



Norwich Western Link

Environmental Statement

Chapter 19: Traffic and Transport

Appendix 4: Construction Traffic Significance of Effects

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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 in section 1.2.1. However, some users may not be able to access all technical details that are included in the rest of this document. If you require this document in a more accessible format, please contact norwichwesternlink@norfolk.gov.uk

1.2 Construction Phase Significance Effect

1.2.1 A table showing the significance of the traffic and transport effect during the construction phase. This includes construction traffic of nearby projects planned to be at various stages of construction at the same time as the Proposed Scheme. The significance effect is a product of the receptors' sensitivity shown in Appendix 2 and magnitude of impact shown in Appendix 1. The effects are classified Substantial, Moderate, Minor or Negligible. These effects presented are prior to mitigation via a CEMP or CTMP.

Table 1 Severance Effects During Construction

Severance									
Key	Change in Traffic Flow	LTN 120 Cycle Friendly Routes	(Magnitude / Probability / Reversibility etc)	Receptor (Sensitivity / Value / Importance)					
				High	Medium	Low	Very Low	Negligible	
High	<90%	0 - 2500	Most suitable for cycling	High	Substantial	Substantial	Moderate	Minor	Negligible
Medium	<=60 and >90%	2501 - 5000	Suitable for some cyclists	Medium	Substantial	Moderate	Minor	Minor	Negligible
Low	<=30 and >60%	>5000	Unlikely to be suitable for cycling on carriageway	Low	Moderate	Minor	Minor	Negligible	Negligible
Negligible	<= 0 and >30%			Very Low	Minor	Minor	Negligible	Negligible	Negligible
				Negligible	Negligible	Negligible	Negligible	Negligible	Negligible

Scenario	All Veh
DS2	

Link ID	Link Name	2019 Base Flows	Construction Flows	2019 Base + Construction	DS1-DM	DS1-DM (%)	Receptor Sensitivity	Magnitude	6. PF+EW 20% uplift	
									Effect Significance	Effect Significance
SEP + DEP	A1067 (East of Marl Hill Road)	16206	129	16335	129	1%	Low	Very Low	Negligible	Adverse
	A1067 (West of Marl Hill Road)	16206	0	16206	0	0%	Medium	Very Low	Minor	Adverse
	Marl Hill Road	2829	62	2891	62	2%	Very Low	Very Low	Negligible	Adverse
	Ringland lane	279	62	341	62	22%	Low	Very Low	Negligible	Adverse
	Ringland lane (Haul Road)	0	0	0	0	0%	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane	2829	0	2829	0	0%	Low	Very Low	Negligible	Adverse
	Wood Lane	2829	0	2829	0	0%	Low	Very Low	Negligible	Adverse
	A47 from Wood Lane to Taverham Road	24851	472	25323	472	2%	Very Low	Very Low	Negligible	Adverse
	A47 from Blind Lane to Dereham Road	24700	472	25172	472	2%	Very Low	Very Low	Negligible	Adverse
	A47 from Dereham Road to A1074	35039	417	35456	417	1%	Very Low	Very Low	Negligible	Adverse
	A47 (West of Wood Lane)	24851	0	24851	0	0%	Very Low	Very Low	Negligible	Adverse
	A1270 from A1067 to Fir Covert Road	8183	81	8264	81	1%	Very Low	Very Low	Negligible	Adverse
	4. PF+EW 20% uplift North only									
NWL	A1067 (East of Marl Hill Road)	16206	240	16446	240	1%	Low	Very Low	Negligible	Adverse
	A1067 (West of Marl Hill Road)	16206	508	16714	508	3%	Medium	Very Low	Minor	Adverse
	Marl Hill Road	2829	494	3323	494	17%	Very Low	Very Low	Negligible	Adverse
	Ringland lane	279	247	526	247	89%	Low	Medium	Minor	Adverse
	Ringland lane (Haul Road)	0	247	247	247	0%	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane	2829	82	2911	82	3%	Low	Very Low	Negligible	Adverse
	Wood Lane	2829	82	2911	82	3%	Low	Very Low	Negligible	Adverse
	A47 from Wood Lane to Taverham Road	24851	60	24911	60	0%	Very Low	Very Low	Negligible	Adverse
	A47 from Blind Lane to Dereham Road	24700	60	24760	60	0%	Very Low	Very Low	Negligible	Adverse
	A47 from Dereham Road to A1074	35039	60	35099	60	0%	Very Low	Very Low	Negligible	Adverse
	A47 (West of Wood Lane)	24851	60	24911	60	0%	Very Low	Very Low	Negligible	Adverse
	A1270 from A1067 to Fir Covert Road	8183	508	8691	508	6%	Very Low	Very Low	Negligible	Adverse
	Combined									
Combined	A1067 (East of Marl Hill Road)	16206	369	16575	369	2%	Low	Very Low	Negligible	Adverse
	A1067 (West of Marl Hill Road)	16206	508	16714	508	3%	Medium	Very Low	Minor	Adverse
	Marl Hill Road	2829	556	3385	556	20%	Very Low	Very Low	Negligible	Adverse
	Ringland lane	279	309	588	309	111%	Low	High	Moderate	Adverse
	Ringland lane (Haul Road)	0	247	247	247	0%	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane	2829	82	2911	82	3%	Low	Very Low	Negligible	Adverse
	Wood Lane	2829	82	2911	82	3%	Low	Very Low	Negligible	Adverse
	A47 from Wood Lane to Taverham Road	24851	532	25383	532	2%	Very Low	Very Low	Negligible	Adverse
	A47 from Blind Lane to Dereham Road	24700	532	25232	532	2%	Very Low	Very Low	Negligible	Adverse
	A47 from Dereham Road to A1074	35039	477	35516	477	1%	Very Low	Very Low	Negligible	Adverse
	A47 (West of Wood Lane)	24851	60	24911	60	0%	Very Low	Very Low	Negligible	Adverse
	A1270 from A1067 to Fir Covert Road	8183	589	8772	589	7%	Very Low	Very Low	Negligible	Adverse

