# **EREWASH LOCAL PLAN ASSESSMENT**

FIGURES DOCUMENT V6.1





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#### FIGURES DOCUMENT V6.1

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#### REVISED MITIGATION COMPARED TO MITIGATION PHASE 3 AND SCENARIO 1

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## **INTRODUCTION**

Figure 1. EMGM Model Extent

Figure 2. Erewash Local Plan Area of Influence



Figure 1. EMGM Area

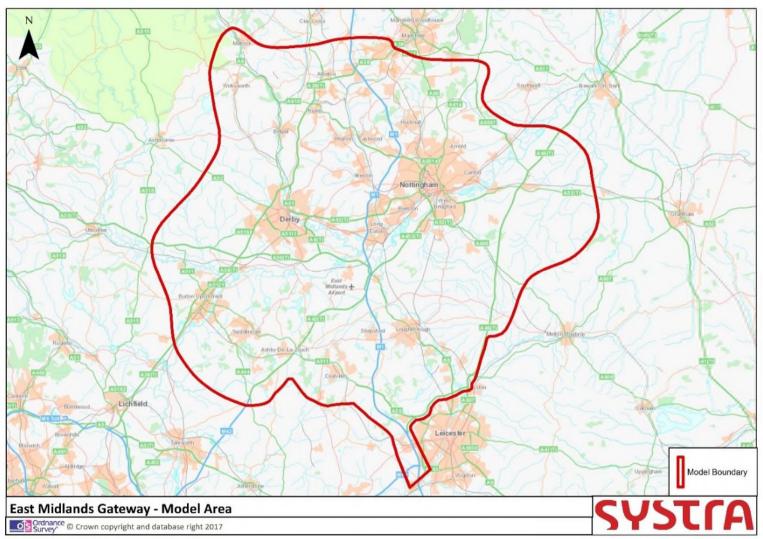
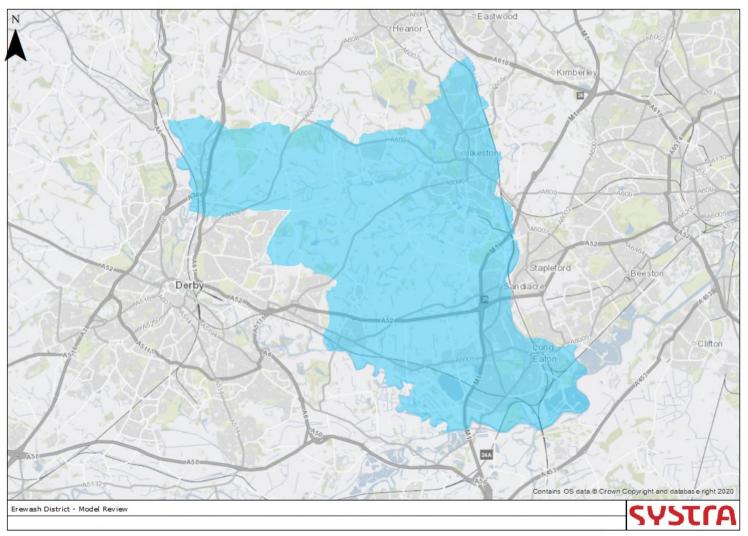




Figure 2. Erewash Borough Boundary





## **REFERENCE CASE DEVELOPMENT**

- Figure 3. 2037 Reference Total Congestion AM
- Figure 4. 2037 Reference Total Congestion PM



Figure 3.2037 Reference Case Total Congestion AM

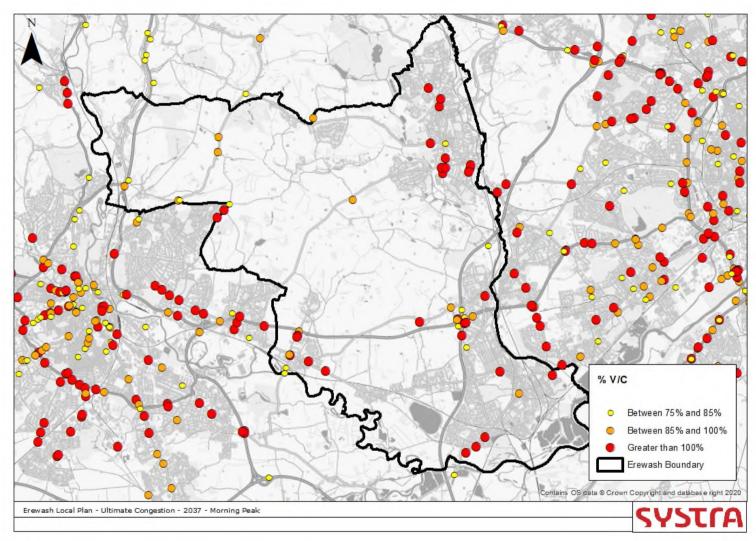
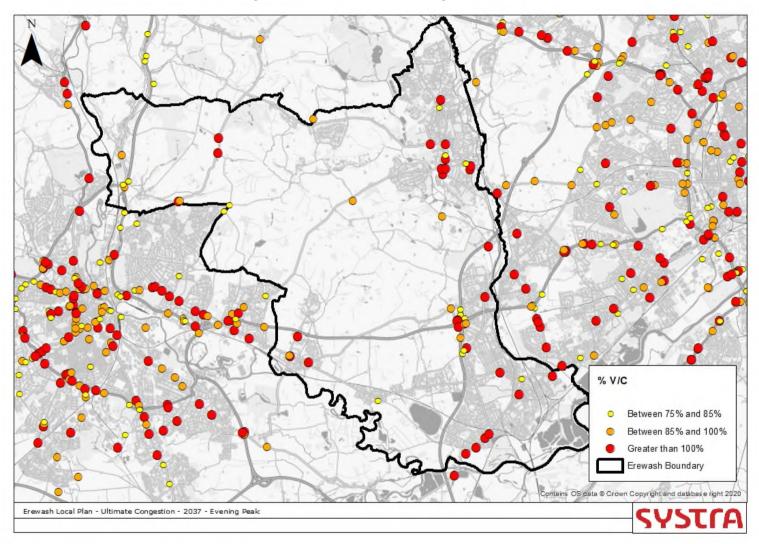




Figure 4.2037 Reference Case Total Congestion PM





## **EREWASH LOCAL PLAN DEVELOPMENT PLOTS**

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0	Figure 7.	Trip Distribution 2037 PM
0	Figure 8.	Reassignment Impact 2037 AM
0	Figure 9.	Reassignment Impact 2037 PM
0	Figure 10.	Flow Change 2037 AM
0	Figure 11.	Flow Change 2037 PM
0	Figure 12.	Change in Already Congested Junctions 2037 AM
0	Figure 13.	Change in Already Congested Junctions 2037 PM
0	Figure 14.	Change in Junctions Pushed over 85% V/C 2037 AN
0	Figure 15.	Change in Junctions Pushed over 85% V/C 2037 PM
0	Figure 16.	Total Congested Junctions 2037 AM
0	Figure 17.	Total Congested Junctions 2037 PM



