

Study Area and identification “links for assessment”

Introduction to ES Traffic Volumes

The ES traffic volumes have been derived from the Northern Gateway Traffic Model (SATURN Model).

The SATURN model contains over 70,000 road links.

The Transport, Air Quality and Noise consultants have fed into a list of road links for which traffic volumes have been extracted for the EIA assessment.

The traffic volumes on those links have been provided in Tabulated format by the Transport Consultants carrying out the SATURN modelling (WSP).

The total number of EIA links for which traffic volumes have been provided are:

- 219, for the modelling scenarios which exclude the M62 Access Solution
- 232, for the modelling scenarios which include the M62 Access Solution

Study Area identification - Methodology

The links to be assessed in the ES Chapter have been identified through a 3 step approach, as follows:

Step 1 – Overall Study Area

As set out in the ES Scoping, the Study Area for the Transport and Access ES Chapter is based on the study area considered by the Transport Assessment, which is set out in the TASNU.

The TASNU identifies 23 junctions in the vicinity of the Site, where the Project for Assessment, would have the most significant vehicular impacts. The ES requires the assessment of Links (or Roads), rather than junctions. Therefore, the links on approach to the 23 junctions identified in the TASNU form the study area.

Step 2 – Provisional List of Links for Assessment

As set out in the ES Scoping, the IEMA document identifies that as a guide, two broad rules should be applied to identify the links (roads) for assessment. Those are:

- Links that experience a 30% increase in daily traffic or HGV flow; and
- Highly Sensitive Links that experience a 10% to 30% increase in traffic.

For the 58 links within the Study Area, the above two broad rules have been applied through a Net Impact Assessment, comparing the Without Development scenario against the With Development Scenario.

The Net Impact Assessment has been undertaken based on the 2-way Annual Average Daily Traffic flow (AADT) on a link (carriageway) in accordance with IEMA guidelines.

Step 3 – Final List of Links for Assessment

As set out in the ES Scoping, Each link within the provisional list of Links for Assessment, has then been subject to a qualitative review to establish whether it should be included in the assessment, for example, a link may be forecast to be subject to 2 HGV's a day in the Without Development Scenario, and 4 HGV's a day in the With Development scenario, which is a 100% increase and therefore the broad rules would capture this link in the Links for Assessment. However, an increase of 2 HGV's a day is clearly not a significant impact and therefore this link would be removed from the Links for Assessment.

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Study Area identification – Deriving the Links for Assessment

Step 1 - Overall Study Area

There are 58 links on the approach to the 23 junctions within the study area, as illustrated on **Figure 8.4** and as listed below. The 58 links included in the Transport and Access study area, are contained within the 200+ links provided for the wider ES assessment.

Junction 1

1. Manchester Road / Hollins Lane Corridor, between Langley Lane and M62 junction 19.
2. M62 Westbound Off-Slip.
3. M62 Eastbound Off-Slip.
4. Queen Elizabeth II Way, between M62 Jct 19 and Manchester Road.
5. Middleton Road, to the north of M62 Jct 19.

Junction 2

6. Manchester Road / Heywood Old Road, between Langley Lane and Queen Elizabeth II Way.
7. Manchester Road, between Queen Elizabeth II Way and Coronation Avenue.
8. Hareshill Road / Queen Elizabeth II Way Corridor, Between Hareshill Road / QEII / South Heywood residential & local centre (Jct 3) and Manchester Road.

Junction 3

9. Hareshill Road, between Hareshill Road / Queen Elizabeth II Way / South Heywood residential & local centre (Jct 3) and Hill Top Road.

Junction 4

10. Hill Top Road Corridor, north east of Hareshill Road
11. Hareshill Road, between Hill Top Road and Pilsworth Road.

Junction 5

12. Pilsworth Road, between Hareshill Road / Pilsworth Road and A58 Bury St
13. Pilsworth Road, between Hareshill Road / Pilsworth Road and Heywood Distribution Park

Junction 6

14. A58 Bury Road – West of Pilsworth Road
15. A58 Bridge Street – East of Pilsworth Road

Junction 7

16. Pilsworth Road, between Heywood Distribution Park and Access to Committed Development on South Side of Pilsworth Road

