

Segment Arterial Travel Time and Delay Results  
 SAMP Environmental Review  
 Concord Engineering  
 5/8/2024

#	Arterial	Direction	Distance (mi)	2022 Existing				2032 No Action				2032 PM Proposed Action				2032 Proposed Action with Mitigated/Optimized								
				Travel Time (s/veh)	Delay (s/veh)	Running Time (s/veh)	Avg Speed (mph)	Distance (mi)	Travel Time (s/veh)	Delay (s/veh)	Running Time (s/veh)	Avg Speed (mph)	Travel Time (s/veh)	Delay (s/veh)	Running Time (s/veh)	Avg Speed (mph)	Travel Time Diff, 2032NA (s/veh)	Travel Time Diff, 2032NA (s/veh)	Running Time Diff, 2032NA (s/veh)	Avg Speed Diff, 2032NA (mph)				
Segment 1	24th Ave S	NB	0.8	92.6	12	80.6	31.1	0.8	96.7	15.6	81.1	29.8	99.9	18.8	81.1	28.8	<b>3.2</b>	<b>-1.0</b>	110.7	29.4	81.3	26.0	<b>14</b>	<b>-3.8</b>
		SB	0.8	93.3	17	76.3	30.9	0.8	114.9	37.7	77.2	25.1	127.5	50	77.5	22.6	<b>12.6</b>	<b>-2.5</b>	156.2	79	77.2	18.4	<b>41.3</b>	<b>-6.7</b>
Segment 2	SW 148th St/SR 518	EB	0.2	60.6	49.1	11.5	11.9	0.2	79.7	61.7	18	9.0	81.3	63.4	17.9	8.9	<b>1.6</b>	<b>-0.1</b>	81.3	63.4	17.9	8.9	<b>1.6</b>	<b>-0.1</b>
		WB	0.2	94.9	84.2	10.7	7.6	0.2	77.6	60.8	16.8	9.3	80.5	63.7	16.8	8.9	<b>2.9</b>	<b>-0.4</b>	80.5	63.7	16.8	8.9	<b>2.9</b>	<b>-0.4</b>
Segment 3	DMMD	NB	0.1	11.3	2.0	9.3	31.9	0.1	11.8	2.5	9.3	30.5	12.6	3.2	9.4	28.6	<b>0.8</b>	<b>-1.9</b>	18.0	5.0	13	20.0	<b>6.2</b>	<b>-10.5</b>
		SB	0.1	9.7	0.4	9.3	37.1	0.1	10.0	0.5	9.5	36.0	10.1	0.6	9.5	35.6	<b>0.1</b>	<b>-0.4</b>	24.2	11.9	12.3	14.9	<b>14.2</b>	<b>-21.1</b>
Segment 4	S 154th St	EB	0.2	25.8	3.3	22.5	27.9	0.2	27.9	5.4	22.5	25.8	28.0	5.5	22.5	25.7	<b>0.1</b>	<b>-0.1</b>	28.0	5.5	22.5	25.7	<b>0.1</b>	<b>-0.1</b>
		WB	0.2	37.2	14.6	22.6	19.4	0.2	56.3	33.6	22.7	12.8	59.5	36.7	22.8	12.1	<b>3.2</b>	<b>-0.7</b>	59.5	36.7	22.8	12.1	<b>3.2</b>	<b>-0.7</b>
Segment 5	SR 99	NB	0.3	80.3	54.0	26.3	13.4	0.3	188.0	150.7	37.3	5.7	168.5	139.4	29.1	6.4	<b>-19.5</b>	<b>0.7</b>	181.2	151.9	29.3	6.0	<b>-6.8</b>	<b>0.3</b>
		SB	0.3	86.0	58.9	27.1	12.6	0.3	168.7	139.1	29.6	6.4	172.8	143.1	29.7	6.3	<b>4.1</b>	<b>-0.1</b>	200.6	170.2	30.4	5.4	<b>31.9</b>	<b>-1</b>
Segment 6	51st Ave S	NB	0.1	25.2	9.9	15.3	14.3	0.1	29.7	14.5	15.2	12.1	33.4	17.8	15.6	10.8	<b>3.7</b>	<b>-1.3</b>	33.4	17.8	15.6	10.8	<b>3.7</b>	<b>-1.3</b>
		SB	0.1	15.5	0.1	15.4	23.2	0.1	15.5	0.1	15.4	23.2	15.5	0.2	15.3	23.2	<b>0</b>	<b>0</b>	15.5	0.2	15.3	23.2	<b>0</b>	<b>0</b>
Segment 7	SW 160th St	EB	0.5	79.4	32.4	47	22.7	0.5	140.0	83.5	56.5	12.9	155.7	99.0	56.7	11.6	<b>15.7</b>	<b>-1.3</b>	168.9	112.4	56.5	10.7	<b>28.9</b>	<b>-2.2</b>
		WB	0.5	71.4	30.8	40.6	25.2	0.5	160.2	105.9	54.3	11.2	223.6	174.5	49.1	8.1	<b>63.4</b>	<b>-3.1</b>	136.0	82.6	53.4	13.2	<b>-24.2</b>	<b>2</b>
Segment 8	International Blvd S 170th St	NB	1.1	221.6	104.3	117.3	17.9	1.1	503.6	234.2	269.4	7.9	804.3	149.8	654.5	4.9	<b>300.7</b>	<b>-3</b>	804.3	149.8	654.5	4.9	<b>300.7</b>	<b>-3</b>
		SB	1.1	264.8	152.0	112.8	15.0	1.1	570.9	325.1	245.8	6.9	465.7	300.9	164.8	8.5	<b>-105.2</b>	<b>1.6</b>	465.7	300.9	164.8	8.5	<b>-105.2</b>	<b>1.6</b>
		EB	0.1	62.0	54.0	8	5.8	0.1	55.0	47.9	7.1	6.5	61.4	54.6	6.8	5.9	<b>6.4</b>	<b>-0.6</b>	61.4	54.6	6.8	5.9	<b>6.4</b>	<b>-0.6</b>
Segment 9	S Kent Des Moines Rd	EB	0.4	156.0	114.5	41.5	9.2	0.4	128.6	87.8	40.8	11.2	131.4	90.8	40.6	11.0	<b>2.8</b>	<b>-0.2</b>	131.4	90.8	40.6	11.0	<b>2.8</b>	<b>-0.2</b>
		WB	0.4	100.1	60.7	39.4	14.4	0.4	247.5	208.1	39.4	5.8	229.6	190.6	39	6.3	<b>-17.9</b>	<b>0.5</b>	229.6	190.6	39	6.3	<b>-17.9</b>	<b>0.5</b>

#	Segments of Interest	Study Intersections Included
1	24 <sup>th</sup> Ave. S: S 142 <sup>nd</sup> St. to S 154 <sup>th</sup> St.	15, 16, 17, 97, 25, 26, 27
2	SW 148 <sup>th</sup> St.: 1 <sup>st</sup> Ave S to SR-509	20, 21, 22
3	Des Moines Memorial Dr.: SR-518 Ramp	23, 24
4	S 154 <sup>th</sup> St.: 24 <sup>th</sup> Ave S and SR-518 Ramp	27, 28, 29
5	International Boulevard: S 152 <sup>nd</sup> St. to S	35, 36, 37, 39
6	51 <sup>st</sup> Ave S.: SR-518 Ramp Terminals	41, 42
7	SW 160 <sup>th</sup> St.: 1 <sup>st</sup> Ave S. to Des Moines	49, 50, 51, 52
8	NAE Off-Ramp/S 170 <sup>th</sup> St. to International	63, 64, 65, 66, 67
9	SR-516: Pacific Highway S and I-5 Ramp	93, 94, 95

Segment Arterial Travel Time and Delay Results  
 SAMP Environmental Review  
 Concord Engineering  
 5/8/2024

