Appendices



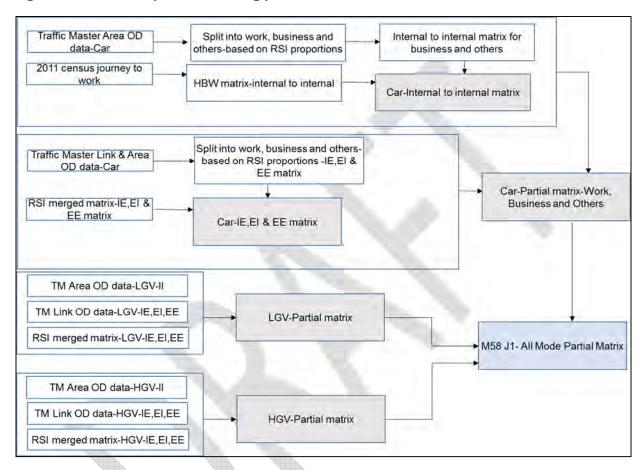




Appendix A. Prior Matrix Development-Method1

The highway matrix development process is summarised in the flow chart below (Figure A-1). The key steps are described as follows:

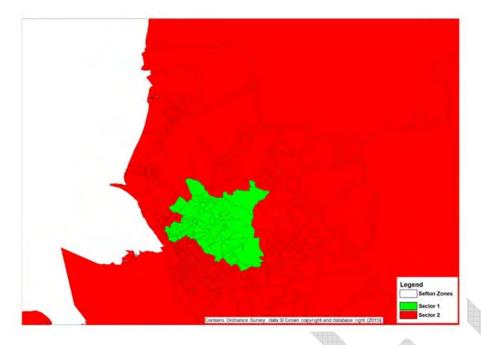
Figure A-1 Prior trip matrix building process



The zoning system is aggregated to a to a two sector system based on the inner cordon boundary. Sector 1 represents all zones within the inner cordon and sector 2 is an aggregate of all zones outside the inner cordon. Sector map used for method 1 of matrix build is presented in Figure A-2 below:



Figure A-2 Sector Map



As all the RSI site locations are on the cordon of sector 1, all movements captured within this sector from RSI are not realistic and hence only movements between sectors and sector 2-2 are considered from RSI.

The procedure for merging all data sources to obtain the partial trip matrix (as per method1) is as below:

Car:

- 1) Traffic Master Area OD data Car- business and others matrix (I-I).
- 2) Census Journey to Work- Car HBW work matrix (I-I).
- 3) Car work, business and others I-I matrix from Step 1 & 2.
- 4) RSI merged matrix- Car- I-E, E-I & E-E matrices for work, business and others purpose.
- 5) Traffic Master Link OD matrix- Car- I-E, E-I & E-E matrices for work, business and others purpose.
- 6) Merge the matrices in Step 4 and step 5 by giving 90% weightage to step4 and 10% weightage to step5. Car work, business and others I-E, E-E & E-E matrix.
- 7) Traffic Master Area OD data Car (work, business & others), (I-E, E-I&E-E).
- 8) Merge matrices from step 6& step7 -90% of step6 +10% of step7 to infill the unobserved I-E, E-I & E-E movements.
- 9) Combine matrices in Step 3 & 8 to obtain Car partial matrix for work, business and others.

LGV:

- 10) Traffic Master Area OD data LGV (I-I).
- 11) RSI merged matrix- LGV- I-E, E-I & E-E matrices.
- 12) Traffic Master Link OD matrix- LGV- I-E, E-I & E-E matrices.
- 13) Merge the matrices in Step 11 and step 12 by giving 90% weightage to step11 and 10% weightage to step12. LGV- I-E, E-I & E-E matrices.
- 14) Traffic Master Area OD data LGV, (I-E, E-I&E-E).
- 15) Merge matrices from step 13& step14 -90% of step13 +10% of step14 to infill the unobserved I-E, E-I & E-E movements.
- 16) Combine matrices in Step 10 & 15 to obtain LGV partial matrix.

HGV:

- 17) Traffic Master Area OD data HGV (I-I).
- 18) RSI merged matrix- HGV- I-E, E-I & E-E matrices.





- 19) Traffic Master Link OD matrix- HGV- I-E, E-I & E-E matrices.
- 20) Merge the matrices in Step 18 and step 19 by giving 90% weightage to step18 and 10% weightage to step19. HGV- I-E, E-I & E-E matrices.
- 21) Traffic Master Area OD data HGV, (I-E, E-I&E-E).
- 22) Merge matrices from step 20& step21 -90% of step20 +10% of step21 to infill the unobserved I-E, E-I & E-E movements.
- 23) Combine matrices in Step 17 & 22 to obtain HGV partial matrix.

Compare the partial matrices obtained in step 9, 16 & 23 with the rezoned PLTM base matrix and infill the unobserved movements with the rezoned PLTM base matrix to obtain the initial prior matrix.









Appendix B. Link Calibration Results

AM Peak: Outer Cordon

| Location | Direction | Count | Model (Total) | Difference | % | GEH | Web | TAG |
|---------------------------|-----------|---------|---------------|------------|------------|-----|------|-----|
| Location | Direction | (Total) | woder (Total) | Difference | Difference | GER | Flow | GEH |
| KINGSWAY | Inbound | 3042 | 2935 | -107 | -4% | 1.9 | ✓ | ✓ |
| BLACKBROOK ROAD | Inbound | 684 | 695 | 11 | 2% | 0.4 | ✓ | ✓ |
| WARRINGTON ROAD | Inbound | 665 | 635 | -30 | -5% | 1.2 | ✓ | ✓ |
| QUEENSWAY | Inbound | 3388 | 3429 | 41 | 1% | 0.7 | ✓ | ✓ |
| QUEENSWAY (MERSEY TUNNEL) | Inbound | 2181 | 2286 | 105 | 5% | 2.2 | ✓ | ✓ |
| MOSS BANK ROAD | Inbound | 425 | 441 | 15 | 4% | 0.7 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | Inbound | 1810 | 1610 | -200 | -11% | 4.8 | ✓ | ✓ |
| PENNINGTON LANE | Inbound | 504 | 521 | 18 | 4% | 0.8 | ✓ | ✓ |
| M62 between J7&J8 | Inbound | 4149 | 4172 | 23 | 1% | 0.4 | ✓ | ✓ |
| SOUTH LANE | Inbound | 201 | 194 | -7 | -4% | 0.5 | ✓ | ✓ |
| WIDNES ROAD | Inbound | 659 | 537 | -122 | -18% | 5.0 | × | ✓ |
| MOSS BANK ROAD | Outbound | 504 | 504 | 0 | 0% | 0.0 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | Outbound | 1662 | 1638 | -24 | -1% | 0.6 | ✓ | ✓ |
| PENNINGTON LANE | Outbound | 425 | 425 | 0 | 0% | 0.0 | ✓ | ✓ |
| M62 between J7&J8 | Outbound | 3576 | 3608 | 32 | 1% | 0.5 | ✓ | ✓ |
| SOUTH LANE | Outbound | 405 | 380 | -24 | -6% | 1.2 | ✓ | ✓ |
| WIDNES ROAD | Outbound | 442 | 441 | -1 | 0% | 0.1 | ✓ | ✓ |
| KINGSWAY | Outbound | 1752 | 1722 | -30 | -2% | 0.7 | ✓ | ✓ |
| BLACKBROOK ROAD | Outbound | 906 | 909 | 4 | 0% | 0.1 | ✓ | ✓ |
| WARRINGTON ROAD | Outbound | 519 | 509 | -10 | -2% | 0.4 | ✓ | ✓ |
| QUEENSWAY | Outbound | 3341 | 3348 | 8 | 0% | 0.1 | ✓ | ✓ |
| QUEENSWAY (MERSEY TUNNEL) | Outbound | 1321 | 1350 | 29 | 2% | 0.8 | ✓ | ✓ |
| BIRKDALE COP | Inbound | 304 | 301 | -3 | -1% | 0.2 | ✓ | ✓ |
| CAUSEWAY LANE | Inbound | 408 | 288 | -120 | -29% | 6.4 | × | × |
| LIVERPOOL ROAD | Inbound | 1202 | 1200 | -2 | 0% | 0.1 | ✓ | ✓ |
| SCARISBRICK NEW ROAD | Inbound | 710 | 712 | 2 | 0% | 0.1 | ✓ | ✓ |



| ALDER LANE | Inbound | 1011 | 893 | -118 | -12% | 3.8 | ✓ | ✓ |
|---------------------------------|-----------------|-------|-------|------|------|-----|------|----------|
| SCHOOL LANE | Inbound | 473 | 472 | -1 | 0% | 0.0 | ✓ | ✓ |
| M58 between M58 J5 & M58/M6 J26 | Inbound | 2695 | 2656 | -39 | -1% | 0.8 | ✓ | ✓ |
| LIVERPOOL ROAD | Outbound | 1038 | 1038 | 0 | 0% | 0.0 | ✓ | ✓ |
| SCARISBRICK NEW ROAD | Outbound | 883 | 877 | -5 | -1% | 0.2 | ✓ | ✓ |
| ALDER LANE | Outbound | 856 | 829 | -27 | -3% | 0.9 | ✓ | ✓ |
| SCHOOL LANE | Outbound | 408 | 407 | -1 | 0% | 0.0 | ✓ | ✓ |
| M58 between M58 J5 & M58/M6 J26 | Outbound | 2002 | 2007 | 5 | 0% | 0.1 | ✓ | ✓ |
| BIRKDALE COP | Outbound | 276 | 256 | -21 | -7% | 1.3 | ✓ | ✓ |
| CAUSEWAY LANE | Outbound | 288 | 228 | -60 | -21% | 3.7 | ✓ | ✓ |
| | Inbound | | | | | | 89% | 94% |
| Individual Links | Outbound | | | | | | 100% | 100% |
| | Both Directions | | | | | | 94% | 97% |
| Screenline Total | Inbound | 24512 | 23976 | -535 | -2% | | ✓ | |
| Ociecinine rotai | Outbound | 20603 | 20477 | -126 | -1% | | ✓ | |

AM Peak: Inner Cordon

| Location | Direction | Count (Total) | Model (Total) | Difformed | % | GEH | Web | TAG |
|------------------------|-----------|---------------|---------------|------------|------------|------|----------|--------------|
| Location | Direction | Count (Total) | Woder (Total) | Dillerence | Difference | GEH | Flow | GEH |
| A565 Crosby Road North | Inbound | 857 | 1101 | 244 | 28% | 7.8 | × | × |
| Seaforth | Inbound | 553 | 509 | -44 | -8% | 1.9 | ✓ | ✓ |
| A59 Walton Vale | Inbound | 1069 | 1087 | 17 | 2% | 0.5 | ✓ | ✓ |
| A5038 Bailey Drive | Inbound | 1003 | 967 | -37 | -4% | 1.2 | ✓ | ✓ |
| A5090 Hawthorne Road | Inbound | 461 | 367 | -94 | -20% | 4.6 | ✓ | ✓ |
| A567 Stanley Road | Inbound | 223 | 212 | -10 | -5% | 0.7 | ✓ | \checkmark |
| A565 Primrose Road | Inbound | 1351 | 1373 | 22 | 2% | 0.6 | ✓ | ✓ |
| A580 Townsend Avenue | Inbound | 402 | 385 | -17 | -4% | 0.9 | ✓ | \checkmark |
| Utting Avenue East | Inbound | 359 | 352 | -8 | -2% | 0.4 | ✓ | ✓ |
| Muirhead Avenue East | Inbound | 505 | 222 | -283 | -56% | 14.8 | × | × |
| B5167 Stopgate Lane | Inbound | 737 | 641 | -96 | -13% | 3.6 | ✓ | ✓ |
| A580 East Lancs Road | Inbound | 1245 | 1234 | -12 | -1% | 0.3 | ✓ | ✓ |
| Seaforth | Outbound | 486 | 411 | -75 | -15% | 3.5 | ✓ | ✓ |



| A59 Walton Vale | Outbound | 1278 | 1163 | -115 | -9% | 3.3 | ✓ | ✓ |
|-------------------------|----------|------|------|------|------|------|----------|----------|
| A5038 Bailey Drive | Outbound | 1469 | 1436 | -33 | -2% | 0.9 | ✓ | ✓ |
| A5090 Hawthorne Road | Outbound | 780 | 681 | -98 | -13% | 3.6 | ✓ | √ |
| A567 Stanley Road | Outbound | 423 | 389 | -35 | -8% | 1.7 | ✓ | ✓ |
| A565 Primrose Road | Outbound | 2254 | 2382 | 128 | 6% | 2.7 | √ | √ |
| A580 Townsend Avenue | Outbound | 485 | 487 | 3 | 1% | 0.1 | ✓ | ✓ |
| Utting Avenue East | Outbound | 501 | 501 | 0 | 0% | 0.0 | ✓ | ✓ |
| Muirhead Avenue East | Outbound | 765 | 724 | -41 | -5% | 1.5 | ✓ | ✓ |
| B5167 Stopgate Lane | Outbound | 722 | 590 | -132 | -18% | 5.1 | × | × |
| A580 East Lancs Road | Outbound | 1857 | 1742 | -116 | -6% | 2.7 | ✓ | ✓ |
| A565 Crosby Road North | Outbound | 563 | 692 | 129 | 23% | 5.2 | × | × |
| Park Wall Road | Inbound | 331 | 307 | -25 | -7% | 1.4 | ✓ | ✓ |
| A5147 Southport Road | Inbound | 613 | 618 | 5 | 1% | 0.2 | ✓ | ✓ |
| Brickwall Lane | Inbound | 669 | 647 | -22 | -3% | 0.9 | ✓ | ✓ |
| Northern Perimeter Road | Inbound | 898 | 931 | 33 | 4% | 1.1 | ✓ | ✓ |
| Edge Lane | Inbound | 1027 | 964 | -63 | -6% | 2.0 | ✓ | ✓ |
| Park Wall Road | Outbound | 137 | 111 | -26 | -19% | 2.3 | ✓ | ✓ |
| A5147 Southport Road | Outbound | 447 | 436 | -11 | -2% | 0.5 | ✓ | ✓ |
| Brickwall Lane | Outbound | 300 | 299 | -1 | 0% | 0.0 | ✓ | ✓ |
| Northern Perimeter Road | Outbound | 657 | 625 | -32 | -5% | 1.3 | ✓ | ✓ |
| Edge Lane | Outbound | 776 | 707 | -70 | -9% | 2.6 | ✓ | ✓ |
| Blind Foot Rd | Inbound | 325 | 322 | -3 | -1% | 0.2 | ✓ | ✓ |
| Carr Lane | Inbound | 294 | 292 | -2 | -1% | 0.1 | ✓ | ✓ |
| A58 Prescot Bypass | Inbound | 675 | 678 | 3 | 0% | 0.1 | ✓ | ✓ |
| A570 Rainford Rd | Inbound | 573 | 480 | -93 | -16% | 4.1 | ✓ | ✓ |
| A57 Derby Road | Inbound | 648 | 611 | -37 | -6% | 1.5 | ✓ | ✓ |
| Manchester Road | Inbound | 459 | 264 | -195 | -42% | 10.2 | × | × |
| A580 East Lancs Rd | Inbound | 829 | 751 | -78 | -9% | 2.8 | ✓ | ✓ |
| Gillars Lane | Inbound | 324 | 332 | 8 | 3% | 0.5 | ✓ | ✓ |
| Seth Powell Way | Inbound | 677 | 643 | -33 | -5% | 1.3 | ✓ | ✓ |
| A57 Liverpool Road | Inbound | 607 | 606 | -1 | 0% | 0.0 | ✓ | ✓ |
| Carr Lane | Outbound | 301 | 276 | -25 | -8% | 1.5 | ✓ | ✓ |
| A58 Prescot Bypass | Outbound | 787 | 792 | 5 | 1% | 0.2 | ✓ | ✓ |





| A570 Rainford Rd | Outbound | 572 | 569 | -3 | -1% | 0.1 | ✓ | ✓ |
|--------------------|-----------------|-------|-------|------|------|-----|-----|----------|
| A57 Derby Road | Outbound | 653 | 648 | -5 | -1% | 0.2 | ✓ | ✓ |
| Manchester Road | Outbound | 351 | 349 | -2 | -1% | 0.1 | ✓ | ✓ |
| A580 East Lancs Rd | Outbound | 1288 | 1145 | -143 | -11% | 4.1 | ✓ | ✓ |
| Gillars Lane | Outbound | 328 | 345 | 17 | 5% | 0.9 | ✓ | ✓ |
| Seth Powell Way | Outbound | 786 | 782 | -4 | -1% | 0.2 | ✓ | ✓ |
| A57 Liverpool Road | Outbound | 599 | 601 | 2 | 0% | 0.1 | ✓ | ✓ |
| Blind Foot Rd | Outbound | 412 | 410 | -2 | 0% | 0.1 | ✓ | ✓ |
| | Inbound | | | | | | 89% | 89% |
| Individual Links | Outbound | | | | | | 93% | 93% |
| | Both Directions | | | | | | 91% | 91% |
| Screenline Total | Inbound | 17715 | 16897 | -818 | -5% | | ✓ | |
| Screenine rotal | Outbound | 19976 | 19292 | -685 | -3% | | ✓ | |

| Location | Direction | Count (Total) | Model | Difference | % | GEH | Web | TAG |
|----------------------|------------------------|---------------|---------|------------|------------|-----|------|------|
| Location | Direction | Count (Total) | (Total) | Difference | Difference | GER | Flow | GEH |
| A59-Northway | NB | 740 | 740 | 0 | 0% | 0.0 | ✓ | ✓ |
| A5147 LIVERPOOL ROAD | NB | 475 | 448 | -28 | -6% | 1.3 | ✓ | ✓ |
| Lunt Lane | NB | 182 | 166 | -15 | -8% | 1.2 | ✓ | ✓ |
| Edge Lane | NB | 776 | 707 | -70 | -9% | 2.6 | ✓ | ✓ |
| GORSEY LANE | NB | 648 | 638 | -9 | -1% | 0.4 | ✓ | ✓ |
| A5207 Lydiate Lane | NB | 699 | 717 | 18 | 3% | 0.7 | ✓ | ✓ |
| A5207 Lydiate Lane | SB | 1045 | 1068 | 23 | 2% | 0.7 | ✓ | ✓ |
| A59-Northway | SB | 802 | 819 | 17 | 2% | 0.6 | ✓ | ✓ |
| A5147 LIVERPOOL ROAD | SB | 664 | 643 | -22 | -3% | 0.8 | ✓ | ✓ |
| Lunt Lane | SB | 535 | 531 | -3 | -1% | 0.1 | ✓ | ✓ |
| Edge Lane | SB | 1027 | 964 | -63 | -6% | 2.0 | ✓ | ✓ |
| GORSEY LANE | SB | 1093 | 988 | -105 | -10% | 3.3 | ✓ | ✓ |
| | NB | | | | | | 100% | 100% |
| Individual Links | SB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | NB | 3520 | 3417 | -103 | -3% | · | ✓ | · |
| Sciedinine Iolai | SB | 5166 | 5012 | -154 | -3% | | ✓ | |





| Location | Direction | Count (Total) | Model | Difference | % | GEH | Web | TAG |
|----------------------|-----------------|---------------|---------|------------|------------|-----|----------|------|
| Location | Direction | Count (Total) | (Total) | Dillerence | Difference | GER | Flow | GEH |
| Park Lane | NB | 319 | 312 | -7 | -2% | 0.4 | ✓ | ✓ |
| ORMSKIRK ROAD | NB | 569 | 577 | 8 | 1% | 0.3 | ✓ | ✓ |
| WADDICAR LANE | NB | 251 | 259 | 8 | 3% | 0.5 | ✓ | ✓ |
| VALLEY ROAD | NB | 1031 | 1045 | 14 | 1% | 0.4 | ✓ | ✓ |
| STONEBRIDGE LANE | NB | 576 | 467 | -108 | -19% | 4.7 | × | ✓ |
| EAST LANCASHIRE ROAD | NB | 1020 | 1136 | 116 | 11% | 3.5 | ✓ | ✓ |
| Park Lane | SB | 752 | 738 | -14 | -2% | 0.5 | ✓ | ✓ |
| ORMSKIRK ROAD | SB | 903 | 878 | -25 | -3% | 0.9 | ✓ | ✓ |
| WADDICAR LANE | SB | 634 | 551 | -83 | -13% | 3.4 | ✓ | ✓ |
| VALLEY ROAD | SB | 1360 | 1330 | -30 | -2% | 8.0 | ✓ | ✓ |
| STONEBRIDGE LANE | SB | 814 | 809 | -5 | -1% | 0.2 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | SB | 1101 | 1194 | 93 | 8% | 2.8 | ✓ | ✓ |
| | NB | | | | | | 83% | 100% |
| Individual Links | SB | | | 7 | | | 100% | 100% |
| | Both Directions | | | | | | 92% | 100% |
| Saraanlina Tatal | NB | 3765 | 3796 | 30 | 1% | | ✓ | |
| creenline Total | SB | 5563 | 5499 | -64 | -1% | | ✓ | |