4. PF+EW 20% uplift North only		8. PF+EW 20% Uplift south only	
Effect Significance		Effect Significance	
Negligible	Adverse	Negligible	Adverse
Minor	Adverse	Minor	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
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Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse
Negligible	Adverse	Negligible	Adverse

Table 2 NMU Delay Effects During Construction

NMU Delay														
Construction	Link Name	Change in Traffic Flow/Day (DMRB LA112) Table 3.11			TAG Unit A4.1 Severance Sensitivity Table 5.1					Receptor (Sensitivity / Value / Importance)				
		Base Flows	Construction Flows	Base + Construction	High	Medium	Low	Very Low	Negligible	High	Medium	Low	Very Low	Negligible
SEP + DEP	A1067 (East of Marl Hill Road)	16206	120	16326	High	High	High	Low	Low	Very Low	Low	Low	Minor	Adverse
	A1067 (West of Marl Hill Road)	16206	0	16206	High	High	High	Low	Low	Very Low	Low	Medium	Minor	Adverse
	Marl Hill Road	2829	62	2891	Very Low	Very Low	Very Low	Low	Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland lane	0	0	0	Very Low	Very Low	Very Low	Low	Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland lane (Haul Road)	0	0	0	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane	2829	0	2829	Very Low	Very Low	Very Low	Medium	Medium	Very Low	Very Low	Low	Negligible	Adverse
	Wood Lane	2829	0	2829	Very Low	Very Low	Very Low	Medium	Medium	Very Low	Very Low	Low	Negligible	Adverse
	A47 from Wood Lane to Taverham Road	24851	472	25323	High	High	High	High	High	Very Low	Low	Very Low	Negligible	Adverse
	A47 from Blind Lane to Dereham Road	24700	472	25172	High	High	High	High	High	Very Low	Low	Very Low	Negligible	Adverse
	A47 from Dereham Road to A1074	35039	417	35456	High	High	High	High	High	Very Low	Low	Very Low	Negligible	Adverse
NWL	A47 (West of Wood Lane)	24851	0	24851	High	High	High	High	High	Very Low	Low	Very Low	Negligible	Adverse
	A1270 from A1067 to Fir Covert Road	8183	81	8264	Medium	Medium	Medium	High	High	Very Low	Low	Very Low	Negligible	Adverse
	A1067 (East of Marl Hill Road)	16206	240	16446	High	High	High	Low	Low	Very Low	Low	Low	Minor	Adverse
	A1067 (West of Marl Hill Road)	16206	508	16714	High	High	High	Low	Low	Very Low	Low	Medium	Minor	Adverse
	Marl Hill Road	2829	494	3323	Very Low	Very Low	Very Low	Low	Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland lane	279	247	526	Very Low	Very Low	Very Low	Low	Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland lane (Haul Road)	0	247	247	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane	2829	82	2911	Very Low	Very Low	Very Low	Medium	Medium	Very Low	Very Low	Low	Negligible	Adverse
	Wood Lane	2829	82	2911	Very Low	Very Low	Very Low	Medium	Medium	Very Low	Very Low	Low	Negligible	Adverse
	A47 from Wood Lane to Taverham Road	24851	60	24911	High	High	High	High	High	Very Low	Low	Very Low	Negligible	Adverse
