	-26	0.23	0.05	7.7	10.1	A	B
		SB	T	T	220	167	-53	0.28	0.23	21.7	21.1	C	C
				R	40	38	-2	-	-	-	-	-	-
		WB	L	L	440	444	4	0.33	0.33	45.6	40.3	D	D
				T	1105	1063	-42	0.42	0.41	13.2	13.1	B	B
					R	20	20	0	0.04	0.04	10.4	10.4	B
			Intersection						21.2	20.8	C	C	
3	Hoyt S & 31st St	NB	T	T	126	31	-95	0.16	0.04	8.3	16.8	A	B
				R	4	5	1	-	-	-	-	-	-
		SB	L	L	205	203	-2	-	-	-	-	-	-
				T	455	408	-47	0.65	0.58	26.9	31.6	C	C
		EB	L	L	5	6	1	-	-	-	-	-	-
				T	744	882	138	0.44	0.52	24.3	25.4	C	C
					R	55	47	-8	0.17	0.15	22.7	22.3	C
			Intersection						24.1	27.6	C	C	

Queens Midtown Tunnel (Manhattan) Study Area - No-Action vs With-Action (No Mitigation) - AM Peak Hour													
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS	
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
1	E 37th Street & 3rd Avenue	NB	L	L	20	19	-1	0.09	0.09	4.1	4.1	A	A
			T	T	826	773	-53	0.60	0.56	6.8	6.4	A	A
		WB	T	T	728	745	17	0.58	0.59	18.6	18.9	B	B
			R	R	263	271	8	0.75	0.78	47.9	49.6	D	D
Intersection									17.4	18.1	B	B	
2	E 36th Street & 2nd Avenue	SB	L	L	438	415	-23	0.65	0.62	33.2	32.2	C	C
			T	T	1006	970	-36	0.52	0.50	12.1	11.8	B	B
		EB	T	T	431	408	-23	0.48	0.45	27.5	27.2	C	C
			TR	R	47	45	-2	-	-	-	-	-	-
		WB	L	L	515	515	0	1.67	1.61	340.7	311.9	F	F
Intersection									93.6	88.9	F	F	
3	E 34th Street & 3rd Avenue	NB	LT	L	94	88	-6	-	-	-	-	-	-
			T	T	1005	949	-56	0.54	0.51	19.4	18.9	B	B
			R	R	104	99	-5	1.02	0.98	116.9	104.1	F	F
		EB	T	T	416	379	-37	1.01	0.92	73.5	53.9	E	D
			T	T	402	380	-22	1.04	0.98	84.1	69.6	F	E
		WB	R	R	50	48	-2	0.18	0.18	21.3	21.2	C	C
Intersection									47.5	39.9	D	D	
4	E 35th Street & 3rd Avenue	NB	LT	L	109	103	-6	-	-	-	-	-	-
			T	T	946	894	-52	0.48	0.46	2.5	2.4	A	A
		WB	TR	T	574	535	-39	0.61	0.57	26.4	25.5	C	C
			R	R	55	52	-3	0.16	0.15	20.7	20.5	C	C
Intersection									11.0	10.6	B	B	
5	E 34th Street & 2nd Ave	SB	L	L	370	363	-7	0.66	0.65	34.1	34.1	C	C
			TR	T	1453	1422	-31	0.83	0.81	24.7	23.7	C	C
			R	R	120	117	-3	1.18	1.15	162.2	150.8	F	F
		EB	T	T	572	561	-11	0.76	0.74	34.8	34.2	C	C
			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	C	C
Intersection									35.3	34.1	D	C	
6	E 35th Street & 2nd Ave	SB	T	T	1393	1358	-35	0.56	0.55	16.1	16.2	B	B
			TR	R	175	172	-3	0.55	0.54	19.5	19.7	B	B
		EB	R	R	473	468	-5	0.64	0.64	26.8	26.6	C	C
			T	T	87	86	-1	0.14	0.14	18.3	18.3	B	B
		WB	L	L	77	76	-1	0.14	0.14	18.9	18.9	B	B
Intersection									19.0	19.0	B	B	

Queens Midtown Tunnel (Manhattan) Study Area - No-Action vs With-Action (Mitigation) - Midday Peak Hour													
Intersection #	Intersection NMDe	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS	
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
1	E 37th Street & 3rd Avenue	NB	L	L	44	37	-7	0.16	0.15	6.5	7.7	A	A
			T	T	635	553	-82	0.49	0.47	5.9	7.3	A	A
		WB	T	T	577	638	61	0.95	0.98	49.3	52.9	D	D