| Location | Direction | Count (Total) | Model | Difference | % | GEH | Web | TAG |
|---------------------------------------|-----------------|---------------|---------|------------|------------|-----|------|-----|
| Location | Direction | Count (Total) | (Total) | Difference | Difference | GER | Flow | GEH |
| Northern Perimeter Road | EB | 898 | 931 | 33 | 4% | 1.1 | ✓ | ✓ |
| Glovers Lane | EB | 669 | 516 | -153 | -23% | 6.3 | × | × |
| Park Lane West | EB | 697 | 615 | -82 | -12% | 3.2 | ✓ | ✓ |
| A5036 between A5038 and A5207 (TRADS) | EB | 2366 | 2226 | -140 | -6% | 2.9 | ✓ | ✓ |
| WARBRECK MOOR | EB | 611 | 635 | 24 | 4% | 1.0 | ✓ | ✓ |
| LONGMOOR LANE | EB | 666 | 689 | 24 | 4% | 0.9 | ✓ | ✓ |
| Northern Perimeter Road | WB | 657 | 625 | -32 | -5% | 1.3 | ✓ | ✓ |
| Glovers Lane | WB | 411 | 416 | 6 | 1% | 0.3 | ✓ | ✓ |
| Park Lane West | WB | 409 | 524 | 115 | 28% | 5.3 | × | × |
| A5036 between A5038 and A5207 (TRADS) | WB | 1863 | 1896 | 33 | 2% | 0.8 | ✓ | ✓ |
| WARBRECK MOOR | WB | 893 | 857 | -36 | -4% | 1.2 | ✓ | ✓ |
| LONGMOOR LANE | WB | 564 | 714 | 150 | 27% | 5.9 | × | × |
| | EB | | | | | | 83% | 83% |
| Individual Links | WB | | | | | | 67% | 67% |
| | Both Directions | | | | | | 75% | 75% |
| Screenline Total | EB | 5906 | 5612 | -294 | -5% | | ✓ | |
| Screening rotal | WB | 4797 | 5032 | 235 | 5% | | ✓ | |





| Location | Direction | Count (Total) | Model | Difference | % | GEH | Web | TAG |
|-----------------------|-----------------|---------------|---------|------------|------------|-----|----------|------|
| Location | Direction | Count (Total) | (Total) | Difference | Difference | GEN | Flow | GEH |
| A5147 MAIRSCOUGH LANE | NB | 452 | 436 | -16 | -4% | 0.8 | ✓ | ✓ |
| A565 | NB | 740 | 740 | 0 | 0% | 0.0 | ✓ | ✓ |
| A506 CUNSCOUGH LANE | NB | 260 | 256 | -4 | -2% | 0.3 | ✓ | ✓ |
| Bank Lane | NB | 638 | 621 | -17 | -3% | 0.7 | ✓ | ✓ |
| VALLEY ROAD | NB | 1138 | 1127 | -11 | -1% | 0.3 | ✓ | ✓ |
| M58 J1-3 | NB | 1680 | 1652 | -28 | -2% | 0.7 | ✓ | ✓ |
| A5147 MAIRSCOUGH LANE | SB | 621 | 618 | -2 | 0% | 0.1 | ✓ | ✓ |
| A565 | SB | 802 | 819 | 17 | 2% | 0.6 | ✓ | ✓ |
| A506 CUNSCOUGH LANE | SB | 320 | 325 | 5 | 2% | 0.3 | ✓ | ✓ |
| Bank Lane | SB | 485 | 483 | -2 | 0% | 0.1 | ✓ | ✓ |
| VALLEY ROAD | SB | 1165 | 1174 | 9 | 1% | 0.3 | ✓ | ✓ |
| M58 J1-3 | SB | 1673 | 1633 | -40 | -2% | 1.0 | ✓ | ✓ |
| | NB | | | | | | 100% | 100% |
| Individual Links | SB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | NB | 4908 | 4833 | -75 | -2% | | ✓ | |
| Screenine rotal | SB | 5066 | 5052 | -14 | 0% | | ✓ | |





Inter Peak: Outer Cordon

| Lacatan | Discotton | O (T-1-1) | Model | D:// | % | OFIL | Wel | TAG |
|---------------------------------|-----------|---------------|---------|------------|------------|------|----------|-----|
| Location | Direction | Count (Total) | (Total) | Difference | Difference | GEH | Flow | GEH |
| KINGSWAY | Inbound | 1190 | 1190 | 0 | 0% | 0.0 | ✓ | ✓ |
| BLACKBROOK ROAD | Inbound | 760 | 764 | 4 | 1% | 0.1 | ✓ | ✓ |
| WARRINGTON ROAD | Inbound | 432 | 433 | 1 | 0% | 0.0 | ✓ | ✓ |
| QUEENSWAY | Inbound | 2562 | 2565 | 4 | 0% | 0.1 | ✓ | ✓ |
| QUEENSWAY (MERSEY TUNNEL) | Inbound | 800 | 798 | -2 | 0% | 0.1 | ✓ | ✓ |
| MOSS BANK ROAD | Inbound | 348 | 348 | 0 | 0% | 0.0 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | Inbound | 1215 | 1208 | -7 | -1% | 0.2 | ✓ | ✓ |
| PENNINGTON LANE | Inbound | 357 | 357 | 0 | 0% | 0.0 | ✓ | ✓ |
| M62 between J7&J8 | Inbound | 3056 | 3058 | 2 | 0% | 0.0 | √ | ✓ |
| SOUTH LANE | Inbound | 177 | 177 | 0 | 0% | 0.0 | ✓ | ✓ |
| WIDNES ROAD | Inbound | 492 | 493 | 1 | 0% | 0.1 | ✓ | ✓ |
| MOSS BANK ROAD | Outbound | 357 | 357 | 0 | 0% | 0.0 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | Outbound | 1122 | 1115 | -7 | -1% | 0.2 | ✓ | ✓ |
| PENNINGTON LANE | Outbound | 348 | 348 | 0 | 0% | 0.0 | ✓ | ✓ |
| M62 between J7&J8 | Outbound | 3175 | 3180 | 5 | 0% | 0.1 | ✓ | ✓ |
| SOUTH LANE | Outbound | 214 | 199 | -15 | -7% | 1.1 | ✓ | ✓ |
| WIDNES ROAD | Outbound | 528 | 514 | -14 | -3% | 0.6 | ✓ | ✓ |
| KINGSWAY | Outbound | 1276 | 1277 | 1 | 0% | 0.0 | ✓ | ✓ |
| BLACKBROOK ROAD | Outbound | 752 | 752 | 0 | 0% | 0.0 | ✓ | ✓ |
| WARRINGTON ROAD | Outbound | 411 | 404 | -7 | -2% | 0.3 | ✓ | ✓ |
| QUEENSWAY | Outbound | 2392 | 2405 | 13 | 1% | 0.3 | ✓ | ✓ |
| QUEENSWAY (MERSEY TUNNEL) | Outbound | 740 | 740 | 0 | 0% | 0.0 | ✓ | ✓ |
| BIRKDALE COP | Inbound | 197 | 197 | 0 | 0% | 0.0 | ✓ | ✓ |
| CAUSEWAY LANE | Inbound | 387 | 368 | -19 | -5% | 1.0 | ✓ | ✓ |
| LIVERPOOL ROAD | Inbound | 976 | 976 | 1 | 0% | 0.0 | ✓ | ✓ |
| SCARISBRICK NEW ROAD | Inbound | 812 | 812 | 0 | 0% | 0.0 | ✓ | ✓ |
| ALDER LANE | Inbound | 627 | 625 | -2 | 0% | 0.1 | ✓ | ✓ |
| SCHOOL LANE | Inbound | 333 | 307 | -26 | -8% | 1.4 | ✓ | ✓ |
| M58 between M58 J5 & M58/M6 J26 | Inbound | 1456 | 1461 | 5 | 0% | 0.1 | ✓ | ✓ |
| LIVERPOOL ROAD | Outbound | 989 | 988 | -1 | 0% | 0.0 | ✓ | ✓ |
| SCARISBRICK NEW ROAD | Outbound | 836 | 836 | 0 | 0% | 0.0 | ✓ | ✓ |
| ALDER LANE | Outbound | 630 | 630 | 0 | 0% | 0.0 | ✓ | ✓ |
| SCHOOL LANE | Outbound | 332 | 311 | -21 | -6% | 1.2 | ✓ | ✓ |
| M58 between M58 J5 & M58/M6 J26 | Outbound | 1544 | 1550 | 6 | 0% | 0.2 | ✓ | ✓ |
| BIRKDALE COP | Outbound | 175 | 169 | -6 | -3% | 0.4 | ✓ | ✓ |





| CAUSEWAY LANE | Outbound | 389 | 329 | -61 | -16% | 3.2 | ✓ | ✓ |
|------------------|-----------------|-------|-------|------|------|-----|------|------|
| | Inbound | | | | | | 100% | 100% |
| dividual Links | Outbound | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Corpording Total | Inbound | 16177 | 16138 | -39 | 0% | | ✓ | |
| Screenline Total | Outbound | 16211 | 16105 | -106 | -1% | | ✓ | |

Inter Peak: Inner Cordon

| Location | Direction | Count (Total) | Madel (Tetal) | Difference | % | CELL | Web | ΓAG |
|------------------------|-----------|---------------|---------------|------------|------------|------|------|--------------|
| Location | Direction | Count (Total) | Model (Total) | Difference | Difference | GEH | Flow | GEH |
| A565 Crosby Road North | Inbound | 540 | 530 | -10 | -2% | 0.4 | ✓ | ✓ |
| Seaforth | Inbound | 432 | 432 | 0 | 0% | 0.0 | ✓ | ✓ |
| A59 Walton Vale | Inbound | 1162 | 1155 | -6 | -1% | 0.2 | ✓ | ✓ |
| A5038 Bailey Drive | Inbound | 814 | 823 | 9 | 1% | 0.3 | ✓ | ✓ |
| A5090 Hawthorne Road | Inbound | 637 | 545 | -92 | -14% | 3.8 | ✓ | ✓ |
| A567 Stanley Road | Inbound | 307 | 293 | -14 | -5% | 0.8 | ✓ | ✓ |
| A565 Primrose Road | Inbound | 1271 | 1292 | 21 | 2% | 0.6 | ✓ | ✓ |
| A580 Townsend Avenue | Inbound | 345 | 376 | 31 | 9% | 1.6 | ✓ | ✓ |
| Utting Avenue East | Inbound | 358 | 357 | -1 | 0% | 0.1 | ✓ | ✓ |
| Muirhead Avenue East | Inbound | 552 | 352 | -199 | -36% | 9.4 | × | × |
| B5167 Stopgate Lane | Inbound | 642 | 630 | -12 | -2% | 0.5 | ✓ | ✓ |
| A580 East Lancs Road | Inbound | 1065 | 1060 | -5 | 0% | 0.1 | ✓ | ✓ |
| Seaforth | Outbound | 540 | 382 | -158 | -29% | 7.3 | × | × |
| A59 Walton Vale | Outbound | 1172 | 1035 | -137 | -12% | 4.1 | ✓ | ✓ |
| A5038 Bailey Drive | Outbound | 761 | 769 | 9 | 1% | 0.3 | ✓ | ✓ |
| A5090 Hawthorne Road | Outbound | 602 | 587 | -15 | -2% | 0.6 | ✓ | ✓ |
| A567 Stanley Road | Outbound | 311 | 303 | -8 | -3% | 0.5 | ✓ | ✓ |
| A565 Primrose Road | Outbound | 1097 | 1158 | 61 | 6% | 1.8 | ✓ | ✓ |
| A580 Townsend Avenue | Outbound | 305 | 332 | 27 | 9% | 1.5 | ✓ | ✓ |
| Utting Avenue East | Outbound | 299 | 299 | 0 | 0% | 0.0 | ✓ | ✓ |
| Muirhead Avenue East | Outbound | 537 | 342 | -195 | -36% | 9.3 | × | × |
| B5167 Stopgate Lane | Outbound | 748 | 749 | 1 | 0% | 0.0 | ✓ | \checkmark |
| A580 East Lancs Road | Outbound | 1100 | 1076 | -24 | -2% | 0.7 | ✓ | ✓ |
| A565 Crosby Road North | Outbound | 585 | 588 | 3 | 0% | 0.1 | ✓ | ✓ |
| Park Wall Road | Inbound | 101 | 86 | -16 | -16% | 1.6 | ✓ | ✓ |
| A5147 Southport Road | Inbound | 299 | 300 | 2 | 1% | 0.1 | ✓ | ✓ |
| Brickwall Lane | Inbound | 361 | 350 | -10 | -3% | 0.6 | ✓ | ✓ |



| Northern Perimeter Road | Inbound | 628 | 599 | -28 | -5% | 1.1 | ✓ | ✓ |
|-------------------------|-----------------|-------|-------|------|------|-----|----------|----------|
| Edge Lane | Inbound | 521 | 522 | 1 | 0% | 0.0 | ✓ | ✓ |
| Park Wall Road | Outbound | 115 | 107 | -8 | -7% | 0.8 | ✓ | ✓ |
| A5147 Southport Road | Outbound | 347 | 348 | 1 | 0% | 0.1 | ✓ | ✓ |
| Brickwall Lane | Outbound | 302 | 302 | 0 | 0% | 0.0 | ✓ | ✓ |
| Northern Perimeter Road | Outbound | 635 | 614 | -21 | -3% | 0.8 | ✓ | ✓ |
| Edge Lane | Outbound | 596 | 592 | -4 | -1% | 0.2 | ✓ | ✓ |
| Blind Foot Rd | Inbound | 177 | 176 | 0 | 0% | 0.0 | ✓ | ✓ |
| Carr Lane | Inbound | 331 | 330 | -1 | 0% | 0.0 | ✓ | ✓ |
| A58 Prescot Bypass | Inbound | 444 | 444 | 0 | 0% | 0.0 | ✓ | ✓ |
| A570 Rainford Rd | Inbound | 364 | 363 | -1 | 0% | 0.0 | ✓ | ✓ |
| A57 Derby Road | Inbound | 440 | 441 | 1 | 0% | 0.0 | ✓ | ✓ |
| Manchester Road | Inbound | 300 | 236 | -64 | -21% | 3.9 | ✓ | ✓ |
| A580 East Lancs Rd | Inbound | 757 | 753 | -4 | 0% | 0.1 | ✓ | ✓ |
| Gillars Lane | Inbound | 165 | 175 | 9 | 6% | 0.7 | ✓ | ✓ |
| Seth Powell Way | Inbound | 415 | 393 | -22 | -5% | 1.1 | ✓ | √ |
| A57 Liverpool Road | Inbound | 445 | 443 | -1 | 0% | 0.1 | ✓ | ✓ |
| Carr Lane | Outbound | 304 | 305 | 1 | 0% | 0.1 | ✓ | ✓ |
| A58 Prescot Bypass | Outbound | 411 | 413 | 2 | 0% | 0.1 | ✓ | ✓ |
| A570 Rainford Rd | Outbound | 424 | 428 | 4 | 1% | 0.2 | ✓ | ✓ |
| A57 Derby Road | Outbound | 389 | 390 | 2 | 0% | 0.1 | ✓ | ✓ |
| Manchester Road | Outbound | 324 | 268 | -56 | -17% | 3.2 | ✓ | ✓ |
| A580 East Lancs Rd | Outbound | 752 | 739 | -13 | -2% | 0.5 | ✓ | ✓ |
| Gillars Lane | Outbound | 206 | 199 | -6 | -3% | 0.5 | ✓ | ✓ |
| Seth Powell Way | Outbound | 459 | 425 | -34 | -7% | 1.6 | ✓ | ✓ |
| A57 Liverpool Road | Outbound | 431 | 431 | 1 | 0% | 0.0 | ✓ | ✓ |
| Blind Foot Rd | Outbound | 160 | 160 | 0 | 0% | 0.0 | ✓ | ✓ |
| | Inbound | | | | | | 96% | 96% |
| Individual Links | Outbound | | | | | | 93% | 93% |
| | Both Directions | | | | | | 94% | 94% |
| Screenline Total | Inbound | 13875 | 13459 | -415 | -3% | | ✓ | |
| Octobrillio Total | Outbound | 13910 | 13343 | -567 | -4% | | ✓ | |



Inter Peak: Screenline1

| Location | Direction | Count (Total) | Model | Difference | % | GEH | Web | TAG |
|----------------------|------------------------|---------------|---------|------------|------------|-----|----------|------|
| Location | Direction | Count (Total) | (Total) | Difference | Difference | GEN | Flow | GEH |
| A59-Northway | NB | 585 | 585 | -1 | 0% | 0.0 | ✓ | ✓ |
| A5147 LIVERPOOL ROAD | NB | 362 | 362 | 0 | 0% | 0.0 | ✓ | ✓ |
| Lunt Lane | NB | 114 | 125 | 11 | 9% | 1.0 | ✓ | ✓ |
| Edge Lane | NB | 596 | 592 | -4 | -1% | 0.2 | ✓ | ✓ |
| GORSEY LANE | NB | 566 | 593 | 27 | 5% | 1.1 | ✓ | ✓ |
| A5207 Lydiate Lane | NB | 634 | 634 | 0 | 0% | 0.0 | ✓ | ✓ |
| A5207 Lydiate Lane | SB | 621 | 622 | 0 | 0% | 0.0 | ✓ | ✓ |
| A59-Northway | SB | 557 | 557 | 0 | 0% | 0.0 | ✓ | ✓ |
| A5147 LIVERPOOL ROAD | SB | 372 | 374 | 1 | 0% | 0.1 | ✓ | ✓ |
| Lunt Lane | SB | 114 | 128 | 14 | 13% | 1.3 | ✓ | ✓ |
| Edge Lane | SB | 521 | 522 | 1 | 0% | 0.0 | ✓ | ✓ |
| GORSEY LANE | SB | 601 | 590 | -11 | -2% | 0.5 | ✓ | ✓ |
| | NB | | | | | | 100% | 100% |
| Individual Links | SB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | NB | 2858 | 2890 | 32 | 1% | | ✓ | |
| creenline Total | SB | 2787 | 2793 | 6 | 0% | | ✓ | |

Inter Peak: Screenline2

| Location | Direction | Count (Total) | Model | Difference | % | GEH | Web | TAG |
|----------------------|-----------|---------------|---------|------------|------------|-----|----------|--------------|
| Location | Direction | Count (Total) | (Total) | Difference | Difference | GEH | Flow | GEH |
| Park Lane | NB | 431 | 433 | 2 | 0% | 0.1 | ✓ | ✓ |
| ORMSKIRK ROAD | NB | 768 | 767 | -1 | 0% | 0.0 | ✓ | ✓ |
| WADDICAR LANE | NB | 273 | 273 | 0 | 0% | 0.0 | ✓ | \checkmark |
| VALLEY ROAD | NB | 780 | 775 | -5 | -1% | 0.2 | ✓ | ✓ |
| STONEBRIDGE LANE | NB | 429 | 382 | -47 | -11% | 2.3 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | NB | 767 | 888 | 121 | 16% | 4.2 | × | ✓ |
| Park Lane | SB | 468 | 469 | 1 | 0% | 0.1 | ✓ | ✓ |
| ORMSKIRK ROAD | SB | 864 | 854 | -11 | -1% | 0.4 | ✓ | ✓ |
| WADDICAR LANE | SB | 249 | 239 | -10 | -4% | 0.6 | ✓ | ✓ |
| VALLEY ROAD | SB | 841 | 841 | 0 | 0% | 0.0 | ✓ | ✓ |
| STONEBRIDGE LANE | SB | 588 | 549 | -39 | -7% | 1.7 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | SB | 753 | 812 | 59 | 8% | 2.1 | ✓ | ✓ |





| | NB | | | | | 83% | 100% |
|------------------|-----------------|------|------|----|----|------|------|
| Individual Links | SB | | | | | 100% | 100% |
| | Both Directions | | | | | 92% | 100% |
| Saraanlina Total | NB | 3448 | 3518 | 70 | 2% | ✓ | |
| creenline Total | SB | 3764 | 3764 | 0 | 0% | ✓ | |