**Figure 5. Erewash Local Plan Developments** 

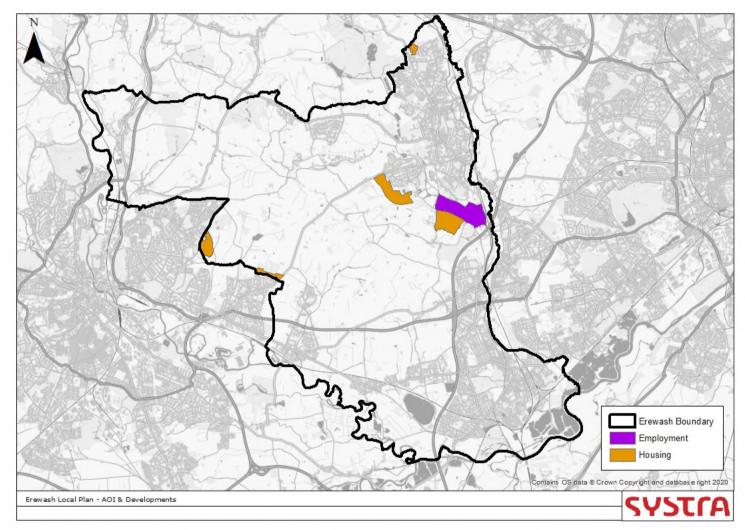




Figure 6.Trip Distribution 2037 AM

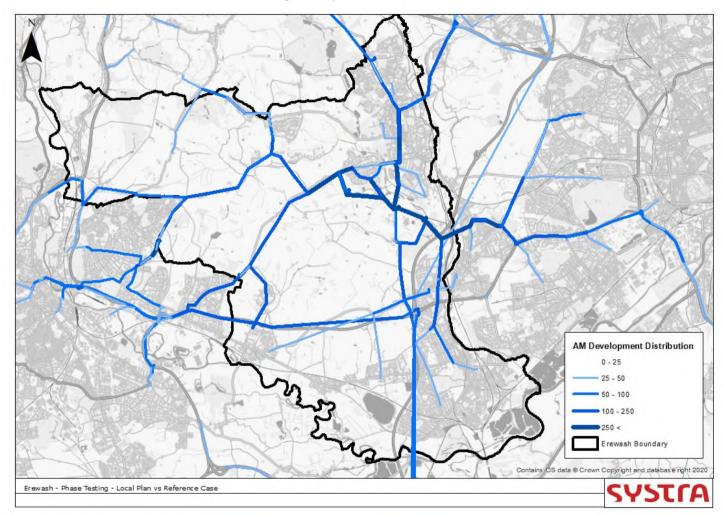




Figure 7.Trip Distribution 2037 PM

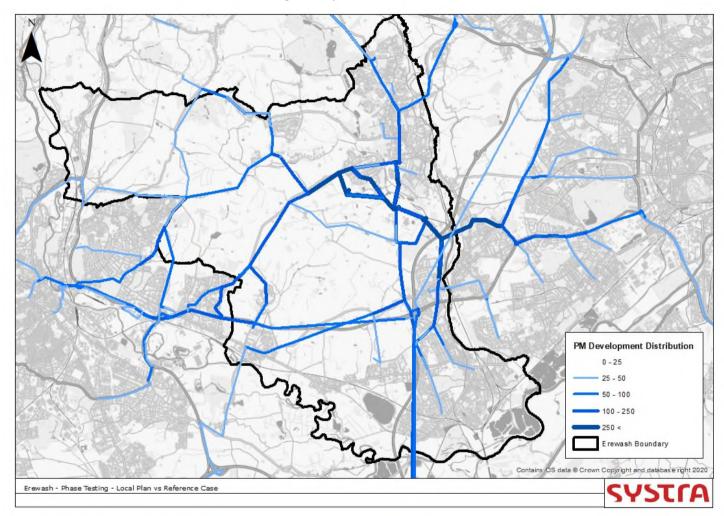




Figure 8.Reassignment Impact 2037 AM

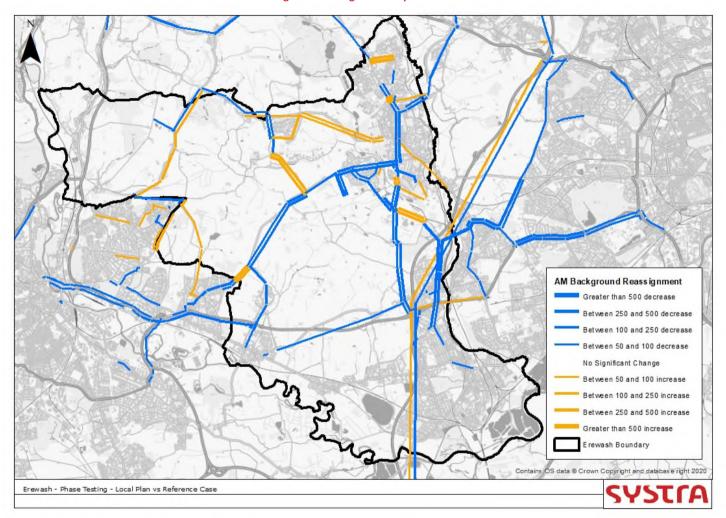




Figure 9. Reassignment Impact 2037 PM

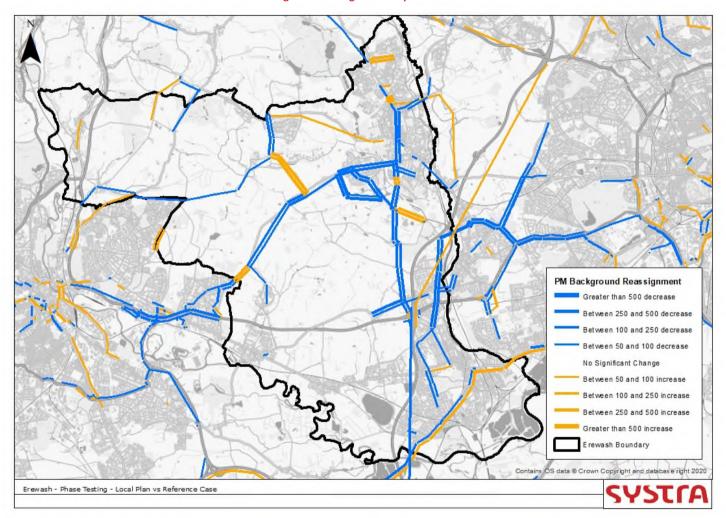




Figure 10. Flow Change 2037 AM

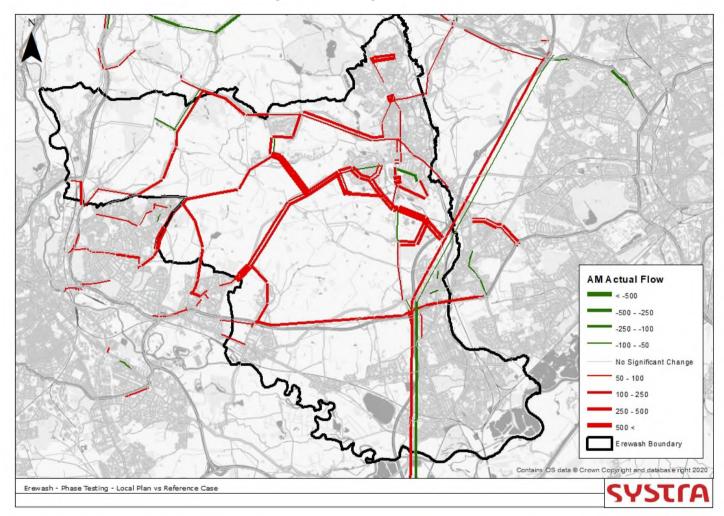




Figure 11. Flow Change 2037 PM

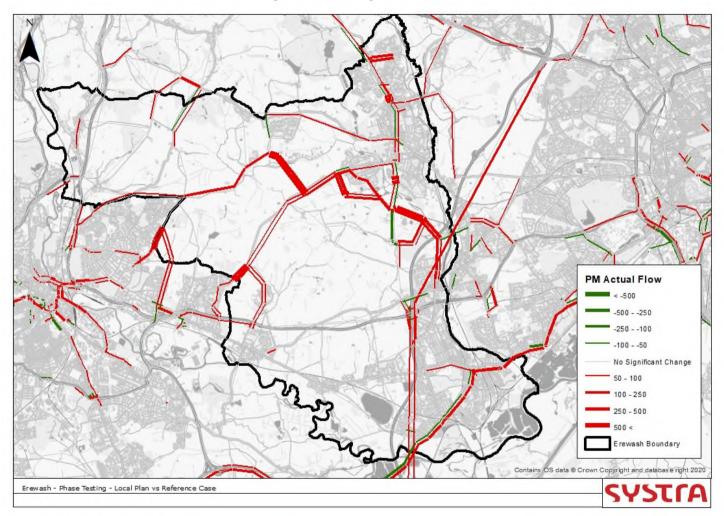




Figure 12. Change in Already Congested Junctions 2037 AM

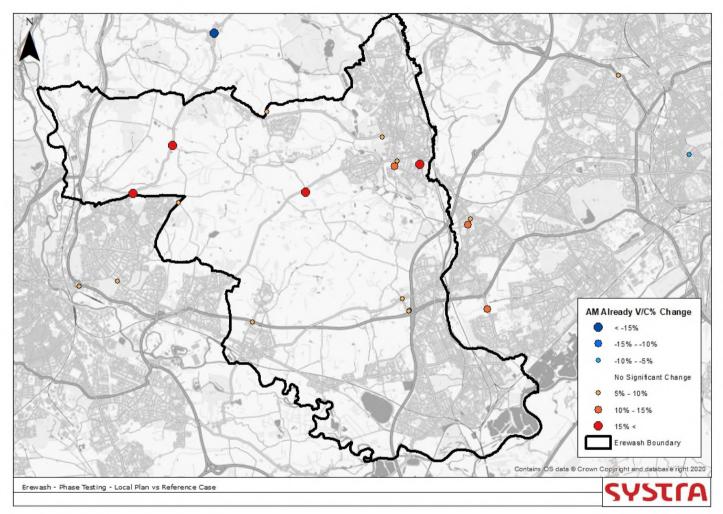




Figure 13. Change in Already Congested Junctions 2037 PM

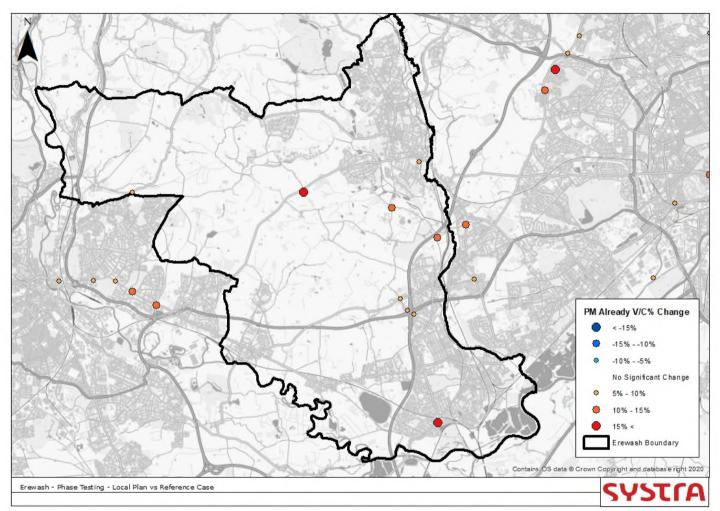




