

|   |  |
|---|--|
| <b>USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY)<br/>                 NIGHTTIME 2 LANE CLOSURE<br/>                 NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>MAY</b>                               |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY      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    | 583                          | 0.0       | 1500           | 583        | 0           | 0.54                  | 0                     | 70.0              | 52.5           | 43.2 |  |
| 1-2 AM      | 800                          | 0.0       | 1500           | 800        | 0           | 0.57                  | 0                     | 69.7              | 51.8           | 42.4 |  |
| 2-3 AM      | 2043                         | 0.0       | 1499           | 2043       | 0           | 5.08                  | 177                   | 68.2              | 17.6           | 30.8 |  |
| 3-4 AM      | 3816                         | 0.0       | 1500           | 1471       | 2345        | 16.99+                | 421                   | 64.8              | 7.3            | 32.2 |  |
| 4-5 AM      | 4237                         | 0.0       | 1499           | 1496       | 2741        | 17.03+                | 423                   | 61.9              | 7.3            | 30.9 |  |
| 5-6 AM      | 4318                         | 0.0       | OFF            | 4318       | 0           | 0.89                  | 77                    | 61.4              | 41.5           | 41.5 |  |
| 6-7 AM      | 4715                         | 0.0       | OFF            | 4715       | 0           | 0.00                  | 0                     | 58.6              | 58.6           | 58.6 |  |
| 7-8 AM      | 4935                         | 0.0       | OFF            | 4935       | 0           | 0.00                  | 0                     | 57.1              | 57.1           | 57.1 |  |
| 8-9 AM      | 4733                         | 0.0       | OFF            | 4733       | 0           | 0.00                  | 0                     | 58.5              | 58.5           | 58.5 |  |
| 9-10 AM     | 4575                         | 0.0       | OFF            | 4575       | 0           | 0.00                  | 0                     | 59.6              | 59.6           | 59.6 |  |
| 10-11 AM    | 4796                         | 0.0       | OFF            | 4796       | 0           | 0.00                  | 0                     | 58.1              | 58.1           | 58.1 |  |
| 11AM-NOON   | 5309                         | 0.0       | OFF            | 5309       | 0           | 0.00                  | 0                     | 54.6              | 54.6           | 54.6 |  |
| NOON-1PM    | 5073                         | 0.0       | OFF            | 5073       | 0           | 0.00                  | 0                     | 56.2              | 56.2           | 56.2 |  |
| 1-2 PM      | 4719                         | 0.0       | OFF            | 4719       | 0           | 0.00                  | 0                     | 58.6              | 58.6           | 58.6 |  |
| 2-3 PM      | 5182                         | 0.0       | OFF            | 5182       | 0           | 0.00                  | 0                     | 55.5              | 55.5           | 55.5 |  |
| 3-4 PM      | 4774                         | 0.0       | OFF            | 4774       | 0           | 0.00                  | 0                     | 58.2              | 58.2           | 58.2 |  |
| 4-5 PM      | 3827                         | 0.0       | OFF            | 3827       | 0           | 0.00                  | 0                     | 64.7              | 64.7           | 64.7 |  |
| 5-6 PM      | 3275                         | 0.0       | OFF            | 3275       | 0           | 0.00                  | 0                     | 66.7              | 66.7           | 66.7 |  |
| 6-7 PM      | 2772                         | 0.0       | OFF            | 2772       | 0           | 0.00                  | 0                     | 67.3              | 67.3           | 67.3 |  |
| 7-8 PM      | 2327                         | 0.0       | 1499           | 1971       | 356         | 13.08+                | 327                   | 67.8              | 8.6            | 30.8 |  |
| 8-9 PM      | 1676                         | 0.0       | 1499           | 1444       | 232         | 16.71+                | 409                   | 68.6              | 7.4            | 30.8 |  |
| 9-10 PM     | 1235                         | 0.0       | 1499           | 1235       | 0           | 12.19+                | 303                   | 69.2              | 9.0            | 31.5 |  |
| 10-11 PM    | 1032                         | 0.0       | 1500           | 1032       | 0           | 1.17                  | 28                    | 69.4              | 40.6           | 40.3 |  |
| 11PM-MID    | 725                          | 0.0       | 1500           | 725        | 0           | 0.56                  | 0                     | 69.9              | 52.0           | 42.7 |  |