Inter Peak: Screenline3

| Location | Direction | Count (Total) | Model | Difference . | % | GEH | Web | TAG |
|---------------------------------------|-----------------|---------------|---------|--------------|------------|-----|---|--------------|
| Location | Direction | Count (Total) | (Total) | Dillelelice | Difference | GEN | Flow / / / / / / / / / / / / / | GEH |
| Northern Perimeter Road | EB | 628 | 599 | -28 | -5% | 1.1 | ✓ | \checkmark |
| Glovers Lane | EB | 382 | 386 | 4 | 1% | 0.2 | ✓ | \checkmark |
| Park Lane West | EB | 472 | 475 | 3 | 1% | 0.1 | ✓ | \checkmark |
| A5036 between A5038 and A5207 (TRADS) | EB | 1436 | 1443 | 7 | 0% | 0.2 | ✓ | \checkmark |
| WARBRECK MOOR | EB | 722 | 718 | -4 | 0% | 0.1 | ✓ | \checkmark |
| LONGMOOR LANE | EB | 545 | 490 | -54 | -10% | 2.4 | ✓ | ✓ |
| Northern Perimeter Road | WB | 635 | 614 | -21 | -3% | 0.8 | ✓ | \checkmark |
| Glovers Lane | WB | 431 | 447 | 16 | 4% | 8.0 | ✓ | ✓ |
| Park Lane West | WB | 477 | 481 | 4 | 1% | 0.2 | ✓ | ✓ |
| A5036 between A5038 and A5207 (TRADS) | WB | 1464 | 1469 | 6 | 0% | 0.2 | ✓ | \checkmark |
| WARBRECK MOOR | WB | 699 | 694 | -5 | -1% | 0.2 | ✓ | ✓ |
| LONGMOOR LANE | WB | 538 | 579 | 41 | 8% | 1.7 | ✓ | \checkmark |
| | EB | | | | | | 100% | 100% |
| Individual Links | WB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | EB | 4184 | 4112 | -72 | -2% | | ✓ | |
| | WB | 4243 | 4284 | 41 | 1% | | ✓ | |

Inter Peak: Screenline4

| Location | Direction | Count (Total) | Model | Difference | % | GEH | WebTAG | |
|-----------------------|-----------|---------------|---------|------------|-----------------|-----|--------|-----|
| Location | Direction | Count (Total) | (Total) | Difference | % Difference | GER | Flow | GEH |
| A5147 MAIRSCOUGH LANE | NB | 355 | 348 | -7 | -2% | 0.3 | ✓ | ✓ |
| A565 | NB | 585 | 585 | -1 | 0% | 0.0 | ✓ | ✓ |
| A506 CUNSCOUGH LANE | NB | 183 | 183 | 0 | 0% | 0.0 | ✓ | ✓ |
| Bank Lane | NB | 369 | 370 | 1 | 0% | 0.1 | ✓ | ✓ |
| VALLEY ROAD | NB | 857 | 857 | 0 | 0% | 0.0 | ✓ | ✓ |



| M58 J1-3 | NB | 881 | 887 | 5 | 1% | 0.2 | ✓ | ✓ |
|-----------------------|-----------------|------|------|----|-----|-----|----------|------|
| A5147 MAIRSCOUGH LANE | SB | 305 | 300 | -5 | -2% | 0.3 | ✓ | ✓ |
| A565 | SB | 557 | 557 | 0 | 0% | 0.0 | ✓ | ✓ |
| A506 CUNSCOUGH LANE | SB | 176 | 176 | 0 | 0% | 0.0 | ✓ | ✓ |
| Bank Lane | SB | 349 | 347 | -2 | -1% | 0.1 | ✓ | ✓ |
| VALLEY ROAD | SB | 897 | 898 | 1 | 0% | 0.0 | ✓ | ✓ |
| M58 J1-3 | SB | 932 | 933 | 1 | 0% | 0.0 | ✓ | ✓ |
| | NB | | | | | | 100% | 100% |
| Individual Links | SB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | NB | 3230 | 3229 | -1 | 0% | | ✓ | |
| octeenine rotal | SB | 3216 | 3210 | -6 | 0% | | ✓ | |

PM Peak: Outer Cordon

| Location | Direction | Count (Total) | Model (Total) | Difference | % | GEH | WebT | AG |
|---------------------------|-----------|---------------|---------------|------------|------------|-----|------|--------------|
| Location | Direction | Court (Total) | woder (Total) | Dillerence | Difference | GEN | Flow | GEH |
| KINGSWAY | Inbound | 1641 | 1632 | -9 | -1% | 0.2 | ✓ | ✓ |
| BLACKBROOK ROAD | Inbound | 1022 | 1029 | 7 | 1% | 0.2 | ✓ | ✓ |
| WARRINGTON ROAD | Inbound | 509 | 523 | 14 | 3% | 0.6 | ✓ | \checkmark |
| QUEENSWAY | Inbound | 3514 | 3505 | -9 | 0% | 0.2 | ✓ | ✓ |
| QUEENSWAY (MERSEY TUNNEL) | Inbound | 1305 | 1314 | 9 | 1% | 0.2 | ✓ | ✓ |
| MOSS BANK ROAD | Inbound | 494 | 447 | -47 | -9% | 2.1 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | Inbound | 1849 | 1748 | -101 | -5% | 2.4 | ✓ | ✓ |
| PENNINGTON LANE | Inbound | 361 | 398 | 37 | 10% | 1.9 | ✓ | ✓ |
| M62 between J7&J8 | Inbound | 4535 | 4545 | 10 | 0% | 0.2 | ✓ | ✓ |
| SOUTH LANE | Inbound | 315 | 315 | 0 | 0% | 0.0 | ✓ | ✓ |
| WIDNES ROAD | Inbound | 455 | 438 | -17 | -4% | 8.0 | ✓ | ✓ |
| MOSS BANK ROAD | Outbound | 361 | 341 | -20 | -5% | 1.1 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | Outbound | 1769 | 1651 | -118 | -7% | 2.9 | ✓ | ✓ |
| PENNINGTON LANE | Outbound | 494 | 449 | -44 | -9% | 2.0 | ✓ | ✓ |
| M62 between J7&J8 | Outbound | 4090 | 4092 | 2 | 0% | 0.0 | ✓ | ✓ |
| SOUTH LANE | Outbound | 232 | 222 | -9 | -4% | 0.6 | ✓ | ✓ |
| WIDNES ROAD | Outbound | 656 | 653 | -3 | 0% | 0.1 | ✓ | ✓ |
| KINGSWAY | Outbound | 2952 | 2712 | -240 | -8% | 4.5 | ✓ | ✓ |
| BLACKBROOK ROAD | Outbound | 868 | 886 | 18 | 2% | 0.6 | ✓ | ✓ |
| WARRINGTON ROAD | Outbound | 577 | 543 | -34 | -6% | 1.4 | ✓ | ✓ |
| QUEENSWAY | Outbound | 3280 | 3311 | 31 | 1% | 0.5 | ✓ | \checkmark |



| QUEENSWAY (MERSEY TUNNEL) | Outbound | 1813 | 1955 | 142 | 8% | 3.3 | ✓ | ✓ |
|---------------------------------|-----------------|-------|-------|------|------|-----|--------------|----------|
| BIRKDALE COP | Inbound | 298 | 292 | -7 | -2% | 0.4 | ✓ | ✓ |
| CAUSEWAY LANE | Inbound | 433 | 384 | -50 | -11% | 2.5 | ✓ | ✓ |
| LIVERPOOL ROAD | Inbound | 1003 | 1001 | -2 | 0% | 0.1 | ✓ | ✓ |
| SCARISBRICK NEW ROAD | Inbound | 775 | 785 | 11 | 1% | 0.4 | ✓ | ✓ |
| ALDER LANE | Inbound | 892 | 851 | -41 | -5% | 1.4 | ✓ | ✓ |
| SCHOOL LANE | Inbound | 493 | 472 | -21 | -4% | 1.0 | ✓ | ✓ |
| M58 between M58 J5 & M58/M6 J26 | Inbound | 2391 | 2454 | 63 | 3% | 1.3 | ✓ | ✓ |
| LIVERPOOL ROAD | Outbound | 1178 | 1185 | 8 | 1% | 0.2 | ✓ | ✓ |
| SCARISBRICK NEW ROAD | Outbound | 862 | 867 | 5 | 1% | 0.2 | \checkmark | ✓ |
| ALDER LANE | Outbound | 839 | 811 | -28 | -3% | 1.0 | ✓ | ✓ |
| SCHOOL LANE | Outbound | 384 | 366 | -18 | -5% | 0.9 | ✓ | ✓ |
| M58 between M58 J5 & M58/M6 J26 | Outbound | 2051 | 2046 | -5 | 0% | 0.1 | ✓ | ✓ |
| BIRKDALE COP | Outbound | 238 | 227 | -12 | -5% | 8.0 | ✓ | √ |
| CAUSEWAY LANE | Outbound | 455 | 376 | -79 | -17% | 3.9 | \checkmark | ✓ |
| | Inbound | | | | | | 100% | 100% |
| Individual Links | Outbound | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | Inbound | 22285 | 22133 | -152 | -1% | | ✓ | |
| Screenine rotal | Outbound | 23097 | 22692 | -405 | -2% | | ✓ | |

PM Peak: Inner Cordon

| Location | Direction | Count (Total) | Model | Difference | % | GEH | DM | RB |
|------------------------|-----------|---------------|---------|------------|------------|------|------|-----|
| Location | Direction | Count (Total) | (Total) | Difference | Difference | GEH | Flow | GEH |
| A565 Crosby Road North | Inbound | 534 | 546 | 12 | 2% | 0.5 | ✓ | ✓ |
| Seaforth | Inbound | 386 | 211 | -175 | -45% | 10.1 | × | × |
| A59 Walton Vale | Inbound | 1220 | 1195 | -25 | -2% | 0.7 | ✓ | ✓ |
| A5038 Bailey Drive | Inbound | 1393 | 1394 | 1 | 0% | 0.0 | ✓ | ✓ |
| A5090 Hawthorne Road | Inbound | 790 | 696 | -94 | -12% | 3.4 | ✓ | ✓ |
| A567 Stanley Road | Inbound | 422 | 404 | -18 | -4% | 0.9 | ✓ | ✓ |
| A565 Primrose Road | Inbound | 2367 | 2448 | 81 | 3% | 1.6 | ✓ | ✓ |
| A580 Townsend Avenue | Inbound | 517 | 520 | 3 | 1% | 0.1 | ✓ | ✓ |
| Utting Avenue East | Inbound | 455 | 455 | 0 | 0% | 0.0 | ✓ | ✓ |
| Muirhead Avenue East | Inbound | 751 | 715 | -36 | -5% | 1.3 | ✓ | ✓ |
| B5167 Stopgate Lane | Inbound | 517 | 392 | -125 | -24% | 5.9 | × | × |
| A580 East Lancs Road | Inbound | 1438 | 1438 | 0 | 0% | 0.0 | ✓ | ✓ |
| Seaforth | Outbound | 513 | 382 | -131 | -26% | 6.2 | × | × |





| A59 Walton Vale | Outbound | 1220 | 995 | -225 | -18% | 6.8 | × | × |
|-------------------------|----------|------|------|------|------|------|---|---|
| A5038 Bailey Drive | Outbound | 984 | 943 | -41 | -4% | 1.3 | ✓ | ✓ |
| A5090 Hawthorne Road | Outbound | 580 | 575 | -4 | -1% | 0.2 | ✓ | ✓ |
| A567 Stanley Road | Outbound | 277 | 270 | -7 | -2% | 0.4 | ✓ | ✓ |
| A565 Primrose Road | Outbound | 1143 | 1186 | 43 | 4% | 1.3 | ✓ | ✓ |
| A580 Townsend Avenue | Outbound | 434 | 446 | 12 | 3% | 0.6 | ✓ | ✓ |
| Utting Avenue East | Outbound | 304 | 305 | 1 | 0% | 0.0 | ✓ | ✓ |
| Muirhead Avenue East | Outbound | 619 | 373 | -246 | -40% | 11.0 | × | × |
| B5167 Stopgate Lane | Outbound | 809 | 750 | -59 | -7% | 2.1 | ✓ | ✓ |
| A580 East Lancs Road | Outbound | 1338 | 1287 | -51 | -4% | 1.4 | ✓ | ✓ |
| A565 Crosby Road North | Outbound | 870 | 1170 | 300 | 34% | 9.4 | × | × |
| Park Wall Road | Inbound | 108 | 97 | -10 | -9% | 1.0 | ✓ | ✓ |
| A5147 Southport Road | Inbound | 446 | 442 | -4 | -1% | 0.2 | ✓ | ✓ |
| Brickwall Lane | Inbound | 411 | 417 | 6 | 1% | 0.3 | ✓ | ✓ |
| Northern Perimeter Road | Inbound | 605 | 633 | 28 | 5% | 1.1 | ✓ | ✓ |
| Edge Lane | Inbound | 563 | 541 | -22 | -4% | 0.9 | ✓ | ✓ |
| Park Wall Road | Outbound | 366 | 363 | -3 | -1% | 0.2 | ✓ | ✓ |
| A5147 Southport Road | Outbound | 626 | 622 | -4 | -1% | 0.2 | ✓ | ✓ |
| Brickwall Lane | Outbound | 493 | 506 | 12 | 3% | 0.6 | ✓ | ✓ |
| Northern Perimeter Road | Outbound | 931 | 886 | -46 | -5% | 1.5 | ✓ | ✓ |
| Edge Lane | Outbound | 1088 | 981 | -107 | -10% | 3.3 | ✓ | ✓ |
| Blind Foot Rd | Inbound | 399 | 393 | -6 | -1% | 0.3 | ✓ | ✓ |
| Carr Lane | Inbound | 411 | 429 | 18 | 4% | 0.9 | ✓ | ✓ |
| A58 Prescot Bypass | Inbound | 815 | 808 | -7 | -1% | 0.3 | ✓ | ✓ |
| A570 Rainford Rd | Inbound | 623 | 637 | 14 | 2% | 0.6 | ✓ | ✓ |
| A57 Derby Road | Inbound | 467 | 499 | 32 | 7% | 1.5 | ✓ | ✓ |
| Manchester Road | Inbound | 417 | 296 | -121 | -29% | 6.4 | × | × |
| A580 East Lancs Rd | Inbound | 1073 | 1042 | -31 | -3% | 1.0 | ✓ | ✓ |
| Gillars Lane | Inbound | 293 | 390 | 97 | 33% | 5.2 | ✓ | × |
| Seth Powell Way | Inbound | 639 | 641 | 2 | 0% | 0.1 | ✓ | ✓ |
| A57 Liverpool Road | Inbound | 578 | 575 | -3 | 0% | 0.1 | ✓ | ✓ |
| Carr Lane | Outbound | 373 | 381 | 9 | 2% | 0.4 | ✓ | ✓ |
| A58 Prescot Bypass | Outbound | 563 | 558 | -5 | -1% | 0.2 | ✓ | ✓ |
| A570 Rainford Rd | Outbound | 721 | 653 | -68 | -9% | 2.6 | ✓ | ✓ |
| A57 Derby Road | Outbound | 475 | 480 | 5 | 1% | 0.2 | ✓ | ✓ |
| Manchester Road | Outbound | 420 | 340 | -80 | -19% | 4.1 | ✓ | ✓ |
| A580 East Lancs Rd | Outbound | 817 | 840 | 23 | 3% | 0.8 | ✓ | ✓ |
| Gillars Lane | Outbound | 345 | 304 | -41 | -12% | 2.3 | ✓ | ✓ |
| Seth Powell Way | Outbound | 765 | 750 | -16 | -2% | 0.6 | ✓ | ✓ |



| A57 Liverpool Road | Outbound | 618 | 616 | -2 | 0% | 0.1 | ✓ | ✓ |
|--------------------|-----------------|-------|-------|------|-----|-----|----------|-----|
| Blind Foot Rd | Outbound | 222 | 221 | -1 | 0% | 0.0 | ✓ | ✓ |
| | Inbound | | | | | | 89% | 85% |
| Individual Links | Outbound | | | | | | 85% | 85% |
| | Both Directions | | | | | | 87% | 85% |
| Screenling Total | Inbound | 18638 | 18256 | -382 | -2% | | ✓ | |
| Screenline Total | Outbound | 17915 | 17183 | -732 | -4% | | ✓ | |

| Location | Direction Count (To | | Model Difford | | % | GEH | WebTAG | |
|----------------------|---------------------|---------------|---------------|------------|------------|-----|----------|--------------|
| Location | Direction Count (| Count (Total) | (Total) | Difference | Difference | GEH | Flow | GEH |
| A59-Northway | NB | 866 | 862 | -4 | 0% | 0.1 | ✓ | ✓ |
| A5147 LIVERPOOL ROAD | NB | 577 | 556 | -21 | -4% | 0.9 | ✓ | ✓ |
| Lunt Lane | NB | 405 | 454 | 48 | 12% | 2.3 | ✓ | \checkmark |
| Edge Lane | NB | 1088 | 981 | -107 | -10% | 3.3 | ✓ | ✓ |
| GORSEY LANE | NB | 935 | 886 | -49 | -5% | 1.6 | ✓ | ✓ |
| A5207 Lydiate Lane | NB | 971 | 970 | -1 | 0% | 0.0 | ✓ | ✓ |
| A5207 Lydiate Lane | SB | 626 | 647 | 21 | 3% | 0.8 | ✓ | ✓ |
| A59-Northway | SB | 687 | 687 | -1 | 0% | 0.0 | ✓ | ✓ |
| A5147 LIVERPOOL ROAD | SB | 509 | 486 | -23 | -4% | 1.0 | ✓ | ✓ |
| Lunt Lane | SB | 150 | 143 | -7 | -5% | 0.6 | ✓ | ✓ |
| Edge Lane | SB | 563 | 541 | -22 | -4% | 0.9 | ✓ | \checkmark |
| GORSEY LANE | SB | 631 | 609 | -22 | -3% | 0.9 | ✓ | ✓ |
| | NB | | | | | | 100% | 100% |
| Individual Links | SB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | NB | 4843 | 4708 | -134 | -3% | | ✓ | |
| | SB | 3166 | 3113 | -53 | -2% | | ✓ | |



