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## Norwich Western Link Environmental Statement Chapter 19: Traffic and Transport Appendix 19.6: Traffic Link Screening

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## 1 Introduction

1.1.1 We have included a summary of key information shown in this document in an accessible format. However, some users may not be able to access all technical details. If you require this document in a more accessible format please contact <a href="mailto:norwichwesternlink@norfolk.gov.uk">norwichwesternlink@norfolk.gov.uk</a>

## 1.2 Link Screening

- 1.2.1 Figure showing links within the study area (approximately 5km from the Redline Boundary) which have been screened to identify those scoped in for assessment in line with the IEMA guidelines: thus:
  - Rule 1: Include highway links where traffic flows will increase by more than 30% (or the number of heavy goods vehicles will increase by more than 30%)
  - Rule 2: Include any other specifically sensitive areas (hospitals, schools, nurseries, nursing homes, a high concentration of residential dwellings and facilities and amenities, areas with high tourist footfall, significant pedestrian/cycle desire lines) where traffic flows have increased by 10% or more
- 1.2.2 For each link, flows on the network have been shown for four scenarios, thus:
  - 1. **Scenario**1: Link flows without the proposed mitigation in place for future year 2029
  - 2. **Scenario 2**: Link flows without the proposed mitigation in place for future year 2044
  - 3. **Scenario 3**: Link flows with the proposed mitigation in place for future year 2029
  - 4. **Scenario 4**: Link flows with the proposed mitigation in place for future year 2044



Figure 1-1 Links within the study area scoped in for assessment (Scenario 1: Link flows without the proposed mitigation in place for future year 2029)

						20	)29	Without	Mitigatio	า							
	Rule 1	>=30% Change in Traffic Flow															
	Rule 2	High Sensitivity + >10% Change in Traffic															
	Rule 1	>=-30% Change in Traffic Flow															
	Rule 2	High Sensitivity + >-10% Change in Traffic															
enario		-				Link	Screenin	g (2029)									
ithout		All Vehicles HGV													Link Selection		
OBJECTID	Street_Name	Junction_or_Between	F 2Way DM AADT	F2wayDSAADT	F2wayDSMH on	DS-DM	DS-DM%	F 2Way DM AADT	F2wayDSAA DT	F2wayDSMH on	Diff DMvDSMit	Diff DMvDSMit	DS-DM	DS-DM%	Rule 2	Rule 1	
14	Brick Kiln Road	B1149	1030	1460	1260	430	42%	0	20	10	20	10	20	0%	N/A	SELECTE	
16	Shortthorn Road	B1149 & Serpentine Lane	3360	5580	1220	2220	66%	40	60	20	20	-20	20	50%	N/A	SELECTE	
18	Bell Road	Mill Road & Norwich Road	1000	1330	1050	330	33%	40	50	0	10	-40	10	25%	SELECTED	SELECTE	
20	Honingham Road	Mill Road	760	1080	660	320	42%	30	50	0	20	-30	20	67%	N/A	SELECTE	
24	Low Road	Hospital Lane	6740	7080	6960	340	5%	20	50	50	30	30	30	150%	N/A	N/A	
64	Ringland Lane	The Street & Church Street	190	310	240	120	63%	0	0	0	0	0	0	0%	N/A	SELECTE	
92	Mattishall Road	Norwich Road & Barnham Broom Road	1600	2060	1810	460	29%	60	80	50	20	-10	20	33%	N/A	N/A	
103	Norwich Road / Dereham Road	Berry's Lane & A47	170	600	440	430	253%	40	60	40	20	0	20	50%	SELECTED	SELECTE	
108	Burgh Lane	Dereham Road & Mattishall Lane	1690	2230	2340	540	32%	50	60	60	10	10	10	20%	N/A	SELECTE	
109	South Green / Mill Street	South of Norwich Road	1980	2360	2570	380	19%	40	60	60	20	20	20	50%	SELECTED	N/A	
117	The Common	East of Heath Road	4540	4410	4440	-130	-3%	100	130	130	30	30	30	30%	SELECTED	N/A	
118	Heath Road	The Common & Blind Lane	4540	4410	4440	-130	-3%	100	130	130	30	30	30	30%	N/A	N/A	
140	A47	Taverham Road & Dereham Road	1410	2070	1990	660	47%	40	50	50	10	10	10	25%	N/A	SELECTE	
165	Old Fakenham Road	Fakenham Road & Station Road	1660	2810	1120	1150	69%	30	50	40	20	10	20	67%	SELECTED	SELECTE	
228	Taverham Road	The Street & Reepham Road	3240	7040	3190	3800	117%	20	70	30	50	10	50	250%	SELECTED	SELECTE	
230	The Street, Felthorpe	Mill Lane & Bilney Lane	3900	7240	3010	3340	86%	50	90	40	40	-10	40	80%	SELECTED	SELECTE	
248	A1270	Fakenham Road & Fir Covert Road	11990	29900	29570	17910	149%	380	810	800	430	420	430	113%	N/A	SELECTE	
254	A1270	Reepham Road & Drayton Lane	21950	29230	32110	7280	33%	480	830	860	350	380	350	73%	N/A	SELECTE	
255	A1270	Reepham Road & Drayton Lane	21950	29230	32110	7280	33%	480	830	860	350	380	350	73%	N/A	SELECTE	
262	Norwich Road / Dereham Road	Wood Lane & A47	220	960	810	740	336%	50	70	60	20	10	20	40%	N/A	SELECTED	