Figure 14. Change in Junctions Pushed over 85% V/C 2037 AM

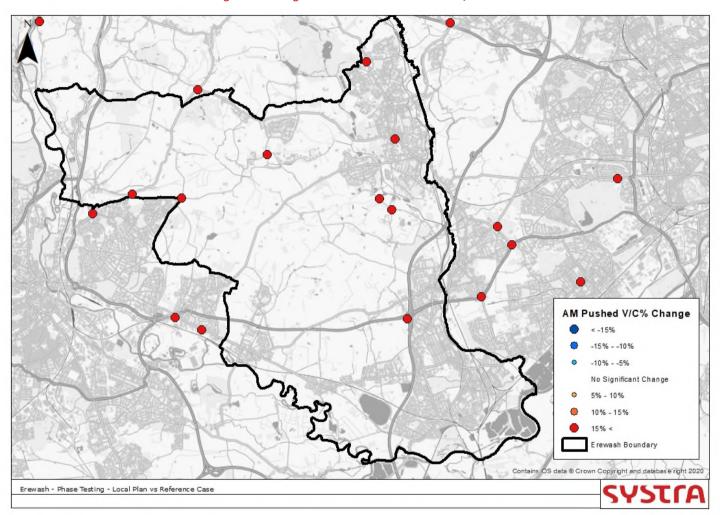




Figure 15. Change in Junctions Pushed over 85% V/C 2037 PM

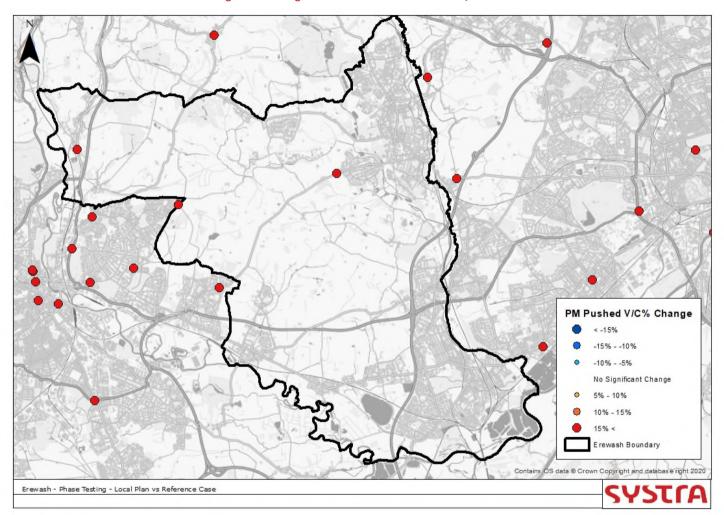




Figure 16. Total Congested Junctions 2037 AM

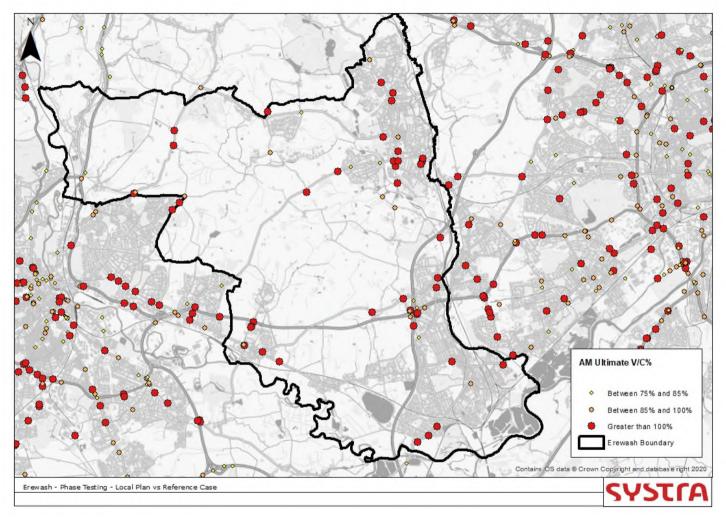
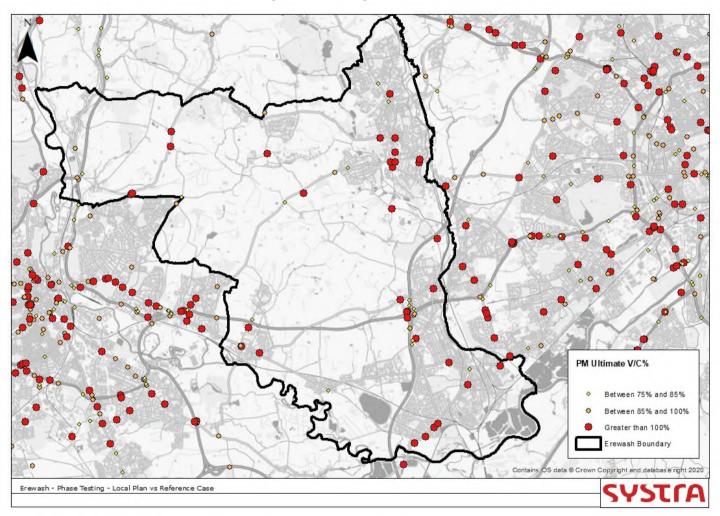




Figure 17. Total Congested Junctions 2037 PM





#### **LOCAL PLAN v MITIGATION PLOTS**

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- Figure 29 Mitigation Scheme Phase 3 Congestion Change Vs Local Plan Scenario (AM Peak)
- Figure 30 Mitigation Scheme Phase 3 Congestion Change Vs Local Plan Scenario (PM Peak)



Figure 18. Phase 3 Mitigation Sites

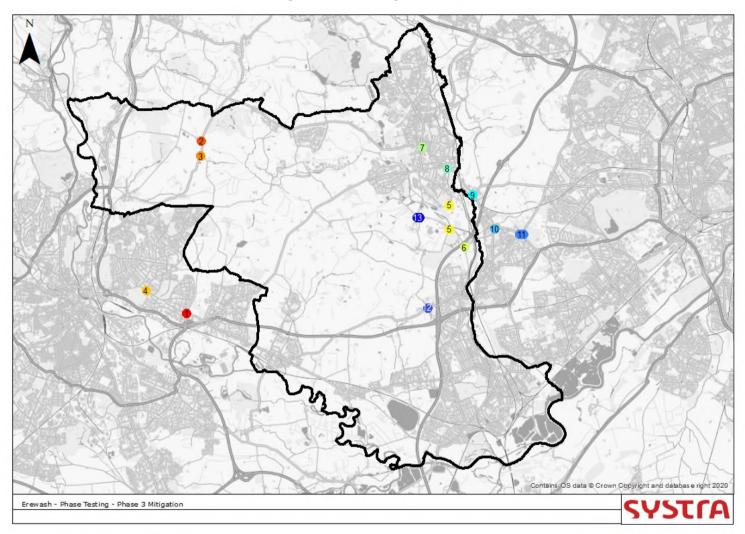