PM Peak: Screenline2

| Location | Direction Cou | Count (Total) | Model | Difference | % | GEH | Web | TAG |
|----------------------|-----------------|---------------|---------|------------|------------|-----|----------|--------------|
| Location | | Count (Total) | (Total) | Difference | Difference | GER | Flow | GEH |
| Park Lane | NB | 612 | 573 | -39 | -6% | 1.6 | ✓ | ✓ |
| ORMSKIRK ROAD | NB | 752 | 758 | 7 | 1% | 0.2 | ✓ | \checkmark |
| WADDICAR LANE | NB | 573 | 564 | -9 | -2% | 0.4 | ✓ | ✓ |
| VALLEY ROAD | NB | 1114 | 1089 | -25 | -2% | 0.8 | √ | \checkmark |
| STONEBRIDGE LANE | NB | 591 | 530 | -61 | -10% | 2.6 | ✓ | ✓ |
| EAST LANCASHIRE ROAD | NB | 1195 | 1219 | 24 | 2% | 0.7 | ✓ | ✓ |
| Park Lane | SB | 410 | 397 | -13 | -3% | 0.6 | ✓ | \checkmark |
| ORMSKIRK ROAD | SB | 940 | 885 | -55 | -6% | 1.8 | ✓ | ✓ |
| WADDICAR LANE | SB | 322 | 330 | 8 | 2% | 0.4 | ✓ | ✓ |
| VALLEY ROAD | SB | 1216 | 1219 | 3 | 0% | 0.1 | √ | \checkmark |
| STONEBRIDGE LANE | SB | 851 | 764 | -87 | -10% | 3.1 | √ | \checkmark |
| EAST LANCASHIRE ROAD | SB | 1082 | 1100 | 18 | 2% | 0.5 | ✓ | ✓ |
| | NB | | | | | | 100% | 100% |
| Individual Links | SB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | NB | 4838 | 4735 | -103 | -2% | · | ✓ | |
| | SB | 4820 | 4693 | -126 | -3% | | ✓ | |

| Location | Direction | Count (Total) | Model | Difference | % | GEH | WebTAG | |
|---------------------------------------|-----------|---------------|---------|------------|-----------------|-----|--------|----------|
| Location | Direction | | (Total) | Difference | % Difference | GER | Flow | GEH |
| Northern Perimeter Road | EB | 605 | 633 | 28 | 5% | 1.1 | ✓ | ✓ |
| Glovers Lane | EB | 396 | 387 | -10 | -2% | 0.5 | ✓ | ✓ |
| Park Lane West | EB | 432 | 553 | 120 | 28% | 5.4 | × | × |
| A5036 between A5038 and A5207 (TRADS) | EB | 1742 | 1703 | -39 | -2% | 0.9 | ✓ | ✓ |
| WARBRECK MOOR | EB | 768 | 773 | 6 | 1% | 0.2 | ✓ | ✓ |
| LONGMOOR LANE | EB | 580 | 540 | -40 | -7% | 1.7 | ✓ | ✓ |
| Northern Perimeter Road | WB | 931 | 886 | -46 | -5% | 1.5 | ✓ | ✓ |
| Glovers Lane | WB | 668 | 664 | -5 | -1% | 0.2 | ✓ | ✓ |
| Park Lane West | WB | 698 | 662 | -36 | -5% | 1.4 | ✓ | ✓ |
| A5036 between A5038 and A5207 (TRADS) | WB | 2075 | 1904 | -171 | -8% | 3.8 | ✓ | ✓ |
| WARBRECK MOOR | WB | 721 | 716 | -5 | -1% | 0.2 | ✓ | ✓ |





| LONGMOOR LANE | WB | 590 | 547 | -42 | -7% | 1.8 | ✓ | ✓ |
|------------------|-----------------|------|------|------|-----|-----|------|------|
| | EB | | | | | | 83% | 83% |
| Individual Links | WB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 92% | 92% |
| Screenline Total | EB | 4523 | 4588 | 65 | 1% | | ✓ | |
| Screenine rotal | WB | 5683 | 5379 | -305 | -5% | | × | |

| Location | Direction | Count (Total) | Model | Difference | % | GEH | Web | TAG |
|-----------------------|-----------------|---------------|---------|------------|------------|-----|--------------|------|
| Location | | | (Total) | Dillerence | Difference | GER | Flow | GEH |
| A5147 MAIRSCOUGH LANE | NB | 633 | 622 | -11 | -2% | 0.4 | ✓ | ✓ |
| A565 | NB | 866 | 862 | -4 | 0% | 0.1 | ✓ | ✓ |
| A506 CUNSCOUGH LANE | NB | 331 | 332 | 1 | 0% | 0.1 | ✓ | ✓ |
| Bank Lane | NB | 625 | 623 | -2 | 0% | 0.1 | \checkmark | ✓ |
| VALLEY ROAD | NB | 1260 | 1264 | 4 | 0% | 0.1 | ✓ | ✓ |
| M58 J1-3 | NB | 1441 | 1442 | 1 | 0% | 0.0 | ✓ | ✓ |
| A5147 MAIRSCOUGH LANE | SB | 451 | 442 | -9 | -2% | 0.4 | \checkmark | ✓ |
| A565 | SB | 687 | 687 | -1 | 0% | 0.0 | ✓ | ✓ |
| A506 CUNSCOUGH LANE | SB | 230 | 226 | -4 | -2% | 0.2 | \checkmark | ✓ |
| Bank Lane | SB | 548 | 547 | -1 | 0% | 0.1 | ✓ | ✓ |
| VALLEY ROAD | SB | 1157 | 1168 | 11 | 1% | 0.3 | ✓ | ✓ |
| M58 J1-3 | SB | 1791 | 1818 | 27 | 1% | 0.6 | \checkmark | ✓ |
| | NB | | | | | | 100% | 100% |
| Individual Links | SB | | | | | | 100% | 100% |
| | Both Directions | | | | | | 100% | 100% |
| Screenline Total | NB | 5155 | 5144 | -11 | 0% | | ✓ | |
| Screenine rotal | SB | 4864 | 4888 | 24 | 0% | | ✓ | |



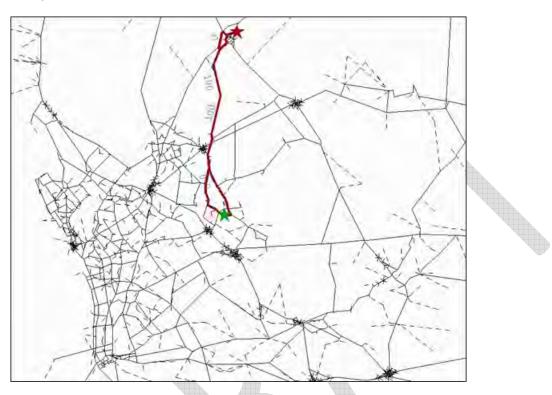


Appendix C. Route Choice Validation

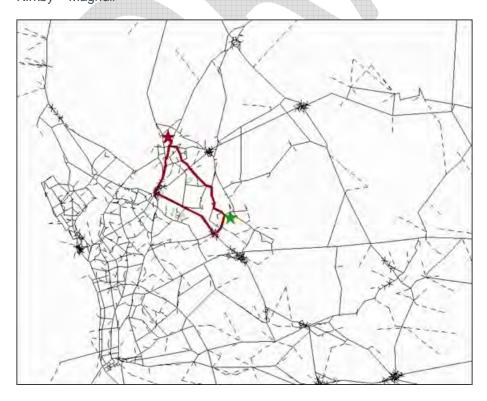
Note: Numbers, where visible, refer to the proportion of vehicles between the two zones using each link