Figure 1-2 - Links within the study area scoped in for assessment (Scenario 1: Link flows without the proposed mitigation in place for future year 2044)

			2044 Without Mitigation													
	Rule 1	>=30% Change in Traffic Flow			Ĺ	2044	VVIIIIOUL IVI	iligation								
	Rule 2	High Sensitivity + >10% Change in Traffic														
	Rule 1	>=-30% Change in Traffic Flow														
I	Rule 2	High Sensitivity + >-10% Change in Traffic														
Scenario	rtuio 2	1 1					Link Scree	nina (2044	.)							
Without Mitigation			All Vehicles HGV													
OBJECTID	Street_Name	Junction_or_Between	F 2Way DM AADT	F2wayDSAADT	F2wayDSMH on	DS-DM	DS-DM%	F 2Way DM AADT	F2wayDSAA DT	F2wayDSMH on	Diff DMvDSMit	Diff DMvDSMit	DS-DM	DS-DM%	Rule 2	Rule 1
14	Brick Kiln Road	B1149	1540	1870	1960	330	21%	0	20	10	20	10	20	0%	N/A	N/A
16	Shortthorn Road	B1149 & Serpentine Lane	3890	6170	1450	2280	59%	40	60	20	20	-20	20	50%	N/A	SELECTED
18	Bell Road	Mill Road & Norwich Road	1130	1920	1190	790	70%	40	50	0	10	-40	10	25%	SELECTED	SELECTED
20	Honingham Road	Mill Road	960	1700	880	740	77%	30	50	0	20	-30	20	67%	N/A	SELECTED
24	Low Road	Hospital Lane	7710	8200	8000	490	6%	20	50	50	30	30	30	150%	N/A	SELECTED
64	Ringland Lane	The Street & Church Street	160	320	240	160	100%	0	0	0	0	0	0	0%	N/A	SELECTED
92	Mattishall Road	Norwich Road & Barnham Broom Road	1920	2840	2190	920	48%	60	80	50	20	-10	20	33%	N/A	SELECTED
103	Norwich Road / Dereham Road	Berry's Lane & A47	270	990	660	720	267%	40	60	40	20	0	20	50%	SELECTED	SELECTED
108	Burgh Lane	Dereham Road & Mattishall Lane	1890	2460	2580	570	30%	50	60	60	10	10	10	20%	SELECTED	SELECTED
109	South Green / Mill Street	South of Norwich Road	2390	2730	3000	340	14%	40	60	60	20	20	20	50%	SELECTED	SELECTED
117	The Common	East of Heath Road	4940	4850	4900	-90	-2%	100	130	130	30	30	30	30%	SELECTED	SELECTED
118	Heath Road	The Common & Blind Lane	4940	4850	4900	-90	-2%	100	130	130	30	30	30	30%	N/A	SELECTED
140	A47	Taverham Road & Dereham Road	2360	2840	2750	480	20%	40	50	50	10	10	10	25%	N/A	N/A
165	Old Fakenham Roa	Fakenham Road & Station Road	1510	3040	1120	1530	101%	30	50	40	20	10	20	67%	SELECTED	SELECTED
228	Taverham Road	The Street & Reepham Road	4510	8140	4350	3630	80%	20	70	30	50	10	50	250%	SELECTED	SELECTED
230	The Street, Felthorp	oe Mill Lane & Bilney Lane	5120	8340	4160	3220	63%	50	90	40	40	-10	40	80%	SELECTED	SELECTED
248	A1270	Fakenham Road & Fir Covert Road	16010	39460	39660	23450	146%	380	810	800	430	420	430	113%	N/A	SELECTED
254	A1270	Reepham Road & Drayton Lane	27920	36470	40040	8550	31%	480	830	860	350	380	350	73%	N/A	SELECTED
255	A1270	Reepham Road & Drayton Lane	27920	36470	40040	8550	31%	480	830	860	350	380	350	73%	N/A	SELECTED
262	Norwich Road / Dereham Road	Wood Lane & A47	330	1630	1310	1300	394%	50	70	60	20	10	20	40%	N/A	SELECTED