Combined	A47 from Blind Lane to Dereham Road	24700	60	24760	High	High	High	High	High	Very Low	Low	Very Low	Negligible	Adverse
	A47 from Dereham Road to A1074	35039	60	35099	High	High	High	High	High	Very Low	Low	Very Low	Negligible	Adverse
	A47 (West of Wood Lane)	24851	60	24911	High	High	High	High	High	Very Low	Low	Very Low	Negligible	Adverse
	A1270 from A1067 to Fir Covert Road	8183	589	8911	Medium	Medium	Medium	High	High	Very Low	Low	Very Low	Negligible	Adverse
	A1067 (East of Marl Hill Road)	16206	369	16575	High	High	High	Low	Low	Very Low	Low	Low	Minor	Adverse
	A1067 (West of Marl Hill Road)	16206	508	16714	High	High	High	Low	Low	Very Low	Low	Medium	Minor	Adverse
	Marl Hill Road	2829	586	3415	Very Low	Very Low	Very Low	Low	Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland lane	279	309	588	Very Low	Very Low	Very Low	Low	Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland lane (Haul Road)	0	247	247	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane	2829	82	2911	Very Low	Very Low	Very Low	Medium	Medium	Very Low	Very Low	Low	Negligible	Adverse

Severance may be classified according to the following four broad levels.

- None - Little or no hindrance to pedestrian movement.
- Slight - All people wishing to make pedestrian movements will be able to do so, but there will probably be some hindrance to movement.
- Moderate - Pedestrian journeys will be longer or less attractive; some people are likely to be dissuaded from making some journeys on foot.
- Severe - People are likely to be deterred from making pedestrian journeys to an extent sufficient to induce a reorganisation of their activities. In some cases, this could lead to a change in the location of centres of activity or to a permanent loss of access to certain facilities for a particular community. Those who do make journeys on foot will experience considerable hindrance.

For consistency with scoring for the entire assessment the following conversions have been made

None Very Low
 Slight Low
 Moderate Medium
 Severe High

Table 3 NMU Amenity Effects During Construction

NMU Amenity													
Key	Change in Traffic Flow	LTN 120 Cycle Friendly Routes		Receptor (Sensitivity / Value L)									
		0 - 2500	2501 - 5000	5000	High	Medium	Low	Very Low	Negligible				
High	>160%	Most suitable for cycling											
Medium	>130 and <=160%	Suitable for some cyclists											
Low	>100% and <=130%	Unlikely to be suitable for cycling on carriageway											
Very Low	<100%												
Scenario	DS2	Footway Width (m)		(Magnitude / Probability / Reversibility etc)									
		High	Medium		Low	Very Low	Negligible						
DS1	Road Scheme Impact Assessment	High	0.0-2.0m	High									
DS2	Road Scheme+4000 Homes Impact Assessment	Medium	2.0-2.2m	Medium									
		Low	2.2m-3.3m	Low									
		Very Low	>3.3m	Very Low									