#	Arterial	Direction	Distance (mi)	2022 Existing				2037 PM No Action				2037 PM Proposed Action				2037 Proposed Action with Mitigation/Optimization								
				Travel Time (s/veh)	Delay (s/veh)	Running Time (s/veh)	Avg Speed (mph)	Distance (mi)	Travel Time (s/veh)	Delay (s/veh)	Running Time (s/veh)	Avg Speed (mph)	Travel Time (s/veh)	Delay (s/veh)	Running Time (s/veh)	Avg Speed (mph)	Travel Time Diff, 2037NA (s/veh)	Travel Time Diff, 2037NA Mit (s/veh)	Travel Time Diff, 2037NA Mit (s/veh)	Avg Speed Diff, 2037NA Mit (mph)				
Segment 1	24th Ave S	NB	0.8	92.6	12	80.6	31.1	0.8	97.9	16.7	81.2	29.4	100.6	19.6	81	28.6	<b>2.7</b>	<b>-0.8</b>	112.1	31	81.1	25.7	<b>14.2</b>	<b>-3.7</b>
		SB	0.8	93.3	17	76.3	30.9	0.8	116.3	39.3	77	24.8	137.6	60.2	77.4	20.9	<b>21.3</b>	<b>-3.9</b>	170.8	93.6	77.2	16.9	<b>54.5</b>	<b>-7.9</b>
Segment 2	SW 148th St/SR 518	EB	0.2	60.6	49.1	11.5	11.9	0.2	66.3	48.2	18.1	10.9	66.6	48.6	18	10.8	<b>0.3</b>	<b>-0.1</b>	71.2	53.3	17.9	10.1	<b>4.9</b>	<b>-0.8</b>
		WB	0.2	94.9	84.2	10.7	7.6	0.2	113.9	96.7	17.2	6.3	106.1	89.2	16.9	6.8	<b>-7.8</b>	<b>0.5</b>	89.8	73.1	16.7	8.0	<b>-24.1</b>	<b>1.7</b>
Segment 3	DMMD	NB	0.1	11.3	2.0	9.3	31.9	0.1	12.0	2.7	9.3	30.0	12.4	3.2	9.2	29.0	<b>0.4</b>	<b>-1</b>	18.2	5.2	13	19.8	<b>6.2</b>	<b>-10.2</b>
		SB	0.1	9.7	0.4	9.3	37.1	0.1	10.1	0.6	9.5	35.6	10.2	0.7	9.5	35.3	<b>0.1</b>	<b>-0.3</b>	28.7	16.6	12.1	12.5	<b>18.6</b>	<b>-23.1</b>
Segment 4	S 154th St	EB	0.2	25.8	3.3	22.5	27.9	0.2	27.8	5.4	22.4	25.9	27.9	5.5	22.4	25.8	<b>0.1</b>	<b>-0.1</b>	27.9	5.5	22.4	25.8	<b>0.1</b>	<b>-0.1</b>
		WB	0.2	37.2	14.6	22.6	19.4	0.2	66.8	44.0	22.8	10.8	71.3	48.6	22.7	10.1	<b>4.5</b>	<b>-0.7</b>	71.3	48.6	22.7	10.1	<b>4.5</b>	<b>-0.7</b>
Segment 5	SR 99	NB	0.3	80.3	54.0	26.3	13.4	0.3	164.6	135.4	29.2	6.6	147.7	119.3	28.4	7.3	<b>-16.9</b>	<b>0.7</b>	187.5	158.4	29.1	5.8	<b>22.9</b>	<b>-0.8</b>
		SB	0.3	86.0	58.9	27.1	12.6	0.3	184.9	154.6	30.3	5.8	180.5	150.5	30	6.0	<b>-4.4</b>	<b>0.2</b>	193.7	163.2	30.5	5.6	<b>8.8</b>	<b>-0.2</b>
Segment 6	51st Ave S	NB	0.1	25.2	9.9	15.3	14.3	0.1	46.1	30.9	15.2	7.8	50.2	34.6	15.6	7.2	<b>4.1</b>	<b>-0.6</b>	50.2	34.6	15.6	7.2	<b>4.1</b>	<b>-0.6</b>
		SB	0.1	15.5	0.1	15.4	23.2	0.1	15.6	0.2	15.4	23.1	15.6	0.2	15.4	23.1	<b>0</b>	<b>0</b>	15.6	0.2	15.4	23.1	<b>0</b>	<b>0</b>
Segment 7	SW 160th St	EB	0.5	79.4	32.4	47	22.7	0.5	149.5	93.1	56.4	12.0	160.8	102.6	58.2	11.2	<b>11.3</b>	<b>-0.8</b>	173.5	117.2	56.3	10.4	<b>24</b>	<b>-1.6</b>
		WB	0.5	71.4	30.8	40.6	25.2	0.5	242.5	192.6	49.9	7.4	432.1	365.7	66.4	4.2	<b>189.6</b>	<b>-3.2</b>	144.0	90.8	53.2	12.5	<b>-98.5</b>	<b>5.1</b>
Segment 8	International Blvd S 170th St	NB	1.1	221.6	104.3	117.3	17.9	1.1	618.6	319.4	299.2	6.4	900.8	183.0	717.8	4.4	<b>282.2</b>	<b>-2</b>	900.8	183.0	717.8	4.4	<b>282.2</b>	<b>-2</b>
		SB	1.1	264.8	152.0	112.8	15.0	1.1	646.4	318.5	327.9	6.1	678.5	321.4	357.1	5.8	<b>32.1</b>	<b>-0.3</b>	678.5	321.4	357.1	5.8	<b>32.1</b>	<b>-0.3</b>
		EB	0.1	62.0	54.0	8	5.8	0.1	61.4	52.8	8.6	5.9	65.6	58.5	7.1	5.5	<b>4.2</b>	<b>-0.4</b>	65.6	58.5	7.1	5.5	<b>4.2</b>	<b>-0.4</b>
Segment 9	S Kent Des Moines Rd	WB	0.5	14.7	3.7	11	24.5	0.1	10.8	2.5	8.3	33.3	9.6	1.7	7.9	37.5	<b>-1.2</b>	<b>4.2</b>	9.6	1.7	7.9	37.5	<b>-1.2</b>	<b>4.2</b>
		EB	0.4	156.0	114.5	41.5	9.2	0.4	126.0	85.1	40.9	11.4	127.1	86.0	41.1	11.3	<b>1.1</b>	<b>-0.1</b>	157.1	116.2	40.9	9.2	<b>31.1</b>	<b>-2.2</b>
		WB	0.4	100.1	60.7	39.4	14.4	0.4	345.7	307.2	38.5	4.2	292.8	253.7	39.1	4.9	<b>-52.9</b>	<b>0.7</b>	307.2	268.4	38.8	4.7	<b>-38.5</b>	<b>0.5</b>

#	Segments of Interest	Study Intersections Included
1	24 <sup>th</sup> Ave. S: S 142 <sup>nd</sup> St. to S 154 <sup>th</sup> St.	15, 16, 17, 97, 25, 26, 27
2	SW 148 <sup>th</sup> St.: 1 <sup>st</sup> Ave S to SR-509	20, 21, 22
3	Des Moines Memorial Dr.: SR-518 Ramp	23, 24
4	S 154 <sup>th</sup> St.: 24 <sup>th</sup> Ave S and SR-518 Ramp	27, 28, 29
5	International Boulevard: S 152 <sup>nd</sup> St. to S	35, 36, 37, 39
6	51 <sup>st</sup> Ave S.: SR-518 Ramp Terminals	41, 42
7	SW 160 <sup>th</sup> St.: 1 <sup>st</sup> Ave S. to Des Moines M	49, 50, 51, 52
8	NAE Off-Ramp/S 170 <sup>th</sup> St. to Internation	63, 64, 65, 66, 67
9	SR-516: Pacific Highway S and I-5 Ramp	93, 94, 95

			2022 Existing				2032 No Action				2032 Proposed Action				2032 Proposed Action Mitigated				
			EB	WB	NB	SB	EB	WB	NB	SB	EB	WB	NB	SB	EB	WB	NB	SB	
Segment 1 - 24th Ave S	15	24th Ave S & S 142nd St	Veh entered model	111	57	257	295	145	75	385	420	145	75	380	420	145	75	380	420