Figure 19. Mitigation Scheme Phase 1 Flow Change vs Local Plan Scenario (AM Peak)

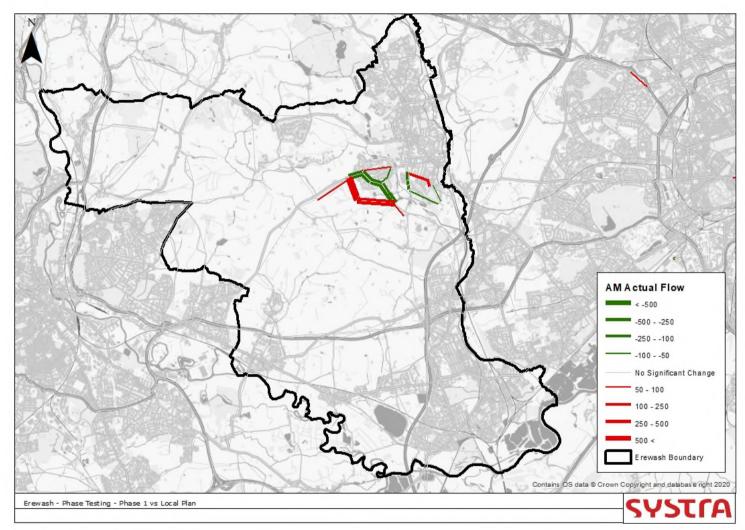
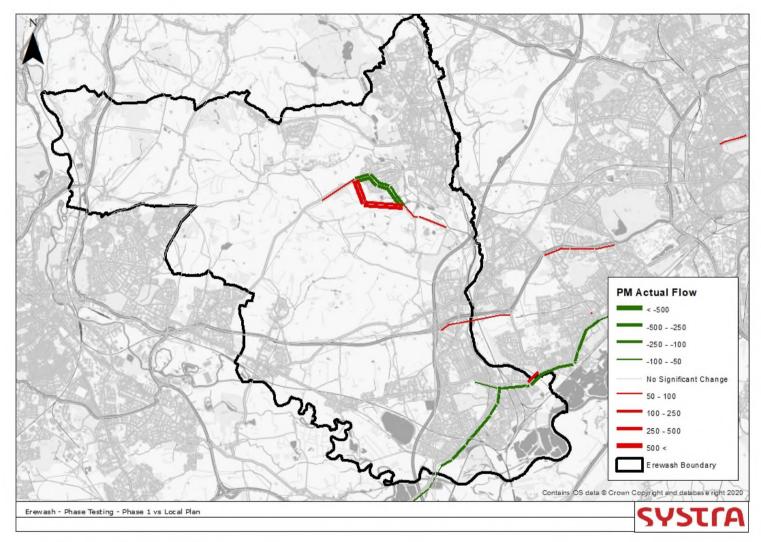




Figure 20. Mitigation Scheme Phase 1 Flow Change Vs Local Plan Scenario (PM Peak)





AM V/C% Change -10% - -5% No Significant Change 5% - 10% 10% - 15% Erewash Boundary Erewash - Phase Testing - Phase 1 vs Local Plan

Figure 21. Mitigation Scheme Phase 1 Congestion Change Vs Local Plan Scenario (AM Peak)



PM V/C% Change < -15% -15% - -10% -10% - -5% No Significant Change Erewash Boundary Erewash - Phase Testing - Phase 1 vs Local Plan

Figure 22. Mitigation Scheme Phase 1 Congestion Change Vs Local Plan Scenario (PM Peak)



Figure 23. Mitigation Phase 2 Flow Change vs Local Plan Scenario (AM Peak)