C.1. AM Peak

Kirkby – Ormskirk



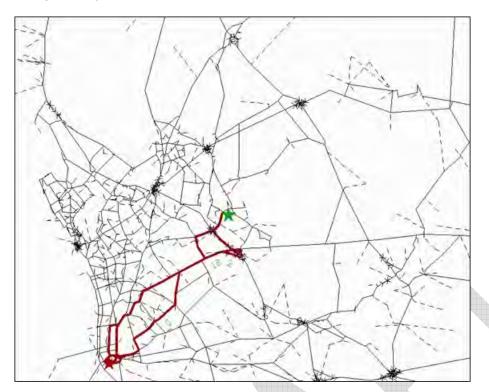
Kirkby - Maghull



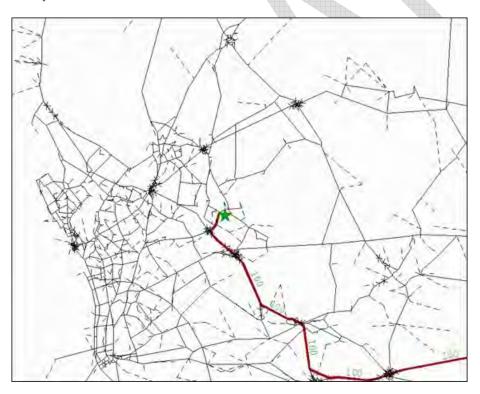




Kirkby – Liverpool



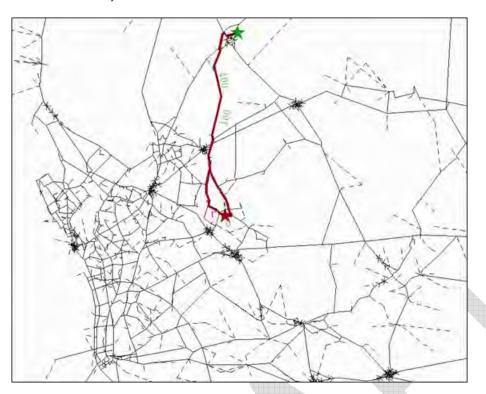
Kirkby - Manchester



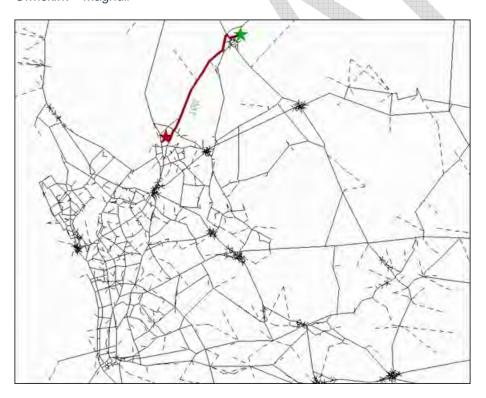




Ormskirk – Kirkby

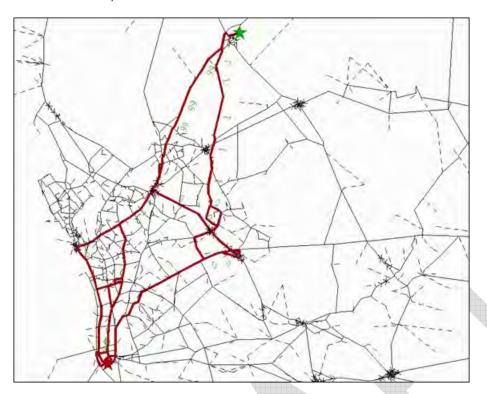


Ormskirk - Maghull

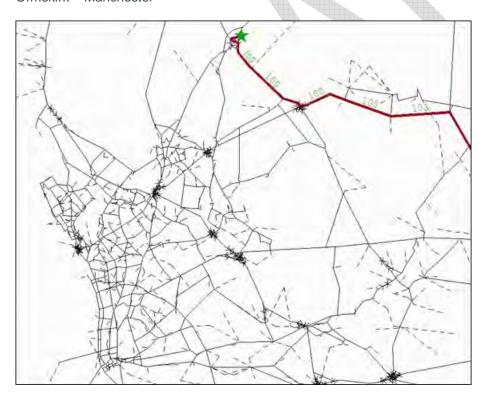




Ormskirk – Liverpool



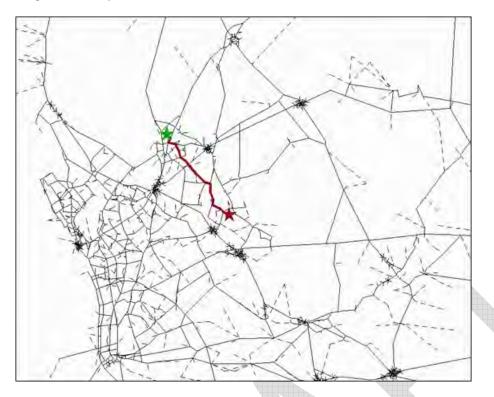
Ormskirk - Manchester



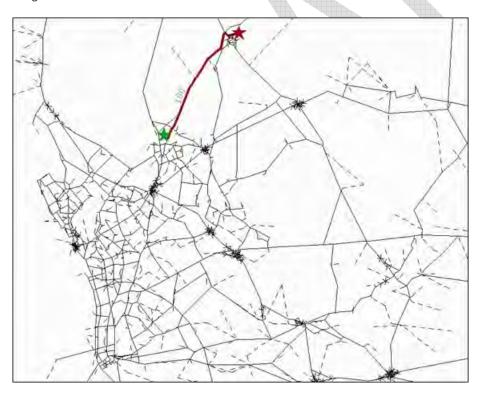




Maghull – Kirkby



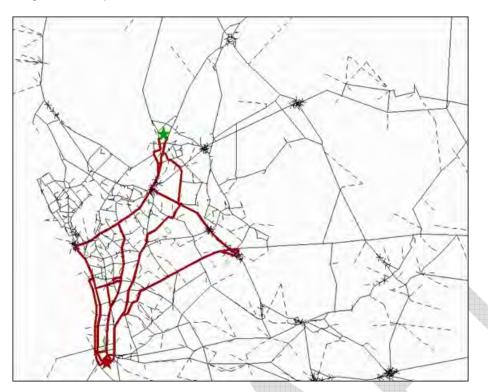
Maghull - Ormskirk



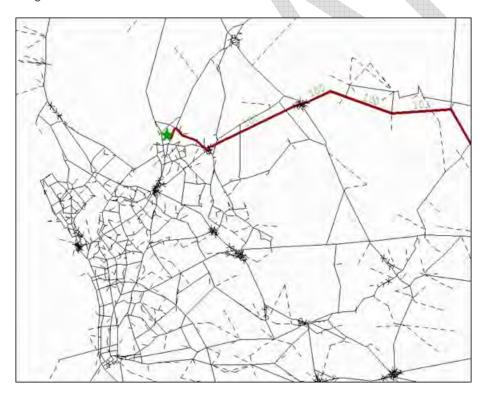




Maghull - Liverpool

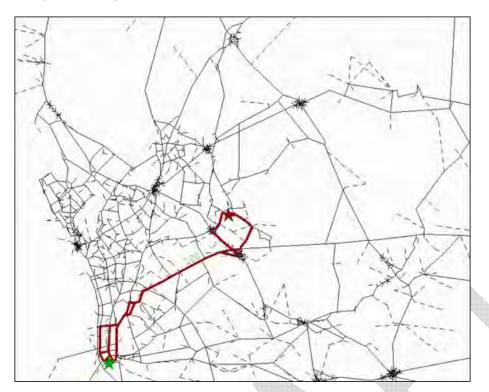


Maghull - Manchester

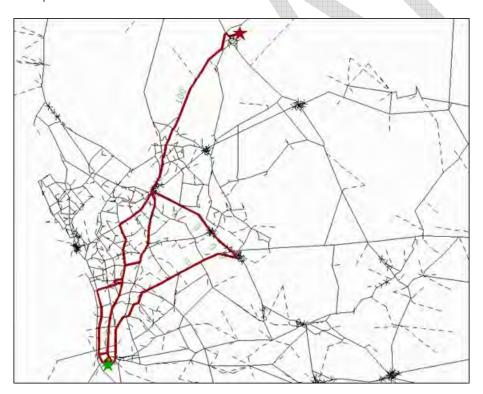




Liverpool – Kirkby

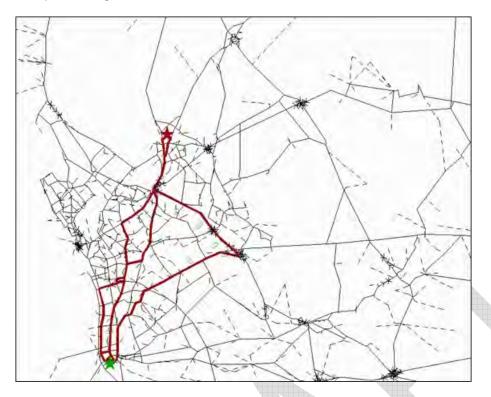


Liverpool – Ormskirk

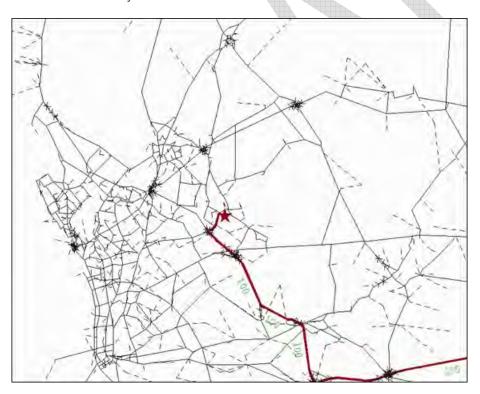




Liverpool - Maghull



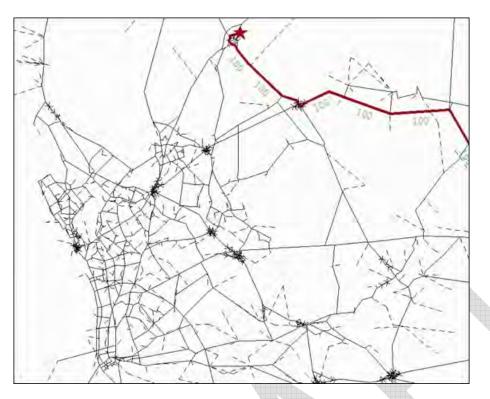
Manchester - Kirkby



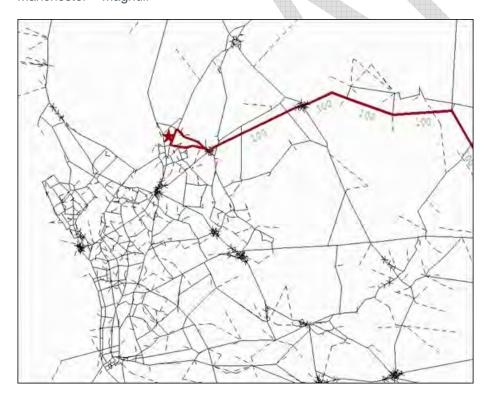




Manchester - Ormskirk



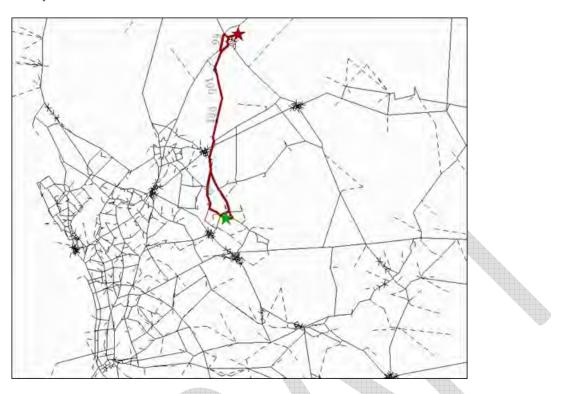
Manchester - Maghull



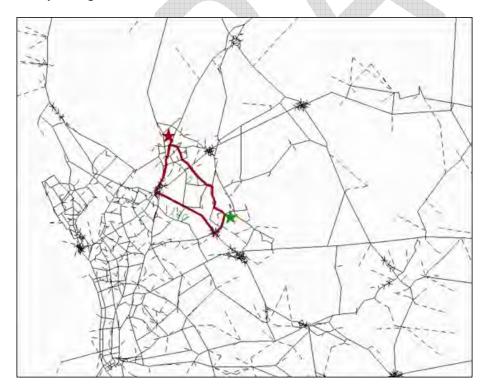


C.2. Inter-peak

Kirkby – Ormskirk



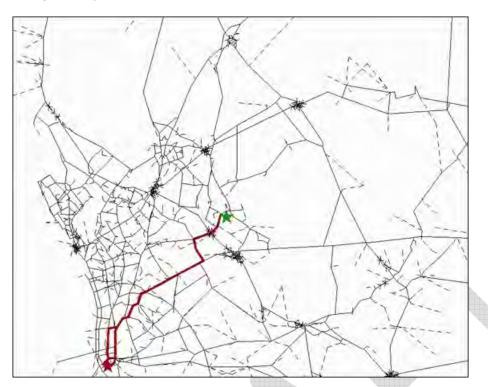
Kirkby – Maghull



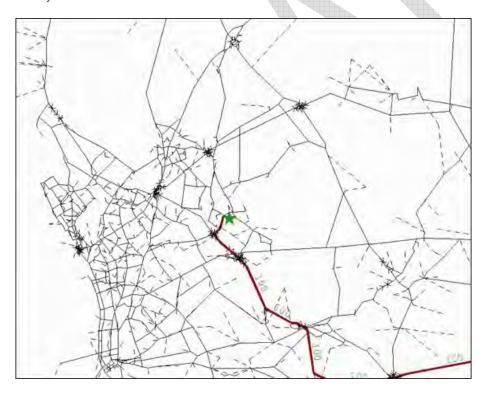




Kirkby - Liverpool



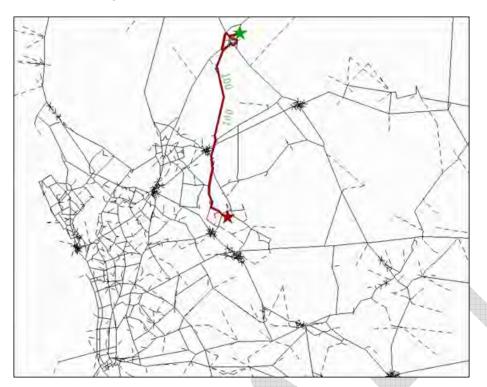
Kirkby - Manchester



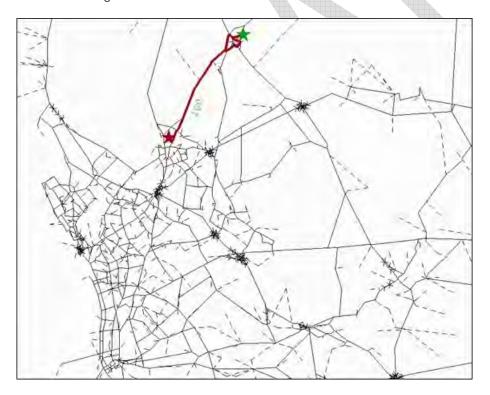




Ormskirk – Kirkby

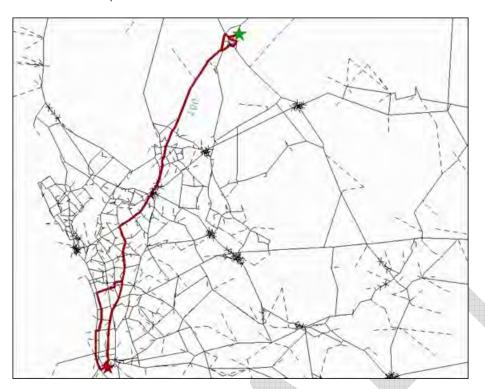


Ormskirk - Maghull

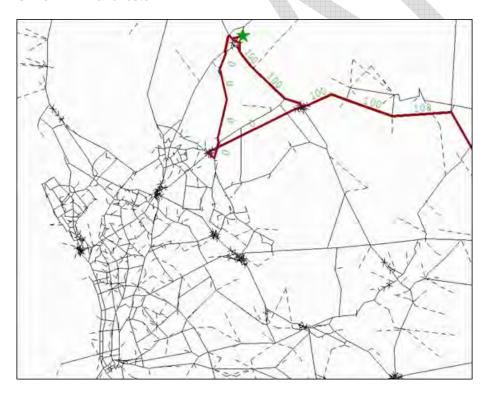




Ormskirk – Liverpool



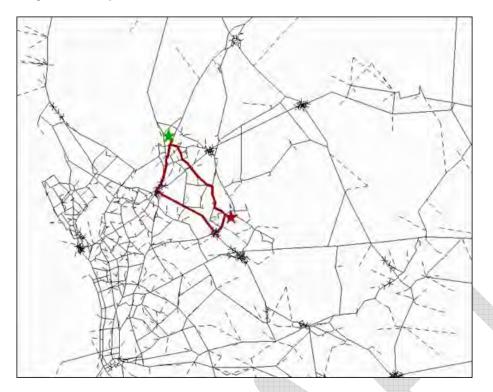
Ormskirk - Manchester



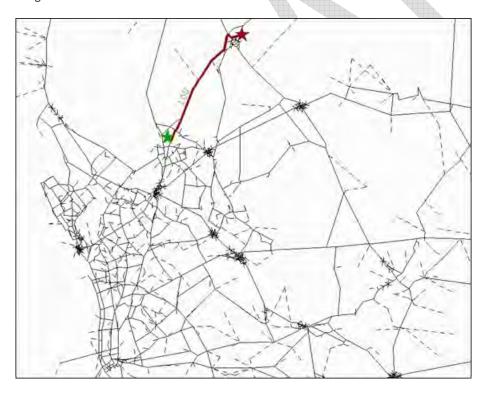




Maghull – Kirkby



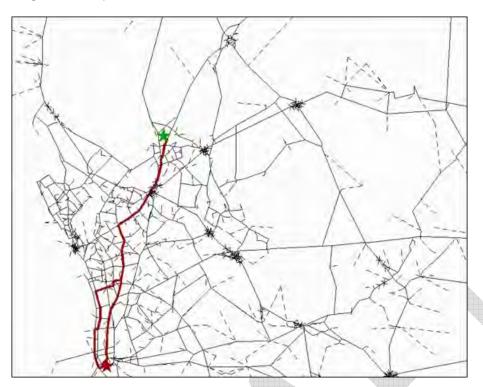
Maghull - Ormskirk



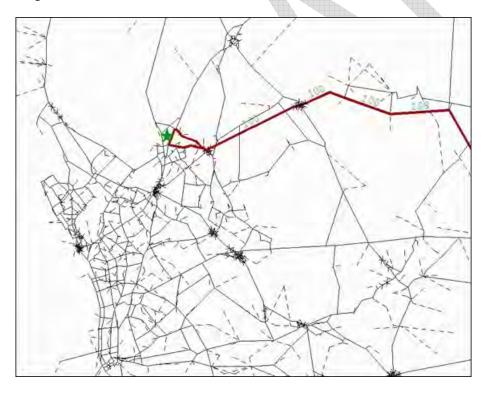




Maghull - Liverpool

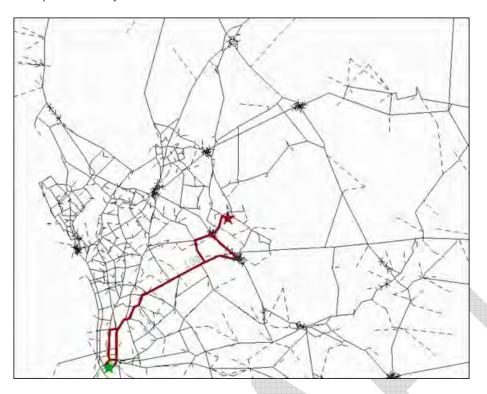


Maghull - Manchester

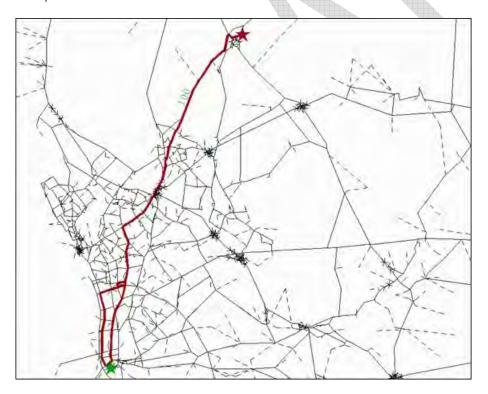




Liverpool – Kirkby



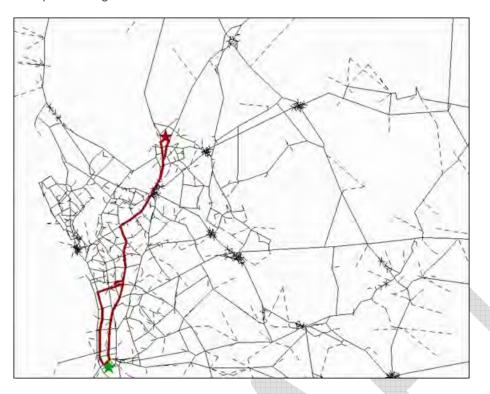
Liverpool - Ormskirk



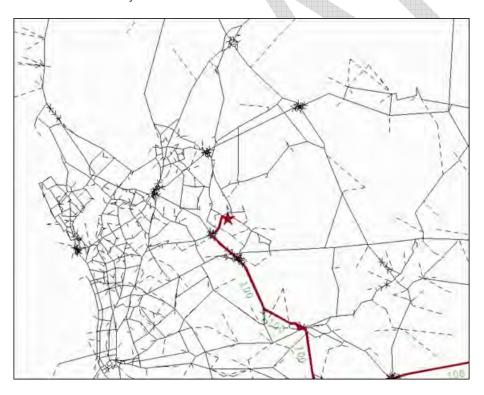




Liverpool - Maghull



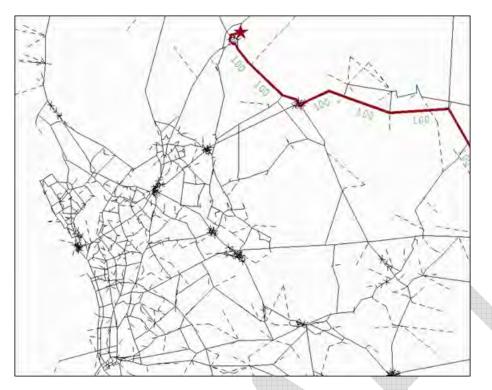
Manchester - Kirkby



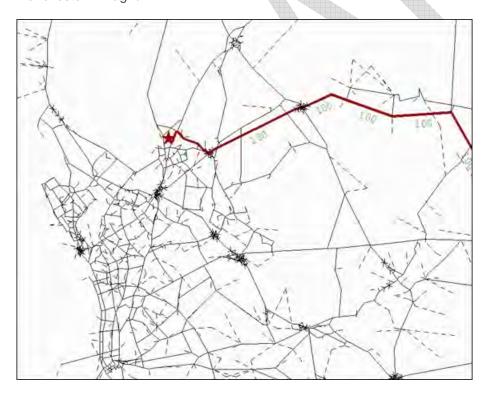




Manchester - Ormskirk



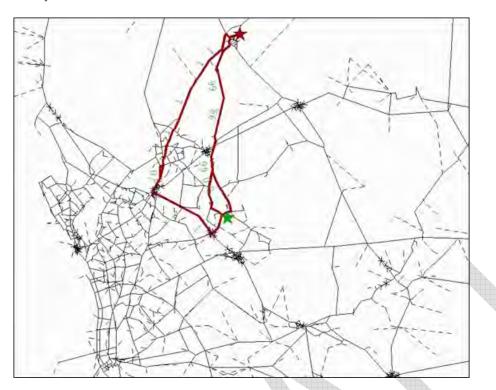
Manchester - Maghull



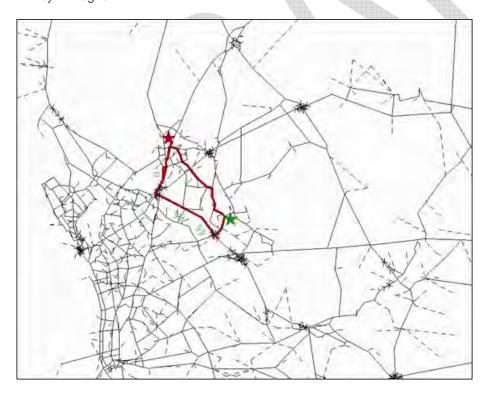


C.3. PM peak

Kirkby – Ormskirk

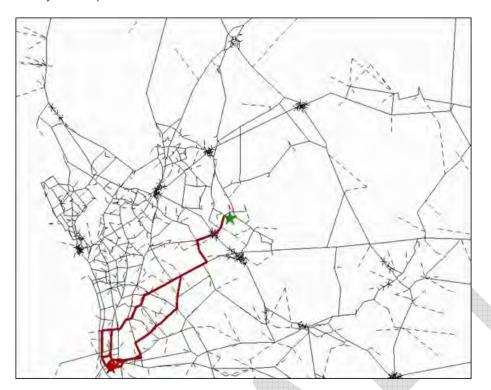


Kirkby – Maghull

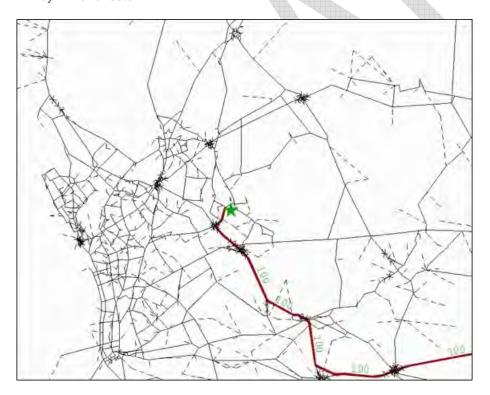




Kirkby – Liverpool

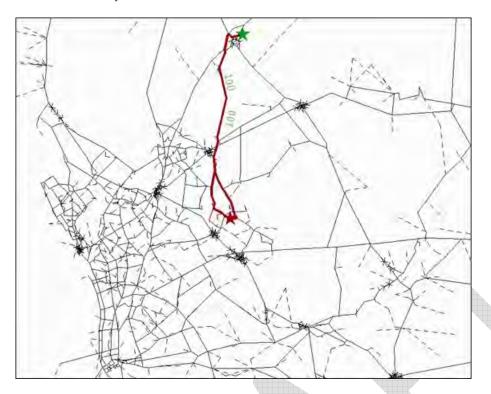


Kirkby – Manchester

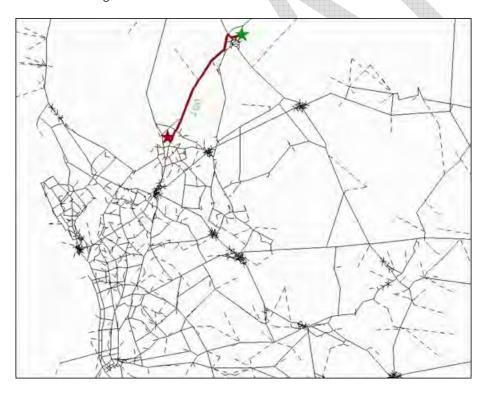




Ormskirk – Kirkby



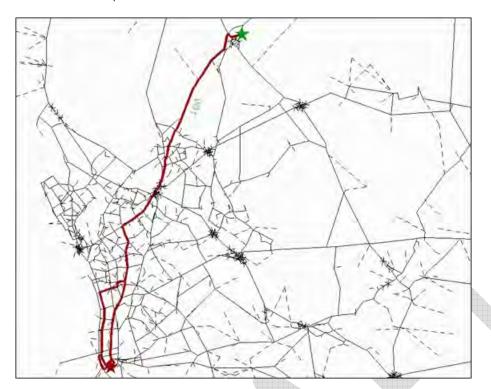
Ormskirk - Maghull



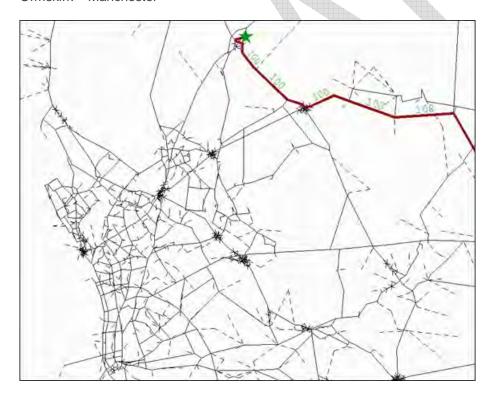




Ormskirk – Liverpool

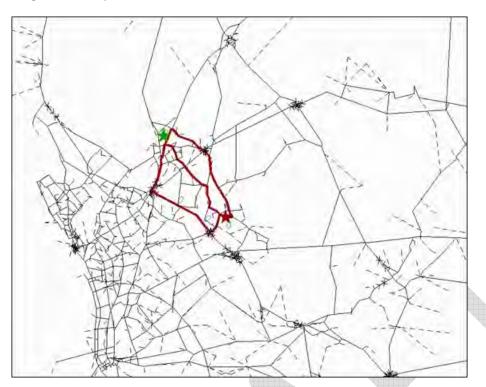


Ormskirk - Manchester

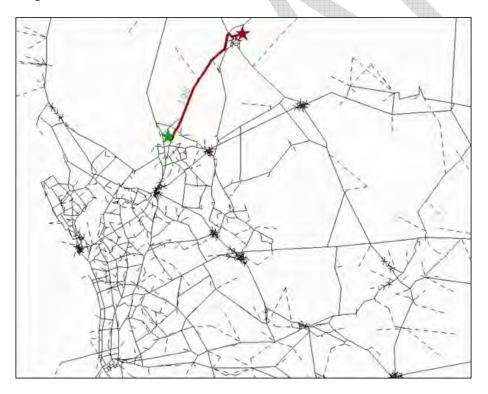




Maghull – Kirkby



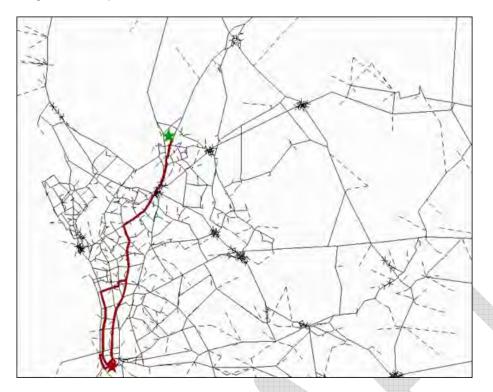
Maghull - Ormskirk



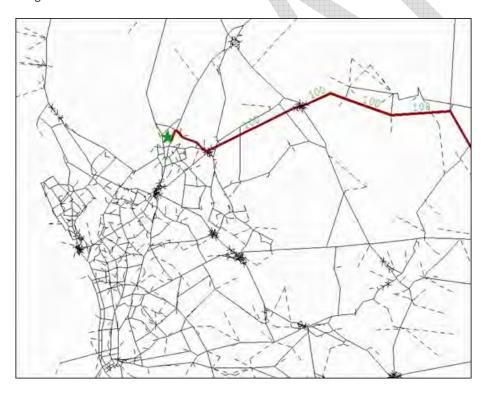




Maghull - Liverpool



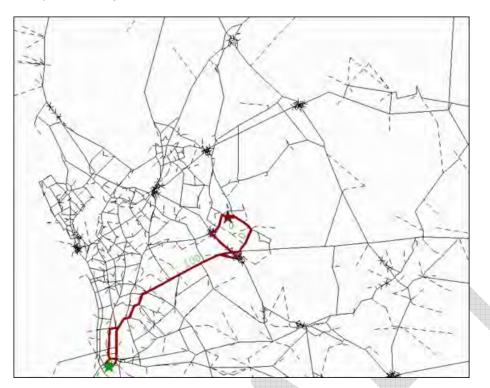
Maghull - Manchester



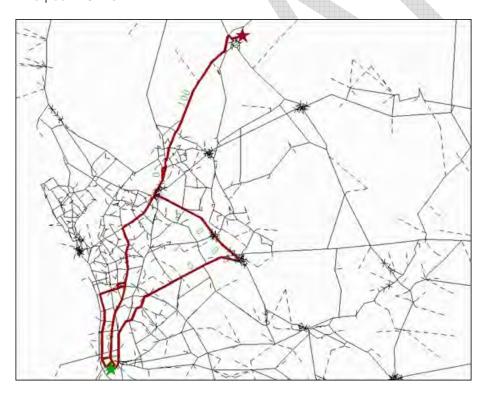




Liverpool – Kirkby

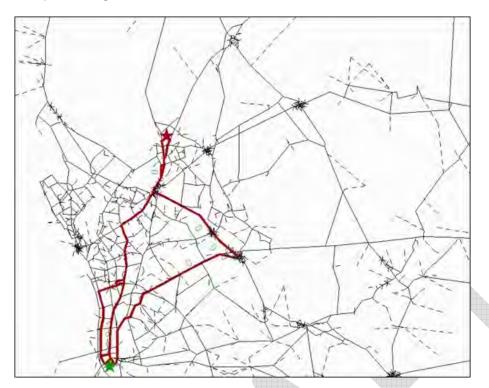


Liverpool - Ormskirk

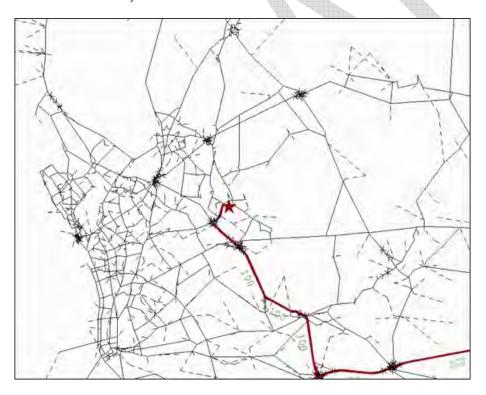




Liverpool - Maghull

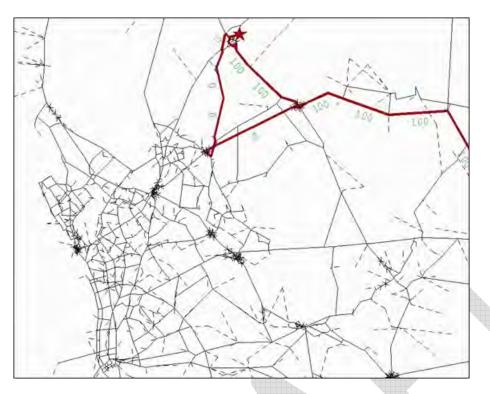


Manchester - Kirkby

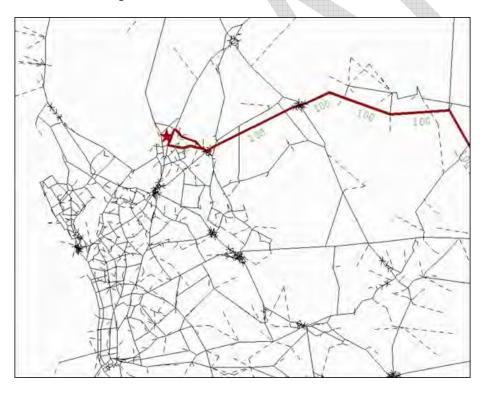




Manchester - Ormskirk



Manchester - Maghull



Appendix D. Link Flow Validation

Table D-1 Link flow validation - AM peak

| Location | Dir |
|----------------------|-----------------|
| M58 J3-4 | EB |
| M57 J6-7 | NB |
| M62 J8-7 | EB |
| Dunnings Bridge Road | NB |
| Maghull Lane | NB |
| M58 1-A5036 | EB |
| Southport Road | NB |
| A570 Southport Road | NB |
| BROWNS LANE | EB |
| M58 J3-4 | WB |
| M57 J6-7 | SB |
| M62 J8-7 | WB |
| Dunnings Bridge Road | SB |
| Maghull Lane | SB |
| M58 1-A5036 | WB |
| Southport Road | SB |
| A570 Southport Road | SB |
| BROWNS LANE | WB |
| Individual Links | Both Directions |