			Veh entered sim	145	58	312	298	136	75	386	429	145	77	353	419	144	77	356	417
			Difference	1.31	1.02	1.05	1.01	0.94	1.00	1.00	1.02	1.00	1.03	0.93	1.00	0.99	1.03	0.96	0.99
			Queue model (95th)	0	0	0	0	23	10	85	100	23	10	85	100	23	10	85	100
			Queue sim (95th)	62	46	72	76	75	49	99	117	67	49	80	116	69	52	98	115
			Difference	N/A	N/A	N/A	N/A	3.26	4.90	1.16	1.17	2.91	4.90	0.94	1.16	3.00	5.20	1.15	1.15
			Delay model	10.1	9.3	12.4	12.3	11.0	10.1	14.7	15.6	11.0	10.1	14.5	15.6	11.0	10.1	14.5	15.6
			Delay sim	4.3	4.7	6.3	6.5	6.1	5.6	7.7	8.8	5.9	5.7	7.1	8.5	6.2	5.4	7.9	8.8
			Difference	0.43	0.51	0.51	0.53	0.55	0.55	0.52	0.56	0.54	0.56	0.49	0.54	0.56	0.53	0.54	0.56
			Segment 1 - 24th Ave S	16	24th Ave S & S 144th St	Veh entered model	110	256	283		165	345	405		170	345	405		170
Veh entered sim	115	260				295		166	339	407		154	317	410		172	328	408	
Difference	1.05	1.02				1.04		1.01	0.98	1.00		0.91	0.92	1.01		1.01	0.95	1.01	
Queue model (95th)	18	0				4		39	0	6		41	0	6		41	0	6	
Queue sim (95th)	65	3				51		99	12	61		83	6	70		109	9	85	
Difference	3.61	N/A				12.75		2.54	N/A	10.17		2.02	N/A	11.67		2.66	N/A	14.17	
Delay model	12.3	0.0				2.1		16.8	0.0	2.5		17.1	0.0	2.5		17.1	0.0	2.5	
Delay sim	6.4	1.0				3.2		11.2	1.4	4.1		9.8	1.3	4.0		12.8	3.4	4.7	
Difference	0.52	N/A				1.52		0.67	N/A	1.64		0.57	N/A	1.60		0.75	N/A	1.88	
Segment 1 - 24th Ave S	17	24th Ave S & S 146th St				Veh entered model	131	30	337	265	135	40	420	380	380	40	510	385	380
			Veh entered sim	135	31	345	269	126	40	410	378	384	38	470	384	383	39	480	392
			Difference	1.03	1.03	1.02	1.02	0.93	1.00	0.98	0.99	1.01	0.95	0.92	1.00	1.01	0.98	0.94	1.02
			Queue model (95th)	16	7	5	1	20	12	6	2	96	31	13	2	73	32	103	200
			Queue sim (95th)	62	47	44	17	65	51	54	34	214	51	73	30	172	55	127	202
			Difference	3.88	6.71	8.80	17.00	3.25	4.25	9.00	17.00	2.23	1.65	5.62	15.00	2.36	1.72	1.23	1.01
			Delay model	11.4	16.7	2.0	0.3	14.9	19.5	1.7	0.6	20.1	45.3	3.0	0.6	17.6	16.9	5.0	15.3
			Delay sim	5.3	7.3	1.1	0.9	7.3	9.4	1.3	1.4	16.1	12.1	2.5	2.0	11.8	14.6	10.3	17.3
			Difference	0.46	0.44	0.55	3.00	0.49	0.48	0.76	2.33	0.80	0.27	0.83	3.33	0.67	0.86	2.06	1.13
			Segment 1 - 24th Ave S	25	24th Ave S & SeaTac Airport Parking/ S 150th St	Veh entered model	7	32	345	323	15	40	450	405	15	65	515	645	15
Veh entered sim	7	32				351	327	17	39	441	398	41	60	466	655	14	67	469	658
Difference	1.00	1.00				1.02	1.01	1.13	0.98	0.98	0.98	2.73	0.92	0.90	1.02	0.93	1.03	0.91	1.02
Queue model (95th)	1	6				1	1	2	9	1	1	3	23	2	7	3	23	2	7
Queue sim (95th)	48	47				15	23	72	56	29	28	69	59	32	59	73	70	29	119
Difference	48.00	7.83				15.00	23.00	36.00	6.22	29.00	28.00	23.00	2.57	16.00	8.43	24.33	3.04	14.50	17.00
Delay model	11.9	13.8				0.2	0.4	12.6	16.5	0.3	0.4	14.7	22.3	0.3	1.3	14.7	22.3	0.3	1.3
Delay sim	5.3	6.0				0.6	0.3	4.9	7.3	0.8	0.4	7.9	10.6	1.3	1.1	14.5	12.5	1.2	2.5
Difference	0.45	0.43				3.00	0.75	0.39	0.44	2.67	1.00	0.54	0.48	4.33	0.85	0.99	0.56	4.00	1.92
Segment 1 - 24th Ave S	26	24th Ave S & S 152nd St				Veh entered model	44	337	332		60	435	420		110	540	585		110
			Veh entered sim	44	347	327		56	432	419		103	496	583		115	491	590	
			Difference	1.00	1.03	0.98		0.93	0.99	1.00		0.94	0.92	1.00		1.05	0.91	1.01	
			Queue model (95th)	7	0	3		11	0	2		45	0	2		45	0	2	
			Queue sim (95th)	51	0	33		56	7	55		101	4	86		144	7	204	
			Difference	7.29	N/A	33.00		5.09	N/A	27.50		2.24	N/A	43.00		3.20	N/A	102.00	
			Delay model	12.2	0.0	0.5		13.7	0.0	0.7		26.0	0.0	0.7		26.0	0.0	0.7	
			Delay sim	5.8	1.7	0.6		8.7	2.3	1.1		23.7	4.0	1.6		31.1	4.0	5.0	
			Difference	0.48	N/A	1.20		0.64	N/A	1.57		0.91	N/A	2.29		1.20	N/A	7.14	
			Segment 1 - 24th Ave S	27	Air Cargo Rd/ 24th Ave S & S 154th St	Veh entered model	406	471	228	331	595	625	320	415	600	615	390	630	600
Veh entered sim	418	465				228	330	601	629	312	407	580	613	356	627	576	611	356	633
Difference	1.03	0.99				1.00	1.00	1.01	1.01	0.98	0.98	0.97	1.00	0.91	1.00	0.96	0.99	0.91	1.00
Queue model (95th)	191	199				60	63	370	378	152	132	415	430	210	266	571	607	253	290
Queue sim (95th)	156	149				80	94	1697	455	202	175	1571	450	1073	368	1681	449	1047	435
Difference	0.82	0.75				1.33	1.49	4.59	1.20	1.33	1.33	3.79	1.05	5.11	1.38	2.94	0.74	4.14	1.50
Delay model	10.4	10.6				9.4	9.6	33.7	35.2	19.6	19.7	33.8	35.6	21.3	23.6	34.2	23.8	43.5	66.1
Delay sim	13.3	12.5				14.5	11.4	167.6	40.7	39.6	27.7	155.1	41.8	265.5	42.2	171.9	39.5	233.7	45.1