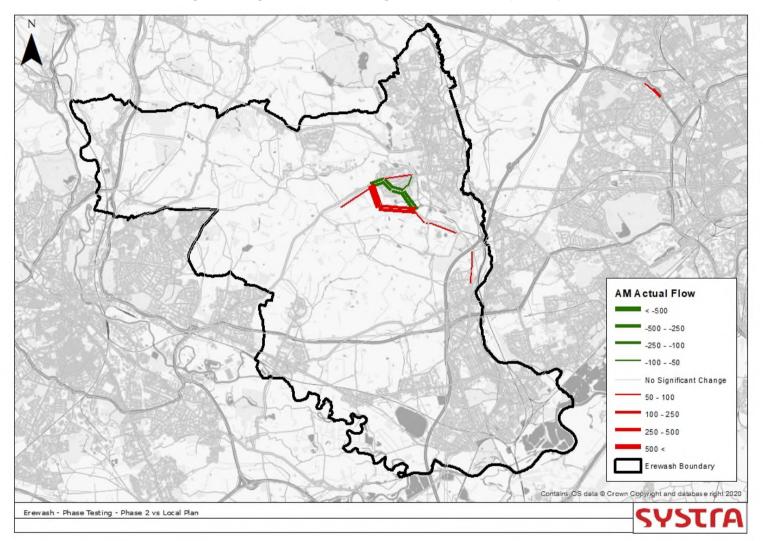




Figure 24. Mitigation Phase 2 Flow Change vs Local Plan Scenario (PM Peak)

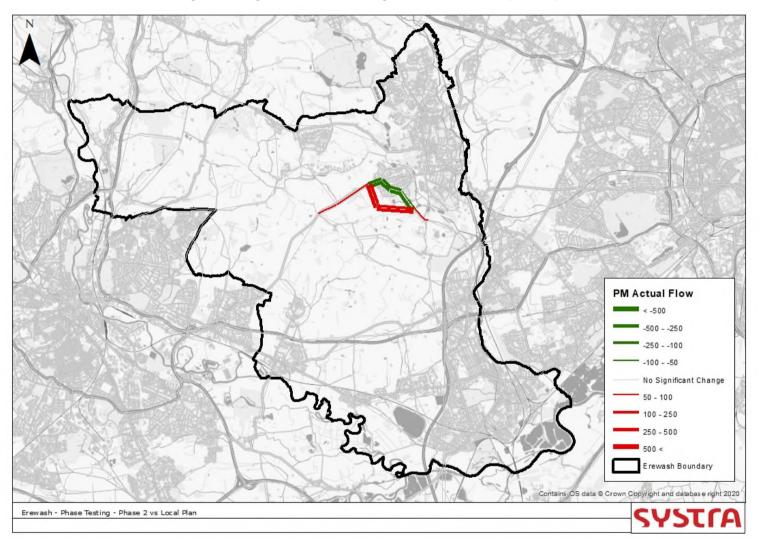




Figure 25. Mitigation Scheme Phase 2 Congestion Change Vs Local Plan Scenario (AM Peak)

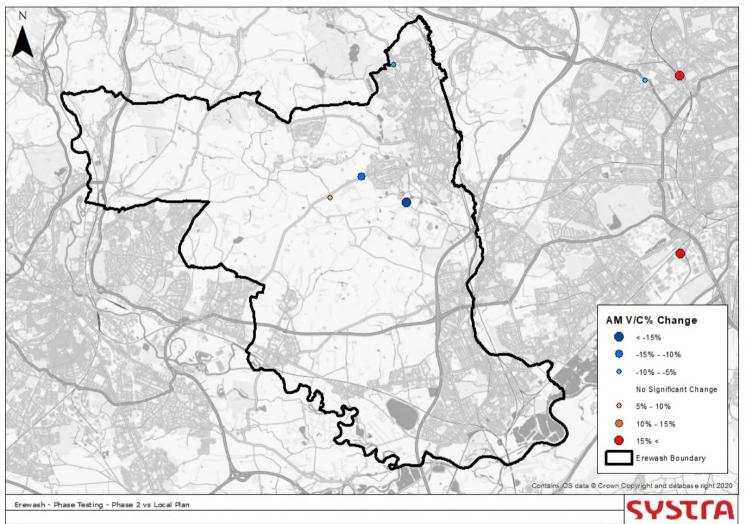




Figure 26. Mitigation Scheme Phase 2 Congestion Change Vs Local Plan Scenario (PM Peak)

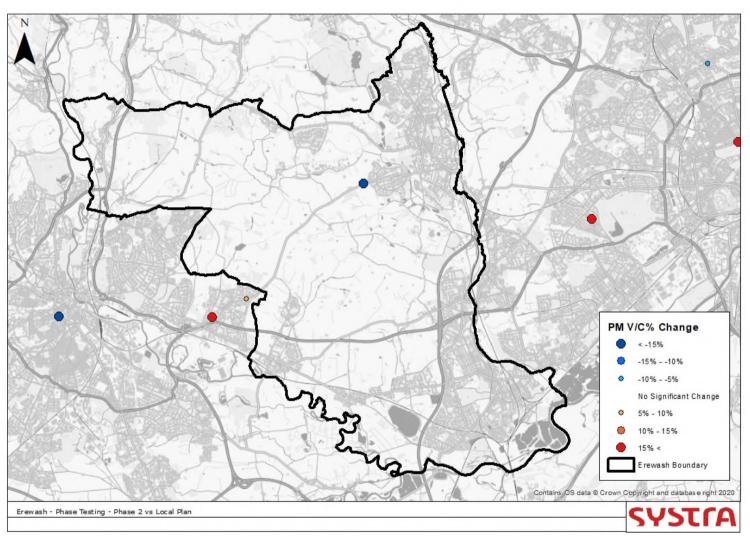




Figure 27. Mitigation Phase 3 Flow Change vs Local Plan Scenario (AM Peak)

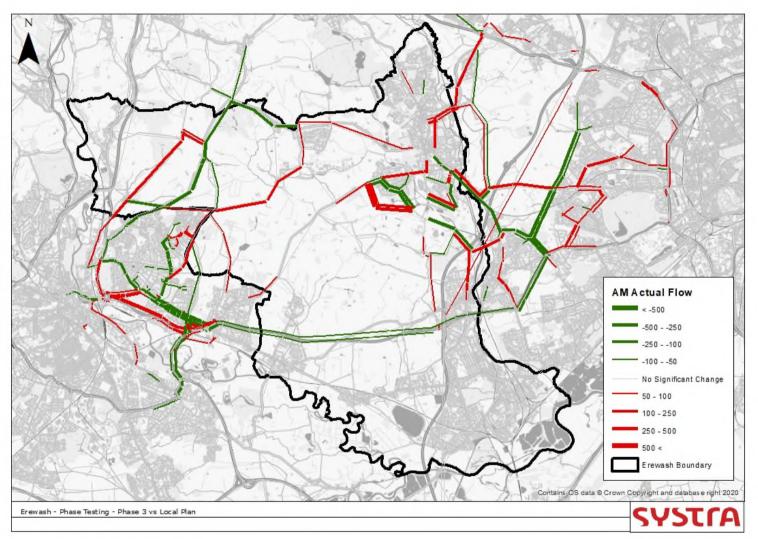




Figure 28. Mitigation Phase 3 Flow Change vs Local Plan Scenario (PM Peak)