| Count (Car) | Count (LV) | Count (HV) | Count (Total) |
|-------------|------------|------------|---------------|
| 1879 | 255 | 82 | 2216 |
| 1530 | 208 | 66 | 1804 |
| 2827 | 384 | 123 | 3333 |
| 1881 | 255 | 82 | 2218 |
| 350 | 48 | 15 | 413 |
| 862 | 117 | 37 | 1016 |
| 779 | 144 | 26 | 949 |
| 305 | 42 | 19 | 366 |
| 105 | 14 | 5 | 123 |
| 1884 | 256 | 82 | 2221 |
| 2166 | 294 | 94 | 2554 |
| 3328 | 452 | 145 | 3925 |
| 1927 | 262 | 84 | 2273 |
| 344 | 47 | 15 | 406 |
| 1055 | 143 | 44 | 1242 |
| 1261 | 168 | 25 | 1454 |
| 333 | 46 | 21 | 400 |
| 136 | 18 | 6 | 160 |
| | | | |

| Post (Car) | Post (LV) | Post (HV) | Post (Total) | Diff | % Diff | GEH | T. | \G |
|------------|-----------|------------|--------------|------|---------|------|----------|----------|
| rost (car) | FUSE (LV) | FUSE (ITV) | rost (Total) | וווע | /0 DIII | GLII | Flow | GEH |
| 1889 | 210 | 75 | 2173 | -42 | -2% | 0.9 | ✓ | ✓ |
| 1599 | 172 | 38 | 1809 | 6 | 0% | 0.1 | ✓ | ✓ |
| 2922 | 392 | 128 | 3442 | 109 | 3% | 1.9 | ✓ | ✓ |
| 2232 | 258 | 111 | 2600 | 382 | 17% | 7.8 | × | × |
| 391 | 36 | 1 | 428 | 15 | 4% | 0.7 | ✓ | ✓ |
| 734 | 58 | 58 | 850 | -166 | -16% | 5.4 | × | × |
| 982 | 132 | 10 | 1124 | 174 | 18% | 5.4 | × | × |
| 446 | 60 | 31 | 537 | 171 | 47% | 8.1 | × | × |
| 76 | 18 | 0 | 95 | -29 | -23% | 2.8 | ✓ | ✓ |
| 1932 | 268 | 100 | 2301 | 79 | 4% | 1.7 | ✓ | ✓ |
| 2256 | 267 | 27 | 2549 | -5 | 0% | 0.1 | ✓ | ✓ |
| 3385 | 454 | 145 | 3984 | 59 | 1% | 0.9 | ✓ | ✓ |
| 2043 | 279 | 111 | 2433 | 161 | 7% | 3.3 | ✓ | ✓ |
| 399 | 30 | 11 | 440 | 34 | 8% | 1.7 | ✓ | ✓ |
| 848 | 148 | 50 | 1046 | -196 | -16% | 5.8 | × | × |
| 1349 | 172 | 32 | 1553 | 99 | 7% | 2.6 | ✓ | ✓ |
| 340 | 70 | 9 | 420 | 19 | 5% | 1.0 | ✓ | ✓ |
| 163 | 23 | 1 | 188 | 28 | 17% | 2.1 | √ | √ |
| | | | | | | | 72% | 72% |





Table D-2 Link flow validation – Inter-peak

| Location | Dir |
|----------------------|-----------------|
| M58 J3-4 | EB |
| M57 J6-7 | NB |
| M62 J8-7 | EB |
| Dunnings Bridge Road | NB |
| Maghull Lane | NB |
| M58 1-A5036 | EB |
| Southport Road | NB |
| A570 Southport Road | NB |
| BROWNS LANE | EB |
| M58 J3-4 | WB |
| M57 J6-7 | SB |
| M62 J8-7 | WB |
| Dunnings Bridge Road | SB |
| Maghull Lane | SB |
| M58 1-A5036 | WB |
| Southport Road | SB |
| A570 Southport Road | SB |
| BROWNS LANE | WB |
| Individual Links | Both Directions |

| Count (Car) | Count (LV) | Count (HV) | Count (Total) |
|-------------|------------|------------|---------------|
| 1023 | 176 | 71 | 1271 |
| 1220 | 210 | 84 | 1515 |
| 2368 | 408 | 164 | 2940 |
| 1216 | 210 | 84 | 1510 |
| 250 | 43 | 17 | 310 |
| 521 | 90 | 36 | 647 |
| 669 | 115 | 33 | 817 |
| 297 | 54 | 28 | 379 |
| 105 | 14 | 5 | 123 |
| 1028 | 177 | 71 | 1276 |
| 1196 | 206 | 83 | 1486 |
| 2318 | 400 | 161 | 2879 |
| 1247 | 215 | 86 | 1549 |
| 248 | 43 | 17 | 308 |
| 541 | 93 | 37 | 672 |
| 604 | 121 | 27 | 752 |
| 303 | 55 | 28 | 387 |
| 136 | 18 | 6 | 160 |
| | | | * |

| Post (Car) | Post (LV) | Post (HV) | Post (Total) | Diff | % Diff | GEH | TA | \G |
|------------|-----------|------------|--------------|------|---------|------|------|-----|
| rost (car) | FUSE (LV) | rust (IIV) | rost (Total) | DIII | /0 DIII | GLII | Flow | GEH |
| 985 | 182 | 86 | 1253 | -18 | -1% | 0.5 | ✓ | ✓ |
| 1488 | 201 | 43 | 1733 | 218 | 14% | 5.4 | ✓ | × |
| 2388 | 411 | 166 | 2965 | 24 | 1% | 0.4 | ✓ | ✓ |
| 1352 | 228 | 168 | 1748 | 238 | 16% | 5.9 | × | × |
| 322 | 29 | 9 | 361 | 51 | 16% | 2.8 | ✓ | ✓ |
| 402 | 83 | 42 | 527 | -121 | -19% | 5.0 | × | ✓ |
| 880 | 157 | 52 | 1089 | 272 | 33% | 8.8 | × | × |
| 348 | 70 | 29 | 447 | 68 | 18% | 3.4 | ✓ | ✓ |
| 117 | 18 | 12 | 146 | 23 | 19% | 2.0 | ✓ | ✓ |
| 1147 | 202 | 98 | 1447 | 171 | 13% | 4.6 | ✓ | ✓ |
| 1208 | 206 | 38 | 1452 | -33 | -2% | 0.9 | ✓ | ✓ |
| 2301 | 388 | 161 | 2849 | -29 | -1% | 0.5 | ✓ | ✓ |
| 1371 | 219 | 123 | 1713 | 164 | 11% | 4.1 | ✓ | ✓ |
| 277 | 36 | 16 | 329 | 21 | 7% | 1.2 | ✓ | ✓ |
| 434 | 79 | 39 | 552 | -120 | -18% | 4.9 | × | ✓ |
| 873 | 129 | 46 | 1048 | 296 | 39% | 9.9 | × | × |
| 339 | 71 | 32 | 443 | 56 | 15% | 2.8 | ✓ | ✓ |
| 107 | 13 | 8 | 128 | -33 | -20% | 2.7 | ✓ | ✓ |
| | • | • | • | • | • | • | 72% | 78% |





Table D-3 Link flow validation - PM peak

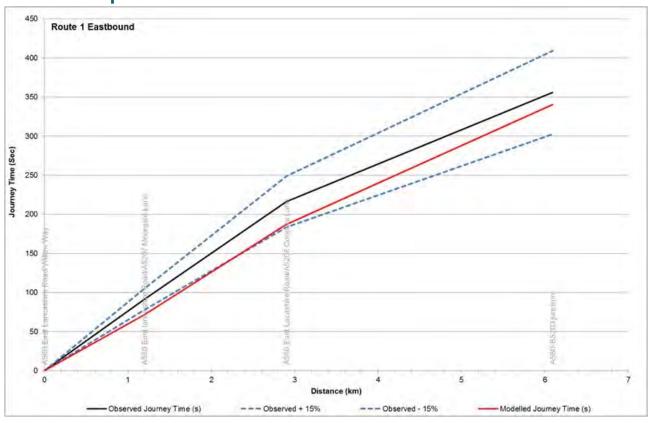
| Location | Dir |
|----------------------|-----------------|
| M58 J3-4 | EB |
| M57 J6-7 | NB |
| M62 J8-7 | EB |
| Dunnings Bridge Road | NB |
| Maghull Lane | NB |
| M58 1-A5036 | EB |
| Southport Road | NB |
| A570 Southport Road | NB |
| BROWNS LANE | EB |
| M58 J3-4 | WB |
| M57 J6-7 | SB |
| M62 J8-7 | WB |
| Dunnings Bridge Road | SB |
| Maghull Lane | SB |
| M58 1-A5036 | WB |
| Southport Road | SB |
| A570 Southport Road | SB |
| BROWNS LANE | WB |
| Individual Links | Both Directions |

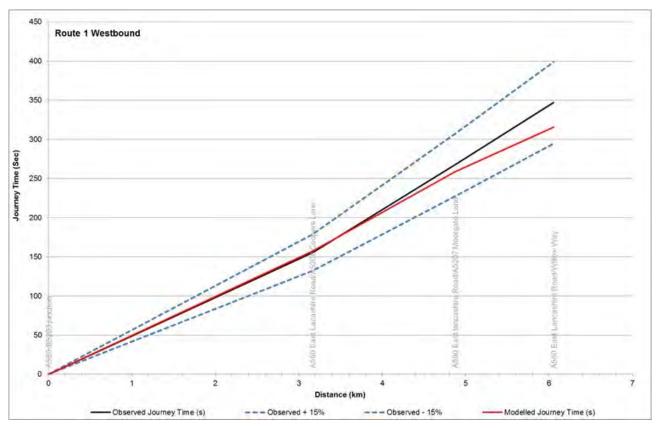
| Count (Car) | Count (LV) Count (HV) | | Count (Total) |
|-------------|-----------------------|----|---------------|
| 1712 | 162 | 28 | 1902 |
| 2410 | 228 | 39 | 2676 |
| 3698 | 349 | 60 | 4107 |
| 1886 | 178 | 30 | 2095 |
| 417 | 39 | 7 | 463 |
| 952 | 90 | 15 | 1057 |
| 1646 | 154 | 19 | 1819 |
| 340 | 34 | 10 | 383 |
| 97 | 9 | 2 | 108 |
| 2303 | 218 | 37 | 2558 |
| 1693 | 160 | 27 | 1880 |
| 4088 | 386 | 66 | 4540 |
| 2161 | 204 | 35 | 2400 |
| 420 | 40 | 7 | 467 |
| 886 | 84 | 14 | 983 |
| 828 | 93 | 4 | 925 |
| 343 | 34 | 10 | 387 |
| 107 | 10 | 2 | 119 |
| | | | |

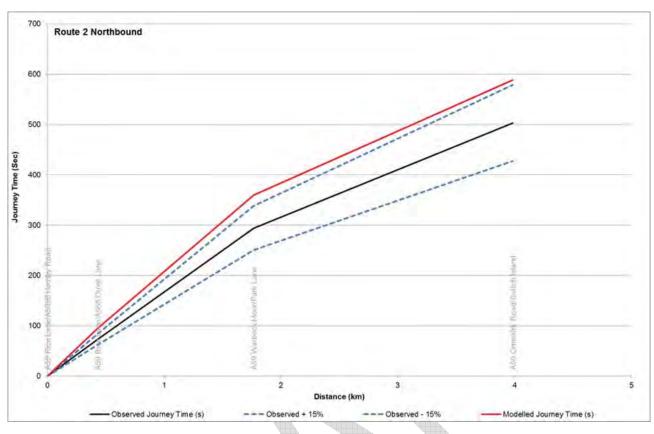
| Post (Car) | Post (LV) | Post (HV) | Post (Total) | Diff | % Diff | GEH | TAG | |
|------------|-----------|------------|--------------|------|---------|------|------|-----|
| rost (car) | FUSE (LV) | rust (IIV) | rost (Total) | וווע | /0 DIII | GLII | Flow | GEH |
| 1695 | 173 | 27 | 1895 | -7 | 0% | 0.1 | ✓ | ✓ |
| 2651 | 208 | 34 | 2893 | 217 | 8% | 4.1 | ✓ | ✓ |
| 3628 | 341 | 53 | 4023 | -84 | -2% | 1.3 | ✓ | ✓ |
| 2042 | 148 | 58 | 2248 | 153 | 7% | 3.3 | ✓ | ✓ |
| 363 | 40 | 1 | 405 | -58 | -13% | 2.8 | ✓ | ✓ |
| 891 | 69 | 19 | 980 | -77 | -7% | 2.4 | ✓ | ✓ |
| 1432 | 156 | 10 | 1597 | -222 | -12% | 5.4 | ✓ | × |
| 387 | 46 | 6 | 439 | 56 | 15% | 2.8 | ✓ | ✓ |
| 157 | 4 | 0 | 161 | 53 | 49% | 4.6 | ✓ | ✓ |
| 2498 | 193 | 47 | 2737 | 180 | 7% | 3.5 | ✓ | ✓ |
| 1588 | 128 | 28 | 1745 | -135 | -7% | 3.2 | ✓ | ✓ |
| 4019 | 380 | 64 | 4462 | -78 | -2% | 1.2 | ✓ | ✓ |
| 2220 | 138 | 73 | 2431 | 32 | 1% | 0.6 | ✓ | ✓ |
| 355 | 27 | 1 | 383 | -84 | -18% | 4.1 | ✓ | ✓ |
| 854 | 60 | 23 | 938 | -45 | -5% | 1.5 | ✓ | ✓ |
| 1185 | 79 | 3 | 1267 | 342 | 37% | 10.3 | × | × |
| 390 | 41 | 8 | 440 | 53 | 14% | 2.6 | ✓ | ✓ |
| 132 | 5 | 1 | 138 | 19 | 16% | 1.7 | ✓ | ✓ |
| | • | • | | | • | • | 94% | 89% |