			R	R	265	303	38	0.73	0.79	44.8	47.8	D	D
Intersection									29.2	34.3	C	C	
2	E 36th Street & 2nd Avenue	SB	L	L	242	248	6	0.43	0.46	28.6	29.9	C	C
			T	T	1035	990	-45	0.50	0.49	11.7	12.1	B	B
		EB	T	T	1278	1335	57	1.34	1.35	189.4	189.8	F	F
			TR	R	85	83	-2	-	-	-	-	-	-
Intersection									106.1	109.7	F	F	
3	E 34th Street & 3rd Avenue	NB	LT	L	24	21	-3	-	-	-	-	-	-
			T	T	1075	949	-126	0.48	0.42	18.5	17.8	B	B
			R	R	173	162	-11	0.78	0.73	47.2	41.9	D	D
		EB	T	T	445	367	-78	0.96	0.80	62.0	39.1	E	D
			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	C	C
Intersection									38.9	33.8	D	C	
4	E 35th Street & 3rd Avenue	NB	LT	L	83	76	-7	-	-	-	-	-	-
			T	T	1072	956	-116	0.82	0.73	14.3	11.6	B	B
		WB	TR	T	519	490	-29	0.57	0.54	25.4	24.8	C	C
			R	R	60	58	-2	0.19	0.19	21.4	21.3	C	C
Intersection									18.0	16.3	B	B	
5	E 34th Street & 2nd Ave	SB	L	L	229	226	-3	0.37	0.37	29.5	30.0	C	C
			TR	T	1325	1271	-54	0.73	0.70	21.9	21.2	C	C
		EB	R	R	45	43	-2	0.34	0.33	18.9	18.5	B	B
			T	T	591	577	-14	0.75	0.73	34.3	33.6	C	C
		WB	R	R	130	126	-4	0.59	0.57	37.9	36.9	D	D
			T	T	253	234	-19	0.63	0.58	33.8	32.2	C	C
Intersection									27.4	26.7	C	C	
6	E 35th Street & 2nd Ave	SB	T	T	1040	992	-48	0.58	0.55	12.1	11.4	B	B
			TR	R	80	81	1	-	-	-	-	-	-
		EB	R	R	476	467	-9	0.62	0.61	26.1	25.9	C	C
			T	T	88	86	-2	0.15	0.14	18.4	18.3	B	B
		WB	L	L	83	81	-2	0.15	0.15	19.0	19.0	B	B
Intersection									16.6	16.1	B	B	

Queens Midtown Tunnel (Manhattan) Study Area - No-Action vs With-Action (No Mitigation) - PM Peak Hour													
Intersection #	Intersection NPM	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS	
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action
1	E 37th Street & 3rd Avenue	NB	L	L	25	22	-3	-	-	-	-	-	-
			T	T	873	780	-93	0.52	0.46	2.9	2.6	A	A
		WB	T	T	618	628	10	0.51	0.51	17.2	17.3	B	B
			R	R	274	293	19	0.69	0.73	42.1	44.7	D	D
		Intersection									14.0	15.3	B
2	E 36th Street & 2nd Avenue	SB	L	L	364	421	57	0.55	0.64	30.2	32.3	C	C
			T	T	1567	1488	-79	0.67	0.64	14.4	13.7	B	B
		EB	T	T	1044	1209	165	0.79	0.90	33.4	39.6	C	D
			TR	R	61	59	-2	-	-	-	-	-	-
		Intersection									23.4	26.8	C
3	E 34th Street & 3rd Avenue	NB	LT	L	69	64	-5	-	-	-	-	-	-
			T	T	1418	1297	-121	0.65	0.59	21.2	20.2	C	C
			R	R	124	118	-6	0.68	0.65	38.6	36.2	D	D
		EB	T	T	386	320	-66	0.81	0.67	40.3	31.9	D	C
			T	T	431	403	-28	1.04	0.97	80.6	63.5	F	E
WB	R	R	79	75	-4	0.30	0.28	23.4	23.1	C	C		
Intersection									35.9	30.9	D	C	
4	E 35th Street & 3rd Avenue	NB	LT	L	173	163	-10	-	-	-	-	-	-
			T	T	1324	1209	-115	0.81	0.75	9.0	7.9	A	A
		WB	TR	T	429	375	-54	0.48	0.42	23.9	22.9	C	C
			R	R	35	31	-4	0.13	0.11	20.4	20.1	C	C
		Intersection									12.6	11.5	B
5	E 34th Street & 2nd Ave	SB	L	L	259	251	-8	0.42	0.41	24.3	24.8	C	C
			TR	T	1657	1581	-76	0.84	0.80	28.5	21.7	C	C
		EB	R	R	55	52	-3	1.28	1.21	231.7	207.1	F	F
			T	T	428	431	3	0.58	0.58	29.4	29.4	C	C