Difference	1.28	1.18				1.54	1.19	4.97	1.16	2.02	1.41	4.59	1.17	12.46	1.79	5.03	1.66	5.37	0.68
Segment 1 - 24th Ave S	97	24th Ave S & S 148th St				Veh entered model	26	332	328		35	430	415		35	520	660		35
			Veh entered sim	27	348	376		36	429	408		35	484	663		36	499	664	
			Difference	1.01	1.05	1.15		1.03	1.00	0.98		1.00	0.93	1.00		1.03	0.96	1.01	
			Queue model (95th)	5	0	1		6	0	2		9	0	2		10	0	2	
			Queue sim (95th)	46	8	25		49	0	35		51	4	37		52	10	76	
			Difference	9.20	N/A	25.00		8.17	N/A	17.50		5.67	N/A	18.50		5.20	N/A	38.00	
			Delay model	12.8	0.0	0.4		13.7	0.0	0.5		17.8	0.0	0.4		18.5	0.0	0.4	
			Delay sim	5.9	0.6	0.5		7.7	0.7	0.7		11.6	0.9	1.0		14.3	1.0	3.2	
			Difference	0.46	N/A	1.25		0.56	N/A	1.40		0.65	N/A	2.50		0.77	N/A	8.00	
			Segment 2 - SW 148th St/SR 518	20	SW 148th St/SR 518 @ 1st Ave S	Veh entered model	717	1215	806	923	750	1575	920	1210	755	1610	920	1225	755
Veh entered sim	709	1090				807	923	744	1423	900	1187	748	1417	866	1157	748	1417	866	1157
Difference	0.99	0.90				1.00	1.00	0.99	0.90	0.98	0.98	0.99	0.88	0.94	0.94	0.99	0.88	0.94	0.94
Queue model (95th)	332	350				195	168	368	334	238	328	373	338	238	328	373	338	238	328
Queue sim (95th)	333	292				227	371	645	277	1562	1507	574	267	1779	1602	574	267	1779	1602
Difference	1.00	0.83				1.16	2.21	1.75	0.83	6.56	4.59	1.54	0.79	7.47	4.88	1.54	0.79	7.47	4.88
Delay model	55.9	62.1				33.3	44.0	58.1	36.7	39.6	47.0	58.3	37.7	40.0	46.3	58.3	37.7	40.0	46.3
Delay sim	49.2	45.7				39.6	64.4	104.4	31.5	158.0	160.1	97.8	31.7	192.5	184.8	97.8	31.7	192.5	184.8
Difference	0.88	0.74				1.19	1.46	1.80	0.86	3.99	3.41	1.68	0.84	4.81	3.99	1.68	0.84	4.81	3.99
Segment 2 - SW 148th St/SR 518	21	SR 518 & SR 509 SB Ramps				Veh entered model	1194	1412	1066		1340	1905		1095	1355	2045		1080	1355
			Veh entered sim	1207	1269	864		1221	1738		1024	1214	1809		1025	1214	1809		
			Difference	1.01	0.90	0.81		0.91	0.91		0.94	0.90	0.88						

			2022 Existing			2032 No Action			2032 Proposed Action			2032 Proposed Action Mitigated								
			EB	WB	NB	SB	EB	WB	NB	SB	EB	WB	NB	SB						
Segment 7 - SW 160th St	42	Ramp & 51st Ave S	Queue sim (95th)	72		25	0	110		45	84	200		109	0	63		342	70	
			Difference	0.38		N/A	N/A	0.50		N/A	N/A	0.71		N/A	N/A	0.98		1.03	1.49	
			Delay model	22.5		0.0	0.0	24.6		0.0	0.0	30.4		0.0	0.0	3.2		5.3	2.1	
	49	1st Ave S & S 160th St	Queue sim (95th)	4.2		0.9	0.1	6.6		2.0	0.1	11.4		2.8	0.2	3.8		10.2	2.0	
			Difference	0.19		N/A	N/A	0.27		N/A	N/A	0.38		N/A	N/A	1.19		1.92	0.95	
			Veh entered model	664	865	859	931	660	920	975	1215	665	935	980	1215	665	935	980	1215	
			Veh entered sim	660	891	834	922	666	893	961	1219	653	852	986	1207	671	924	953	1158	
			Difference	0.99	1.03	0.97	0.99	1.01	0.97	0.99	1.00	0.98	0.91	1.01	0.99	1.01	0.99	0.97	0.95	
			Queue model (95th)	283	316	289	403	252	344	366	387	256	364	369	387	268	318	369	387	
			Queue sim (95th)	580	371	257	414	345	442	535	557	298	437	960	761	470	406	967	1003	
			Difference	2.05	1.17	0.89	1.03	1.37	1.28	1.46	1.44	1.16	1.20	2.60	1.97	1.75	1.28	2.62	2.59	
			Delay model	59.1	53.5	44.7	45.0	58.8	68.9	44.4	54.8	59.0	69.1	44.8	55.2	64.2	62.8	45.3	55.5	
Delay sim			82.4	49.4	47.8	63.8	56.2	69.7	76.2	78.5	50.9	79.8	144.0	84.8	83.9	52.9	139.6	124.7		
Difference			1.39	0.92	1.07	1.42	0.96	1.01	1.72	1.43	0.86	1.15	3.21	1.54	1.31	0.84	3.08	2.25		
50			SR 509 SB Ramps & S 160th St	Veh entered model	819	361		756	1020	520		805	1030	620		810	1030	620		810
	Veh entered sim	813		368		758	958	526		806	936	611		796	986	615		819		
	Difference	0.99		1.02		1.00	0.94	1.01		1.00	0.91	0.99		0.98	0.96	0.99		1.01		
	Queue model (95th)	0		1		574	87	0		23	94	0		26	94	0		26		
	Queue sim (95th)	71		26		127	313	333		335	328	871		373	321	228		206		
	Difference	N/A		26.00		0.22	3.60	#DIV/0!		14.57	3.49	#DIV/0!		14.35	3.41	#DIV/0!		7.92		
	Delay model	0.0		0.4		96.2	4.7	4.6		5.8	5.1	5.2		6.0	5.1	5.2		6.0		
	Delay sim	6.1		1.7		7.0	16.0	20.6		24.2	21.8	68.7		37.4	26.8	13.8		12.9		
	Difference	N/A		4.25		0.07	3.40	4.48		4.17	4.27	13.21		6.23	5.25	2.65		2.15		
	51	SR 509 NB Ramps & S 160th St		Veh entered model	671	191	249	6	850	215	385	20	865	335	385	20	865	335	385	20
				Veh entered sim	661	196	251	5	796	217	399	24	786	325	400	22	848	338	386	16
				Difference	0.99	1.03	1.01	0.83	0.94	1.01	1.04	1.20	0.91	0.97	1.04	1.10	0.98	1.01	1.00	0.80
Queue model (95th)			1	1	62	1	151	28	52	3	161	47	52	3	161	47	52	3		
Queue sim (95th)			13	16	57	22	43	55	97	29	43	248	164	39	44	66	111	24		
