

**IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY)
CONTINUOUS (24 HOUR) 2 LANE CLOSURE
NO DIVERSION ROUTE (MAX QUEUE METHOD)**

AUGUST

Analyzed for 2009
Construction Season

SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR SOUTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR						AVERAGE SPEEDS IN MPH				
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	451	0.0	1500	451	0	0.53	0	70.2	59.4	43.7	
1-2 AM	262	0.0	1500	262	0	0.50	0	70.2	59.8	44.4	
2-3 AM	202	0.0	1500	202	0	0.50	0	70.2	59.9	44.6	
3-4 AM	234	0.0	1500	234	0	0.50	0	70.2	59.9	44.5	
4-5 AM	581	0.0	1500	581	0	0.54	0	70.0	59.1	43.2	
5-6 AM	1517	0.0	1499	1517	0	1.95	50	68.9	41.5	35.8	
6-7 AM	3693	0.0	1499	1663	2030	15.74+	388	65.6	10.8	30.8	
7-8 AM	5438	0.0	1500	1500	3938	15.54+	400	53.7	10.6	30.8	
8-9 AM	4759	0.0	1500	1500	3259	15.84+	400	58.4	10.6	30.8	
9-10 AM	3602	0.0	1500	1500	2102	16.26+	400	66.3	10.6	30.8	
10-11 AM	3255	0.0	1500	1500	1755	16.28+	400	66.7	10.6	30.8	
11AM-NOON	3465	0.0	1500	1500	1965	16.27+	400	66.4	10.6	30.8	
NOON-1PM	3496	0.0	1500	1500	1996	16.27+	400	66.4	10.6	30.8	
1-2 PM	3370	0.0	1500	1500	1870	16.27+	400	66.6	10.6	30.8	
2-3 PM	4054	0.0	1500	1500	2554	16.11+	400	63.2	10.6	30.8	
3-4 PM	4304	0.0	1500	1500	2804	16.02+	400	61.5	10.6	30.8	
4-5 PM	4454	0.0	1500	1500	2954	15.96+	400	60.4	10.6	30.8	
5-6 PM	4530	0.0	1500	1500	3030	15.93+	400	59.9	10.6	30.8	
6-7 PM	3477	0.0	1500	1500	1977	16.27+	400	66.4	10.6	30.8	
7-8 PM	2376	0.0	1500	1500	876	16.33+	400	67.8	10.6	30.8	
8-9 PM	2068	0.0	1500	1500	568	16.35+	400	68.2	10.6	30.8	
9-10 PM	1781	0.0	1500	1522	259	16.26+	397	68.5	10.6	30.8	
10-11 PM	1323	0.0	1500	1323	0	13.37	327	69.1	12.5	30.8	
11PM-MID	868	0.0	1500	868	0	1.47	42	69.7	46.4	41.6	