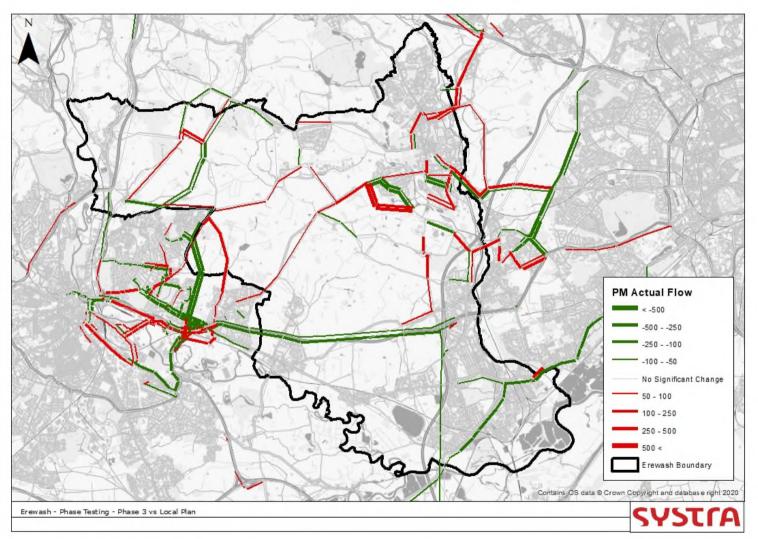




Figure 29. Mitigation Scheme Phase 3 Congestion Change Vs Local Plan Scenario (AM Peak)

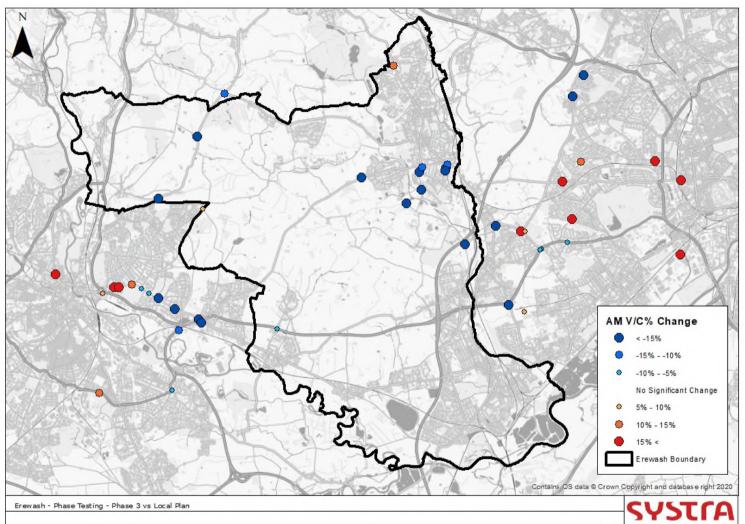
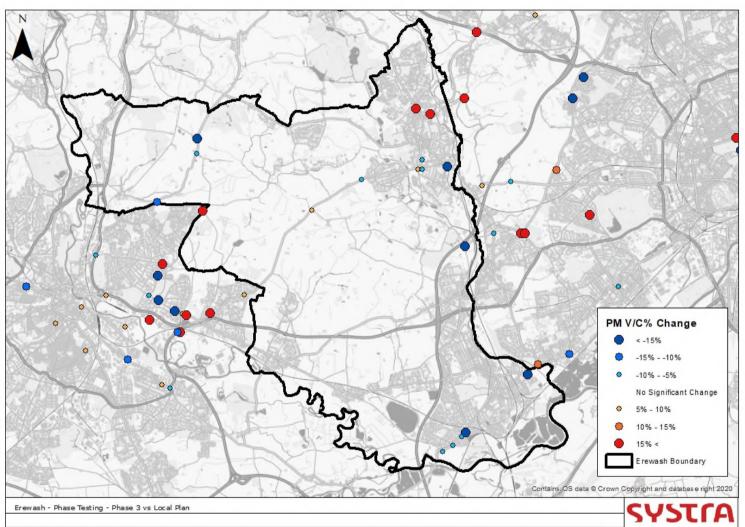




Figure 30. Mitigation Scheme Phase 3 Congestion Change Vs Local Plan Scenario (PM Peak)





# REFERENCE CASE v MITIGATION PLOTS

- Figure 31 Mitigation Scheme Phase 3 Speed Change vs Reference Case (AM Peak)
- Figure 32 Mitigation Scheme Phase 3 Speed Change vs Reference Case (PM Peak)
- Figure 33 Mitigation Scheme Phase 3 Time Change vs Reference Case (AM Peak)
- Figure 34 Mitigation Scheme Phase 3 Time Change vs Reference Case (PM Peak)
- Figure 35 Mitigation Scheme Phase 3 Queue Change vs Reference Case (AM Peak)
- Figure 36 Mitigation Scheme Phase 3 Queue Change vs Reference Case (PM Peak)
- Figure 37 Mitigation Scheme Phase 3 Flow Change vs Reference Case (AM Peak)
- Figure 38 Mitigation Scheme Phase 3 Flow Change vs Reference Case (PM Peak)
- Figure 39 Mitigation Scheme Phase 3 Congestion Change vs Reference Case (AM Peak)
- Figure 40 Mitigation Scheme Phase 3 Congestion Change vs Reference Case (PM Peak)



AM Speed Difference (kph) < -25 -25 - -15 -15 - -5 No Significant Change 5 - 15 Erewash Boundary Erewash - Phase Testing - Phase 3 vs Reference Case

Figure 31. Mitigation Scheme Phase 3 Speed Change Vs Reference Case Scenario (AM Peak)



PM Speed Difference (kph) < -25 -25 - -15 -15 - -5 No Significant Change 5 - 15 Erewash Boundary

Figure 32. Mitigation Scheme Phase 3 Speed Change Vs Reference Case Scenario (PM Peak)



AM Time Difference (sec) < -50 -50 - -25 -25 - -15 No Significant Change Erewash - Phase Testing - Phase 3 vs Reference Case

Figure 33. Mitigation Scheme Phase 3 Time Change Vs Reference Case Scenario (AM Peak)



PM Time Difference (sec) < -50 -50 - -25 -25 - -15 No Significant Change

Figure 34. Mitigation Scheme Phase 3 Time Change Vs Reference Case Scenario (PM Peak)

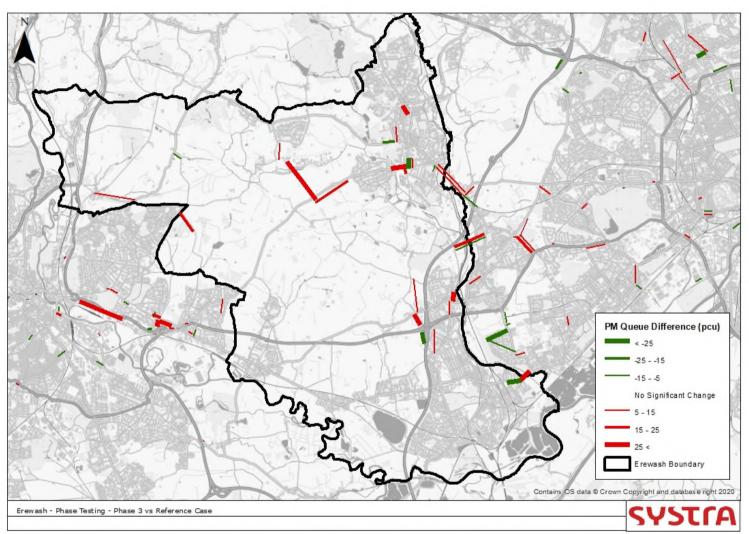


AM Queue Difference (pcu) < -25 -25 - -15 -15 - -5 No Significant Change Erewash Boundary