Difference			13.00	16.00	0.92	22.00	0.28	1.96	1.87	9.67	0.27	5.28	3.15	13.00	0.27	1.40	2.13	8.00		
Delay model			0.1	1.0	17.8	10.2	4.5	6.2	10.5	7.4	4.5	6.3	10.5	8.0	4.5	6.3	10.5	8.0		
Delay sim			1.9	0.8	9.3	5.5	9.2	5.1	5.4	3.3	9.2	24.9	8.8	23.7	9.4	5.7	5.9	3.3		
Difference			19.00	0.80	0.52	0.54	2.04	0.82	0.51	0.45	2.04	3.95	0.84	2.96	2.09	0.90	0.56	0.41		
52			DMMD & S 160th St	Veh entered model	272	4	294	570	400	15	295	715	405	15	370	830	405	15	370	830
				Veh entered sim	279	3	290	586	405	14	298	718	387	13	381	814	416	14	381	822
				Difference	1.03	0.75	0.99	1.03	1.01	0.93	1.01	1.00	0.96	0.87	1.03	0.98	1.03	0.93	1.03	0.99
	Queue model (95th)	129		5	100	269	152	11	112	469	152	11	135	596	152	11	135	596		
	Queue sim (95th)	123		15	72	172	154	19	98	332	156	23	273	828	167	25	158	1000		
	Difference	0.95		3.00	0.72	0.64	1.01	1.73	0.88	0.71	1.03	2.09	2.02	1.39	1.10	2.27	1.17	1.68		
	Delay model	16.7		12.4	5.6	9.1	17.0	13.7	7.2	16.1	25.2	18.8	6.4	16.6	25.2	18.8	6.4	16.6		
	Delay sim	11.5		7.6	6.8	10.6	14.3	9.0	8.1	19.1	17.0	14.2	22.9	48.2	17.9	15.6	22.6	54.9		
	Difference	0.69		0.61	1.21	1.16	0.84	0.66	1.13	1.19	0.67	0.76	3.58	2.90	0.71	0.83	3.53	3.31		
	Segment 8 - NE Ramps-Int Blvd	63		NB NAE Off-Ramp & S 170th St	Veh entered model	442	310	552		495	455	620		85	390	200		85	390	200
					Veh entered sim	432	369	546		499	499	622		83	403	195		83	403	195
					Difference	0.98	1.19	0.99		1.01	1.10	1.00		0.98	1.03	0.98		0.98	1.03	0.98
64		International Blvd/Pacific Hwy & S 170th St	Queue model (95th)	71	0	83		76	0	90		0	0	20		0	0	20		
			Queue sim (95th)	80	42	163		164	0	264		0	0	0		0	0	0		
			Difference	1.13	N/A	1.96		2.16	N/A	2.93		#DIV/0!	N/A	0.00		#DIV/0!	N/A	0.00		
			Delay model	8.3	0.1	8.7		8.5	0.1	9.1		0.0	0.0	9.0		0.0	0.0	9.0		
			Delay sim	7.7	3.6	8.4		9.3	2.1	11.6		0.1	2.0	1.8		0.1	2.0	1.8		
			Difference	0.93	36.00	0.97		1.09	21.00	1.27		#DIV/0!	#DIV/0!	0.20		#DIV/0!	#DIV/0!	0.20		
			Veh entered model	783	236	780	912	875	360	860	1070	285	375	865	1025	285	375	865	1025	
			Veh entered sim	792	238	794	902	911	345	794	1064	295	375	709	1016	295	375	709	1016	
			Difference	1.01	1.01	1.02	0.99	1.04	0.96	0.92	0.99	1.04	1.00	0.82	0.99	1.04	1.00	0.82	0.99	
	Queue model (95th)		263	186	390	540	232	200	468	466	218	135	449	462	218	135	449	462		
	Queue sim (95th)		299	203	404	517	399	188	946	1472	219	156	379	390	219	156	379	390		
	Difference		1.14	1.09	1.04	0.96	1.72	0.94	2.02	3.16	1.00	1.16	0.84	0.84	1.00	1.16	0.84	0.84		
Delay model	57.6	59.6	43.4	59.9	59.5	60.8	50.8	56.4	65.1	60.2	39.0	59.5	65.1	60.2	39.0	59.5				
Delay sim	32.4	37.1	47.7	65.1	33.6	30.6	153.8	184.0	53.5	25.6	67.2	63.1	53.5	25.6	67.2	63.1				
Difference	0.56	0.62	1.10	1.09	0.56	0.50	3.03	3.26	0.82	0.43	1.72	1.06	0.82	0.43	1.72	1.06				
65	International Blvd & S 176th St	Veh entered model	379	741	1078		425	770	1455		435	845	1380		435	845	1380			
		Veh entered sim	380	748	1061		427	713	1409		430	654	1398		430	654	1398			
		Difference	1.00	1.01	0.98		1.00	0.93	0.97		0.99	0.77	1.01		0.99	0.77	1.01			
		Queue model (95th)	110	341	117		111	71	500		111	91	458		111	91	458			
		Queue sim (95th)	181	241	208		797	347	342		896	254	305		896	254	305			
		Difference	1.65	0.71	1.78		7.18	4.89	0.68		8.07	2.79	0.67		8.07	2.79	0.67			
		Delay model	45.6	58.8	3.5		57.1	7.8	18.5		57.4	11.4	18.8		57.4	11.4	18.8			
		Delay sim	30.2	15.0	13.4		104.5	22.0	19.6		129.7	17.9	19.8		129.7	17.9	19.8			
		Difference	0.66	0.26	3.83		1.83	2.82	1.06		2.26	1.57	1.05		2.26	1.57	1.05			
		66	International Blvd & S 182nd St (Arrival Dr)	Veh entered model	350	44	861	1214	800	50	890	1335	840	40	955	1180	840	40	955	1180
				Veh entered sim	356	46	860	1219	713	50	796	1292	643	40	716	1187	643	40	716	1187
				Difference	1.02	1.05	1.00	1.00	0.89	1.00	0.89	0.97	0.77	1.00	0.75	1.01	0.77	1.00	0.75	1.01
Queue model (95th)	58			49	380	595	218	57	372	689	164	57	380	599	164	57	380	599		
Queue sim (95th)	364			55	394	569	1272	77	1650	882	1328	75	2063	737	1328	75	2063	737		
Difference	6.28			1.12	1.04	0.96	5.83	1.35	4.44	1.28	8.10	1.32	5.43	1.23	8.10	1.32	5.43	1.23		
Delay model	38.5			67.2	46.8	34.2	47.4	70.2	56.4	65.9	45.6	70.1	72.0	50.1	45.6	70.1	72			

			2022 Existing				2037 No Action				2037 Proposed Action				2037 Proposed Action Mitigated				
			EB	WB	NB	SB	EB	WB	NB	SB	EB	WB	NB	SB	EB	WB	NB	SB	
Segment 1 - 24th Ave S	15	24th Ave S & S 142nd St	Veh entered model	111	57	257	295	160	85	425	465	160	85	425	465	160	85	425	465