Figure 1-3 Links within the study area scoped in for assessment (Scenario 1: Link flows with the proposed mitigation in place for future year 2029)

		mi the study area scop														
						20	)29	With Mit	igation							
	Rule 1	>=30% Change in Traffic Flow			<u> </u>											
	Rule 2	High Sensitivity + >10% Change in Traffic														
	Rule 1	>=-30% Change in Traffic Flow														
	Rule 2	High Sensitivity + >-10% Change in Traffic														
Scenario						Link	Screenin	g (2029)								
With Mitigation					All Vehicles	3					HG	V			Link Se	election
OBJECTID	Street_Name	Junction_or_Between	F 2Way DM AADT	F2wayDSAADT	F2wayDSMH on	DSM-DM	DSM-DM%	F 2Way DM AADT	F2wayDSAA DT	F2wayDSMH on	Diff DMvDSMit	Diff DMvDSMit	DSM-DM	DSM-DM%	Rule 2	Rule 1
14	Brick Kiln Road	B1149	1030	1460	1260	230	22%	0	20	10	20	10	10	0%	N/A	N/A
16	Shortthorn Road	B1149 & Serpentine Lane	3360	5580	1220	-2140	-64%	40	60	20	20	-20	-20	-50%	N/A	N/A
18	Bell Road	Mill Road & Norwich Road	1000	1330	1050	50	5%	40	50	0	10	-40	-40	-100%	N/A	N/A
20	Honingham Road	Mill Road	760	1080	660	-100	-13%	30	50	0	20	-30	-30	-100%	N/A	N/A
24	Low Road	Hospital Lane	6740	7080	6960	220	3%	20	50	50	30	30	30	150%	N/A	N/A
64	Ringland Lane	The Street & Church Street	190	310	240	50	26%	0	0	0	0	0	0	0%	N/A	N/A
92	Mattishall Road	Norwich Road & Barnham Broom Road	1600	2060	1810	210	13%	60	80	50	20	-10	-10	-17%	N/A	N/A
103	Norwich Road / Dereham Road	Berry's Lane & A47	170	600	440	270	159%	40	60	40	20	0	0	0%	SELECTED	SELECTED
108	Burgh Lane	Dereham Road & Mattishall Lane	1690	2230	2340	650	38%	50	60	60	10	10	10	20%	N/A	SELECTED
109	South Green / Mill Street	South of Norwich Road	1980	2360	2570	590	30%	40	60	60	20	20	20	50%	SELECTED	N/A
117	The Common	East of Heath Road	4540	4410	4440	-100	-2%	100	130	130	30	30	30	30%	SELECTED	N/A
118	Heath Road	The Common & Blind Lane	4540	4410	4440	-100	-2%	100	130	130	30	30	30	30%	N/A	N/A
140	A47	Taverham Road & Dereham Road	1410	2070	1990	580	41%	40	50	50	10	10	10	25%	N/A	SELECTED
165	Old Fakenham Road	Fakenham Road & Station Road	1660	2810	1120	-540	-33%	30	50	40	20	10	10	33%	SELECTED	N/A
228	Taverham Road	The Street & Reepham Road	3240	7040	3190	-50	-2%	20	70	30	50	10	10	50%	SELECTED	N/A
230	The Street, Felthorpe	Mill Lane & Bilney Lane	3900	7240	3010	-890	-23%	50	90	40	40	-10	-10	-20%	N/A	N/A
248	A1270	Fakenham Road & Fir Covert Road	11990	29900	29570	17580	147%	380	810	800	430	420	420	111%	N/A	SELECTED
254	A1270	Reepham Road & Drayton Lane	21950	29230	32110	10160	46%	480	830	860	350	380	380	79%	N/A	SELECTED
255	A1270	Reepham Road & Drayton Lane	21950	29230	32110	10160	46%	480	830	860	350	380	380	79%	N/A	SELECTED
262	Norwich Road / Dereham Road	Wood Lane & A47	220	960	810	590	268%	50	70	60	20	10	10	20%	N/A	SELECTED