Figure 35. Mitigation Scheme Phase 3 Queue Change Vs Reference Case Scenario (AM Peak)



Figure 36. Mitigation Scheme Phase 3 Queue Change Vs Reference Case Scenario (PM Peak)





AM Actual Flow < -500 -500 - -250 -250 - -100 -100 - -50 No Significant Change 100 - 250 Erewash Boundary Erewash - Phase Testing - Phase 3 vs Reference Case

Figure 37. Mitigation Scheme Phase 3 Flow Change Vs Reference Case Scenario (AM Peak)



PM Actual Flow < -500 -500 - -250 -250 - -100 -100 - -50 No Significant Change 100 - 250 Erewash Boundary Erewash - Phase Testing - Phase 3 vs Reference Case

Figure 38. Mitigation Scheme Phase 3 Flow Change Vs Reference Case Scenario (PM Peak)



AM V/C% Change < -15% -15% - -10% -10% - -5% No Significant Change **5% - 10%** 10% - 15% Erewash Boundary

Figure 39. Mitigation Scheme Phase 3 Congestion Change Vs Reference Case Scenario (AM Peak)



PM V/C% Change < -15% -15% - -10% · -10% - -5% No Significant Change **5% - 10%** 10% - 15% Erewash Boundary Erewash - Phase Testing - Phase 3 vs Reference Case

Figure 40. Mitigation Scheme Phase 3 Congestion Change Vs Reference Case Scenario (PM Peak)



## **SCENARIO 1 APPRAISAL**

- Figure 41 Scenario 1 Additional Developments
- Figure 42 Scenario 1 Development Distribution Morning Peak
- Figure 43 Scenario 1 Development Distribution Evening Peak
- Figure 44 Scenario 1 v Mitigation Phase 3 Flow Change Morning Peak
- Figure 45 Scenario 1 v Mitigation Phase 3 Flow Change Evening Peak
- Figure 46 Scenario 1 v Mitigation Phase 3 Congestion Change Morning Peak
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- Figure 49 Phase 4 v Phase 3 Flow Change Evening Peak
- Figure 50 Phase 4 v Phase 3 Congestion Change Morning Peak
- Figure 51 Phase 4 v Phase 3 Congestion Change Evening Peak
- Figure 52 Phase 4 v Scenario 1 Flow Change Morning Peak
- Figure 53 Phase 4 v Scenario 1 Flow Change Evening Peak
- Figure 54 Phase 4 v Scenario 1 Congestion Change Morning Peak
- Figure 55 Phase 4 v Scenario 1 Congestion Change Evening Peak



Lower Kilburn Horsley Woodhouse Kimberley Highbury Vale Horsley Makeney Babbington Soxbench Morley & Smalley Green Mapperley Coss all Marsh North of High Lane West Morley Smit'South of Beech Lane Ilkeston Little Eaton Little Halla Radford Breadsall Hilltop Breadsall Wollaton Lenton Par New Starton Dale Abbey Lenton Land off Larch Drive, Cloudside Stapleford Chaddesden Beeston Derby Chilwell Ockbrook Land west of Cole Lane West of Borrowash Normanton Land north of Heath Gardens Clifton South west of Draycott Size (Houses) El aston 50 Memorial Village Thuiston Erewash Boundary Shelton Lock Contains OS data @ Crown Copyright and database right 2020 Erewash - Additional Development Locations

Figure 41. Scenario 1 Additional Developments



Lower Kilburn Horsley Woodhouse Kimbe Additional Development Trips (pcus/hr) Horsley Makeney 0 - 20 21 - 50 Babbington Soxbench Morley & Smalley Green Mapperley Coss all Marsh 101 - 250 Morley Smithy Ilkeston Additional New Development Little Eaton Morleymoor West Hallam Erewash Boundary Little Halla · Wollaton Lenton Par New Stanton ale Abbey 28 Lenton Staplef Chaddesder Beeston 58 Chifwell Ockbrook Normanton Cli fton 38 37 60 30 28 Long Eaton Barton in Fabis El aston Derby War Memorial Village Thuiston Shelton Lock Erewash - Effect of Additional Developments vs Phase 3

Figure 42. Scenario 1 Development Distribution – Morning Peak



Lower Kilburn Horsley Woodhouse Kimbe Additional Development Trips (pcus/hr) Horsley Makeney 0 - 20 21 - 50 Babbington Soxbench Morley & Smalley Green Mapperley Coss all Marsh 101 - 250 Morley Smithy Ilkeston Additional New Development Little Eaton Morleymoor West Hallam Erewash Boundary Little Halla · Wollaton Lenton Par New Stanton ale Abbey 28 Lenton Staplef Chaddesder Beeston 58 Chifwell Ockbrook Normanton Cli fton 38 37 60 30 28 Long Eaton Barton in Fabis El aston Derby War Memorial Village Thulston Shelton Lock Erewash - Effect of Additional Developments vs Phase 3

Figure 43. Scenario 1 Development Distribution – Evening Peak



Babbington Coss all Marsh likeston Bilberough - Beed dale Lenton AM Flow Change (pcus) < -100 -100 - -50 Chifweil Ockbrook -50 - -25 -25 - -10 63 53 56 78 46 44 No Significant Change 10 - 25 25 - 50 50 - 100 >100 Dierby War Memorial Village New Development Erewash Boundary Shelton Lock Erewash - Effect of Additional Developments vs Phase 3

Figure 44. Scenario 1 v Mitigation Phase 3 Flow Change – Morning Peak



Lower Kilburn Horsley Kimbertey Horsley Babbington coxbench oss all Marsh Little Eaton Bilberough - Beed dale Little Haif Radford New The Lenton Pa □ Wollaton Dale Abbey Lenton Chaddesder PM Flow Change (pcus) < -100 -100 - -50 -50 - -25 -25 - -10 No Significant Change 10 - 25 25 - 50 El aston >100 Di∘rby War Memorial Village Thulston New Development Erewash Boundary Shelton Lock Contains OS data @ Crown Copyright and database right 2020 Erewash - Effect of Additional Developments vs Phase 3

Figure 45. Scenario 1 v Mitigation Phase 3 Flow Change – Evening Peak



Lower Kilburn Horsley Woodhous Kimberley Highbury Vale Horsley Makeney Babbington Soxbench Morley Smalley Green Mapperley Coss all Marsh Morley Smithy Ilkeston Little Eaton Morleymoor West Hallam 0 Little Halla New The Lenton Par Breads all ○ Wollaton New Stanton Dale Abbey Breadsall Lenton Stanton-by D Stapleford Chaddesden Beeston Derby AM V/C% Change Chilwell Ockbrook < -15% 0 -15% - -10% Borrowash Normanton -10% - -5% Long Eaton No Significant Change 5% - 10% 10% - 15% El aston 15% < Memorial Village Thuiston New Development Erewash Boundary Shelton Lock Contains OS data @ Crown Copyright and database right 2020 Erewash - Effect of Additional Developments vs Phase 3