			Veh entered sim	145	58	312	298	151	80	402	449	165	84	373	445	154	87	375	462
			Difference	1.31	1.02	1.05	1.01	0.94	0.94	0.95	0.97	1.03	0.99	0.88	0.96	0.96	1.02	0.88	0.99
			Queue model (95th)	0	0	0	0	30	13	115	138	30	13	115	138	30	13	115	138
			Queue sim (95th)	62	46	72	76	68	52	96	130	71	54	100	124	78	55	114	149
	16	24th Ave S & S 144th St	Veh entered model	N/A	N/A	N/A	N/A	2.27	4.16	0.83	0.95	2.37	4.32	0.87	0.90	2.60	4.40	0.99	1.08
			Veh entered sim	10.1	9.3	12.4	12.3	11.9	10.8	17.9	19.7	11.9	10.8	17.9	19.7	11.9	10.8	17.9	19.7
			Difference	4.3	4.7	6.3	6.3	6.5	5.7	8.1	9.7	6.7	5.8	7.9	9.6	6.9	5.9	8.8	10.2
			Queue model (95th)	0	0	0	0	54	0	7	7	58	0	7	7	58	0	7	7
			Queue sim (95th)	65	3	51	51	138	5	77	77	113	6	71	71	117	6	90	90
	17	24th Ave S & S 146th St	Veh entered model	131	30	337	265	145	40	465	425	410	40	570	430	410	40	570	430
			Veh entered sim	135	31	345	269	150	43	433	408	419	40	463	431	411	39	466	417
			Difference	1.03	1.03	1.02	1.02	1.03	1.08	0.93	0.96	1.02	1.00	0.81	1.00	1.00	0.98	0.82	0.97
			Queue model (95th)	16	7	5	1	24	14	7	2	131	46	16	2	80	35	127	235
			Queue sim (95th)	62	47	44	17	74	54	49	32	225	52	72	37	222	110	134	228
25	24th Ave S & SeaTac Airport Parking/ S 150th St	Veh entered model	7	32	345	323	20	50	500	445	15	65	590	710	15	65	590	710	
		Veh entered sim	7	32	351	327	16	54	461	439	18	63	456	723	14	63	459	703	
		Difference	1.00	1.00	1.02	1.01	0.80	1.08	0.92	0.99	1.20	0.97	0.77	1.02	0.93	0.97	0.78	0.99	
		Queue model (95th)	1	6	1	1	3	14	1	1	3	28	2	8	3	28	2	8	
		Queue sim (95th)	48	47	15	23	72	58	27	27	82	66	30	62	78	83	28	147	
26	24th Ave S & S 152nd St	Veh entered model	44	337	332	332	65	485	470	470	120	605	650	650	120	605	650		
		Veh entered sim	44	347	327	327	66	442	467	467	120	451	657	657	121	460	638		
		Difference	1.00	1.03	0.98	0.98	1.02	0.91	0.99	0.99	1.00	0.75	1.01	1.01	1.01	0.76	0.98		
		Queue model (95th)	7	0	3	3	13	0	2	2	63	0	2	2	65	0	2		
		Queue sim (95th)	51	0	33	33	62	5	70	70	171	9	163	163	201	8	303		
27	Air Cargo Rd/ 24th Ave S & S 154th St	Veh entered model	406	471	228	331	660	695	355	460	665	680	450	695	665	680	450	695	
		Veh entered sim	418	465	228	330	499	685	347	451	393	675	304	690	381	686	317	682	
		Difference	1.03	0.99	1.00	1.00	0.76	0.99	0.98	0.98	0.59	0.99	0.68	0.99	0.57	1.01	0.70	0.98	
		Queue model (95th)	191	199	60	63	478	497	183	161	490	517	244	308	728	778	288	324	
		Queue sim (95th)	156	149	80	94	1770	792	353	215	1842	861	1008	535	1899	913	1035	577	
97	24th Ave S & S 148th St	Veh entered model	26	332	328	328	35	480	465	465	35	585	725	725	35	585	725		
		Veh entered sim	27	348	376	376	34	454	455	455	33	479	733	733	34	482	711		
		Difference	1.04	1.05	1.15	1.15	0.97	0.95	0.98	0.98	0.94	0.82	1.01	1.01	0.97	0.82	0.98		
		Queue model (95th)	5	0	1	1	7	0	3	3	11	0	2	2	12	0	2		
		Queue sim (95th)	46	8	25	25	49	4	36	36	49	10	38	38	55	12	87		
Segment 2 - SW 148th St/SR 518	20	SW 148th St/SR 518 @ 1st Ave S	Veh entered model	717	1215	806	923	825	1745	1020	1340	845	1795	1020	1360	845	1795	1020	1360
			Veh entered sim	709	1090	807	923	842	1512	650	1347	835	1489	651	1323	793	1271	447	1291
			Difference	0.99	0.90	1.00	1.00	1.02	0.87	0.64	1.01	0.99	0.83	0.64	0.97	0.94	0.71	0.44	0.95
			Queue model (95th)	332	350	195	168	428	336	281	395	450	323	274	395	477	325	285	414
			Queue sim (95th)	333	292	227	371	1465	318	2158	910	1655	242	2161	491	656	300	680	681
	21	SR 518 & SR 509 SB Ramps	Veh entered model	1194	1412	1066	1066	1475	2110	1190	1505	2270	1195	1505	2270	1195	1505	2270	
			Veh entered sim	1207	1269	864	864	1248	1835	1074	1233	1844	1082	1218	1550	1042	1042	1042	
			Difference	1.01	0.90	0.81	0.81	0.85	0.87	0.90	0.82	0.81	0.91	0.81	0.81	0.68	0.87		
			Queue model (95th)	353	253	752	573	866	666	795	594	918	800	632	921	882	882		
			Queue sim (95th)	308	284	768	319	613	613	836	323	594	816	330	338	688			
	22	SR 518 & SR 509 NB Ramps	Veh entered model	1940	2356	393	393	2210	3160	955	955	2245	3340	1015	1015	2245	3340	1015	
			Veh entered sim	1777	2076	399	399	1918	2736	943	943	1912	2705	952	952	1856	2143	987	
			Difference	0.92	0.88	1.02	1.02	0.87	0.87	0.99	0.99	0.85	0.81	0.94	0.94	0.83	0.64	0.97	
			Queue model (95th)	3	242	143	143	423	583	227	227	420	720	234	234	438	830	232	
			Queue sim (95th)	205	168	159	159	366	2052	243	243	382	3229	687	687	421	321	258	