Construction	Link Name	2019 Base Flows	Construction Flows	2019 Base + NWL Construction	DS1-DM	DS1-DM (%)	Footway Width (DM)	Footway Width Sensitivity	Receptor Sensitivity	Overall Receptor Sensitivity	Magnitude	6. PF+EW 20% uplift		
												Effect Significance	Effect Significance	
SEP + DEP	A1067 (East of Marl Hill Road)	16206	129	16335	129	1%	0	High	Low	Medium	Very Low	Minor	Adverse	
	A1067 (West of Marl Hill Road)	16206	0	16206	0	0%	1	High	Medium	High	Very Low	Minor	Adverse	
	Marl Hill Road	2829	62	2891	62	2%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	Ringland lane	279	62	341	62	22%	0	High	Low	Medium	Very Low	Minor	Adverse	
	Ringland lane (Haul Road)	0	0	0	0	0%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	Paddy's Lane	2829	0	2829	0	0%	0	High	Low	Medium	Very Low	Minor	Adverse	
	Wood Lane	2829	0	2829	0	0%	0	High	Low	Medium	Very Low	Minor	Adverse	
	A47 from Wood Lane to Taverham Road	24851	472	25323	472	2%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	A47 from Blind Lane to Dereham Road	24700	472	25172	472	2%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	A47 from Dereham Road to A1074	35039	417	35456	417	1%	1	High	Very Low	Low	Very Low	Negligible	Adverse	
NWL	A47 (West of Wood Lane)	24851	0	24851	0	0%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	A1270 from A1067 to Fir Covert Road	8183	81	8264	81	1%	2.3	Medium	Very Low	Low	Very Low	Negligible	Adverse	
	A1067 (East of Marl Hill Road)	16206	240	16446	240	1%	0	High	Low	Medium	Very Low	Minor	Adverse	
	A1067 (West of Marl Hill Road)	16206	508	16714	508	3%	1	High	Medium	High	Very Low	Minor	Adverse	
	Marl Hill Road	2829	494	3323	494	17%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	Ringland lane	279	247	526	247	89%	0	High	Low	Medium	Very Low	Minor	Adverse	
	Ringland lane (Haul Road)	0	247	247	247	0%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	Paddy's Lane	2829	82	2911	82	3%	0	High	Low	Medium	Very Low	Minor	Adverse	
	Wood Lane	2829	82	2911	82	3%	0	High	Low	Medium	Very Low	Minor	Adverse	
	A47 from Wood Lane to Taverham Road	24851	60	24911	60	0%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
Combined	A47 from Blind Lane to Dereham Road	24700	60	24760	60	0%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	A47 from Dereham Road to A1074	35039	60	35099	60	0%	1	High	Very Low	Low	Very Low	Negligible	Adverse	
	A47 (West of Wood Lane)	24851	60	24911	60	0%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	A1270 from A1067 to Fir Covert Road	8183	508	8691	508	6%	2.3	Medium	Very Low	Low	Very Low	Negligible	Adverse	
	A1067 (East of Marl Hill Road)	16206	369	16575	369	2%	0	High	Low	Medium	Very Low	Minor	Adverse	
	A1067 (West of Marl Hill Road)	16206	508	16714	508	3%	1	High	Medium	High	Very Low	Minor	Adverse	
	Marl Hill Road	2829	556	3385	556	20%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	Ringland lane	279	309	588	309	111%	0	High	Low	Medium	Very Low	Minor	Adverse	
	Ringland lane (Haul Road)	0	247	247	247	0%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	Paddy's Lane	2829	82	2911	82	3%	0	High	Low	Medium	Very Low	Minor	Adverse	
4. PF+EW 20% uplift North only	Wood Lane	2829	82	2911	82	3%	0	High	Low	Medium	Very Low	Minor	Adverse	
	A47 from Wood Lane to Taverham Road	24851	532	25383	532	2%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	A47 from Blind Lane to Dereham Road	24700	532	25232	532	2%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	A47 from Dereham Road to A1074	35039	477	35516	477	1%	1	High	Very Low	Low	Very Low	Negligible	Adverse	
	A47 (West of Wood Lane)	24851	60	24911	60	0%	0	High	Very Low	Low	Very Low	Negligible	Adverse	
	A1270 from A1067 to Fir Covert Road	8183	589	8772	589	7%	2.3	Medium	Very Low	Low	Very Low	Negligible	Adverse	
	8. PF+EW 20% Uplift south only													
	Effect Significance													
	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse
	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse
Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	
Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	
Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	
Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	Minor	Adverse	
Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	