Junction 8

17. Pilsworth Road, between Access to Committed Development on South Side of Pilsworth Road & Moss Hall Road

Junction 9 – 3 Arrows

18. Moss Hall Road, between Pilsworth Road and Whittle Lane

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19. Moss Hall Road, between 3 arrows (Jct 9) and Fowler Welch (Jct 10)

Junction 10 – Fowler Welch

20. Pilsworth Road, between Moss Hall Road and M66
21. Moss Hall Road, between Fowler Welch and Broadlands Industrial Access

Junction 11

22. M66 Jct 3, Northbound Off-Slip.
23. M66 Jct 3, Southbound Off-Slip.
24. Pilsworth Road / Croft Lane Corridor, between M66 and Hollins Lane.

Junction 12

25. A58 Bury St, between M66 Jct 2 and Heap Brow
26. M66 Jct 2, Northbound Off-slip
27. Waterfold – Not included in model outputs
28. Rochdale Road, between Wash Lane and M66 JCT 2
29. M66 Jct 2, Southbound Off-Slip
30. Bridge Hall Lane, between M66 JCT 2 and Bridge Hall Fold – Not included in model outputs

Junction 13

31. Heywood Old Road, between Whittle Lane and Langley Lane
32. Heywood Old Road, south of Whittle Lane
33. Whittle Lane, west of Heywood Old Road

Junction 14

34. Langley Lane, between Heywood Old Road and Hollin Lane

Junction 15

35. Hollin Lane, between Langley Lane and Rochdale Road.

Junction 16

36. Manchester Road, between Coronation Avenue and Middleton Road
37. Coronation Avenue, between Manchester Road and Middleton Road

Junction 17

38. Hollins Lane, between Hollins Brow / Croft Lane and Church Meadow
39. Hollins Brow, between Hollins Lane and Manchester Road

Junction 18

40. Manchester Road, south of Hollins Brow
41. Manchester Road, north of Hollins Brow

Junction 19

42. M62 Jct 18, Eastbound Off-Slip
43. M60 Jct 18 Westbound Off-Slip
44. M60 Jct 18 Northbound Off-Slip

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45. M66 Jct 18 Southbound Off-Slip

Junction 20

46. M62 Jct 20 20 Eastbound Off-Slip

47. A627(M) / M62 Jct 20 Westbound Off-Slip

48. M62 Jct 20 Northbound Off-Slip

49. A627(M) / M62 Jct 20 Southbound Off-Slip

Junction 21

50. M60 Jct 19 Westbound Off-Slip

51. Middleton Road, between M60 JCT 19 and Heaton Park Road W

52. M60 Jct 19 Eastbound Off-Slip

53. Middleton Road, between M60 JCT 19 and Heywood Old Road

Junction 22

54. Kelvin Avenue, between Middleton Road and Lister Road

55. Manchester Old Road, between Heywood Old Road and Lands End Road

56. Heywood Old Road, between Whittle Lane and A6045 Middleton Road

Junction 23

57. Rochdale Road, between Wash Lane and Deal St

58. Wash Lane, between Rochdale Road and Willow St

Step 2 – Identification of Provisional List of “Links for Assessment”

The Net Impact Assessment has been carried out through comparing the 2039 Do Minimum (NGTM Model Run 10) against the 2039 Do Something 3 excluding the M62 Access Solution (NGTM Model Run 13).

Run 13 has been used for the Net Impact Assessment as:

- The Do Something 3 includes both the JPA1.1 and JPA1.2 traffic generation, and therefore includes the highest level of forecast development traffic.
- The scenario which excludes of the M62 Access Solution will have greater impacts on the local road network.

The Net Impact Assessment is included in **Table 8.1**, with the full detailed table included as **Appendix 8.5**.