Segment 3 - DKMMD	23	DKMMD & SR 518 EB Ramps	Veh entered model	39	473	708	708	160	560	865	865	180	615	1090	180	615	1090		
			Veh entered sim	39	466	739	739	150	558	849	849	179	614	969	178	610	1006		
			Difference	1.00	0.99	1.04	1.04	0.94	1.00	0.98	0.98	1.00	0.89	0.99	0.99	0.99	0.92		
			Queue model (95th)	29	0	16	16	198	0	16	347	0	24	27	27	128	0		
			Queue sim (95th)	47	2	63	63	115	4	67	239	6	81	83	83	90	260		
	24	DKMMD & SR 518 WB Off Ramp	Veh entered model	586	214	431	431	625	285	585	585	935	310	795	935	310	795		
			Veh entered sim	591	220	441	441	619	283	561	561	552	322	781	824	311	769		
			Difference	1.01	1.03	1.02	1.02	0.99	0.99	0.96	0.96	0.59	1.04	0.98	0.88	1.00	0.97		
			Queue model (95th)	148	0	0	0	278	0	0	0	985	0	0	70	0	197		
			Queue sim (95th)	252	5	8	8	769	3	8	8	841	0	11	940	0	1541		
	Segment 4 - S 154th St	27	24th Ave S / Air Cargo Rd & S 154th St	Veh entered model	406	471	228	331	660	695	355	460	665	680	450	695	665	680	450
				Veh entered sim	404	472	234	326	448	676	365	470	483	651	355	697	664	620	438
				Difference	1.00	1.00	1.03	0.98	0.68	0.97	1.03	1.02	0.73	0.96	0.79	1.00	1.00	0.91	0.97
				Queue model (95th)	191	199	60	63	478	497	183	161	490	517	244	308	728	778	288
				Queue sim (95th)	166	161	79	130	1866	297	387	259	1893	272	1063	779	1245	266	441
28		EB SR 518 Off Ramp & S 152nd St	Veh entered model	281	331	355	355	520	425	520	520	570	510	430	570	510	430		
			Veh entered sim	287	338	347	347	409	525	357	444	506	367	568	470	428			
			Difference	1.02	1.02	0.98	0.98	0.74	1.01	0.84	0.78	0.99	0.85	1.00	0.92	1.00			
			Queue model (95th)	0	0	83	83	0	247	328	0	254	329	198	1035	329			
			Queue sim (95th)	0	6	0	0	0	0	0	0	0	0	0	0	0			
29		WB SR 518 On Ramp & S 152nd St	Veh entered model	496	611	805	805	1015	1110	1110	1110	830	1040	830	1040	830	1040		
			Veh entered sim	496	611	805	805	1015	1110	1110	1110	830	1040	830	1040	830	1040		
			Difference	1.00	1.00	0.76	0.99	0.76	0.99	0.76	0.99	0.80	1.00	0.76	0.99	0.76	0.99		
			Queue model (95th)	0	0	0	0	0	0	0	0	0	0	0	0	0			
			Queue sim (95th)	0	0	0	0	0	0	0	0	0	0	0	0	0			
Segment 5 - Int Blvd	35	SR 99 & S 152nd St	Veh entered model	275	111	753	702	590	270	1215	1280	635	270						

		2022 Existing				2037 No Action				2037 Proposed Action				2037 Proposed Action Mitigated				
		EB	WB	NB	SB	EB	WB	NB	SB	EB	WB	NB	SB	EB	WB	NB	SB	
Segment 7 - SW 160th St	42 Ramp & 51st Ave S	Queue sim (95th)	72	25	0	804	45	84	881	406	0	68	400	80				
		Difference	0.38	N/A	N/A	2.91	N/A	N/A	2.36	N/A	N/A	1.00	0.89	1.51				
		Delay model	22.5	0.0	0.0	31.1	0.0	0.0	42.4	0.0	0.0	3.8	6.3	2.0				
		Delay sim	4.2	0.9	0.1	56.7	11.0	0.2	73.4	14.3	0.2	4.2	24.8	2.1				
	49 1st Ave S & S 160th St	Veh entered model	664	865	859	931	735	1035	1075	1345	760	1055	1085	1345	760	1055	1085	1345
		Veh entered sim	660	891	834	922	734	883	984	1300	770	840	918	1267	723	1029	957	1110
		Difference	0.99	1.03	0.97	0.99	1.00	0.85	0.92	0.97	1.01	0.80	0.85	0.94	0.95	0.98	0.88	0.41
		Queue model (95th)	283	316	289	403	287	393	432	441	305	413	442	441	355	363	442	441
		Queue sim (95th)	580	371	257	414	417	441	1072	1047	440	429	1128	1043	1015	431	1053	1044
		Difference	2.05	1.17	0.89	1.03	1.45	1.12	2.48	2.37	1.44	1.04	2.55	2.37	2.86	1.19	2.38	2.37
		Delay model	59.1	53.5	44.7	45.0	60.3	71.1	51.5	62.4	61.4	73.9	52.6	63.2	72.5	58.9	54.8	64.5
		Delay sim	82.4	49.4	47.8	63.8	66.8	76.0	202.4	152.7	67.2	82.9	233.3	141.4	184.5	56.2	220.4	172.9
Difference		1.39	0.92	1.07	1.42	1.11	1.07	3.93	2.45	1.09	1.12	4.44	2.24	2.54	0.95	4.02	2.68	
50 SR 509 SB Ramps & S 160th St		Veh entered model	819	361		756	1110	575		895	1145	695		900	1145	695		900
		Veh entered sim	813	368		758	1002	563		763	976	612		788	993	667		882
		Difference	0.99	1.02		1.00	0.90	0.98		0.85	0.85	0.88		0.88	0.87	0.96		0.98
	Queue model (95th)	0	1		574	104	0		28	120	0		32	120	0		32	
	Queue sim (95th)	71	26		323	891			465	323	1163		417	317	357		318	
	Difference	N/A	26.00		0.22	3.11	#DIV/0!		16.61	2.69	#DIV/0!		13.03	2.64	#DIV/0!		9.94	
	Delay model	0.0	0.4		96.2	4.9	4.6		6.0	5.4	5.3		6.2	5.4	5.3		6.2	
	Delay sim	6.1	1.7		7.0	18.1	82.4		67.2	21.9	149.7		78.4	28.2	20.6		22.8	
	Difference	N/A	4.25		0.07	3.69	17.91		11.20	4.06	28.25		12.65	5.22	3.89		3.68	
	51 SR 509 NB Ramps & S 160th St	Veh entered model	671	191	249	6	935	240	425	20	965	375	425	20	965	375	425	20
		Veh entered sim	661	196	251	5	821	230	427	22	816	286	425	22	855	358	412	20
		Difference	0.99	1.03	1.01	0.83	0.88	0.96	1.00	1.10	0.85	0.76	1.00	1.10	0.89	0.95	0.97	1.00