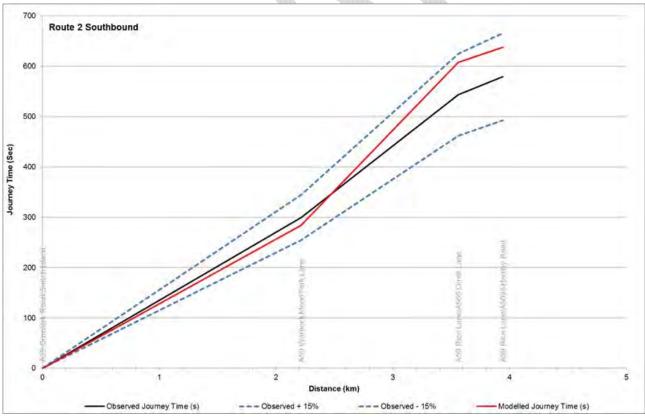
Appendix E. Journey time validation

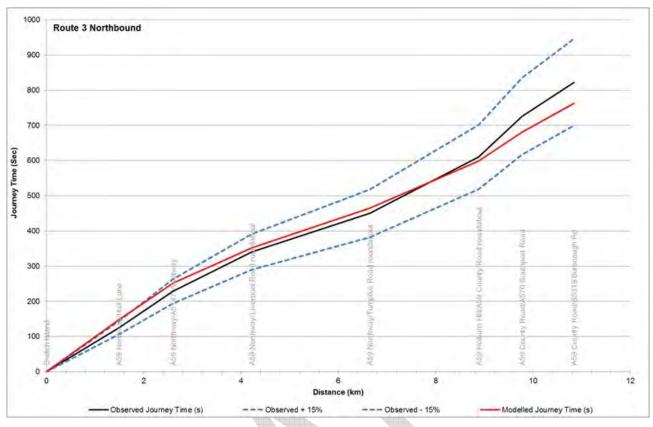
E.1. AM peak

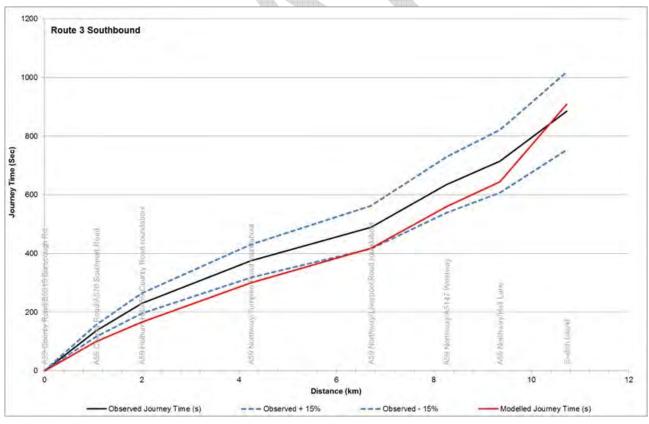


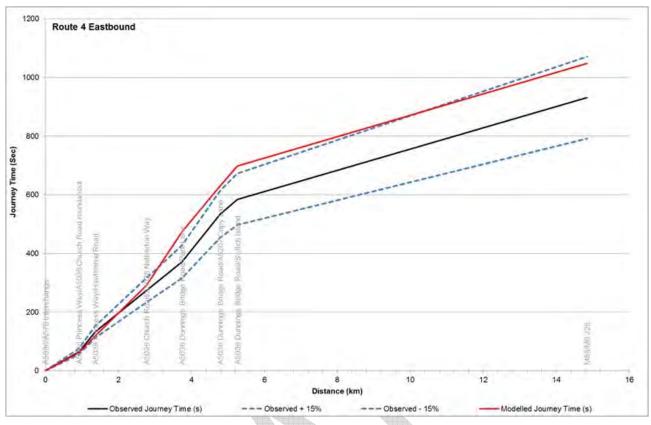


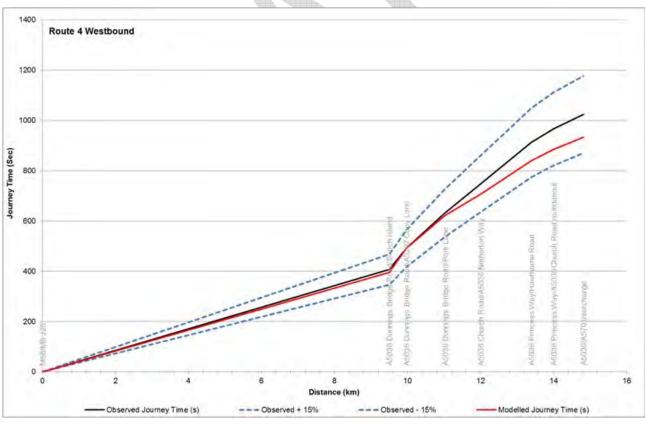


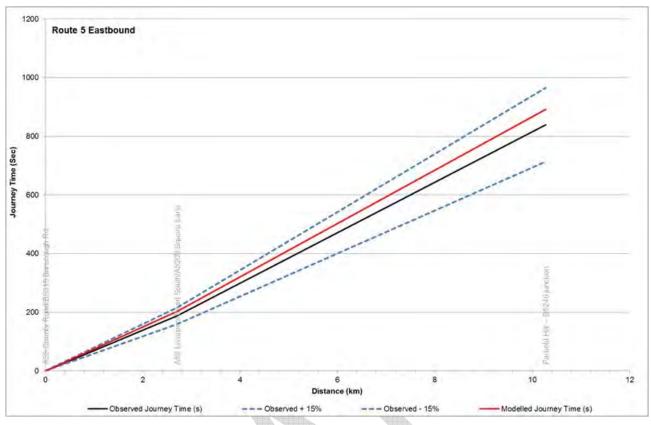


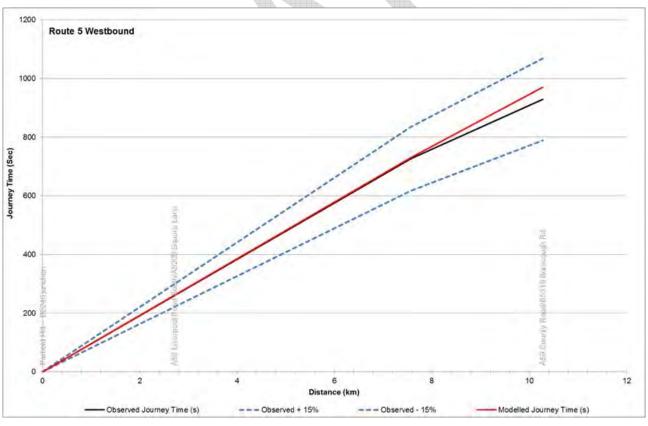


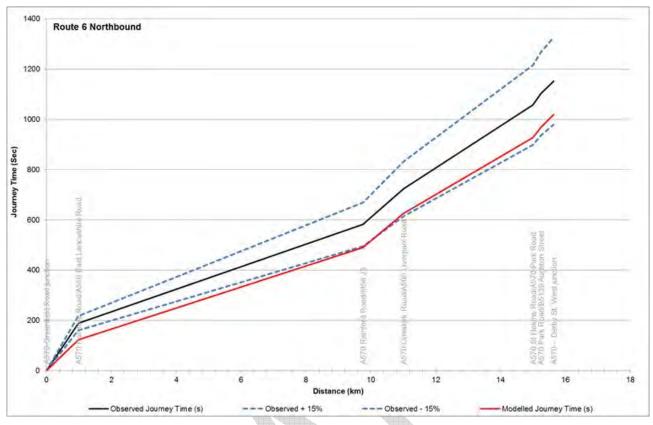


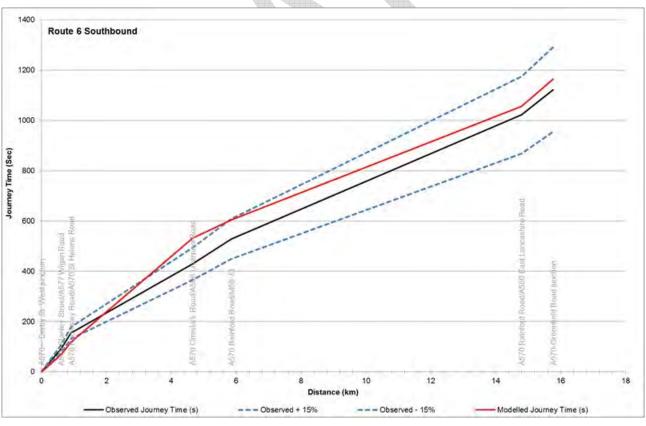


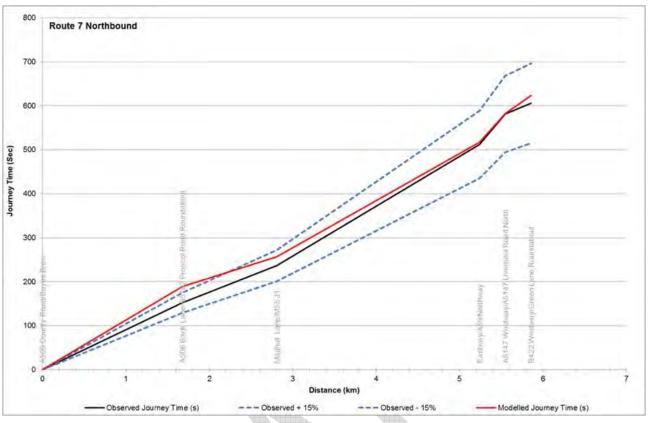


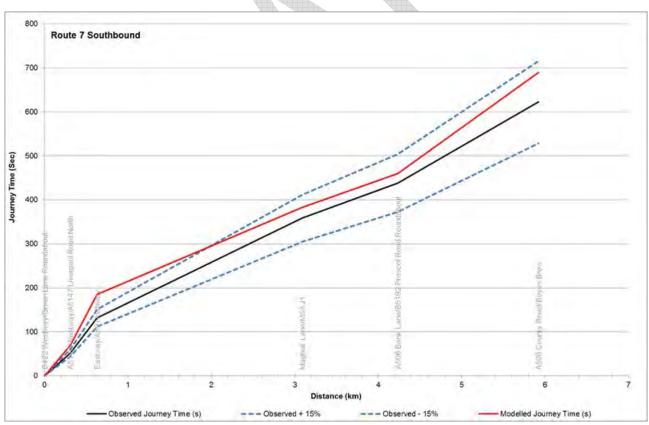




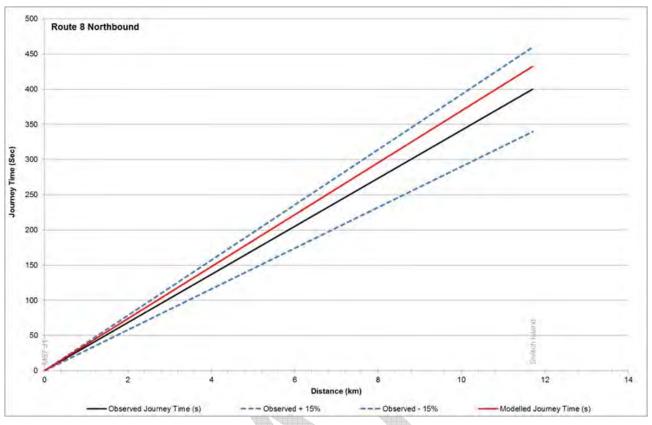


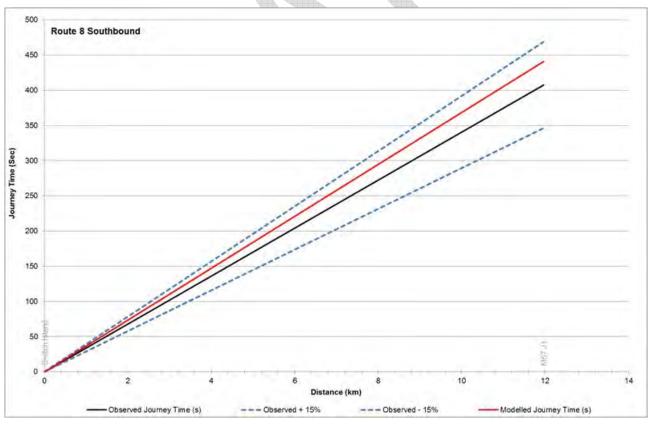




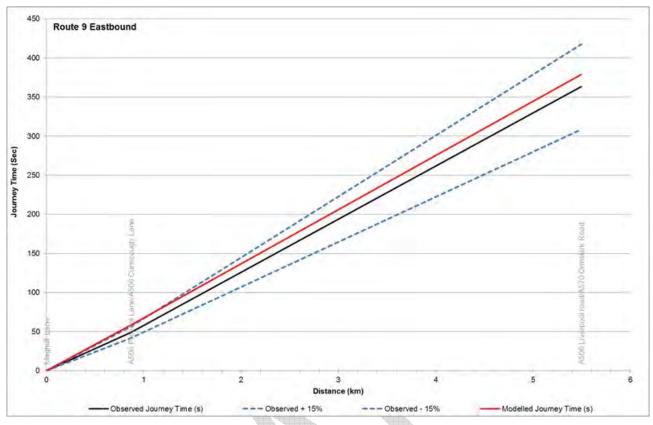


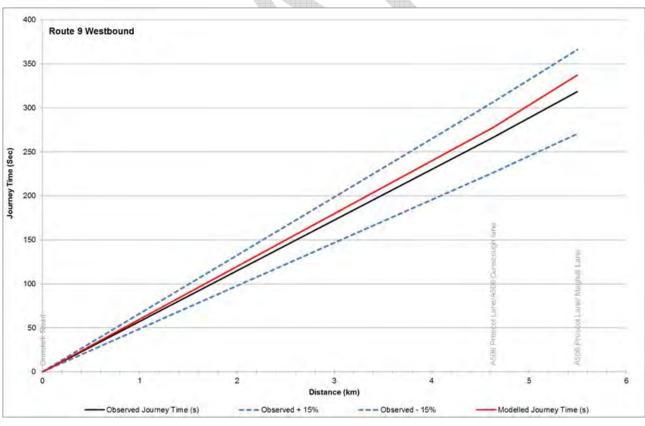








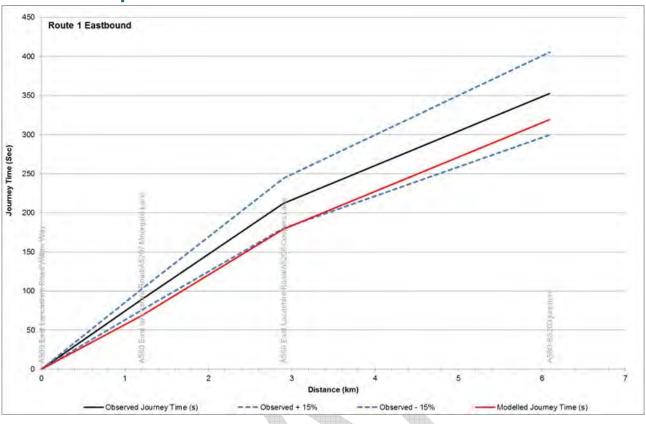


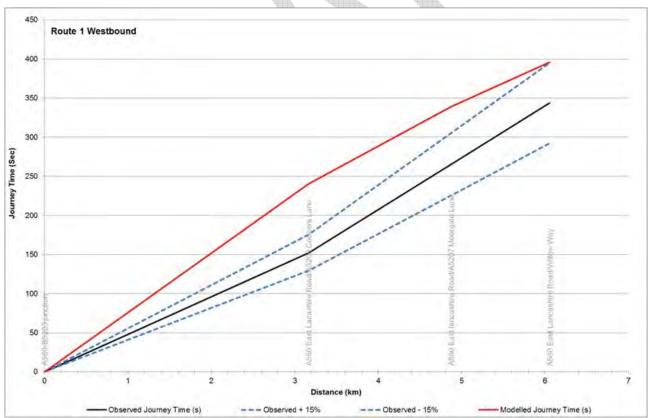




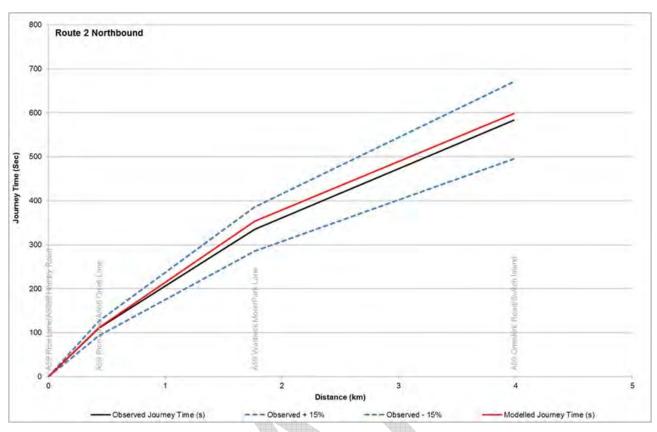


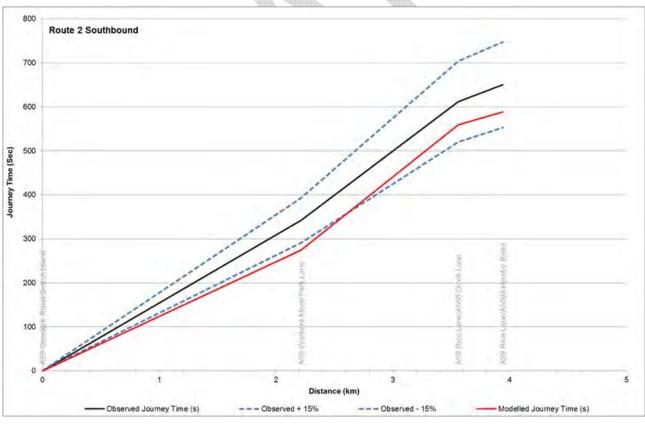
E.2. Inter-peak

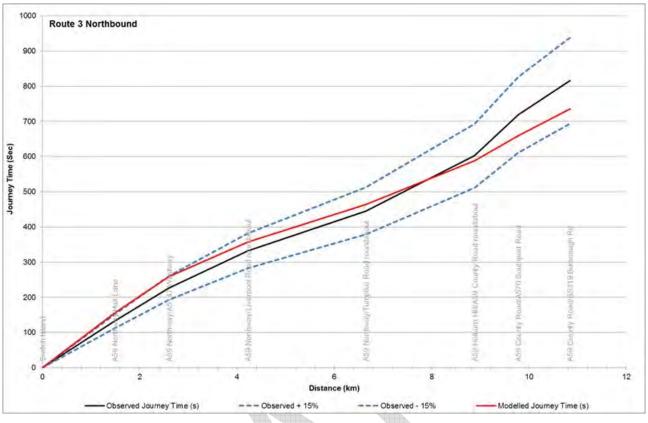


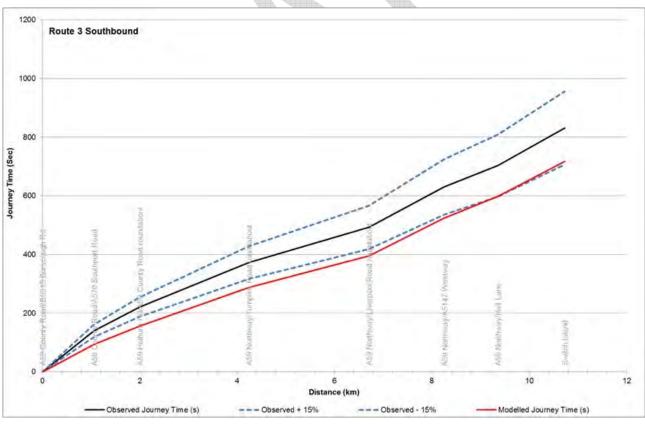




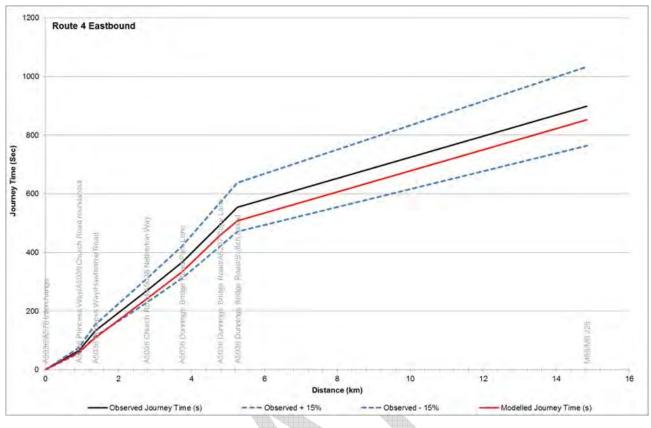


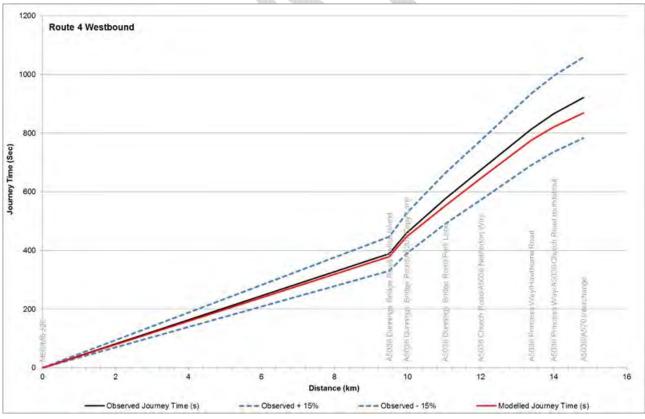




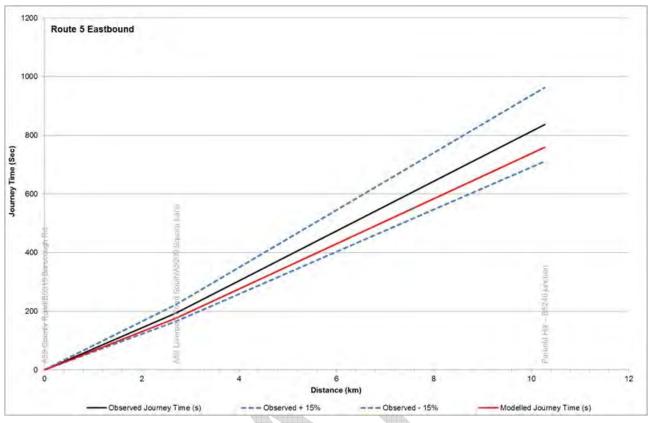


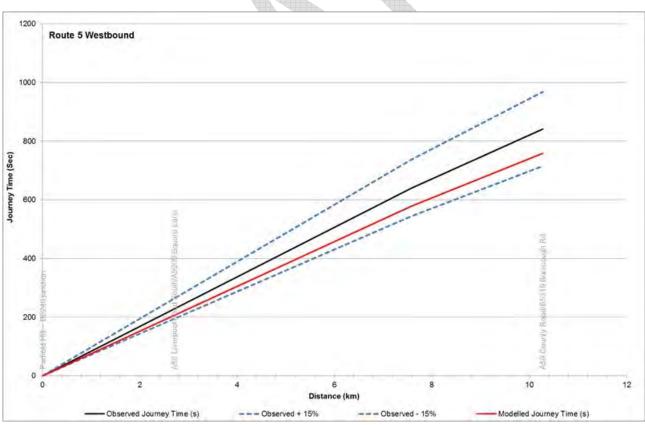


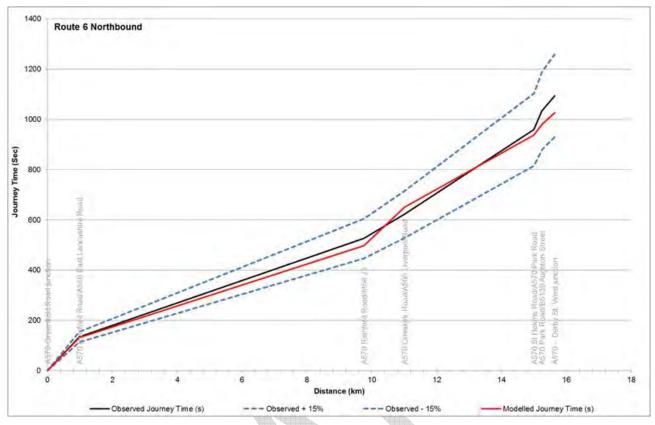


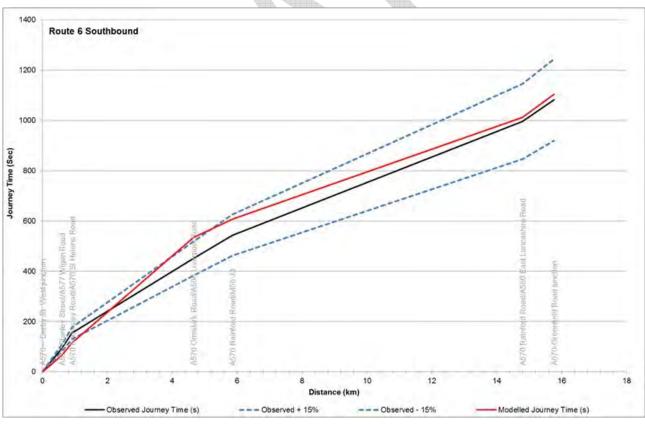




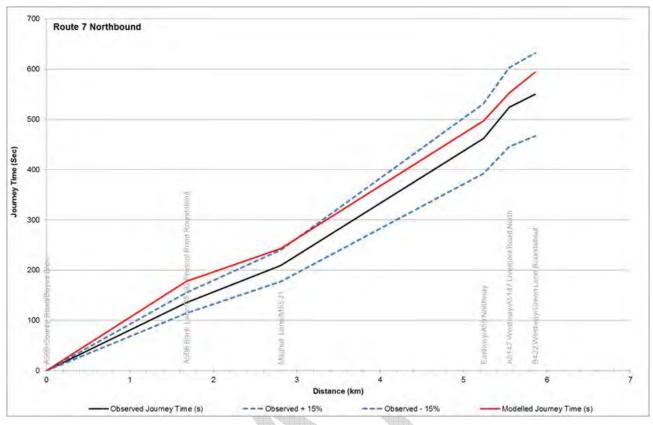


