

**WA STOCKWELL PTY LTD**

**TRAFFIC IMPACT ASSESSMENT**

**FOR PROPOSED MIXED USE DEVELOPMENT  
TWEED COAST ROAD  
CABARITA NSW**

**OPUS QANTEC McWILLIAM**



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## **APPENDIX A**

## *EXISTING TRAFFIC CONDITIONS*

## INTERSECTION TRAFFIC COUNT – EXISTING

|          |                            |
|----------|----------------------------|
| LOCATION | Rosewood Ave & Hastings Rd |
| CLIENT   | WA STOCKWELL PTY LTD       |
| JOB No.  | N-T7409.00                 |
| DATE     | 30/10/2008                 |

### Movement Performance

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Mov ID                 | Total Delay<br>(veh-h/h) | Total Delay<br>(pers-h/h) | Aver. Delay<br>(sec) | Prop. Queued | Eff. Stop Rate | Longest Queue<br>95% Back<br>(vehs) | Queue<br>(m) | Perf. Index | Aver. Speed<br>(km/h) |
|------------------------|--------------------------|---------------------------|----------------------|--------------|----------------|-------------------------------------|--------------|-------------|-----------------------|
| South: HASTINGS RD (S) |                          |                           |                      |              |                |                                     |              |             |                       |
| 1 L                    | 0.05                     | 0.07                      | 10.3                 | 0.28         | 0.86           | 0.3                                 | 2            | 0.23        | 33.9                  |
| 2 T                    | 0.02                     | 0.03                      | 9.6                  | 0.28         | 0.88           | 0.3                                 | 2            | 0.12        | 34.2                  |
| 3 R                    | 0.09                     | 0.13                      | 10.0                 | 0.28         | 0.86           | 0.3                                 | 2            | 0.46        | 33.9                  |
| East: ROSEWOOD AVE (E) |                          |                           |                      |              |                |                                     |              |             |                       |
| 4 L                    | 0.04                     | 0.07                      | 7.2                  | 0.32         | 0.41           | 0.7                                 | 5            | 0.22        | 31.1                  |
| 5 T                    | 0.01                     | 0.02                      | 0.8                  | 0.32         | 0.00           | 0.7                                 | 5            | 0.39        | 41.7                  |
| 6 R                    | 0.01                     | 0.02                      | 8.2                  | 0.32         | 0.59           | 0.7                                 | 5            | 0.06        | 30.6                  |
| North: HASTINGS RD (N) |                          |                           |                      |              |                |                                     |              |             |                       |
| 7 L                    | 0.02                     | 0.03                      | 10.4                 | 0.32         | 0.83           | 0.1                                 | 1            | 0.09        | 33.5                  |
| 8 T                    | 0.03                     | 0.04                      | 10.6                 | 0.32         | 0.86           | 0.1                                 | 1            | 0.15        | 33.8                  |
| 9 R                    | 0.01                     | 0.02                      | 10.3                 | 0.32         | 0.82           | 0.1                                 | 1            | 0.06        | 33.5                  |
| West: ROSEWOOD AVE (W) |                          |                           |                      |              |                |                                     |              |             |                       |
| 10 L                   | 0.00                     | 0.00                      | 7.1                  | 0.26         | 0.45           | 0.5                                 | 4            | 0.01        | 39.2                  |
| 11 T                   | 0.01                     | 0.02                      | 0.7                  | 0.26         | 0.00           | 0.5                                 | 4            | 0.57        | 46.5                  |
| 12 R                   | 0.03                     | 0.05                      | 7.7                  | 0.26         | 0.60           | 0.5                                 | 4            | 0.22        | 38.9                  |