		WB	R	R	111	108	-3	0.60	0.58	39.0	38.0	D	D
Intersection									30.0	28.8	C	C	
6	E 35th Street & 2nd Ave	SB	T	T	1533	1454	-79	0.61	0.58	10.8	10.5	B	B
			TR	R	95	93	-2	0.29	0.29	10.2	10.2	B	B
		EB	R	R	437	430	-7	0.56	0.55	24.8	24.5	C	C
			T	T	1	0	-1	-	-	17.0	-	B	-
		WB	L	L	1	0	-1	-	-	17.0	-	B	-
Intersection									13.8	13.6	B	B	

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

Upper East Study Area - No-Action vs With-Action (No Mitigation) - Late Night Peak Hour															
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS			
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action		
1	E 60th Street & Queensboro Bridge Exit	NB	LTR	L	15	11	-4	-	-	-	-	-	-		
				T	277	210	-67	-	-	-	-	-	-		
				R	628	477	-151	-	-	-	-	-	-		
		EB	LT	L	5	5	0	-	-	-	-	-	-		
				T	15	8	-7	-	-	-	-	-	-		
Intersection		Unsignalized													
2	E 60th Street & 3rd Ave	NB	LTR	L	74	50	-24	0.19	0.13	19.0	18.1	B	B		
				T	969	650	-319	0.58	0.39	22.7	20.0	C	B		
		WB	LTR	T	264	265	1	0.55	0.56	4.8	4.5	A	A		
				R	275	273	-2	1.05	1.04	88.7	85.5	F	F		
		Intersection													
3	E 60th Street & York Ave	NB	LTR	L	525	525	0	0.31	0.31	19.3	19.3	B	B		
				T	681	437	-244	0.39	0.25	20.4	18.6	C	B		
		SB	LTR	L	412	227	-185	0.55	0.30	35.6	28.9	D	C		
				T	0	0	0	0.57	0.32	36.5	29.3	D	C		
				R	35	35	0	0.10	0.10	25.3	25.3	C	C		
		WB	LTR	L	0	0	0	-	-	-	-	-	-	-	
				T	0	0	0	-	-	-	-	-	-	-	
				R	0	0	0	-	-	-	-	-	-	-	
		Intersection													
		4	E 59th Street & 2nd Ave	EB	RR2	T	875	112	-763	1.02	0.13	65.5	20.7	E	C
						R	112	65	-47	0.47	0.34	27.2	24.4	C	C
L	70					64	-6	-	-	-	-	-	-	-	
SB	L2L			L	1044	120	-924	0.73	0.08	46.4	17.1	D	B		
				L	6	3	-3	-	-	-	-	-	-	-	
				T	1579	1367	-212	0.73	0.63	40.7	33.4	D	C		
Intersection															
5	E 60th Street & 2nd Ave	NWB		L2	963	975	12	0.79	0.80	28.8	29.5	C	C		
				L	514	520	6	0.64	0.64	25.4	25.6	C	C		
		SB	LTR	L2	20	13	-7	-	-	-	-	-	-	-	
				T	1656	509	-1147	0.87	0.27	40.8	17.5	D	B		
				R	20	13	-7	0.06	0.04	14.9	14.6	B	B		
		WB	LTR	L	10	6	-4	-	-	-	-	-	-	-	
				T	5	5	0	0.01	0.01	15.2	15.2	B	B		
Intersection															
6	E 60th Street & 1st Ave	NB	TR	T	940	618	-322	0.44	0.29	34.2	25.3	C	C		
				R	84	55	-29	-	-	15.7	14.1	B	B		
		EB	LTR	L	280	278	-2	0.81	0.80	45.6	45.1	D	D		
				T	363	207	-156	0.34	0.19	17.8	16.3	B	B		
Intersection															
7	E 60th Street & Lexington Ave	SB	TR	T	938	644	-294	0.88	0.60	33.6	22.2	C	C		
				R	69	47	-22	0.26	0.18	19.4	17.8	B	B		
		WB	LTR	L	66	62	-4	0.25	0.24	18.7	18.6	B	B		
				T	272	253	-19	0.29	0.27	17.9	17.9	B	B		
Intersection															
8a	E 60th Street & Park Ave NB	NB	LTR	L	64	49	-15	-	-	-	-	-	-		
				T	900	688	-212	0.51	0.39	21.6	19.6	C	B		
		WB	TR	T	266	225	-41	0.42	0.37	28.3	27.6	C	C		
R	75			75	0	-	-	-	-	-	-	-			
Intersection															
8b	E 60th Street & Park Ave NB	SB	TR	T	915	858	-57	0.55	0.52	22.1	21.5	C	C		
