

<b>IH 43: SILVER SPRING DR TO STH 190 (MILWAUKEE COUNTY)</b> <b>CONTINUOUS (24 HOUR) CLOSURE</b> <b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b>	<b>OCTOBER</b>
	Analyzed for 2009 Construction Season

**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	738	0.0	3000	738	0	0.35	0	69.8	62.2	49.7
1-2 AM	380	0.0	3000	380	0	0.36	0	70.2	62.5	49.7
2-3 AM	272	0.0	3000	272	0	0.36	0	70.2	62.5	49.7
3-4 AM	173	0.0	3000	173	0	0.36	0	70.2	62.5	49.7
4-5 AM	223	0.0	3000	223	0	0.36	0	70.2	62.5	49.7
5-6 AM	369	0.0	3000	369	0	0.36	0	70.2	62.5	49.7
6-7 AM	644	0.0	3000	644	0	0.36	0	69.9	62.3	49.7
7-8 AM	958	0.0	3000	958	0	0.35	0	69.6	62.1	49.7
8-9 AM	1395	0.0	3000	1395	0	0.34	0	69.0	61.8	49.7
9-10 AM	2133	0.0	3000	2133	0	0.33	0	68.1	61.3	49.7
10-11 AM	2701	0.0	2999	2701	0	0.53	0	67.4	57.3	42.6
11AM-NOON	3205	0.0	2999	3205	0	2.00	79	66.8	40.4	37.3
NOON-1PM	3433	0.0	3000	3433	0	7.84	414	66.4	18.7	37.3
1-2 PM	3433	0.0	2999	3212	221	15.02+	791	66.4	12.5	37.3
2-3 PM	3468	0.0	2999	2997	471	15.89+	837	66.4	12.2	37.3
3-4 PM	3632	0.0	2999	2998	634	15.89+	838	66.1	12.2	37.3
4-5 PM	3659	0.0	2999	2998	661	15.88+	838	65.8	12.2	37.3
5-6 PM	3564	0.0	2999	2999	565	15.89+	837	66.3	12.2	37.3
6-7 PM	3447	0.0	3000	2999	449	15.89+	837	66.4	12.2	37.3
7-8 PM	2571	0.0	2999	2571	0	12.86+	681	67.6	13.7	37.5
8-9 PM	1695	0.0	3000	1695	0	1.06	73	68.6	50.5	49.7
9-10 PM	1373	0.0	3000	1373	0	0.34	0	69.1	61.8	49.7
10-11 PM	864	0.0	3000	864	0	0.35	0	69.7	62.2	49.7
11PM-MID	644	0.0	3000	644	0	0.36	0	69.9	62.3	49.7

+ 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	0.0243
MAIN ROUTE WITH WORKS	0.0199
'DIVERSION'	0.0038
PIA: Personal Injury Accidents	
IMPACTS ON ROAD USERS	
ROAD USER COSTS PER DAY	\$114,762
CONGESTED HOURS PER DAY*	7

\*Delays Exceeding User-Specified Maximum

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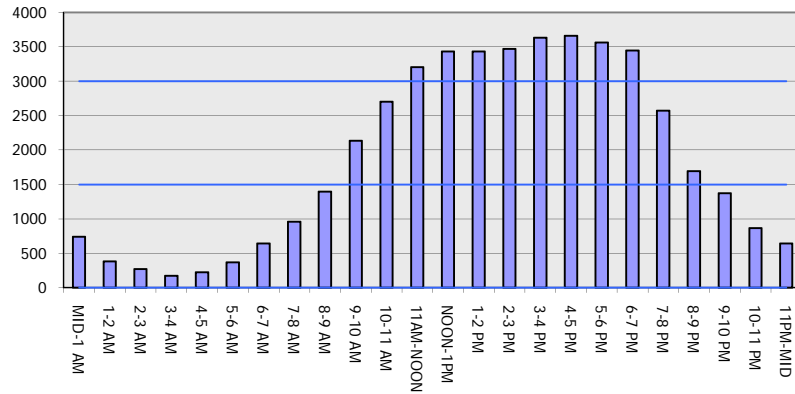
**OCTOBER**

Analyzed for 2009  
Construction Season

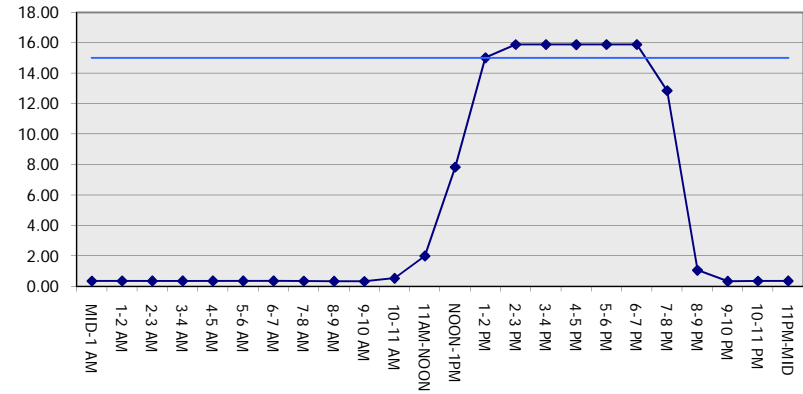
**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**