### Lane Performance

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Lane No.               | Dem Flow<br>(veh/h) | Cap<br>(veh/h) | Deg. Satn<br>x | Aver. Delay<br>(sec) | Eff. Stop Rate | Q u e u e<br>95% Back<br>(vehs) | Queue<br>(m) | Lane Length<br>(m) |
|------------------------|---------------------|----------------|----------------|----------------------|----------------|---------------------------------|--------------|--------------------|
| South: HASTINGS RD (S) |                     |                |                |                      |                |                                 |              |                    |
| 1 LTR                  | 56                  | 1148           | 0.049          | 10.0                 | 0.86           | 0.3                             | 1.8          | 200.0              |
| East: ROSEWOOD AVE (E) |                     |                |                |                      |                |                                 |              |                    |
| 1 LTR                  | 92                  | 1694           | 0.054          | 2.7                  | 0.13           | 0.7                             | 4.9          | 300.0              |
| North: HASTINGS RD (N) |                     |                |                |                      |                |                                 |              |                    |
| 1 LTR                  | 20                  | 923            | 0.022          | 10.5                 | 0.84           | 0.1                             | 0.8          | 200.0              |
| West: ROSEWOOD AVE (W) |                     |                |                |                      |                |                                 |              |                    |
| 1 LTR                  | 75                  | 1441           | 0.052          | 2.2                  | 0.13           | 0.5                             | 3.6          | 100.0              |

## Table S.6 - Intersection Performance

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Total Flow<br>(veh/h)   | Deg. Satn<br>x | Total Delay<br>(veh-h/h) | Total Delay<br>(pers-h/h) | Aver. Delay<br>(sec) | Prop. Queued | Eff. Stop Rate | Longest Queue<br>(m) | Perf. Index | Aver. Speed<br>(km/h) |
|-------------------------|----------------|--------------------------|---------------------------|----------------------|--------------|----------------|----------------------|-------------|-----------------------|
| South: HASTINGS RD (S)  |                |                          |                           |                      |              |                |                      |             |                       |
| 56                      | 0.049          | 0.16                     | 0.23                      | 10.0                 | 0.28         | 0.86           | 2                    | 0.81        | 33.9                  |
| East: ROSEWOOD AVE (E)  |                |                          |                           |                      |              |                |                      |             |                       |
| 92                      | 0.054          | 0.07                     | 0.10                      | 2.7                  | 0.32         | 0.13           | 5                    | 0.66        | 37.8                  |
| North: HASTINGS RD (N)  |                |                          |                           |                      |              |                |                      |             |                       |
| 20                      | 0.022          | 0.06                     | 0.09                      | 10.5                 | 0.32         | 0.84           | 1                    | 0.30        | 33.7                  |
| West: ROSEWOOD AVE (W)  |                |                          |                           |                      |              |                |                      |             |                       |
| 75                      | 0.053          | 0.05                     | 0.07                      | 2.2                  | 0.26         | 0.13           | 4                    | 0.81        | 44.7                  |
| ALL VEHICLES:           |                |                          |                           |                      |              |                |                      |             |                       |
| 243                     | 0.054          | 0.33                     | 0.49                      | 4.9                  | 0.29         | 0.36           | 5                    | 2.58        | 38.9                  |
| INTERSECTION (persons): |                |                          |                           |                      |              |                |                      |             |                       |
| 365                     | 0.054          |                          | 0.49                      | 4.9                  | 0.29         | 0.36           |                      | 2.58        | 38.9                  |

Queue values in this table are 95% back of queue (metres).

## Movement Capacity and Performance Summary

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Mov ID                 | Mov Typ | Dem Flow<br>(veh/h) | Total Cap.<br>(veh/h) | Lane Util<br>(%) | Deg. Satn<br>x | Aver. Delay<br>(sec) | Eff. Stop Rate | 95% Back of Queue<br>(veh) | Perf. Index |
|------------------------|---------|---------------------|-----------------------|------------------|----------------|----------------------|----------------|----------------------------|-------------|
| South: HASTINGS RD (S) |         |                     |                       |                  |                |                      |                |                            |             |
| 1                      | L       | 16                  | 328                   | 100              | 0.049          | 10.3                 | 0.86           | 0.3                        | 0.23        |
| 2                      | T       | 8                   | 164                   | 100              | 0.049          | 9.6                  | 0.88           | 0.3                        | 0.12        |
| 3                      | R       | 32                  | 656                   | 100              | 0.049          | 10.0                 | 0.86           | 0.3                        | 0.46        |
| East: ROSEWOOD AVE (E) |         |                     |                       |                  |                |                      |                |                            |             |
| 4                      | L       | 22                  | 405                   | 100              | 0.054*         | 7.2                  | 0.41           | 0.7                        | 0.22        |
| 5                      | T       | 65                  | 1197                  | 100              | 0.054*         | 0.8                  | 0.00           | 0.7                        | 0.39        |
| 6                      | R       | 5                   | 92                    | 100              | 0.054*         | 8.2                  | 0.59           | 0.7                        | 0.06        |
| North: HASTINGS RD (N) |         |                     |                       |                  |                |                      |                |                            |             |
| 7                      | L       | 6                   | 277                   | 100              | 0.022          | 10.4                 | 0.83           | 0.1                        | 0.09        |
| 8                      | T       | 10                  | 462                   | 100              | 0.022          | 10.6                 | 0.86           | 0.1                        | 0.15        |
| 9                      | R       | 4                   | 185                   | 100              | 0.022          | 10.3                 | 0.82           | 0.1                        | 0.06        |
| West: ROSEWOOD AVE (W) |         |                     |                       |                  |                |                      |                |                            |             |
| 10                     | L       | 1                   | 19                    | 100              | 0.053          | 7.1                  | 0.45           | 0.5                        | 0.01        |
| 11                     | T       | 59                  | 1133                  | 100              | 0.052          | 0.7                  | 0.00           | 0.5                        | 0.57        |
| 12                     | R       | 15                  | 288                   | 100              | 0.052          | 7.7                  | 0.60           | 0.5                        | 0.22        |