				R	99	93	-6	-	-	-	-	-	-	-	
		WB	LTR	L	116	116	0	-	-	-	-	-	-	-	
T	214			158	-56	0.43	0.37	13.8	13.0	B	B				
Intersection															
9	E 60th Street & Madison Ave	NB	LTR	L	109	83	-26	0.27	0.21	19.7	18.6	B	B		
				T	652	494	-158	0.51	0.38	14.5	12.8	B	B		
		WB	TR	T	243	243	0	0.40	0.28	19.6	20.7	B	C		
				R	70	8	-62	-	-	-	-	-	-		
Intersection															
10	E 62nd Street & Queensboro Bridge Exit	NB	LTR	T	810	763	-47	0.67	0.63	12.3	11.5	B	B		
				R	779	735	-44	0.69	0.65	16.0	14.6	B	B		
		EB	LTR	L	0	0	0	-	-	-	-	-	-		
				T	206	147	-59	0.33	0.23	29.4	28.3	C	C		
Intersection															
11	E 60th Street & 5th Ave	SB	LTR	T	632	433	-199	0.71	0.49	21.5	16.1	C	B		
				R	286	196	-90	1.01	0.69	76.2	29.5	E	C		
		WB	LTR	L	151	150	-1	0.42	0.42	27.0	26.9	C	C		
				T	201	176	-25	0.25	0.22	22.1	21.7	C	C		
				Intersection											
12	E 63rd Street & York Ave	NB	TR	T	424	363	-61	0.73	0.62	36.8	32.3	D	C		
				R	432	320	-112	0.67	0.50	16.1	11.8	B	B		
		SB	TR	L	428	376	-52	0.45	0.37	16.4	11.5	B	B		
				T	463	412	-51	0.40	0.35	8.0	7.4	A	A		
				R	70	69	-1	-	-	-	-	-	-		
		WB	TR	L	317	210	-107	0.92	0.64	85.0	56.2	F	E		
				T	258	188	-70	0.94	0.66	73.6	50.8	E	D		
				R	65	50	-15	-	-	-	-	-	-		
Intersection															
13	E 53rd Street & FDR Drive	SB	R	R	149	134	-15	-	-	-	-	-			
				R	353	300	-53	-	-	-	-	-	-		
Intersection		Unsignalized													
14	E 61st Street & 5th Ave	SB	LTR	T	628	449	-179	0.41	0.29	19.8	18.4	B	B		
				L	290	180	-110	0.28	0.17	19.1	17.9	B	B		
		Intersection													
15	E 65th Street & 5th Ave	SB	LTR	L	85	76	-9	-	-	-	-	-			
				T	533	474	-59	0.39	0.35	7.6	7.5	A	A		
		EB	TR	T	638	607	-31	0.75	0.71	34.2	32.8	C	C		
				R	299	284	-15	0.88	0.83	54.5	48.9	D	D		
Intersection															
16	E 66th Street & 5th Avenue	SB	TR	T	538	478	-60	0.65	0.60	20.2	19.1	C	B		
				R	410	388	-22	-	-	-	-	-	-		
		WB	LTR	L	80	72	-8	-	-	-	-	-	-		
				T	474	427	-47	0.66	0.59	30.8	29.2	C	C		
Intersection															
17	E 79th Street & 5th Ave	SB	LTR	L	65	61	-4	-	-	-	-	-			
				T	445	417	-28	0.66	0.61	27.7	26.6	C	C		
		EB	TR	L	150	137	-13	-	-	-	-	-	-		
				T	458	425	-33	0.72	0.66	38.7	36.9	D	D		
				R	189	175	-14	0.92	0.85	78.1	66.5	E	E		
		WB	LTR	L	70	65	-5	0.82	0.76	92.6	83.4	F	F		
				T	543	491	-52	0.56	0.50	25.1	24.2	C	C		
Intersection															
18	E 71st Street & York Ave	NB	LTR	L	64	57	-7	-	-	-	-	-			
				T	390	307	-83	0.49	0.39	23.0	21.1	C	C		
		SB	LTR	L	0	0	0	-	-	-	-	-	-		
				T	348	262	-86	0.40	0.30	21.2	19.7	C	B		
				R	55	44	-11	-	-	-	-	-	-		
		WB	TR	L	205	199	-6	0.66	0.64	41.1	40.2	D	D		
				T	160	158	-2	0.78	0.72	46.3	42.6	D	D		
				Intersection	Unsignalized	T	139	124	-15	-	-	-	-	-	-
						R						30.6	29.5	C	C

Upper East Study Area - No-Action vs With-Action (No Mitigation) - Late Night Peak Hour															