Queue model (95th)		1	1	62	1	194	33	62	3	215	58	63	3	215	58	63	3	
Queue sim (95th)		13	16	57	22	40	418	161	42	33	479	278	122	36	64	128	28	
Difference		13.00	16.00	0.92	22.00	0.21	12.67	2.60	14.00	0.15	8.26	4.41	40.67	0.17	1.10	2.03	9.33	
Delay model		0.1	1.0	17.8	10.2	4.5	6.4	10.8	7.7	4.5	6.5	10.9	8.5	4.5	6.5	10.9	8.5	
Delay sim		1.9	0.8	9.3	5.5	9.7	28.3	9.1	24.5	9.3	116.6	18.5	237.7	9.5	5.9	7.2	3.8	
Difference		19.00	0.80	0.52	0.54	2.16	4.42	0.84	3.18	2.07	17.94	1.70	27.96	2.11	0.91	0.66	0.45	
52 DMMD & S 160th St		Veh entered model	272	4	294	570	440	15	330	795	455	15	425	925	455	15	425	925
		Veh entered sim	279	3	290	586	425	16	324	793	395	15	412	743	428	15	417	876
		Difference	1.03	0.75	0.99	1.03	0.97	1.07	0.98	1.00	0.87	1.00	0.97	0.80	0.94	1.00	0.98	0.95
	Queue model (95th)	129	5	100	269	168	11	135	587	172	11	172	742	172	11	172	742	
	Queue sim (95th)	123	15	72	172	170	26	103	846	180	35	1356	1719	179	20	211	1650	
	Difference	0.95	3.00	0.72	0.64	1.01	2.36	0.76	1.44	1.05	3.18	7.88	2.32	1.04	1.82	1.23	2.22	
	Delay model	16.7	12.4	5.6	9.1	22.5	16.6	7.2	18.3	26.7	18.7	7.6	32.0	26.7	18.7	7.6	32.0	
	Delay sim	11.5	7.6	6.8	10.6	16.0	13.6	9.7	45.6	17.6	25.4	132.9	163.0	18.3	8.3	32.2	131.2	
	Difference	0.69	0.61	1.21	1.16	0.71	0.82	1.35	2.49	0.66	1.36	17.49	5.09	0.69	0.44	4.24	4.10	
	Segment 8 - NE Ramps-Int Blvd	63 NB NAE Off-Ramp & S 170th St	Veh entered model	442	310	552		550	495	650		100	430	230		100	430	230
			Veh entered sim	432	369	546		538	549	641		100	442	234		100	442	234
			Difference	0.98	1.19	0.99		0.98	1.11	0.99		1.00	1.03	1.02		1.00	1.03	1.02
Queue model (95th)			71	0	83		97	0	97		0	0	25		0	0	25	
64 International Blvd/Pacific Hwy & S 170th St		Veh entered model	783	236	780	912	950	400	945	1185	330	400	970	1140	330	400	970	1140
		Veh entered sim	792	238	794	902	961	396	841	1174	354	390	751	1151	354	390	751	1151
		Difference	1.01	1.01	1.02	0.99	1.01	0.99	0.89	0.99	1.07	0.98	0.77	1.01	1.07	0.98	0.77	1.01
		Queue model (95th)	263	186	390	540	256	227	590	586	233	141	564	580	233	141	564	580
		Queue sim (95th)	299	203	404	517	469	247	1423	3183	240	173	415	777	240	173	415	777
		Difference	1.14	1.09	1.04	0.96	1.83	1.09	2.41	5.43	1.03	1.23	0.74	1.34	1.03	1.23	0.74	1.34
		Delay model	57.6	59.6	43.4	59.9	62.5	63.5	51.3	59.9	68.0	62.6	46.0	65.6	68.0	62.6	42.2	65.6
		Delay sim	32.4	37.1	47.7	65.1	39.0	33.5	236.4	418.9	51.7	25.3	70.0	98.8	51.7	25.3	70.0	98.8
	Difference	0.56	0.62	1.10	1.09	0.62	0.53	4.61	6.99	0.76	0.40	1.52	1.51	0.76	0.40	1.66	1.51	
	65 International Blvd & S 176th St	Veh entered model	379	741	1078		465	840	1610		485	935	1535		485	935	1535	
		Veh entered sim	380	748	1061		457	736	1418		483	656	1535		483	656	1535	
		Difference	1.00	1.01	0.98		0.98	0.88	0.88		1.00	0.70	1.00		1.00	0.70	1.00	
Queue model (95th)		110	341	117		127	74	566		127	100	521		127	100	521		
Queue sim (95th)		181	241	208		257	265	231		369	239	367		369	239	367		
Difference		1.65	0.71	1.78		2.02	3.58	0.41		2.91	2.39	0.70		2.91	2.39	0.70		
Delay model		45.6	58.8	3.5		59.7	7.5	23.8		60.3	10.7	23.8		60.3	10.7	23.8		
Delay sim		30.2	15.0	13.4		37.4	14.7	12.1		39.3	13.4	16.4		39.3	13.4	16.4		
Difference		0.66	0.26	3.83		0.63	1.96	0.51		0.65	1.25	0.69		0.65	1.25	0.69		
66 International Blvd & S 182nd St (Arrival Dr)		Veh entered model	350	44	861	1214	830	55	970	1475	925	45	1050	1310	925	45	1050	1310
		Veh entered sim	356	46	860	1219	710	57	819	1340	620	42	719	1304	620	42	719	1304
		Difference	1.02	1.05	1.00	1.00	0.86	1.04	0.84	0.91	0.67	0.93	0.68	1.00	0.67	0.93	0.68	1.00
	Queue model (95th)	58	49	380	595	385	67	411	800	428	67	422	700	428	67	422	700	
	Queue sim (95th)	364	55	394	569	1387	81	1658	866	1331	77	2120	852	1331	77	2120	852	
	Difference	6.28	1.12	1.04	0.96	3.60	1.21	4.03	1.08	3.11	1.15	5.02	1.22	3.11	1.15	5.02	1.22	
	Delay model	38.5	67.2	46.8	34.2	56.4	75.9	61.4	75.5	60.6	76.5	87.4	42.2	60.6	76.5	87.4	57.7	
	Delay sim	34.3	61.7	60.1	40.7	146.2	83.3	246.6	57.0	186.8	66.8	398.0	58.4	186.8	66.8	398.0	58.4	
	Difference	0.89	0.92	1.28	1.19	2.59	1.10	4.02	0.75	3.08	0.87	4.55	1.38	3.08	0.87	4.55	1.01	
	67 International Blvd & S 188th St	Veh entered model	1361	842	749	1249	1215	1305	655	1870	1235	1355	650	1810	1235	1355	650	1810
		Veh entered sim	1367	834	748	1247	1127	1275	656	1514	1119	1291	647	1530	1119	1291	647	1530
		Difference	1.00	0.99	1.00	1.00	0.93	0.98	1.00									