\* Maximum degree of saturation

## Capacity and Level of Service

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Mov ID                 | Mov Typ | Total Flow<br>(veh/h) | Total Cap.<br>(veh/h) | Deg. of Satn<br>(v/c) | Aver. Delay<br>(sec) | LOS | Longest Queue<br>95% Back<br>(vehs) | Queue<br>(m) |
|------------------------|---------|-----------------------|-----------------------|-----------------------|----------------------|-----|-------------------------------------|--------------|
| South: HASTINGS RD (S) |         |                       |                       |                       |                      |     |                                     |              |
| 1                      | L       | 16                    | 328                   | 0.049                 | 10.3                 | A   | 0.3                                 | 2            |
| 2                      | T       | 8                     | 164                   | 0.049                 | 9.6                  | A   | 0.3                                 | 2            |
| 3                      | R       | 32                    | 656                   | 0.049                 | 10.0                 | A   | 0.3                                 | 2            |
| East: ROSEWOOD AVE (E) |         |                       |                       |                       |                      |     |                                     |              |
| 4                      | L       | 22                    | 405                   | 0.054*                | 7.2                  | A   | 0.7                                 | 5            |
| 5                      | T       | 65                    | 1197                  | 0.054*                | 0.8                  | A   | 0.7                                 | 5            |
| 6                      | R       | 5                     | 92                    | 0.054*                | 8.2                  | A   | 0.7                                 | 5            |
| North: HASTINGS RD (N) |         |                       |                       |                       |                      |     |                                     |              |
| 7                      | L       | 6                     | 277                   | 0.022                 | 10.4                 | A   | 0.1                                 | 1            |
| 8                      | T       | 10                    | 462                   | 0.022                 | 10.6                 | A   | 0.1                                 | 1            |
| 9                      | R       | 4                     | 185                   | 0.022                 | 10.3                 | A   | 0.1                                 | 1            |
| West: ROSEWOOD AVE (W) |         |                       |                       |                       |                      |     |                                     |              |
| 10                     | L       | 1                     | 19                    | 0.053                 | 7.1                  | A   | 0.5                                 | 4            |
| 11                     | T       | 59                    | 1133                  | 0.052                 | 0.7                  | A   | 0.5                                 | 4            |
| 12                     | R       | 15                    | 288                   | 0.052                 | 7.7                  | A   | 0.5                                 | 4            |
| ALL VEHICLES:          |         | 243                   |                       | 0.054                 | 4.9                  | NA  | 0.7                                 | 5            |

Level of Service calculations are based on average control delay including geometric delay (RTA NSW criteria), independent of the current delay definition used.  
For the criteria, refer to the "Level of Service" topic in the SIDRA Output Guide or the Output section of the on-line help.

NA Not Applicable - Intersection Level of Service is not calculated at two-way stop control or give-way/yield controlled intersections.