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS			
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action		
1	E 60th Street & Queensboro Bridge Exit	NB	LTR	L	10	9	-1	-	-	-	-	-	-		
				T	89	78	-11	-	-	-	-	-	-		
				R	308	269	-39	-	-	-	-	-	-		
		EB	LT	L	0	0	0	-	-	-	-	-	-		
				T	30	10	-20	-	-	-	-	-	-		
Intersection Unsignalized									21.6	19.8	C	B			
2	E 60th Street & 3rd Ave	NB	L	L	79	67	-12	0.16	0.13	18.2	17.9	B	B		
				T	1059	901	-158	0.52	0.44	21.5	20.5	C	C		
				R	378	194	-184	0.66	0.34	13.3	15.6	B	B		
		WB	R	L	160	27	-133	0.74	0.12	43.2	33.6	D	C		
				T											
Intersection									21.6	19.8	C	B			
3	E 60th Street & York Ave	NB	T	T	475	475	0	0.27	0.27	18.8	18.8	B	B		
				SB	T	T	635	275	-360	0.32	0.14	19.5	17.4	B	B
						L	247	230	-17	0.34	0.32	29.6	29.1	C	C
		EB	R	T	0	0	0	0.35	0.33	30.0	29.5	C	C		
				L	45	22	-23	0.11	0.05	25.2	24.4	C	C		
				R	0	0	0	-	-	-	-	-	-		
		WB	L	L	0	0	0	-	-	-	-	-	-		
				T	0	0	0	-	-	-	-	-	-		
				R	0	0	0	-	-	-	-	-	-		
Intersection									21.4	21.1	C	C			
4	E 59th Street & 2nd Ave	EB	RR2	T	819	131	-688	0.90	0.14	41.2	20.8	D	C		
				R	166	68	-98	0.86	0.48	50.2	28.0	D	C		
				R2	120	91	-29	-	-	-	-	-	-		
		SB	L2	L2	1151	127	-1024	0.80	0.09	17.3	2.5	B	A		
				L	11	2	-9	-	-	-	-	-	-		
				T	1209	616	-593	0.58	0.29	7.7	3.2	A	A		
		Intersection									22.7	9.5	C	A	
		5	E 60th Street & 2nd Ave	NWB	L2	L2	474	142	-332	0.29	0.09	17.6	15.8	B	B
						L	444	133	-311	0.40	0.12	19.2	16.2	B	B
SB	LT			L2	30	10	-20	-	-	-	-	-	-		
				T	1892	598	-1294	0.82	0.26	25.9	16.0	C	B		
				R	89	83	-6	0.24	0.22	17.2	17.0	B	B		
WB	LT			L	5	5	0	-	-	-	-	-	-		
				T	5	0	-5	0.01	0.01	15.2	15.2	B	B		
Intersection									23.1	16.1	C	B			
6	E 60th Street & 1st Ave	NB	TR	T	1290	1073	-217	0.52	0.43	16.5	15.5	B	B		
				R	99	82	-17	-	-	-	-	-	-		
		EB	L	L	145	109	-36	0.41	0.31	27.3	25.4	C	C		
				T	193	170	-23	0.18	0.15	16.1	15.9	B	B		
		Intersection									17.5	16.4	B	B	
7	E 60th Street & Lexington Ave	SB	TR	T	1113	604	-509	0.94	0.51	40.4	20.4	D	C		
				R	70	38	-32	0.17	0.09	16.7	15.8	B	B		
		WB	L	L	160	46	-114	0.37	0.11	21.4	20.4	C	C		
				T	297	215	-82	0.35	0.25	19.8	21.9	B	C		
		Intersection									33.3	20.6	C	C	
8a	E 60th Street & Park Ave NB	NB	LT	L	55	52	-3	-	-	-	-	-			
				T	552	517	-35	0.32	0.30	18.7	18.5	B	B		
				T	332	218	-114	0.46	0.32	28.9	26.7	C	C		
		WB	TR	L	35	35	0	-	-	-	-	-	-		
				T											
Intersection									22.8	21.2	C	C			
8b	E 60th Street & Park Ave NB	SB	TR	T	877	737	-140	0.54	0.45	21.8	20.5	C	C		
				R	104	87	-17	-	-	-	-	-	-		
		WB	LT	L	110	96	-14	-	-	-	-	-			
				T	277	174	-103	0.48	0.34	10.0	11.7	B	B		
		Intersection									18.3	18.2	B	B	
9	E 60th Street & Madison Ave	NB	L	L	82	71	-11	0.16	0.14	17.5	17.3	B	B		
				T	911	788	-123	0.66	0.57	17.7	15.7	B	B		
		WB	TR	T	266	227	-39	0.48	0.32	16.1	18.0	B	B		
				R	115	34	-81	-	-	-	-	-			
		Intersection									17.2	16.4	B	B	