Figure 46. Scenario 1 v Mitigation Phase 3 Congestion Change – Morning Peak



Lower Kilburn Horsley Woodhouse Kimberley Highbury Vale Horsley Makeney Babbington Soxbench Morley & Smalley Green Mapperley Coss all Marsh Morley Smithy Ilkeston Little Eaton Morleymoor West Hallam Little Halla Radford Breads all ○ Wollaton Lenton Par New Stanton Dale Abbey Breadsall Lenton Stanton-by D Stapleford Chaddesden Beeston Derby PM V/C% Change Chilwell Ockbrook < -15% -15% - -10% Normanton -10% - -5% Long Eaton No Significant Change 5% - 10% 10% - 15% El aston 15% < Derby War Memorial Village Thuiston New Development Erewash Boundary Shelton Lock Contains OS data @ Crown Copyright and database right 2020 Erewash - Effect of Additional Developments vs Phase 3

Figure 47. Scenario 1 v Mitigation Phase 3 Congestion Change – Evening Peak



Lower Kilburn Horsley **AM Flow Change** Kimberley Horsley. pcus/hr <-500 Babbington Coxbench -500 - -250 Morley & Smalley Green Mapperley Coss all Marsh -250 - -100 Duffieldbank -100 - -50 No Significant Change Morley Smithy likeston Little Eaton Morleymoor West Hallam 50 - 100 Little Haii: 100 - 250 250 - 500 Breads all 500< New Stanton Erewash Boundary Dale Abbey Lenton Stanton-by Stapleford Beeston Chifweil Ockbrook Clifton Barton in Fabis El aston Dierby (Var Memorial Village Shelton Lock Contains OS data © Crown Copyright and database right 2020 Erewash Local Plan: Phase 3 v Phase 4

Figure 48. Phase 4 v Phase 3 Flow Change – Morning Peak



Lower Kilburm Horsley Woodhouse **PM Flow Change** Kimberley Horsley pcus/hr <-500 Babbington Coxbench -500 - -250 Morley & Smalley Green Mapperley Coss all Marsh -250 - -100 Duffieldbank -100 - -50 No Significant Change Morley Smithy Ilkeston Little Eaton Morleymoor **50 - 100** Little Haii: 100 - 250 250 - 500 Breads all 500< New Stanton Erewash Boundary Dale Abbey Lenton Stanton-by E Stapleford Beeston Chifweil Ockbrook Clifton Barton EN aston Dierby War Memorial Village Thulston Shelton Lock Contains OS data © Crown Copyright and database right 2020 Erewash Local Plan: Phase 3 v Phase 4

Figure 49. Phase 4 v Phase 3 Flow Change – Evening Peak



Lower Kilburn Horsley Woodhous Kimberley AM VC Change Horsley Makeney -15% - -10% Babbington Soxbench Morley Smalley Green -10% - -5% Mapperley Coss all Marsh No Significant Change 5% - 10% Morley Smithy Ilkeston 10% - 15% Little Eaton Morleymoor West Hallam 15% <</p> Little Halla Erewash Boundary New The Lenton Par Breads all New Stanton Dale Abbey Breadsall Lenton Stanton-by E Stapleford Beeston Derby Chilwell Ockbrook O Risley Borrowash Normanton Clifton Barton in Fabis El aston Derby War Memorial Village Thulston Shelton Lock Contains OS data @ Crown Copyright and database right 2020 Erewash Local Plan: Phase 3 v Phase 4

Figure 50. Phase 4 v Phase 3 Congestion Change – Morning Peak



Lower Kilburn Horsley Woodhouse Kimberley PM VC Change Horsley Makeney -15% - -10% Babbington Soxbench Morley & Smalley Green -10% - -5% Mapperley Coss all Marsh No Significant Change 5% - 10% Morley Smithy Ilkeston 10% - 15% Little Eaton Morleymoor West Hallam 15% <</p> Little Halla Erewash Boundary New The Lenton Par Breads all New Stanton Dale Abbey Breadsall Lenton Stanton-by E Stapleford Beeston Derby Chilwell Ockbrook Normanton Borrowash Clifton Barton in Fabis El aston Derby War Memorial Village Thulston Shelton Lock Contains OS data @ Crown Copyright and database right 2020 Erewash Local Plan: Phase 3 v Phase 4

Figure 51. Phase 4 v Phase 3 Congestion Change – Evening Peak



Lower Kilburn Horsley Woodhouse **AM Flow Change** Kimberley Horsley pcus/hr <-500 Babbington Soxbench -500 - -250 Morley & Smalley Green Mapperley Coss all Marsh -250 - -100 Duffieldbank -100 - -50 No Significant Change Morley Smithy likeston Little Eaton Morleymoor West Hallam 50 - 100 Little Haii: 100 - 250 250 - 500 Breads all 500< New Stanton Erewash Boundary Dale Abbey Lenton Stanton-by E Stapleford Beeston Chifweil Ockbrook Clifton Barton in Fabis El aston Dierby War Memorial Village Thulston Shelton Lock Contains OS data © Crown Copyright and database right 2020 Erewash Local Plan: Scenario 1 v Phase 4

Figure 52. Phase 4 v Scenario 1 Flow Change – Morning Peak



Lower Kilburn Horsley Woodhouse **PM Flow Change** Kimberley Horsley pcus/hr <-500 Babbington Soxbench -500 - -250 Morley & Smalley Green Mapperley Coss all Marsh -250 - -100 Duffieldbank -100 - -50 No Significant Change Morley Smithy likeston Little Eaton Morleymoor West Hallam **50 - 100** Little Haii: 100 - 250 250 - 500 Breads all 500< New Stanton Erewash Boundary Dale Abbey Lenton Stanton-by E Stapleford Beeston Chifweil Ockbrook Clifton Barton in Fabis EN aston Derby War Memorial Village Thulston Shelton Lock Contains OS data © Crown Copyright and database right 2020 Erewash Local Plan: Scenario 1 v Phase 4

Figure 53. Phase 4 v Scenario 1 Flow Change – Evening Peak



Lower Kilburn Horsley Woodhouse AM VC Change Kimberley Horsley Makeney -15% - -10% Babbington Soxbench Morley & Smalley Green -10% - -5% Mapperley Coss all Marsh No Significant Change Duffieldbank 5% - 10% Morley Smithy Ilkeston 10% - 15% Little Eaton Morleymoor West Hallam 15% <</p> Little Halla Erewash Boundary Breads all Lenton Par New Stanton Dale Abbey Lenton Stanton-by E Stapleford Beeston Derby o Chifwell Ockbrook Normanton Clifton Barton in Fabis El aston Derby War Memorial Village Thuiston Shelton Lock Contains OS data @ Crown Copyright and database right 2020 Erewash Local Plan: Scenario 1 v Phase 4

Figure 54. Phase 4 v Scenario 1 Congestion Change – Morning Peak



Lower Kilburn Horsley Woodhouse PM VC Change Kimberley Horsley Makeney -15% - -10% Babbington Soxbench Morley & Smalley Green -10% - -5% Mapperley Coss all Marsh No Significant Change Duffieldban 5% - 10% Morley Smithy Ilkeston 10% - 15% Little Eaton Morleymoor West Hallam 15% < Little Halla Erewash Boundary New The Lenton Par Breads all New Stanton Dale Abbey Breadsall Lenton Stanton-by-E Stapleford Beeston Derby Chifwell Ockbrook Borrowash Normanton Cli fton Barton in Fabis El aston Derby War Memorial Village Thuiston Shelton Lock Contains OS data @ Crown Copyright and database right 2020 Erewash Local Plan: Scenario 1 v Phase 4

Figure 55. Phase 4 v Scenario 1 Congestion Change – Evening Peak



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