\* Maximum v/c ratio, or critical green periods

*PROPOSED TRAFFIC CONDITIONS INDUSTRIAL DEVELOPMENT*

## INTERSECTION TRAFFIC COUNT – DEVELOPED

|          |                            |
|----------|----------------------------|
| LOCATION | Rosewood Ave & Hastings Rd |
| CLIENT   | WA STOCKWELL PTY LTD       |
| JOB No.  | N-T7409.00                 |
| DATE     | 30/10/2008                 |

### Movement Performance

| Mov ID                 | Total Delay<br>(veh-h/h) | Total Delay<br>(pers-h/h) | Aver. Delay<br>(sec) | Prop. Queued | Eff. Stop Rate | Longest Queue<br>95% Back (vehs) | Queue (m) | Perf. Index | Aver. Speed<br>(km/h) |
|------------------------|--------------------------|---------------------------|----------------------|--------------|----------------|----------------------------------|-----------|-------------|-----------------------|
| South: HASTINGS RD (S) |                          |                           |                      |              |                |                                  |           |             |                       |
| 1 L                    | 0.22                     | 0.33                      | 10.8                 | 0.39         | 0.86           | 1.1                              | 8         | 1.11        | 33.4                  |
| 2 T                    | 0.11                     | 0.16                      | 10.4                 | 0.39         | 0.91           | 1.1                              | 8         | 0.58        | 33.7                  |
| 3 R                    | 0.28                     | 0.42                      | 10.7                 | 0.39         | 0.86           | 1.1                              | 8         | 1.41        | 33.4                  |
| East: ROSEWOOD AVE (E) |                          |                           |                      |              |                |                                  |           |             |                       |
| 4 L                    | 0.17                     | 0.25                      | 7.3                  | 0.41         | 0.36           | 1.1                              | 8         | 0.81        | 30.5                  |
| 5 T                    | 0.01                     | 0.02                      | 0.8                  | 0.41         | 0.00           | 1.1                              | 8         | 0.39        | 39.9                  |
| 6 R                    | 0.01                     | 0.02                      | 8.2                  | 0.41         | 0.58           | 1.1                              | 8         | 0.06        | 30.1                  |
| North: HASTINGS RD (N) |                          |                           |                      |              |                |                                  |           |             |                       |
| 7 L                    | 0.02                     | 0.03                      | 12.1                 | 0.47         | 0.84           | 0.4                              | 3         | 0.10        | 32.1                  |
| 8 T                    | 0.14                     | 0.21                      | 12.0                 | 0.47         | 0.90           | 0.4                              | 3         | 0.68        | 32.3                  |
| 9 R                    | 0.01                     | 0.02                      | 11.9                 | 0.47         | 0.82           | 0.4                              | 3         | 0.06        | 32.0                  |
| West: ROSEWOOD AVE (W) |                          |                           |                      |              |                |                                  |           |             |                       |
| 10 L                   | 0.00                     | 0.00                      | 7.5                  | 0.29         | 0.43           | 0.9                              | 7         | 0.01        | 39.0                  |
| 11 T                   | 0.02                     | 0.03                      | 1.1                  | 0.29         | 0.00           | 0.9                              | 7         | 0.59        | 46.1                  |
| 12 R                   | 0.17                     | 0.25                      | 7.9                  | 0.29         | 0.62           | 0.9                              | 7         | 1.15        | 38.7                  |

### Lane Performance

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Lane No.               | Dem Flow<br>(veh/h) | Cap<br>(veh/h) | Deg. Satn<br>x | Aver. Delay<br>(sec) | Eff. Stop Rate | Q u e u e<br>95% Back<br>(vehs) | Queue<br>(m) | Lane Length<br>(m) |
|------------------------|---------------------|----------------|----------------|----------------------|----------------|---------------------------------|--------------|--------------------|
| South: HASTINGS RD (S) |                     |                |                |                      |                |                                 |              |                    |
| 1 LTR                  | 206                 | 1036           | 0.199          | 10.7                 | 0.87           | 1.1                             | 8.1          | 200.0              |
| East: ROSEWOOD AVE (E) |                     |                |                |                      |                |                                 |              |                    |
| 1 LTR                  | 152                 | 1740           | 0.087          | 4.6                  | 0.21           | 1.1                             | 8.2          | 300.0              |
| North: HASTINGS RD (N) |                     |                |                |                      |                |                                 |              |                    |
| 1 LTR                  | 52                  | 689            | 0.076          | 12.0                 | 0.88           | 0.4                             | 2.8          | 200.0              |
| West: ROSEWOOD AVE (W) |                     |                |                |                      |                |                                 |              |                    |
| 1 LTR                  | 135                 | 1039           | 0.130          | 4.9                  | 0.34           | 0.9                             | 7.0          | 100.0              |