10	E 62nd Street & Queensboro Bridge Exit	NB	R	R	982	1099	117	0.70	0.78	13.0	15.4	B	B		
				EB	LT	L	746	838	92	0.71	0.79	16.7	21.2	B	C
						L	10	6	-4	-	-	-	-	-	
		T	R	142	89	-53	0.25	0.16	28.5	27.4	C	C			
			Intersection									15.4	17.7	B	B
11	E 60th Street & 5th Ave	SB	R	R	876	497	-379	0.91	0.52	26.0	8.8	C	A		
				WB	L	L	284	161	-123	0.71	0.40	20.1	9.3	C	A
						L	169	146	-23	0.37	0.32	24.9	24.0	C	C
		T	R	179	152	-27	0.21	0.18	21.7	21.3	C	C			
			Intersection									24.3	13.1	C	B
12	E 63rd Street & York Ave	NB	TR	T	189	151	-38	0.46	0.37	35.1	33.0	D	C		
				R	377	240	-137	0.47	0.30	7.9	6.2	A	A		
				L	370	310	-60	0.50	0.41	25.7	21.8	C	C		
		SB	L	T	385	323	-62	0.46	0.38	19.3	18.0	B	B		
				R	50	49	-1	-	-	-	-	-			
				L	330	170	-160	0.54	0.30	40.2	34.1	D	C		
		WB	TR	T	295	177	-118	0.54	0.30	37.2	32.9	D	C		
R	25			17	-8	-	-	-	-	-					
Intersection									25.3	21.9	C	C			
13	E 53rd Street & FDR Drive	SB	R	R	158	119	-39	-	-	-	-	-			
				SWB	R	365	298	-67	-	-	-	-	-		
		Intersection Unsignalized													
		WB	L	L	976	607	-369	0.59	0.37	22.6	19.1	C	B		
				L	184	51	-133	0.19	0.05	18.2	16.8	B	B		
Intersection									21.8	18.9	C	B			
15	E 65th Street & 5th Ave	SB	LT	L	75	65	-10	-	-	-	-	-			
				T	731	638	-93	0.47	0.41	6.6	6.6	A	A		
				T	669	652	-17	0.74	0.73	33.6	32.9	C	C		
		EB	R	R	205	200	-5	0.58	0.57	32.7	32.2	C	C		
				Intersection									20.0	20.4	C
16	E 66th Street & 5th Avenue	SB	TR	T	747	650	-97	0.56	0.50	18.2	17.2	B	B		
				R	255	238	-17	-	-	-	-	-			
		WB	LT	L	59	53	-6	-	-	-	-	-			
				T	468	419	-49	0.60	0.54	29.4	28.1	C	C		
		Intersection									22.1	21.1	C	C	
17	E 79th Street & 5th Ave	SB	LTR	L	60	55	-5	-	-	-	-	-			
				R	617	564	-53	0.56	0.51	25.1	24.3	C	C		
				T	70	62	-8	-	-	-	-	-			
		EB	R	T	354	331	-23	0.56	0.53	34.1	33.4	C	C		
				L	110	103	-7	0.38	0.35	33.0	32.5	C	C		
				L	54	47	-7	0.55	0.48	52.9	52.2	E	D		
		WB	T	T	388	329	-59	0.40	0.34	22.5	21.7	C	C		
Intersection									28.1	27.3	C	C			
18	E 71st Street & York Ave	NB	LTR	L	10	8	-2	-	-	-	-	-			
				T	236	104	-132	0.21	0.10	18.4	17.1	B	B		
				R	0	0	0	-	-	-	-	-			
		SB	LTR	L	0	0	0	-	-	-	-	-			
				T	317	181	-136	0.32	0.18	19.8	18.1	B	B		
				R	40	26	-14	-	-	-	-	-			
		WB	TR	L	80	75	-5	0.20	0.19	26.7	26.5	C	C		
				T	180	178	-2	0.59	0.52	35.3	33.1	D	C		
				R	100	70	-30	-	-	-	-	-			
Intersection									24.6	24.8	C	C			

Upper West Study Area - No-Action vs With-Action (No Mitigation) - Late Night Peak Hour															
Intersection #	Intersection Name	Approach	Lane Group	Movement	Volume (vph)			V/C		Delay (seconds)		LOS			
					No-Action	With-Action	Increment	No-Action	With-Action	No-Action	With-Action	No-Action	With-Action		
1	W 72nd Street & West End Ave	NB	L	L	93	83	-10	0.23	0.20	16.0	15.0	B	B		
				T	133	119	-14	0.20	0.17	15.1	13.6	B	B		
		SB	TR	R	59	53	-6	0.15	0.13	15.0	13.6	B	B		