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

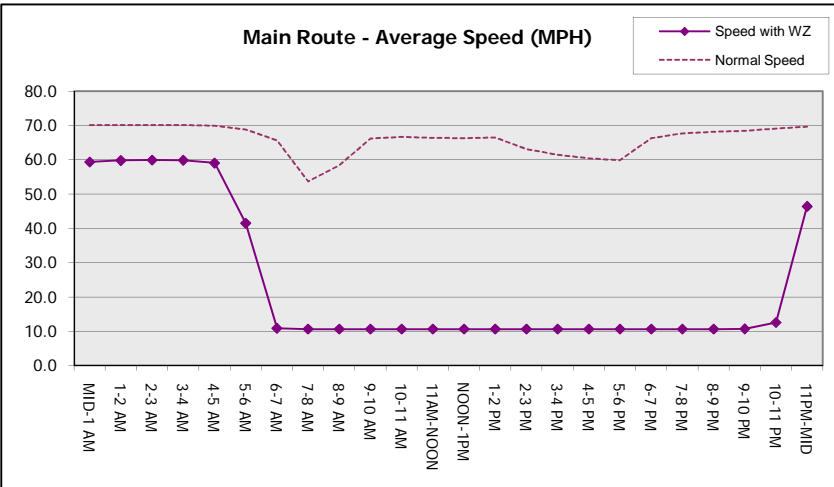
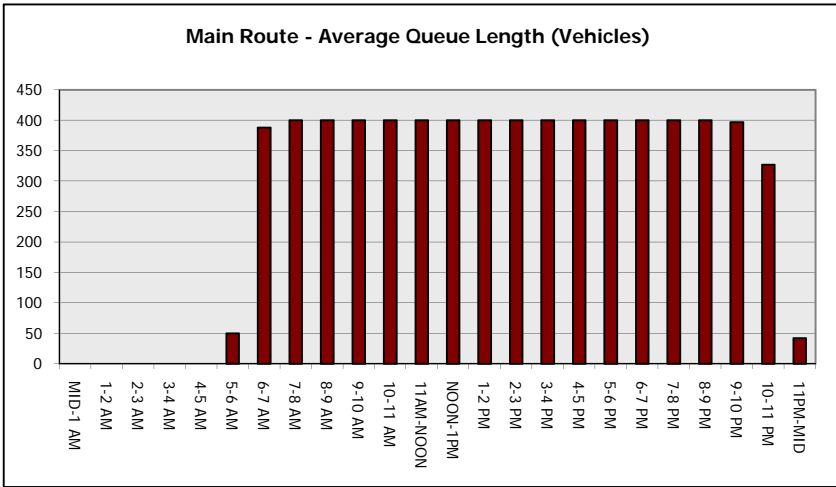
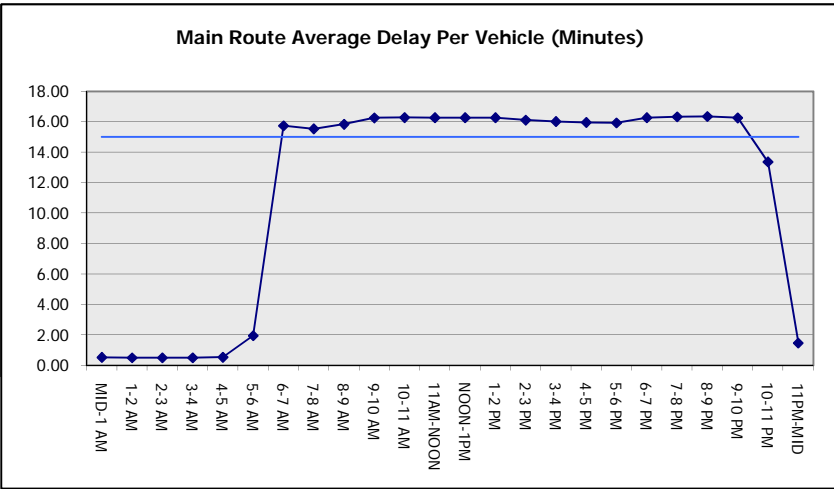
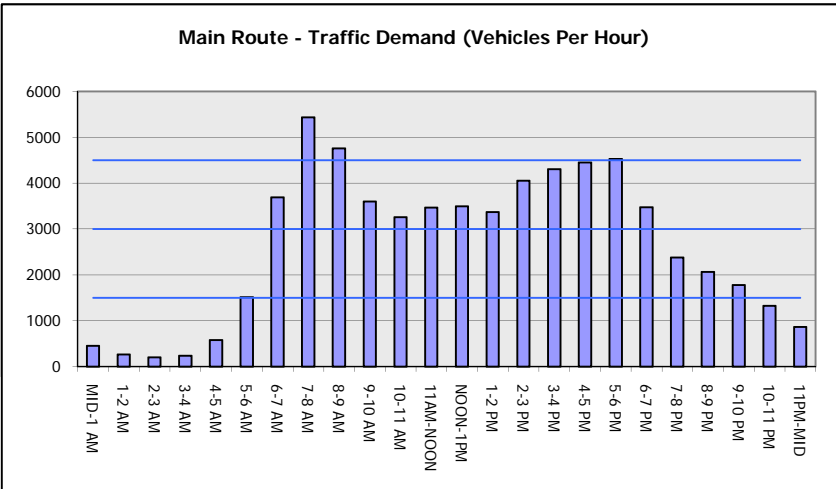
AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0344
MAIN ROUTE WITH WORKS	0.0141
'DIVERSION'	0.0425
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$208,558
CONGESTED HOURS PER DAY*	16