**SUNDAY SOUTHBOUND DIRECTION**

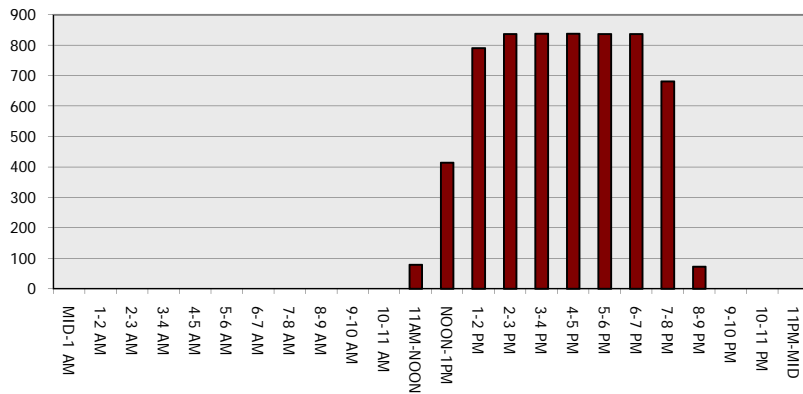
**Main Route - Traffic Demand (Vehicles Per Hour)**



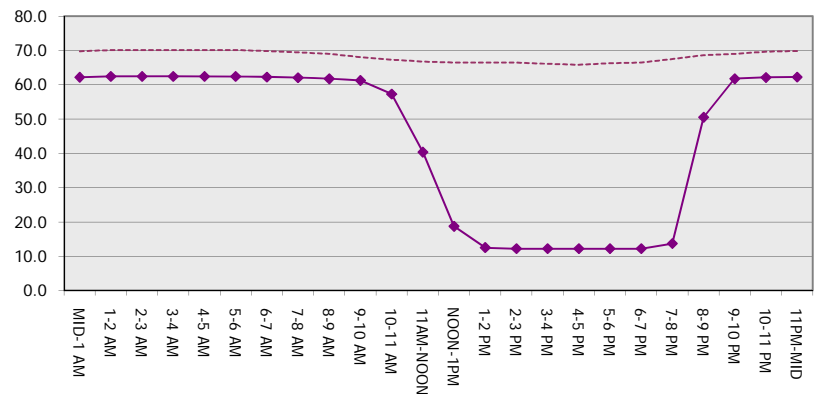
**Main Route Average Delay Per Vehicle (Minutes)**



**Main Route - Average Queue Length (Vehicles)**



**Main Route - Average Speed (MPH)**



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**SUMMARY OF TRAFFIC MODEL OUTPUT**

SUNDAY 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	1075	0.0	3000	1075	0	0.35	0	69.4	62.0	49.7
1-2 AM	699	0.0	3000	699	0	0.36	0	69.9	62.3	49.7
2-3 AM	766	0.0	3000	766	0	0.35	0	69.8	62.2	49.7
3-4 AM	419	0.0	3000	419	0	0.36	0	70.2	62.5	49.7
4-5 AM	276	0.0	3000	276	0	0.36	0	70.2	62.5	49.7
5-6 AM	411	0.0	3000	411	0	0.36	0	70.2	62.5	49.7
6-7 AM	809	0.0	3000	809	0	0.35	0	69.7	62.2	49.7
7-8 AM	1190	0.0	3000	1190	0	0.35	0	69.2	61.9	49.7
8-9 AM	1652	0.0	3000	1652	0	0.34	0	68.7	61.6	49.7
9-10 AM	2076	0.0	3000	2076	0	0.33	0	68.1	61.3	49.7
10-11 AM	2448	0.0	3000	2448	0	0.37	0	67.7	60.3	48.1
11AM-NOON	2823	0.0	2999	2823	0	0.61	0	67.3	56.0	40.2
NOON-1PM	3037	0.0	2999	3037	0	0.90	10	66.9	51.7	37.3
1-2 PM	3189	0.0	3000	3189	0	2.99	131	66.8	33.7	37.3
2-3 PM	3158	0.0	2999	3158	0	6.24	307	66.8	21.9	37.3
3-4 PM	3231	0.0	3000	3231	0	9.84	508	66.7	15.8	37.3
4-5 PM	3016	0.0	2999	3016	0	12.39	643	67.0	13.7	37.3
5-6 PM	2735	0.0	2999	2735	0	10.03	519	67.3	15.6	37.3
6-7 PM	2503	0.0	2999	2503	0	2.47	154	67.6	37.2	42.7
7-8 PM	2136	0.0	3000	2136	0	0.33	0	68.1	61.3	49.7
8-9 PM	1632	0.0	3000	1632	0	0.34	0	68.7	61.6	49.7
9-10 PM	1411	0.0	3000	1411	0	0.34	0	69.0	61.8	49.7
10-11 PM	1128	0.0	3000	1128	0	0.35	0	69.3	62.0	49.7
11PM-MID	811	0.0	3000	811	0	0.35	0	69.7	62.2	49.7

*----- 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	0.0231
MAIN ROUTE WITH WORKS	0.0202
'DIVERSION'	0.0000

PIA: Personal Injury Accidents

ECONOMIC IMPACT ON ROAD USERS	
ROAD USER COSTS PER DAY	\$40,330
CONGESTED HOURS PER DAY*	0

\*Delays Exceeding User-Specified Maximum

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**GRAPHICAL REPRESENTATION OF TRAFFIC MODEL INPUT AND OUTPUT**  
**SUNDAY NORTHBOUND DIRECTION**

