

A17 Kirkby La Thorpe Interchange

ASSESSMENT OF LINK FLOW TRAFFIC IMPACT: A17 KIRKBY LA THORPE

TYPICAL DAILY DEMAND SCENARIO - BASE DISTRIBUTION (100% WEST)

BACKGROUND DEMAND

All Vehicles

	2006	2012	2017
Eastbound	8123	8748	9224
Westbound	8209	8841	9322
Total	16332	17589	18547

All Goods Vehicles + PSV's

	2006	2012	2017
Eastbound	1407	1515	1598
Westbound	1408	1516	1599
Total	2815	3032	3197

OGV2's + PSV's

	2006	2012	2017
Eastbound	907	977	1030
Westbound	916	986	1040
Total	1823	1963	2070

DEVELOPMENT TRAFFIC DEMAND (TYPICAL DAYTIME SCENARIO)

East of Interchange

0%

All Vehicles

	2012	2017
Eastbound	0	0
Westbound	0	0
Total	0	0

All Goods Vehicles + PSV's

	2012	2017
Eastbound	0	0
Westbound	0	0
Total	0	0

OGV2's + PSV's

	2012	2017
Eastbound	0	0
Westbound	0	0
Total	0	0

West of Interchange

100%

All Vehicles

	2012	2017
Eastbound	68	68
Westbound	68	68
Total	136	136

All Goods Vehicles + PSV's

	2012	2017
Eastbound	50	50
Westbound	50	50
Total	100	100

OGV2's + PSV's

	2012	2017
Eastbound	50	50
Westbound	50	50
Total	100	100

DEVELOPMENT TRAFFIC IMPACT (TYPICAL DAYTIME SCENARIO)

East of Interchange

0%

All Vehicles

	2012	2017
Eastbound	0.00%	0.00%
Westbound	0.00%	0.00%
Total	0.00%	0.00%

All Goods Vehicles + PSV's

	2012	2017
Eastbound	0.00%	0.00%
Westbound	0.00%	0.00%
Total	0.00%	0.00%

OGV2's + PSV's

	2012	2017
Eastbound	0.00%	0.00%
Westbound	0.00%	0.00%
Total	0.00%	0.00%

West of Interchange

100%

All Vehicles

	2012	2017
Eastbound	0.78%	0.74%
Westbound	0.77%	0.73%
Total	0.77%	0.73%

All Goods Vehicles + PSV's

	2012	2017
Eastbound	3.30%	3.13%
Westbound	3.30%	3.13%
Total	3.30%	3.13%

OGV2's + PSV's

	2012	2017
Eastbound	5.12%	4.85%
Westbound	5.07%	4.81%
Total	5.09%	4.83%

A17 Kirkby La Thorpe Interchange

ASSESSMENT OF LINK FLOW TRAFFIC IMPACT: A17 KIRKBY LA THORPE

TYPICAL DAILY DEMAND SCENARIO - SENSITIVITY DISTRIBUTION (80% WEST / 20% EAST)

BACKGROUND DEMAND

All Vehicles

	2006	2012	2017
Eastbound	8123	8748	9224
Westbound	8209	8841	9322
Total	16332	17589	18547

All Goods Vehicles + PSV's

	2006	2012	2017
Eastbound	1407	1515	1598
Westbound	1408	1516	1599
Total	2815	3032	3197

OGV2's + PSV's

	2006	2012	2017
Eastbound	907	977	1030
Westbound	916	986	1040
Total	1823	1963	2070

DEVELOPMENT TRAFFIC DEMAND (TYPICAL DAYTIME SCENARIO)

East of Interchange

20%

All Vehicles

	2012	2017
Eastbound	14	14
Westbound	14	14
Total	28	28

All Goods Vehicles + PSV's

	2012	2017
Eastbound	10	10
Westbound	10	10
Total	20	20

OGV2's + PSV's

	2012	2017
Eastbound	10	10
Westbound	10	10
Total	20	20

West of Interchange

80% + east exit 'U' turns

All Vehicles

	2012	2017
Eastbound	64	64
Westbound	64	64
Total	128	128

All Goods Vehicles + PSV's

	2012	2017
Eastbound	50	50
Westbound	50	50
Total	100	100

OGV2's + PSV's

	2012	2017
Eastbound	50	50
Westbound	50	50
Total	100	100

DEVELOPMENT TRAFFIC IMPACT (TYPICAL DAYTIME SCENARIO)

East of Interchange

20%

All Vehicles

	2012	2017
Eastbound	0.16%	0.15%
Westbound	0.16%	0.15%
Total	0.16%	0.15%

All Goods Vehicles + PSV's

	2012	2017
Eastbound	0.66%	0.63%
Westbound	0.66%	0.63%
Total	0.66%	0.63%

OGV2's + PSV's

	2012	2017
Eastbound	1.02%	0.97%
Westbound	1.01%	0.96%
Total	1.02%	0.97%

West of Interchange

80% + east exit 'U' turns

All Vehicles

	2012	2017
Eastbound	0.73%	0.69%
Westbound	0.72%	0.69%
Total	0.73%	0.69%

All Goods Vehicles + PSV's

	2012	2017
Eastbound	3.30%	3.13%
Westbound	3.30%	3.13%
Total	3.30%	3.13%

OGV2's + PSV's

	2012	2017
Eastbound	5.12%	4.85%
Westbound	5.07%	4.81%
Total	5.09%	4.83%

A17 Kirkby La Thorpe Interchange

ASSESSMENT OF LINK FLOW TRAFFIC IMPACT: A17 KIRKBY LA THORPE

ABSOLUTE WORST CASE DEMAND SCENARIO - BASE DISTRIBUTION (100% WEST)