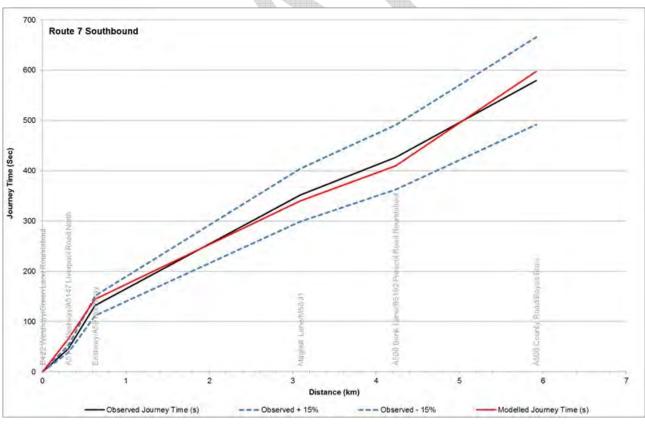




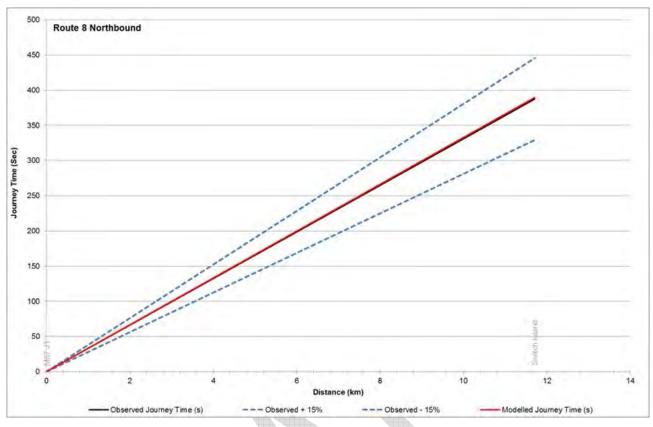


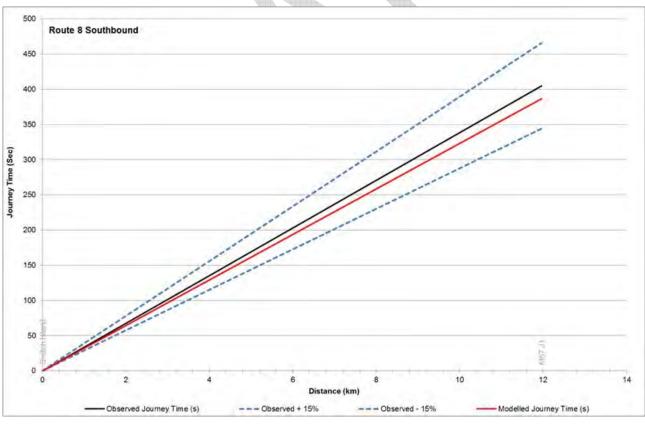




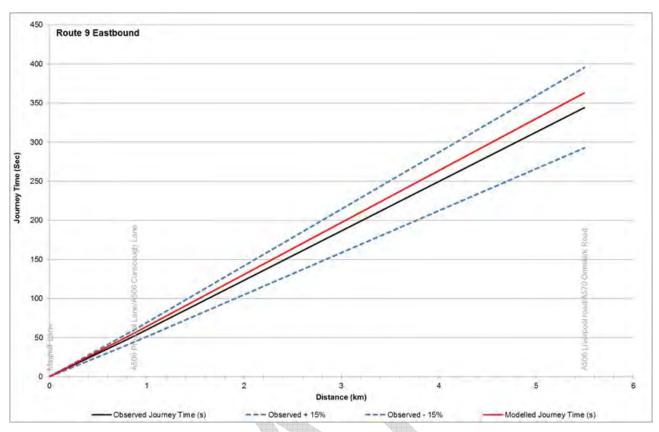


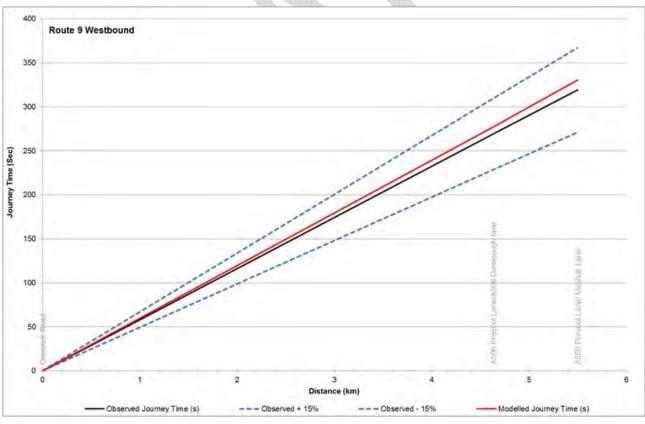








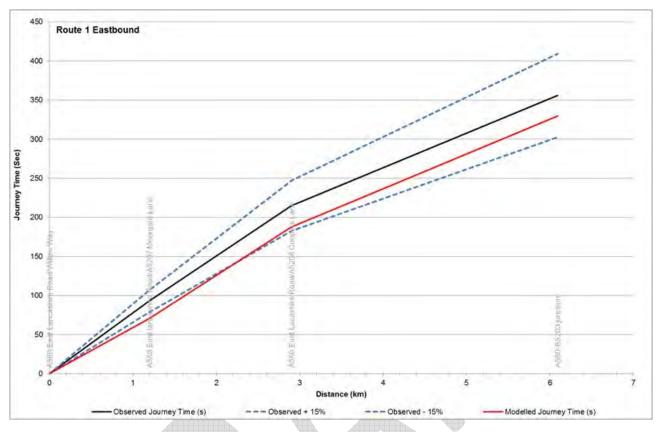


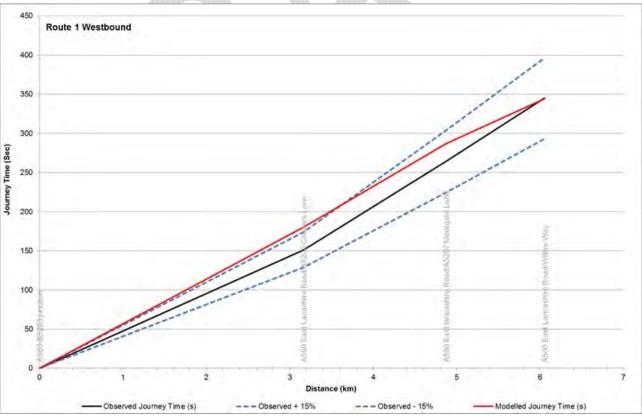


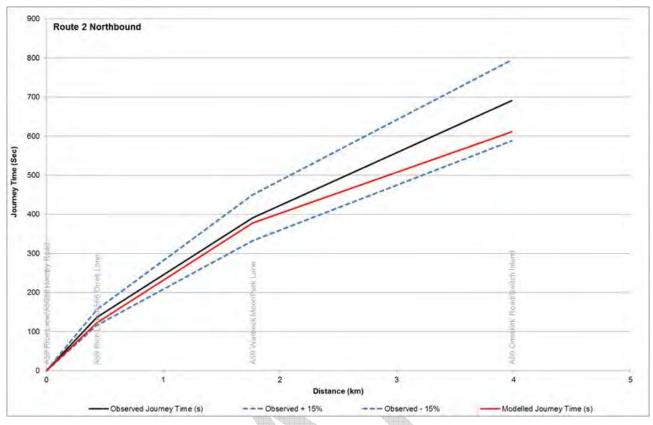


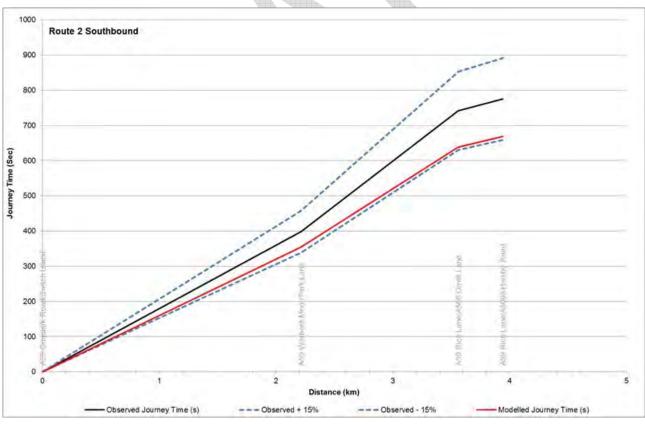


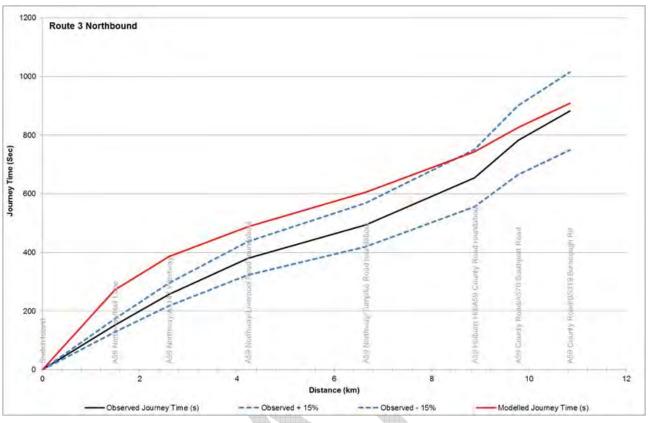
E.3. PM peak

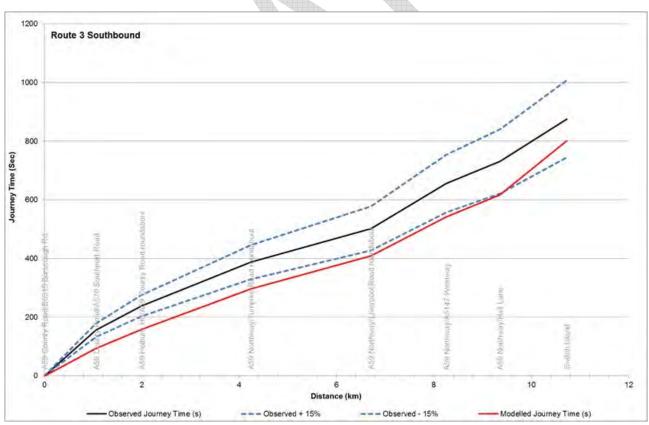


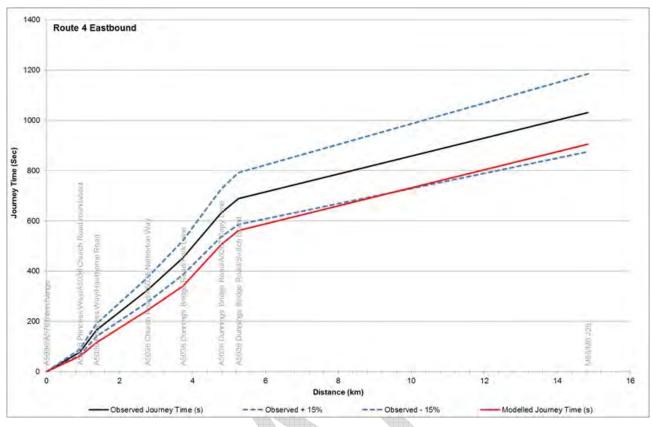


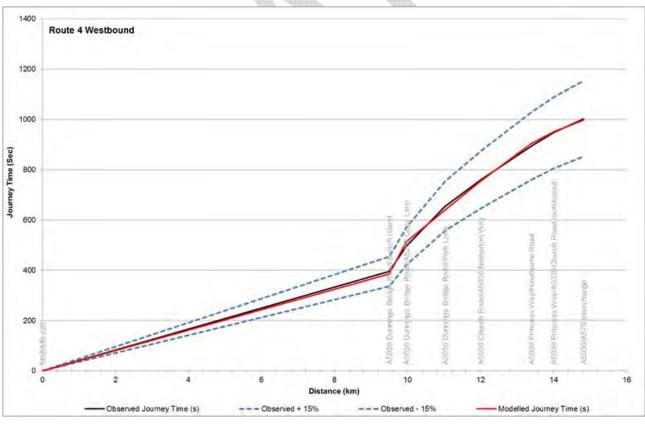


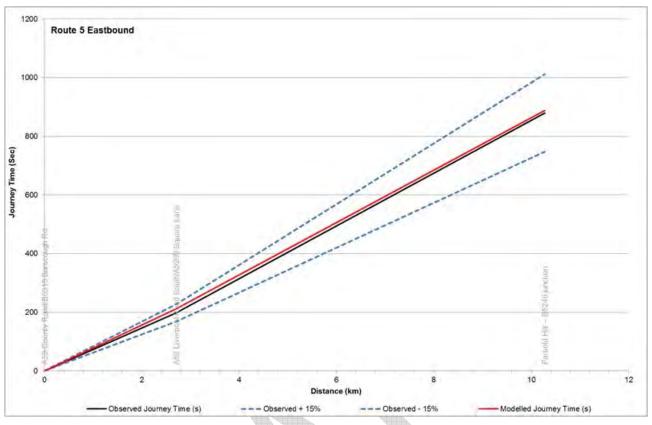


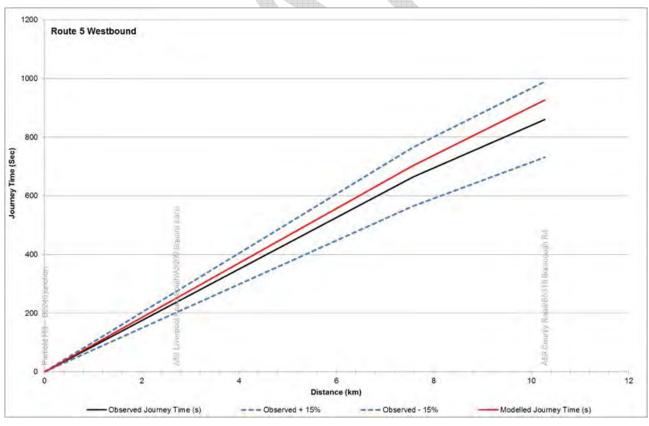




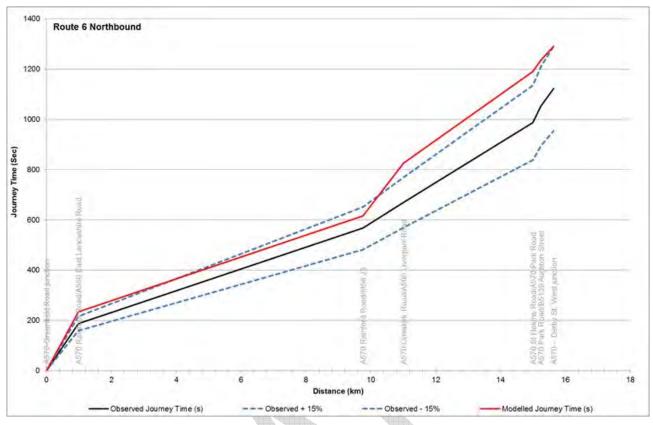


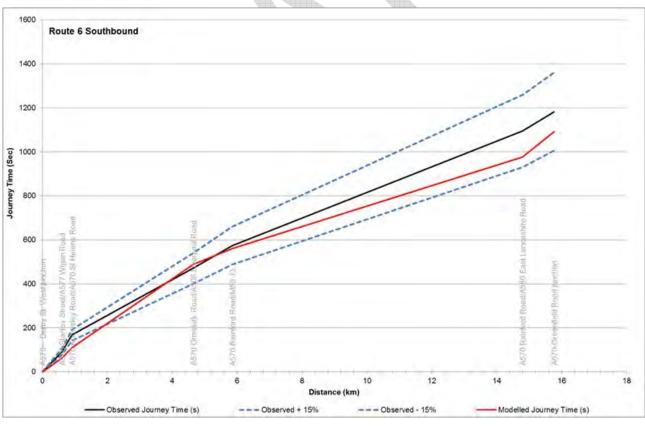




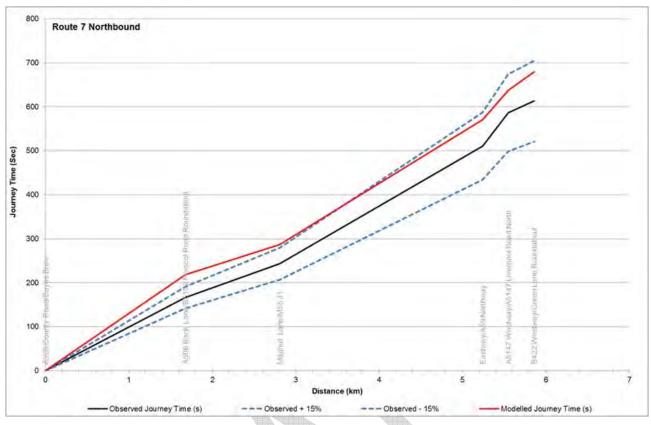


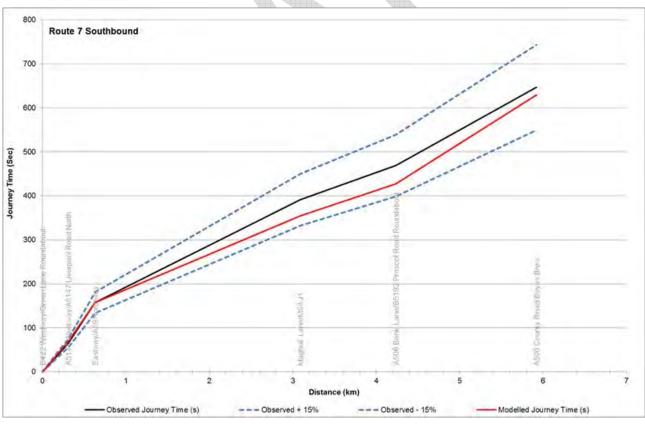




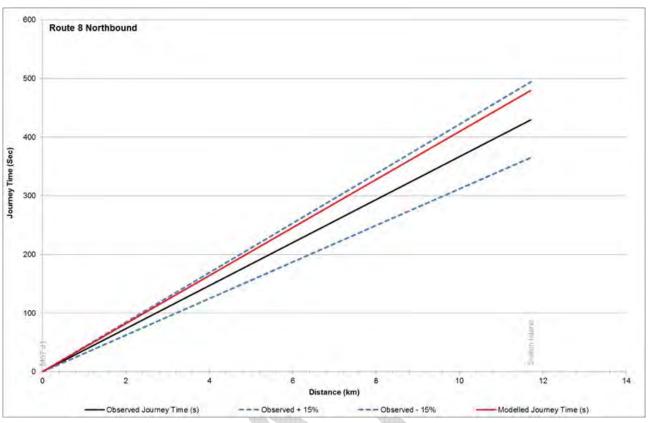


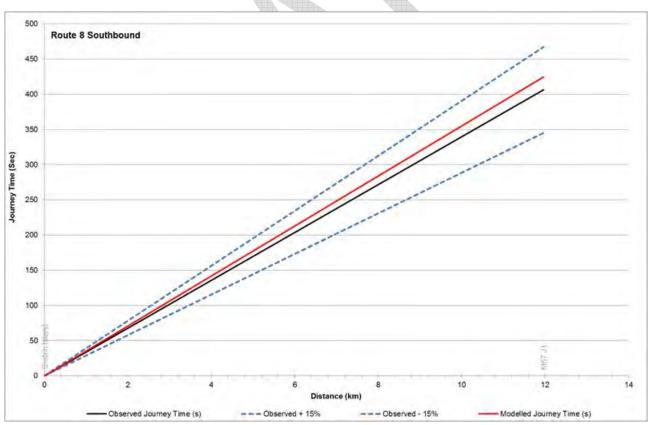




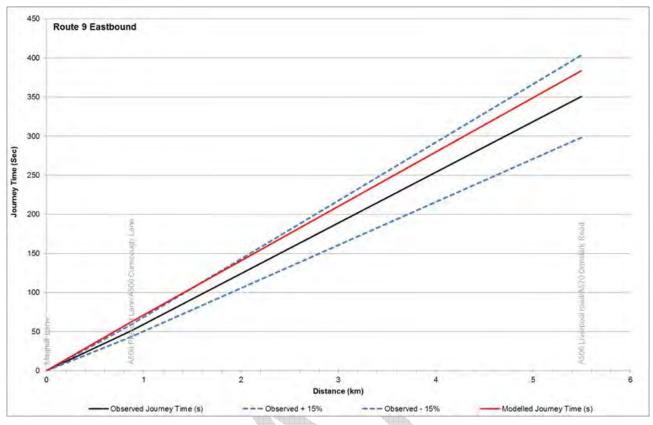


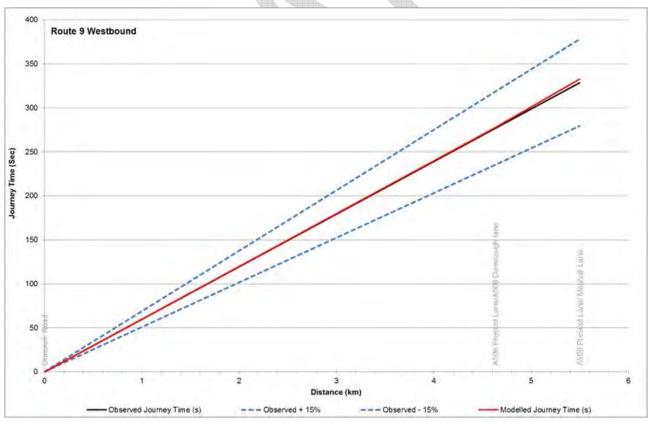












Robin Kimber

Atkins Bank Chambers, Faulkner Street Manchester M1 4EH

Email – robin.kimber@atkinsglobal.com Telephone - +44 161 245 3435 Fax - +44 161 245 3500

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