				T	296	273	-22	0.41	0.35	26.2	24.1	C	C		
		EB	LTR	R	25	25	0	-	-	-	-	-	-	-	
				L	10	8	-2	-	-	-	-	-	-	-	
				T	104	81	-23	0.46	0.32	33.1	29.9	C	C		
		WB	LTR	R	79	56	-23	-	-	-	-	-	-	-	
				L	65	48	-17	-	-	-	-	-	-	-	
				T	126	102	-24	0.58	0.41	36.5	31.5	D	C		
R	30			24	-6	-	-	-	-	-	-	-			
Intersection									27.0	23.8	C	C			
2	W 61st Street & West End Ave	NB	LTR	L	10	7	-3	-	-	-	-	-	-		
				T	269	146	-123	0.26	0.14	8.2	11.4	A	B		
		SB	TR	R	24	14	-10	-	-	-	-	-	-	-	
				L	30	30	0	0.10	0.08	12.7	11.9	B	B		
		EB	LTR	R	555	335	-220	0.28	0.17	13.5	12.0	B	B		
				T	15	15	0	-	-	-	-	-	-	-	
				L	10	9	-1	-	-	-	-	-	-	-	
		WB	LTR	T	20	20	0	0.16	0.15	23.8	22.9	C	C		
				R	25	25	0	-	-	-	-	-	-	-	
		Intersection									12.5	12.9	B	B	
3a	W 79th Street & Riverside Drive	NB	LTR	L	40	38	-2	-	-	-	-	-	-		
				T	35	35	0	0.25	0.23	26.1	25.1	C	C		
		SB	LTR	R	5	5	0	-	-	-	-	-	-	-	
				T	5	5	0	-	-	-	-	-	-	-	
		EB	TR	R	50	49	-1	0.46	0.42	30.4	28.6	C	C		
				T	85	79	-6	-	-	-	-	-	-	-	
				L	5	4	-1	-	-	-	-	-	-	-	
		WB	TR	T	396	307	-89	0.42	0.32	11.1	9.5	B	A		
				R	173	134	-39	-	-	-	-	-	-	-	
				L	0	0	0	-	-	-	-	-	-	-	
T	484			444	-40	0.36	0.32	10.4	9.6	B	A				
Intersection									13.8	12.9	B	B			
4a	W 56th Street & 12th Avenue	NB	TR	L	161	136	-25	0.13	0.11	1.5	1.5	A	A		
				R	44	38	-6	-	-	-	-	-	-	-	
		EB	LT	L	340	335	-5	-	-	-	-	-	-	-	
				T	280	271	-9	0.76	0.63	14.6	6.2	B	A		
Intersection									10.0	4.7	A	A			
4b	W 56th Street & West Side Highway	NB	T	T	2966	2884	-82	0.85	0.81	21.3	12.5	C	B		
				L	420	406	-14	0.84	0.69	60.8	48.5	E	D		
		SB	T	T	1338	1274	-64	0.25	0.24	0.1	0.1	A	A		
				L	5	5	0	0.06	0.05	19.0	12.5	B	B		
Intersection									53.6	40.0	D	D			
5a	W 55th Street & West Side Highway	NB	L	T	2696	2648	-48	0.83	0.79	24.6	20.7	C	C		
				T	1338	1274	-64	0.55	0.50	23.7	21.6	C	C		
		SB	TR	R	0	0	0	-	-	-	-	-	-	-	
				L	105	93	-12	-	-	-	-	-	-	-	
		WB	TR	T	5	4	-1	0.39	0.31	6.9	6.3	A	A		
				R	270	236	-34	0.54	0.43	7.4	6.1	A	A		
				L	0	0	0	-	-	-	-	-	-	-	
Intersection									22.7	19.7	C	B			
5b	W 55th Street & 12th Avenue	NB	LT	L	0	0	0	-	-	-	-	-	-		
				T	195	165	-30	0.26	0.21	12.7	11.3	B	B		
		SB	TR	R	0	0	0	-	-	-	-	-	-	-	
				L	0	0	0	-	-	-	-	-	-	-	-
		WB	LTR	R	0	0	0	-	-	-	-	-	-	-	-
				T	380	333	-47	0.45	0.36	40.4	36.7	D	D		
Intersection									31.1	28.4	C	C			
5c	W 55th Street & West Side Highway Arterial	SB	T	T	0	0	0	-	-	-	-	-	-	-	
				L	10	9	-1	0.03	0.02	2.5	2.3	A	A		
		Intersection									2.5	2.3	A	A	
6	W 60th Street & Broadway	NB	L	L	312	291	-21	0.68	0.46	42.1	31.5	D	C		
				T	476	444	-32	0.34	0.28	13.3	9.6	B	A		
		SB	TR	T	620	363	-257	0.76	0.43	25.6	20.7	C	C		
				R	85	50	-35	-	-	-	-	-	-	-	-
Intersection									25.3	19.3	C	B			
7	W 60th Street & Columbus Ave	SB	TR	T	1024	476	-548	0.70	0.32	5.8	4.0	A	A		
				R	70	33	-37	-	-	-	-	-	-	-	-
		WB	L	L	235	180	-55	0.75	0.55	28.6	19.1	C	B		