Figure 1-4 Links within the study area scoped in for assessment (Scenario 1: Link flows with the proposed mitigation in place for future year 2044)

			2044 With Mitigation													
		>=30% Change in Traffic Flow			L	2044	vvitri iviitiga	auon								
	Rule 1	High Sensitivity + >10% Change in Traffic														
	Rule 1	>=-30% Change in Traffic Flow														
	Rule 2	High Sensitivity + >-10% Change in Traffic														
Scenario							Link Scree	ning (2044	)							
With Mitigation		All Vehicles HGV														
OBJECTID	Street_Name	Junction_or_Between	F 2Way DM AADT	F2wayDSAADT	F2wayDSMH on	DSM-DM	DSM-DM%	F 2Way DM AADT	F2wayDSAA DT	F2wayDSMH on	Diff DMvDSMit	Diff DMvDSMit	DSM-DM	DSM-DM%	Rule 2	Rule 1
14	Brick Kiln Road	B1149	1540	1870	1960	420	27%	0	20	10	20	10	10	0%	N/A	N/A
16	Shortthorn Road	B1149 & Serpentine Lane	3890	6170	1450	-2440	-63%	40	60	20	20	-20	-20	-50%	N/A	N/A
18	Bell Road	Mill Road & Norwich Road	1130	1920	1190	60	5%	40	50	0	10	-40	-40	-100%	N/A	N/A
20	Honingham Road	Mill Road	960	1700	880	-80	-8%	30	50	0	20	-30	-30	-100%	N/A	N/A
24	Low Road	Hospital Lane	7710	8200	8000	290	4%	20	50	50	30	30	30	150%	N/A	SELECTED
64	Ringland Lane	The Street & Church Street	160	320	240	80	50%	0	0	0	0	0	0	0%	N/A	SELECTED
92	Mattishall Road	Norwich Road & Barnham Broom Road	1920	2840	2190	270	14%	60	80	50	20	-10	-10	-17%	N/A	N/A
103	Norwich Road / Dereham Road	Berry's Lane & A47	270	990	660	390	144%	40	60	40	20	0	0	0%	SELECTED	SELECTED
108	Burgh Lane	Dereham Road & Mattishall Lane	1890	2460	2580	690	37%	50	60	60	10	10	10	20%	SELECTED	SELECTED
109	South Green / Mill Street	South of Norwich Road	2390	2730	3000	610	26%	40	60	60	20	20	20	50%	SELECTED	SELECTED
117	The Common	East of Heath Road	4940	4850	4900	-40	-1%	100	130	130	30	30	30	30%	SELECTED	SELECTED
118	Heath Road	The Common & Blind Lane	4940	4850	4900	-40	-1%	100	130	130	30	30	30	30%	N/A	SELECTED
140	A47	Taverham Road & Dereham Road	2360	2840	2750	390	17%	40	50	50	10	10	10	25%	N/A	N/A
165	Old Fakenham Road	Fakenham Road & Station Road	1510	3040	1120	-390	-26%	30	50	40	20	10	10	33%	SELECTED	SELECTED
228	Taverham Road	The Street & Reepham Road	4510	8140	4350	-160	-4%	20	70	30	50	10	10	50%	SELECTED	SELECTED
230	The Street, Felthorp	e Mill Lane & Bilney Lane	5120	8340	4160	-960	-19%	50	90	40	40	-10	-10	-20%	N/A	N/A
248	A1270	Fakenham Road & Fir Covert Road	16010	39460	39660	23650	148%	380	810	800	430	420	420	111%	N/A	SELECTED
254	A1270	Reepham Road & Drayton Lane	27920	36470	40040	12120	43%	480	830	860	350	380	380	79%	N/A	SELECTED
255	A1270	Reepham Road & Drayton Lane	27920	36470	40040	12120	43%	480	830	860	350	380	380	79%	N/A	SELECTED
262	Norwich Road / Dereham Road	Wood Lane & A47	330	1630	1310	980	297%	50	70	60	20	10	10	20%	N/A	SELECTED