BACKGROUND DEMAND

All Vehicles

	2006	2012	2017
Eastbound	8123	8748	9224
Westbound	8209	8841	9322
Total	16332	17589	18547

All Goods Vehicles + PSV's

	2006	2012	2017
Eastbound	1407	1515	1598
Westbound	1408	1516	1599
Total	2815	3032	3197

OGV2's + PSV's

	2006	2012	2017
Eastbound	907	977	1030
Westbound	916	986	1040
Total	1823	1963	2070

DEVELOPMENT TRAFFIC DEMAND (ABSOLUTE WORST CASE SCENARIO)

East of Interchange

0%

All Vehicles

	2012	2017
Eastbound	0	0
Westbound	0	0
Total	0	0

All Goods Vehicles + PSV's

	2012	2017
Eastbound	0	0
Westbound	0	0
Total	0	0

OGV2's + PSV's

	2012	2017
Eastbound	0	0
Westbound	0	0
Total	0	0

West of Interchange

100%

All Vehicles

	2012	2017
Eastbound	114	114
Westbound	114	114
Total	228	228

All Goods Vehicles + PSV's

	2012	2017
Eastbound	96	96
Westbound	96	96
Total	192	192

OGV2's + PSV's

	2012	2017
Eastbound	96	96
Westbound	96	96
Total	192	192

DEVELOPMENT TRAFFIC IMPACT (ABSOLUTE WORST CASE SCENARIO)

East of Interchange

0%

All Vehicles

	2012	2017
Eastbound	0.00%	0.00%
Westbound	0.00%	0.00%
Total	0.00%	0.00%

All Goods Vehicles + PSV's

	2012	2017
Eastbound	0.00%	0.00%
Westbound	0.00%	0.00%
Total	0.00%	0.00%

OGV2's + PSV's

	2012	2017
Eastbound	0.00%	0.00%
Westbound	0.00%	0.00%
Total	0.00%	0.00%

West of Interchange

100%

All Vehicles

	2012	2017
Eastbound	1.30%	1.24%
Westbound	1.29%	1.22%
Total	1.30%	1.23%

All Goods Vehicles + PSV's

	2012	2017
Eastbound	6.34%	6.01%
Westbound	6.33%	6.00%
Total	6.33%	6.01%

OGV2's + PSV's

	2012	2017
Eastbound	9.83%	9.32%
Westbound	9.73%	9.23%
Total	9.78%	9.27%

A17 Kirkby La Thorpe Interchange

ASSESSMENT OF LINK FLOW TRAFFIC IMPACT: A17 KIRKBY LA THORPE

ABSOLUTE WORST CASE DEMAND SCENARIO - SENSITIVITY DISTRIBUTION (80% WEST / 20% EAST)

BACKGROUND DEMAND

All Vehicles

	2006	2012	2017
Eastbound	8123	8748	9224
Westbound	8209	8841	9322
Total	16332	17589	18547

All Goods Vehicles + PSV's

	2006	2012	2017
Eastbound	1407	1515	1598
Westbound	1408	1516	1599
Total	2815	3032	3197

OGV2's + PSV's

	2006	2012	2017
Eastbound	907	977	1030
Westbound	916	986	1040
Total	1823	1963	2070

DEVELOPMENT TRAFFIC DEMAND (ABSOLUTE WORST CASE SCENARIO)

East of Interchange

20%

All Vehicles

	2012	2017
Eastbound	23	23
Westbound	23	23
Total	46	46

All Goods Vehicles + PSV's

	2012	2017
Eastbound	19	19
Westbound	19	19
Total	38	38

OGV2's + PSV's

	2012	2017
Eastbound	19	19
Westbound	19	19
Total	38	38

West of Interchange

80% + east exit 'U' turns

All Vehicles

	2012	2017
Eastbound	110	110
Westbound	110	110
Total	220	220

All Goods Vehicles + PSV's

	2012	2017
Eastbound	96	96
Westbound	96	96
Total	192	192

OGV2's + PSV's

	2012	2017
Eastbound	96	96
Westbound	96	96
Total	192	192

DEVELOPMENT TRAFFIC IMPACT (ABSOLUTE WORST CASE SCENARIO)

East of Interchange

20%

All Vehicles

	2012	2017
Eastbound	0.26%	0.25%
Westbound	0.26%	0.25%
Total	0.26%	0.25%

All Goods Vehicles + PSV's

	2012	2017
Eastbound	1.25%	1.19%
Westbound	1.25%	1.19%
Total	1.25%	1.19%

OGV2's + PSV's

	2012	2017
Eastbound	1.95%	1.84%
Westbound	1.93%	1.83%
Total	1.94%	1.84%

West of Interchange

80% + east exit 'U' turns

All Vehicles

	2012	2017
Eastbound	1.26%	1.19%
Westbound	1.24%	1.18%
Total	1.25%	1.19%

All Goods Vehicles + PSV's

	2012	2017
Eastbound	6.34%	6.01%
Westbound	6.33%	6.00%
Total	6.33%	6.01%

OGV2's + PSV's

	2012	2017
Eastbound	9.83%	9.32%
Westbound	9.73%	9.23%
Total	9.78%	9.27%