## Intersection Performance

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Total<br>Flow<br>(veh/h) | Deg.<br>Satn<br>x | Total<br>Delay<br>(veh-h/h) | Total<br>Delay<br>(pers-h/h) | Aver.<br>Delay<br>(sec) | Prop.<br>Queued | Eff.<br>Stop<br>Rate | Longest<br>Queue<br>(m) | Perf.<br>Index | Aver.<br>Speed<br>(km/h) |
|--------------------------|-------------------|-----------------------------|------------------------------|-------------------------|-----------------|----------------------|-------------------------|----------------|--------------------------|
| South: HASTINGS RD (S)   |                   |                             |                              |                         |                 |                      |                         |                |                          |
| 206                      | 0.199             | 0.61                        | 0.91                         | 10.7                    | 0.39            | 0.87                 | 8                       | 3.09           | 33.5                     |
| East: ROSEWOOD AVE (E)   |                   |                             |                              |                         |                 |                      |                         |                |                          |
| 152                      | 0.088             | 0.19                        | 0.29                         | 4.6                     | 0.41            | 0.21                 | 8                       | 1.26           | 33.9                     |
| North: HASTINGS RD (N)   |                   |                             |                              |                         |                 |                      |                         |                |                          |
| 52                       | 0.076             | 0.17                        | 0.26                         | 12.0                    | 0.47            | 0.88                 | 3                       | 0.83           | 32.3                     |
| West: ROSEWOOD AVE (W)   |                   |                             |                              |                         |                 |                      |                         |                |                          |
| 135                      | 0.130             | 0.18                        | 0.28                         | 4.9                     | 0.29            | 0.34                 | 7                       | 1.75           | 41.6                     |
| ALL VEHICLES:            |                   |                             |                              |                         |                 |                      |                         |                |                          |
| 545                      | 0.199             | 1.16                        | 1.74                         | 7.7                     | 0.38            | 0.56                 | 8                       | 6.93           | 35.8                     |
| INTERSECTION (persons):  |                   |                             |                              |                         |                 |                      |                         |                |                          |
| 818                      | 0.199             |                             | 1.74                         | 7.7                     | 0.38            | 0.56                 |                         | 6.93           | 35.8                     |

Queue values in this table are 95% back of queue (metres).

## Movement Capacity and Performance Summary

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Mov<br>ID              | Mov<br>Typ | Dem<br>Flow<br>(veh<br>/h) | Total<br>Cap.<br>(veh<br>/h) | Lane<br>Util<br>(%) | Deg.<br>Satn<br>x | Aver.<br>Delay<br>(sec) | Eff.<br>Stop<br>Rate | 95%<br>Back of<br>Queue<br>(veh) | Perf.<br>Index |
|------------------------|------------|----------------------------|------------------------------|---------------------|-------------------|-------------------------|----------------------|----------------------------------|----------------|
| South: HASTINGS RD (S) |            |                            |                              |                     |                   |                         |                      |                                  |                |
| 1                      | L          | 74                         | 372                          | 100                 | 0.199*            | 10.8                    | 0.86                 | 1.1                              | 1.11           |
| 2                      | T          | 38                         | 191                          | 100                 | 0.199*            | 10.4                    | 0.91                 | 1.1                              | 0.58           |
| 3                      | R          | 94                         | 473                          | 100                 | 0.199*            | 10.7                    | 0.86                 | 1.1                              | 1.41           |
| East: ROSEWOOD AVE (E) |            |                            |                              |                     |                   |                         |                      |                                  |                |
| 4                      | L          | 82                         | 939                          | 100                 | 0.087             | 7.3                     | 0.36                 | 1.1                              | 0.81           |
| 5                      | T          | 65                         | 744                          | 100                 | 0.087             | 0.8                     | 0.00                 | 1.1                              | 0.39           |
| 6                      | R          | 5                          | 57                           | 100                 | 0.088             | 8.2                     | 0.58                 | 1.1                              | 0.06           |
| North: HASTINGS RD (N) |            |                            |                              |                     |                   |                         |                      |                                  |                |
| 7                      | L          | 6                          | 79                           | 100                 | 0.076             | 12.1                    | 0.84                 | 0.4                              | 0.10           |
| 8                      | T          | 42                         | 556                          | 100                 | 0.076             | 12.0                    | 0.90                 | 0.4                              | 0.68           |
| 9                      | R          | 4                          | 53                           | 100                 | 0.075             | 11.9                    | 0.82                 | 0.4                              | 0.06           |
| West: ROSEWOOD AVE (W) |            |                            |                              |                     |                   |                         |                      |                                  |                |
| 10                     | L          | 1                          | 8                            | 100                 | 0.125             | 7.5                     | 0.43                 | 0.9                              | 0.01           |
| 11                     | T          | 59                         | 454                          | 100                 | 0.130             | 1.1                     | 0.00                 | 0.9                              | 0.59           |
| 12                     | R          | 75                         | 577                          | 100                 | 0.130             | 7.9                     | 0.62                 | 0.9                              | 1.15           |