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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           | 0.0247   |
| MAIN ROUTE WITH WORKS              | 0.0221   |
| 'DIVERSION'                        | 0.0040   |
| PIA: Personal Injury Accidents     |          |
| IMPACTS ON ROAD USERS              |          |
| ROAD USER COSTS PER DAY            | \$46,272 |
| CONGESTED HOURS PER DAY*           | 5        |

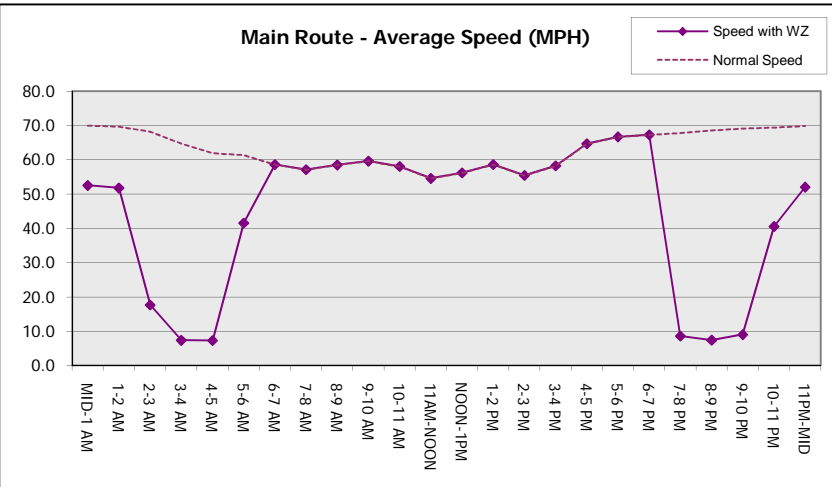
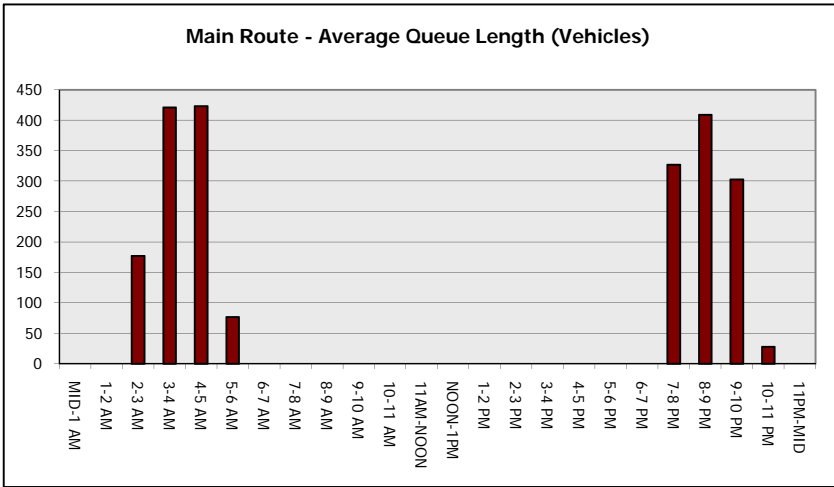
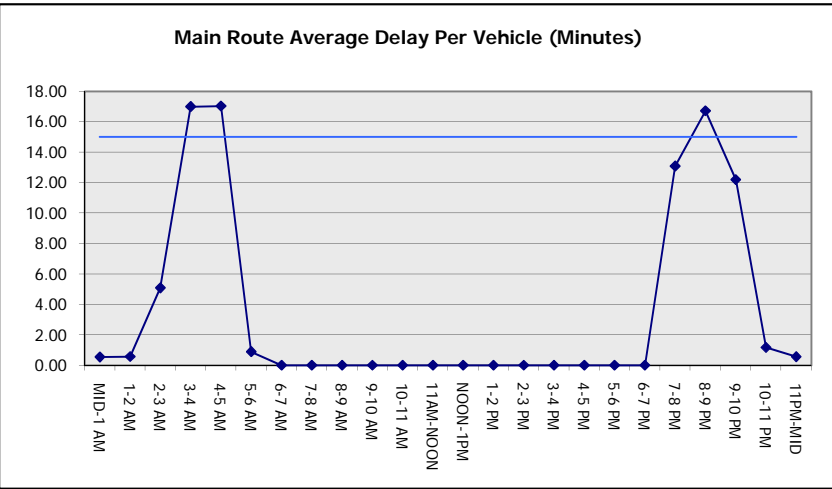
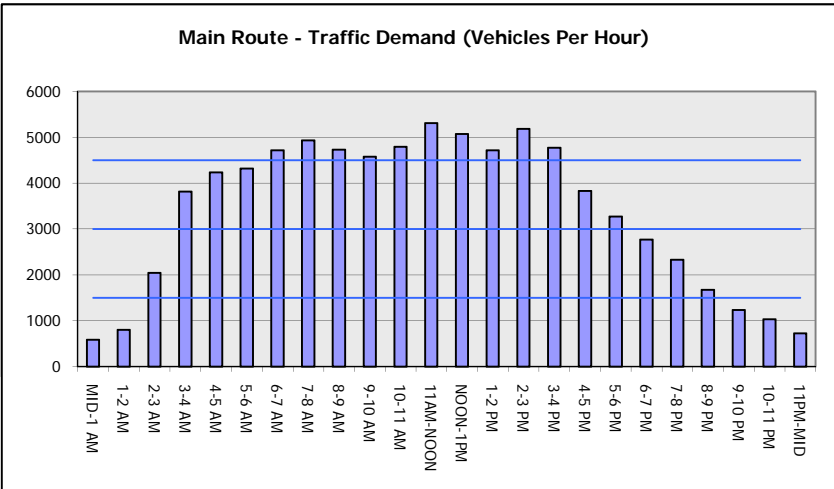
\*Delays Exceeding User-Specified Maximum

**USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY)**  
**NIGHTTIME 2 LANE CLOSURE**  
**NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
 Analyzed for 2009  
 Construction Season

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

**FRIDAY SOUTHBOUND DIRECTION**



|   |  |
|---|--|
| <b>USH 45: CTH E TO STH 190 (MILWAUKEE COUNTY)</b><br><b>NIGHTTIME 2 LANE CLOSURE</b><br><b>NO DIVERSION ROUTE (MAX QUEUE METHOD)</b> | <b>MAY</b>                               |
|   | Analyzed for 2009<br>Construction Season |

**SUMMARY OF TRAFFIC MODEL OUTPUT**

FRIDAY 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    | 1416                         | 0.0       | 1499           | 1416       | 0           | 15.41+                | 375                   | 69.0              | 7.8            | 30.8 |
| 1-2 AM      | 1850                         | 0.0       | 1500           | 1562       | 288         | 16.01+                | 391                   | 68.4              | 7.6            | 30.8 |
| 2-3 AM      | 3232                         | 0.0       | 1500           | 1508       | 1725        | 17.13+                | 421                   | 66.7              | 7.3            | 30.8 |
| 3-4 AM      | 4422                         | 0.0       | 1500           | 1500       | 2922        | 17.00+                | 423                   | 60.7              | 7.3            | 30.8 |
| 4-5 AM      | 4992                         | 0.0       | 1500           | 1500       | 3492        | 16.84+                | 423                   | 56.8              | 7.3            | 30.8 |
| 5-6 AM      | 4818                         | 0.0       | OFF            | 4818       | 0           | 0.80                  | 70                    | 57.9              | 41.2           | 41.2 |
| 6-7 AM      | 5076                         | 0.0       | OFF            | 5076       | 0           | 0.00                  | 0                     | 56.2              | 56.2           | 56.2 |
| 7-8 AM      | 5280                         | 0.0       | OFF            | 5280       | 0           | 0.00                  | 0                     | 54.8              | 54.8           | 54.8 |
| 8-9 AM      | 4979                         | 0.0       | OFF            | 4979       | 0           | 0.00                  | 0                     | 56.8              | 56.8           | 56.8 |
| 9-10 AM     | 4968                         | 0.0       | OFF            | 4968       | 0           | 0.00                  | 0                     | 56.9              | 56.9           | 56.9 |
| 10-11 AM    | 5244                         | 0.0       | OFF            | 5244       | 0           | 0.00                  | 0                     | 55.0              | 55.0           | 55.0 |
| 11AM-NOON   | 5684                         | 0.0       | OFF            | 5684       | 0           | 0.00                  | 0                     | 52.0              | 52.0           | 52.0 |
| NOON-1PM    | 5974                         | 0.0       | OFF            | 5974       | 0           | 0.00                  | 0                     | 50.1              | 50.1           | 50.1 |
| 1-2 PM      | 6416                         | 0.0       | OFF            | 6416       | 0           | 0.00                  | 0                     | 47.0              | 47.0           | 47.0 |
| 2-3 PM      | 5976                         | 0.0       | OFF            | 5976       | 0           | 0.00                  | 0                     | 50.1              | 50.1           | 50.1 |
| 3-4 PM      | 5182                         | 0.0       | OFF            | 5182       | 0           | 0.00                  | 0                     | 55.5              | 55.5           | 55.5 |
| 4-5 PM      | 4620                         | 0.0       | OFF            | 4620       | 0           | 0.00                  | 0                     | 59.3              | 59.3           | 59.3 |
| 5-6 PM      | 4335                         | 0.0       | OFF            | 4335       | 0           | 0.00                  | 0                     | 61.2              | 61.2           | 61.2 |
| 6-7 PM      | 4066                         | 0.0       | OFF            | 4066       | 0           | 0.00                  | 0                     | 63.1              | 63.1           | 63.1 |
| 7-8 PM      | 3414                         | 0.0       | 1499           | 1579       | 1835        | 17.33+                | 434                   | 66.5              | 7.3            | 36.5 |
| 8-9 PM      | 2701                         | 0.0       | 1499           | 1640       | 1061        | 15.02+                | 392                   | 67.4              | 8.1            | 35.6 |
| 9-10 PM     | 2242                         | 0.0       | 1499           | 1737       | 505         | 15.92+                | 392                   | 67.9              | 7.6            | 30.8 |
| 10-11 PM    | 1931                         | 0.0       | 1499           | 1491       | 440         | 16.89+                | 413                   | 68.3              | 7.3            | 30.8 |
| 11PM-MID    | 1710                         | 0.0       | 1499           | 1474       | 235         | 16.82+                | 411                   | 68.6              | 7.4            | 30.8 |

"OFF" INDICATES NO ROAD WORK (ALL LANES OPEN TO TRAFFIC)

+ 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           | 0.0304 |
| MAIN ROUTE WITH WORKS              | 0.0256 |
| 'DIVERSION'                        | 0.0088 |

PIA: Personal Injury Accidents

| ECONOMIC IMPACT ON ROAD USERS |          |
|-------------------------------|----------|
| ROAD USER COSTS PER DAY       | \$95,094 |
| CONGESTED HOURS PER DAY*      | 10       |

\*Delays Exceeding User-Specified Maximum

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 NIGHTTIME 2 LANE CLOSURE  
 NO DIVERSION ROUTE (MAX QUEUE METHOD)**

**MAY**  
 Analyzed for 2009  
 Construction Season

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