				T	162	161	-1	0.27	0.26	4.9	4.3	A	A		
Intersection									9.4	7.4	A	A			
8	W 60th Street & Amsterdam Ave	NB	LT	L	40	34	-6	-	-	-	-	-	-	-	
				T	949	777	-172	0.40	0.32	13.5	12.2	B	B		
		WB	TR	T	147	127	-20	0.38	0.32	44.0	44.9	D	D		
				R	85	67	-18	0.30	0.23	43.6	44.3	D	D		
		Intersection									20.0	19.2	B	B	
9	W 60th Street & West End Ave	NB	L	L	15	9	-6	0.06	0.03	10.4	9.3	B	A		
				T	258	120	-138	0.18	0.08	10.8	9.5	B	A		
		SB	TR	T	570	354	-216	0.29	0.17	5.2	5.0	A	A		
				R	10	6	-4	-	-	-	-	-	-	-	-
		EB	LTR	L	0	0	0	-	-	-	-	-	-	-	-
				T	0	0	0	0.04	0.03	20.0	19.3	B	B		
				R	15	15	0	-	-	-	-	-	-	-	-
		WB	LTR	L	100	94	-6	-	-	-	-	-	-	-	-
				T	42	20	-22	0.47	0.39	41.8	39.9	D	D		
				R	45	47	2	-	-	-	-	-	-	-	-
Intersection											13.8	15.3	B	B	
10	W 61st Street & Amsterdam Ave	NB	TR	T	1019	831	-188	0.43	0.35	5.0	4.4	A	A		
				R	15	13	-2	-	-	-	-	-	-	-	-
		EB	LT	L	70	60	-10	-	-	-	-	-	-	-	-
				T	4	4	0	0.20	0.16	30.3	28.9	C	C		
WB	R	R	25	24	-1	0.07	0.07	22.6	21.8	C	C				
Intersection									7.2	6.7	A	A			
11	W 61st Street & Columbus Ave	SB	LT	L	184	156	-28	-	-	-	-	-	-	-	
				T	1094	509	-585	0.70	0.36	19.8	13.9	B	B		
		Intersection									19.8	13.9	B	B	
12	W 61st Street & Broadway	NB	TR	T	476	444	-32	0.26	0.24	5.0	7.0	A	A		
				R	0	0	0	-	-	-	-	-	-	-	-
		SB	LT	L	20	0	-20	-	-	-	-	-	-	-	-
				T	590	317	-273	0.39	0.18	17.1	14.3	B	B		
		EB	LTR	L	40	37	-3	-	-	-	-	-	-	-	-
				T	29	23	-6	0.49	0.39	34.8	36.1	C	D		
Intersection									15.4	14.7	B	B			
13	W 61st Street & Columbus Ave	NB	T	T	683	609	-74	0.34	0.30	13.6	12.6	B	B		
				L	49	23	-26	0.16	0.07	19.0	1.8	B	A		
		Intersection									14.0	12.2	B	B	
14	W 81st Street & Central Park West	NB	LTR	L	30	29	-1	-	-	-	-	-	-	-	
				T	320	318	-2	0.38	0.37	20.5	19.6	C	B		
		SB	LTR	R	170	164	-6	0.36	0.33	21.4	20.3	C	C		
				L	55	45	-10	0.19	0.15	19.5	18.3	B	B		
		EB	TR	T	201	172	-29	0.50	0.42	24.4	21.8	C	C		
				R	25	20	-5	-	-	-	-	-	-	-	-
				L	15	14	-1	0.18	0.15	44.0	41.7	D	D		
		WB	TR	T	244	219	-25	0.66	0.57	36.4	32.3	D	C		
				R	30	28	-2	0.09	0.08	24.2	23.4	C	C		
				L	93	76	-17	0.37	0.27	21.2	18.2	C	B		
T	210			163	-47	0.56	0.42	32.7	28.5	C	C				
Intersection									30.2	27.4	C	C			
15	W 60th Street & Central Park West	NB	LT	L	30	29	-1	-	-	-	-	-	-	-	
				T	444	429	-15	0.34	0.31	1.2	1.1	A	A		
		SB	TR	T	403	316	-87	0.36	0.28	17.5	16.0	B	B		
				R	30	28	-2	-	-	-	-	-	-	-	-
		WB	TR	L	104	69	-35	0.29	0.18	26.3	24.0	C	C		
				T	360	293	-67	0.86	0.67	49.0	35.0	D	C		
Intersection									41.4	33.1	D	C			
16	W 65th Street & Central Park West	NB	TR	T	439	425	-14	0.84	0.79	24.5	18.5	C	B		
				R	305	302	-3	-	-	-	-	-	-	-	-
		SB	LT	L	212	165	-47	0.57	0.43	22.3	14.0	C	B		
				T	295	220	-75	0.32	0.24	6.8	4.2	A	A		
		EB	TR	L	35	33	-2	0.10	0.09	24.5	23.6	C	C		
				T	419	395	-24	0.61	0.55	31.6	29.6	C	C		
Intersection									-	-	-	-			
Intersection										28.0	25.6	C	C		