\* Maximum degree of saturation

## Capacity and Level of Service

ROSEWOOD AVE / HASTINGS ROAD INTERSECTION  
CABARITA

| Mov<br>ID              | Mov<br>Typ | Total<br>Flow<br>(veh<br>/h) | Total<br>Cap.<br>(veh<br>/h) | Deg.<br>of<br>Satn<br>(v/c) | Aver.<br>Delay<br>(sec) | LOS | Longest Queue<br>95% Back<br>(vehs) (m) |   |
|------------------------|------------|------------------------------|------------------------------|-----------------------------|-------------------------|-----|-----------------------------------------|---|
| -----                  |            |                              |                              |                             |                         |     |                                         |   |
| South: HASTINGS RD (S) |            |                              |                              |                             |                         |     |                                         |   |
| 1                      | L          | 74                           | 372                          | 0.199*                      | 10.8                    | A   | 1.1                                     | 8 |
| 2                      | T          | 38                           | 191                          | 0.199*                      | 10.4                    | A   | 1.1                                     | 8 |
| 3                      | R          | 94                           | 473                          | 0.199*                      | 10.7                    | A   | 1.1                                     | 8 |
| -----                  |            |                              |                              |                             |                         |     |                                         |   |
| East: ROSEWOOD AVE (E) |            |                              |                              |                             |                         |     |                                         |   |
| 4                      | L          | 82                           | 939                          | 0.087                       | 7.3                     | A   | 1.1                                     | 8 |
| 5                      | T          | 65                           | 744                          | 0.087                       | 0.8                     | A   | 1.1                                     | 8 |
| 6                      | R          | 5                            | 57                           | 0.088                       | 8.2                     | A   | 1.1                                     | 8 |
| -----                  |            |                              |                              |                             |                         |     |                                         |   |
| North: HASTINGS RD (N) |            |                              |                              |                             |                         |     |                                         |   |
| 7                      | L          | 6                            | 79                           | 0.076                       | 12.1                    | A   | 0.4                                     | 3 |
| 8                      | T          | 42                           | 556                          | 0.076                       | 12.0                    | A   | 0.4                                     | 3 |
| 9                      | R          | 4                            | 53                           | 0.075                       | 11.9                    | A   | 0.4                                     | 3 |
| -----                  |            |                              |                              |                             |                         |     |                                         |   |
| West: ROSEWOOD AVE (W) |            |                              |                              |                             |                         |     |                                         |   |
| 10                     | L          | 1                            | 8                            | 0.125                       | 7.5                     | A   | 0.9                                     | 7 |
| 11                     | T          | 59                           | 454                          | 0.130                       | 1.1                     | A   | 0.9                                     | 7 |
| 12                     | R          | 75                           | 577                          | 0.130                       | 7.9                     | A   | 0.9                                     | 7 |
| -----                  |            |                              |                              |                             |                         |     |                                         |   |
| ALL VEHICLES:          |            | 545                          |                              | 0.199                       | 7.7                     | NA  | 1.1                                     | 8 |
| -----                  |            |                              |                              |                             |                         |     |                                         |   |

Level of Service calculations are based on  
average control delay including geometric delay (RTA NSW criteria),  
independent of the current delay definition used.  
For the criteria, refer to the "Level of Service" topic in the  
SIDRA Output Guide or the Output section of the on-line help.

NA Not Applicable - Intersection Level of Service is not calculated at  
two-way stop control or give-way/yield controlled intersections.

- \* Maximum v/c ratio, or critical green periods
- " Movement Level of service has been determined using adjacent lane  
v/c ratio rather than short lane v/c ratio (v/c=1.0)