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Table 8.1 – Net Impact Assessment

TT Link Ref	Link Name	24hr AADT – Difference		Sensitivity	Include in Provisional List of “Links for Assessment”
		All Vehs	HGV		
1	Manchester Road / Hollins Lane Corridor, between Langley Lane and M62 junction 19.	4.3%	20.0%	Negligible	No
2	M62 Westbound Off-Slip.	18.0%	46.7%	Medium	Yes
3	M62 Eastbound Off-Slip.	17.7%	10.9%	Medium	No
4	Queen Elizabeth II Way, between M62 Jct 19 and Manchester Road.	29.6%	42.9%	Negligible	Yes
5	Middleton Road, to the north of M62 Jct 19.	2.0%	7.9%	Low	No
6	Manchester Road / Heywood Old Road, between Langley Lane and Queen Elizabeth II Way.	22.4%	-65.2%	Negligible	No
7	Manchester Road, between Queen Elizabeth II Way and Coronation Avenue.	8.0%	35.2%	Medium	Yes
8	Hareshill Road / Queen Elizabeth II Way Corridor, Between Hareshill Road / QEII / South Heywood residential & local centre (Jct 3) and Manchester Road.	20.6%	43.5%	Medium	Yes
9	Hareshill Road, between Hareshill Road / Queen Elizabeth II Way / South Heywood residential & local centre (Jct 3) and Hill Top Road.	20.3%	43.4%	Medium	Yes
10	Hill Top Road Corridor, north east of Hareshill Road	2.2%	1.5%	Low	No
11	Hareshill Road, between Hill Top Road and Pilsworth Road.	23.9%	50.8%	Low	Yes
12	Pilsworth Road, between Hareshill Road / Pilsworth Road and A58 Bury St	0.8%	49.1%	Medium	Yes
13	Pilsworth Road, between Hareshill Road / Pilsworth	27.1%	57.2%	Medium	Yes

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	Road and Heywood Distribution Park				
14	A58 Bury Road – West of Pilsworth Road	1.5%	9.6%	Low	No
15	A58 Bridge Street – East of Pilsworth Road	2.0%	36.3%	Low	Yes
16	Pilsworth Road, between Heywood Distribution Park and Access to Committed Development on South Side of Pilsworth Road	25.8%	62.6%	Low	Yes
17	Pilsworth Road, between Access to Committed Development on South Side of Pilsworth Road & Moss Hall Road	25.7%	62.0%	Low	Yes
18	Moss Hall Road, between Pilsworth Road and Whittle Lane	74.5%	90.4%	Medium	Yes
19	Moss Hall Road, between 3 arrows (Jct 9) and Fowler Welch (Jct 10)	45.4%	62.1%	Low	Yes
20	Pilsworth Road, between Moss Hall Road and M66	45.4%	55.4%	Medium	Yes
21	Moss Hall Road, between Fowler Welch and Broadlands Industrial Access	32.8%	71.8%	Low	Yes
22	M66 Northbound Off-Slip.	14.7%	41.2%	Medium	Yes
23	M66 Southbound Off-Slip, between Pilsworth Road and M66 JCT 2.	36.3%	34.1%	Medium	Yes
24	Pilsworth Road / Croft Lane Corridor, between M66 and Hollins Lane.	4.2%	24.1%	Medium	No
25	A58 Bury St, between M66 Jct 2 and Heap Brow	4.6%	29.8%	Low	No
26	M66 Northbound Off-slip	4.0%	1.3%	Medium	No
27	Waterfold, entire extent of Waterfold	0.0%	0.0%		No
28	Rochdale Road, between wash lane and M66 JCT 2	4.7%	19.6%	Medium	No
29	M66 Southbound Off-Slip	-11.4%	-47.7%	Medium	No
30	Bridge Hall Lane, between M66 JCT 2 and Bridge Hall Fold	0.0%	0.0%		No
31	Heywood Old Road, between whittle Lane and Langley Lane	11.0%	-78.7%	Low	No