*Delays Exceeding User-Specified Maximum

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GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT
MON-THUR SOUTHBOUND DIRECTION



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SUMMARY OF TRAFFIC MODEL OUTPUT

MON-THUR NORTHBOUND DIRECTION

TIME OF DAY	FLOWS AND CAPACITY IN VEH/HR							AVERAGE SPEEDS IN MPH			
	MAIN ROUTE		SITE CAPA CITY	FLOW		AV.DEL PER VEH (MINS)	AVERAGE QUEUE (VEH)	MAIN ROUTE		SITE	
	DEMAND FLOW	PCT HEAVY		MAIN ROUTE	'DIVER TED'			WITHOUT WORK ZONE	WITH WORK ZONE		
MID-1 AM	736	0.0	1500	736	0	0.56	0	69.8	58.5	42.6	
1-2 AM	430	0.0	1500	430	0	0.53	0	70.2	59.4	43.8	
2-3 AM	324	0.0	1500	324	0	0.51	0	70.2	59.7	44.2	
3-4 AM	329	0.0	1500	329	0	0.51	0	70.2	59.6	44.2	
4-5 AM	505	0.0	1500	505	0	0.53	0	70.1	59.2	43.5	
5-6 AM	1591	0.0	1499	1591	0	2.16	56	68.7	39.7	34.2	
6-7 AM	3390	0.0	1499	1619	1770	15.89+	390	66.5	10.7	30.8	
7-8 AM	4562	0.0	1500	1500	3062	15.92+	400	59.7	10.6	30.8	
8-9 AM	4037	0.0	1500	1500	2537	16.12+	400	63.3	10.6	30.8	
9-10 AM	3158	0.0	1500	1500	1658	16.29+	400	66.8	10.6	30.8	
10-11 AM	3063	0.0	1500	1500	1563	16.29+	400	66.9	10.6	30.8	
11AM-NOON	3220	0.0	1500	1500	1720	16.28+	400	66.8	10.6	30.8	
NOON-1PM	3377	0.0	1500	1500	1877	16.27+	400	66.5	10.6	30.8	
1-2 PM	3448	0.0	1500	1500	1948	16.27+	400	66.4	10.6	30.8	
2-3 PM	3977	0.0	1500	1500	2477	16.14+	400	63.7	10.6	30.8	
3-4 PM	4593	0.0	1500	1500	3093	15.91+	400	59.5	10.6	30.8	
4-5 PM	5343	0.0	1500	1500	3843	15.59+	400	54.3	10.6	30.8	
5-6 PM	5489	0.0	1500	1500	3989	15.52+	400	53.3	10.6	30.8	
6-7 PM	3605	0.0	1500	1500	2105	16.26+	400	66.2	10.6	30.8	
7-8 PM	2566	0.0	1500	1500	1066	16.32+	400	67.6	10.6	30.8	
8-9 PM	2287	0.0	1500	1500	787	16.33+	400	67.9	10.6	30.8	
9-10 PM	2147	0.0	1500	1500	647	16.34+	400	68.1	10.6	30.8	
10-11 PM	1625	0.0	1500	1550	76	16.06+	391	68.7	10.7	30.8	
11PM-MID	1121	0.0	1499	1121	0	8.24	233	69.4	18.3	34.4	

+ INDICATES QUEUEING EXCEEDS USER-SPECIFIED MAXIMUM LIMIT

----- SITE BREAKDOWN DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0.0
AV BREAKDOWNS PER DAY	0.00
AV QUEUE DELAY/DAY (VEH-H)	0.0
AV TOTAL DELAY/DAY (VEH-H)	0.0

----- SITE ACCIDENT DELAYS -----	
BREAKDOWN DURATION (MINS)	0
RANGE OF QUEUE DELAY - MIN (VEH-H) MAX	0
AV BREAKDOWNS PER DAY	0
AV QUEUE DELAY/DAY (VEH-H)	0
AV TOTAL DELAY/DAY (VEH-H)	0

AVERAGE ACCIDENT NUMBERS (PIA/DAY)	
MAIN ROUTE WITHOUT WORKS	0.0351
MAIN ROUTE WITH WORKS	0.0146
'DIVERSION'	0.0429

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$212,685
CONGESTED HOURS PER DAY*	17

*Delays Exceeding User-Specified Maximum

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