Table 4 Fear and Intimidation and Degree of Hazard Effects Due to Construction traffic

Fear and Intimidation Degree of Hazard																			
Table 1.1: Fear and intimidation degree of hazard					Table 1.2: Levels of fear and intimidation					Table 1.3: Fear and intimidation: magnitude of impact					Table 1.4: Fear and intimidation: magnitude of impact				
High	Medium	Low	Negligible	High	Medium	Low	Negligible	High	Medium	Low	Negligible	High	Medium	Low	Negligible	High	Medium	Low	Negligible
High	Medium	Low	Negligible	High	Medium	Low	Negligible	High	Medium	Low	Negligible	High	Medium	Low	Negligible	High	Medium	Low	Negligible

Construction	Link ID	Link Name	DM				Construction Traffic				Results for DS1 Road Scheme						4. PE-EW 20% upRt North only		8. PE-EW 20% upRt south only										
			Average 18-Hour Daily Flow	Total 18-hour heavy vehicle flow (H)	Average Speed	Fear and Intimidation Degree of Hazard	Average 18-Hour Daily Flow	Total 18-hour heavy vehicle flow (H)	Average Speed	Fear and Intimidation Degree of Hazard	DS1_Sign Change Level of Eff	Change in Total 18hr Traffic	Change in 18hr HGV Traffic	Magnitude of Impact	Receptor Sensitivity	Effect Significance	Effect Significance	Effect Significance											
SEP + DEP	2157-3622	A1067 (East of Marl Hill Road)	933	460	40	10	0	30	+40	Extreme	946	486	40	10	0	30	+40	Extreme	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse
	2157-2603	A1067 (West of Marl Hill Road)	735	460	50	10	0	30	+40	Extreme	763	914	50	10	0	30	+40	Extreme	0	<400	<500	Negligible	Medium	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse
	2157-7723	Marl Hill Road	262	0	38	0	10	+10	Small	266	55	28	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	2159-3623	Ringland Lane	11	0	25	0	10	+10	Small	14	55	25	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	2159-3623	Ringland Lane (West Road)	11	0	25	0	10	+10	Small	11	0	25	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	7709-7710	Padder's Lane	255	0	37	0	20	+20	Small	255	0	37	0	20	+20	Small	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	7709-7710	Wood Lane	255	0	37	0	20	+20	Small	255	0	37	0	20	+20	Small	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	10059-7991	A47 from Wood Lane to Taverham Road	1241	830	68	20	30	+50	Extreme	1267	1252	68	20	10	30	+60	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
	7990-3009	A47 from Wood Lane to Dereham Road	1246	950	68	20	30	+50	Extreme	1272	1323	68	20	10	30	+60	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
	7990-3009	A47 from Dereham Road to A1074	1246	950	68	20	30	+50	Extreme	1269	950	68	20	10	30	+60	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
2545-2723	A47 (West of Wood Lane)	1122	800	68	10	30	+40	Extreme	1122	800	68	10	30	+40	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse			
8022-9164	A1270 from A1067 to Fr Covert Road	691	400	68	10	30	+40	Extreme	695	472	68	10	30	+40	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse			
NWL	2157-3622	A1067 (East of Marl Hill Road)	933	460	40	10	0	30	+40	Extreme	946	486	40	10	0	30	+40	Extreme	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse
	2157-2603	A1067 (West of Marl Hill Road)	735	460	50	10	0	30	+40	Extreme	763	914	50	10	0	30	+40	Extreme	0	<400	<500	Negligible	Medium	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse
	2157-7723	Marl Hill Road	262	0	38	0	10	+10	Small	266	55	28	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	2159-3623	Ringland Lane	11	0	25	0	10	+10	Small	14	55	25	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	2159-3623	Ringland Lane (West Road)	11	0	25	0	10	+10	Small	11	0	25	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	7709-7710	Padder's Lane	255	0	37	0	20	+20	Small	255	0	37	0	20	+20	Small	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	7709-7710	Wood Lane	255	0	37	0	20	+20	Small	255	0	37	0	20	+20	Small	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	10059-7991	A47 from Wood Lane to Taverham Road	1241	830	68	20	30	+50	Extreme	1244	830	68	20	30	+50	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	7990-3009	A47 from Wood Lane to Dereham Road	1246	950	68	20	30	+50	Extreme	1249	950	68	20	30	+50	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	7990-3009	A47 from Dereham Road to A1074	1246	950	68	20	30	+50	Extreme	1249	950	68	20	30	+50	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
2545-2723	A47 (West of Wood Lane)	1122	800	68	10	30	+40	Extreme	1125	800	68	10	30	+40	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse			
8022-9164	A1270 from A1067 to Fr Covert Road	691	400	68	10	30	+40	Extreme	719	454	68	10	30	+40	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse			
Combined	2157-3622	A1067 (East of Marl Hill Road)	933	460	40	10	0	30	+40	Extreme	953	501	40	10	0	30	+40	Extreme	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse
	2157-2603	A1067 (West of Marl Hill Road)	735	460	50	10	0	30	+40	Extreme	763	914	50	10	0	30	+40	Extreme	0	<400	<500	Negligible	Medium	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse
	2157-7723	Marl Hill Road	262	0	38	0	10	+10	Small	269	59	28	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	2159-3623	Ringland Lane	11	0	25	0	10	+10	Small	14	55	25	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	2159-3623	Ringland Lane (West Road)	11	0	25	0	10	+10	Small	11	0	25	0	10	+10	Small	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	7709-7710	Padder's Lane	255	0	37	0	20	+20	Small	260	0	37	0	20	+20	Small	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	7709-7710	Wood Lane	255	0	37	0	20	+20	Small	260	0	37	0	20	+20	Small	0	<400	<500	Negligible	Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse		
	10059-7991	A47 from Wood Lane to Taverham Road	1241	830	68	20	30	+50	Extreme	1271	1252	68	20	10	30	+60	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
	7990-3009	A47 from Wood Lane to Dereham Road	1246	950	68	20	30	+50	Extreme	1275	1323	68	20	10	30	+60	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
	7990-3009	A47 from Dereham Road to A1074	1246	950	68	20	30	+50	Extreme	1272	1323	68	20	10	30	+60	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse	
2545-2723	A47 (West of Wood Lane)	1122	800	68	10	30	+40	Extreme	1272	800	68	10	30	+40	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse			
8022-9164	A1270 from A1067 to Fr Covert Road	691	400	68	10	30	+40	Extreme	723	456	68	10	30	+40	Extreme	0	<400	<500	Negligible	Very Low	Negligible	Adverse	Negligible	Adverse	Negligible	Adverse			