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32	Heywood Old Road, between Whittle Lane and A6045 Middleton Road	6.7%	-78.6%	Negligible	No
33	Whittle Lane, between Heywood Old Road and Moss Hall Road	40.9%	0.0%	Low	Yes
34	Langley Lane, between Heywood Old Road and Hollin Lane	4.4%	14.6%	Medium	No
35	Hollin Lane, between Langley Lane and Rochdale Road.	4.4%	19.9%	Low	No
36	Manchester Road, between Coronation Avenue and Middleton Road	6.6%	0.0%	Low	No
37	Coronation Avenue, between Manchester Road and Middleton Road	15.3%	8.1%	Medium	No
38	Hollins Lane, between Hollins Brow / Croft Lane and Church Meadow	18.3%	30.4%	Low	Yes
39	Hollins Brow, between Hollins Lane and Manchester Road	-1.7%	41.8%	Medium	Yes
40	Manchester Road, between Hollins Brow and High Bank Road	6.8%	2.0%	Negligible	No
41	Manchester Road, between Hollins Brow and Crossfield St	3.6%	32.0%	Medium	Yes
42	M60 JCT18 Eastbound Off-Slip	4.2%	7.9%	Medium	No
43	M60 JCT 18 Westbound Off-Slip	-1.2%	8.6%	Medium	No
44	M60 JCT 18 Northbound Off-Slip	1.9%	6.0%	Low	No
45	M60 JCT 18 Southbound Off-Slip	0.2%	11.7%	Negligible	No
46	M62 JCT 20 Eastbound Off-Slip	-0.5%	6.4%	Medium	No
47	M62 JCT 20 Westbound Off-Slip	1.7%	2.3%	Medium	No
48	M60 JCT 20 Northbound Off-Slip	1.6%	7.2%	Medium	No
49	M60 JCT 20 Southbound Off-Slip	-0.6%	1.5%	Negligible	No
50	M60 JCT 19 Westbound Off-Slip	1.1%	-12.5%	Medium	No
51	Middleton Road, between M60 JCT 19 and Heaton Park Road W - SWB	-1.4%	0.7%	Medium	No

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52	Middleton Road, between M60 JCT 19 and Heaton Park Road W - NEB	3.9%	18.0%	Medium	No
53	M60 JCT 19 Eastbound Off-Slip	10.1%	16.7%	Medium	No
54	Middleton Road, between M60 JCT 19 and Heywood Old Road	10.5%	-7.6%	Low	No
55	Kelvin Avenue, between Middleton Road and Lister Road	7.9%	0.1%	Low	No
56	Manchester Old Road, between Heywood Old Road and Lands End Road	5.0%	4.4%	Medium	No
57	Heywood Old Road, between Whittle Lane and A6045 Middleton Road	20.4%	-68.8%	Medium	No
58	Rochdale Road, between Wash Lane and Deal St	6.5%	18.6%	Low	No

Based on Table 8.1, the provisional list of “links for assessment” totals 21 links, as follows:

2. M62 Eastbound Off-Slip.
4. Queen Elizabeth II Way, between M62 Jct 19 and Manchester Road.
7. Manchester Road, between Queen Elizabeth II Way and Coronation Avenue.
8. Hareshill Road / Queen Elizabeth II Way Corridor, Between Hareshill Road / QEII / South Heywood residential & local centre (Jct 3) and Manchester Road.
9. Hareshill Road, between Hareshill Road / Queen Elizabeth II Way / South Heywood residential & local centre (Jct 3) and Hill Top Road.
11. Hareshill Road, between Hill Top Road and Pilsworth Road.
12. Pilsworth Road, between Hareshill Road / Pilsworth Road and A58 Bury St
13. Pilsworth Road, between Hareshill Road / Pilsworth Road and Heywood Distribution Park
15. A58 Bridge Street – East of Pilsworth Road
16. Pilsworth Road, between Heywood Distribution Park and Access to Committed Development on South Side of Pilsworth Road
17. Pilsworth Road, between Access to Committed Development on South Side of Pilsworth Road & Moss Hall Road
18. Moss Hall Road, between Pilsworth Road and Whittle Lane
19. Moss Hall Road, between 3 arrows (Jct 9) and Fowler Welch (Jct 10)
20. Pilsworth Road, between Moss Hall Road and M66
21. Moss Hall Road, between Fowler Welch and Broadlands Industrial Access
22. M66 Northbound Off-Slip.
23. M66 Southbound Off-Slip, between Pilsworth Road and M66 JCT 2.
33. Whittle Lane, between Heywood Old Road and Moss Hall Road
38. Hollins Lane, between Hollins Brow / Croft Lane and Church Meadow
39. Hollins Brow, between Hollins Lane and Manchester Road
41. Manchester Road, between Hollins Brow and Crossfield St

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Step 3 - Qualitative review of the “Links for Assessment”

The qualitative assessment results have been completed, and no links are to be removed. Given this, the provisional list of Links for Assessment is now the final list. The “Links for Assessment” in the Transport and Access Section comprises the 21 links set out under the heading of provisional list of “Links for Assessment”.

The final “Links for Assessment” are illustrated on **Figure 8.5**.