Table 5 Road safety Effects Due to Construction traffic and Link Sensitivity Assessment

Road Safety Overall Link Sensitivity Assessment																								
Key		IRAP Rating Adapted	Accident Clusters showing		SCENARIO																			
High	1		2 or more killed (K) and/or 5 or more serious injuries (SI)		DS1					Receptor (Sensitivity / Value / Importance)														
Medium	2		1 or more killed (K) and/or 5 or more serious injuries (SI)																					
Low	3		2 or more serious injuries (SI)																					
Very Low	4		5 or more slight injuries																					
Negligible	5																							
Key		Change in Traffic Flow (Day) (DMRB LA112)																						
High		>16000																						
Medium		>8,000 - 16,000																						
Very Low		<4000																						
Construction		Link Name	IRAP Rating	Accident Cluster Rating	Safety Sensitivity (IRAP)	Accident Cluster	Overall Safety + Accident Sensitivity	Receptor Sensitivity	Overall Sensitivity (Accident + IRAP+Receptor Sensitivity)	IRAP Rating	Accident Cluster Rating	Safety Sensitivity (IRAP)	Accident Cluster	Overall Safety + Accident Sensitivity	Receptor Sensitivity	Overall Sensitivity (Accident + IRAP+Receptor Sensitivity)	2019 Base Flows	2019 Base + Construction Traffic	2019 Base Flows Magnitude	2019 Base + Construction Traffic Magnitude	2019 Base Traffic Magnitude Step Change	Sensitivity Step Change	Effect Significance	
																							4. PF+EW 20% uplift North only	8. PF+EW 20% Uplift south only
																							Effect Significance	Effect Significance
SEP + DEP	A1067 (East of Marl Hill Road)		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	16206	16335	High	High	Very Low	Very Low	Negligible	Adverse
	A1067 (West of Marl Hill Road)		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	16206	16206	High	High	Very Low	Very Low	Negligible	Adverse
	Marl Hill Road		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	2829	2891	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland Lane		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	279	341	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland Lane (Hauf Road)		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	0	0	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	2829	2829	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Wood Lane		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	2829	2829	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	A47 from Wood Lane to Taverham Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24851	25323	High	High	Very Low	Very Low	Negligible	Adverse
	A47 from Blind Lane to Dereham Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24700	25172	High	High	Very Low	Very Low	Negligible	Adverse
	A47 from Dereham Road to A1074		2	2	Medium	Medium	Medium	Very Low	Low	2	2	Medium	Medium	Medium	Very Low	Low	35039	35456	High	High	Very Low	Very Low	Negligible	Adverse
A47 (West of Wood Lane)		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24851	24851	High	High	Very Low	Very Low	Negligible	Adverse	
A1270 from A1067 to Fir Covert Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	8183	8264	Medium	Medium	Very Low	Very Low	Negligible	Adverse	
NW	A1067 (East of Marl Hill Road)		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	16206	16446	High	High	Very Low	Very Low	Negligible	Adverse
	A1067 (West of Marl Hill Road)		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	16206	16714	High	High	Very Low	Very Low	Negligible	Adverse
	Marl Hill Road		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	2829	3323	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland Lane		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	279	526	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland Lane (Hauf Road)		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	0	247	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	2829	2911	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Wood Lane		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	2829	2911	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	A47 from Wood Lane to Taverham Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24851	24911	High	High	Very Low	Very Low	Negligible	Adverse
	A47 from Blind Lane to Dereham Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24700	24760	High	High	Very Low	Very Low	Negligible	Adverse
	A47 from Dereham Road to A1074		2	2	Medium	Medium	Medium	Very Low	Low	2	2	Medium	Medium	Medium	Very Low	Low	35039	35099	High	High	Very Low	Very Low	Negligible	Adverse
A47 (West of Wood Lane)		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24851	24911	High	High	Very Low	Very Low	Negligible	Adverse	
A1270 from A1067 to Fir Covert Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	8183	8691	Medium	Medium	Very Low	Very Low	Negligible	Adverse	
Combined	A1067 (East of Marl Hill Road)		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	16206	16575	High	High	Very Low	Very Low	Negligible	Adverse
	A1067 (West of Marl Hill Road)		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	16206	16714	High	High	Very Low	Very Low	Negligible	Adverse
	Marl Hill Road		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	2829	3385	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland Lane		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	279	588	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Ringland Lane (Hauf Road)		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	0	247	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Paddy's Lane		2	5	Medium	Negligible	Very Low	Very Low	Very Low	2	5	Medium	Negligible	Very Low	Very Low	Very Low	2829	2911	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	Wood Lane		3	3	Low	Low	Low	Low	Low	3	3	Low	Low	Low	Low	Low	2829	2911	Very Low	Very Low	Very Low	Very Low	Negligible	Adverse
	A47 from Wood Lane to Taverham Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24851	25383	High	High	Very Low	Very Low	Negligible	Adverse
	A47 from Blind Lane to Dereham Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24700	25232	High	High	Very Low	Very Low	Negligible	Adverse
	A47 from Dereham Road to A1074		2	2	Medium	Medium	Medium	Very Low	Low	2	2	Medium	Medium	Medium	Very Low	Low	35039	35536	High	High	Very Low	Very Low	Negligible	Adverse
A47 (West of Wood Lane)		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	24851	24911	High	High	Very Low	Very Low	Negligible	Adverse	
A1270 from A1067 to Fir Covert Road		2	3	Medium	Low	Low	Very Low	Very Low	2	3	Medium	Low	Low	Very Low	Very Low	8183	8772	Medium	Medium	Very Low	Very Low	Negligible	Adverse	