

Highways and Transportation Written Representations: Plots 1 to 17 inclusive Land Off A17 Adjacent to the River Witham, Beckingham, Lincolnshire

1. Introduction

The Transportation Consultancy (ttc) have been appointed by Beckingham Parish Council (BPC) to undertake a 'traffic and transport' review of a series of planning applications for a Traveller site on a parcel of land off the A17 near Beckingham in Lincolnshire.

2. Planning History

A series of planning applications (17) were registered for a change of use application from equestrian use to residential to accommodate 1 static caravan, 1 touring caravan (parking) brick and tile-built day room, parking for 2 vehicles and associated service roads.

The planning applications are as follows which have been reviewed as part of this Highways and Transportation Written Representations;

- **Plot 1 -17:** - 22/0081/FUL, 22/0083/FUL, 22/0084/FUL, 22/0085/FUL, 22/0086/FUL, 22/0088/FUL, 22/0089/FUL, 22/0090/FUL, 22/0091/FUL, 22/0092/FUL, 22/0093/FUL, 22/0094/FUL, 22/0095/FUL, 22/0096/FUL, 22/0097/FUL, 22/0098/FUL, 22/0099/FUL

The Local Highway Authority (LHA), Lincolnshire County Council (LCC) are a statutory consultee on the planning application and have been consulted on the series of applications.

The following comments were provided by the LHA on Friday 25th February 2022, in regard to their capacity as the LHA.

"To adequately assess the impact of the proposed development on highway safety, the seventeen applications must be considered in terms of their cumulative impact.

Under those terms, the Highway Authority's interim response below relates to this application and the 16 associated applications.

Could the applicant please submit the following:

- *Drawing demonstrating the achievable visibility splays at the site access in accordance with Design Manual for Roads and Bridges guidance*
- *Drawing demonstrating the achievable visibility splays at the site access in accordance with Design Manual for Roads and Bridges guidance.*
Drawing demonstrating improvements to the site access in accordance with LCC's Section 184 specification (available at <https://www.lincolnshire.gov.uk/licences-permits/apply-dropped-kerb>).
- *The access geometry (width and radii) must be suitable to accommodate the largest vehicle expected to visit the site and to enable two-way vehicle movements. Access gates must be set back from the edge of the carriageway by the length of the longest vehicle expected to visit the site, at minimum.*

- *Transport Statement*

At this time no further information has been provided by the applicant on the planning application, it is understood that a number of pitches are occupied and the site has been operating without planning permission for a period of time.

3. Site Location

The proposed development is situated on a parcel of land to the north of the A17, directly north of the village of Beckingham in Lincolnshire. The proposed development site is displayed in **Figure 3.1** below.

Figure 3.1 – Proposed Development Site



The site was previously used for equestrian purposes and benefits from an existing vehicle access to the parcel of land directly from the A17. The access is in the form of a gated access and a dropped kerb.

3.1 Local Highway Network

The local highway network is managed and maintained by the Local Highway Authority (LHA), Lincolnshire County Council (LCC) and comprises of A17.

A17

The A17 is a strategic highway which provides access between Newark-on-Trent and King's Lynn. In the vicinity of the site, the A17 is predominately a single carriageway road which is subject to the national speed limit, it is unlit and there are no pedestrian facilities.

There is a staggered 'T-junction' approximately 200m to the west of the existing vehicle access, which consists of a centra reservation, deceleration lanes, central cross-over and give way to aid the crossing the A17 at this junction.

In order to determine the traffic characteristics of the A17, a traffic volume and vehicle speed survey was undertaken between Tuesday 1st March 2022 to Friday 4th March 2022 to determine the speed and volume of traffic travelling along A17. The location of the survey is displayed below in **Figure 3.2**.

Figure 3.2. – Location of ATC



Location of ATC

It should be noted that the survey was laid on the eastbound carriageway adjacent to the proposed development site. The speed survey was undertaken using Automated Traffic Counters (ATC) in line with the Department for Transport (DfT) guidance by an independent traffic survey company. The results are summarised below in **Table 3.1** and a copy of the results provided in **Appendix A**.

Table 3.1 Traffic Survey Results: A17 (Eastbound)

Period/Data Type	Eastbound
AM Peak Hour (08:00 – 09:00)	678
PM Peak Hour (16:00 – 17:00)	631
Daily (AADT)	6,678
Average Speed (mph)	52.2
85 th Percentile Speed (mph)	57.8

As evidenced above in **Table 3.1**, it can be concluded that traffic speeds along the A17 at this section are significantly high but within the national speed limit, traffic flows are also high. Which when broken down equate to 11 vehicles per minute in the peak periods. Which demonstrates that traffic speeds are high and vehicle speeds are constant.

3.2 Sustainability

Public Transport

The site is situated within a location where public transport access is extremely poor, the closest train station is situated in Newark-on-Trent, whilst access to bus services can be obtained from Beckingham village where there are two bus stops located on School Lane. The service provision from the bus stop is extremely poor and only provided access to four services a day.

Pedestrians wishing to access the bus stops would need to cross the A17 from the proposed site to the bus stops where there are no specific pedestrian or crossing facilities and it is a busy and fast road.

Services and Facilities

Access to surrounding facilities and services are extremely limited and there are no local facilities or services which can be accessed by foot or cycle from the proposed development. Therefore, the occupants of the site would be reliable on a private vehicle to undertake journeys for employment, education and retail.

3.3 Highway Safety

Personal Injury Accident (PIA) data has been extracted from Crashmap (www.crashmap.com) for the latest 5-year period. The data is collected by the police and is approved by the National Statistics Authority and audited by the Department for Transport each year.

The purpose of assessing recorded PIAs is to determine whether there is a history of accidents in proximity to the site and to investigate whether there are any patterns or contributing factors to the accidents recorded. Clusters of accidents could indicate that improvements are required to enable development on the site to come forward.

The impact of casualties differs according to the severity of the injuries sustained. Three groups are usually differentiated as follows:

- **Fatal:** any death that occurs within 30 days from causes arising out of the accident.
- **Serious:** records casualties who require hospital treatment and have lasting injuries, but who do not die within the recording period for a fatality.
- **Slight:** where casualties have injuries that do not require hospital treatment, or, if they do, the effects of the injuries quickly subside.

The extent of the search area has been selected within a 250m radius of the proposed development inline with standards. Accident records from 2016 were searched and revealed that there had been a number of accidents in the search area and the results are displayed in **Figure 3.3**.

Figure 3.3 – 5-year Accident Search



It can be seen from the search that a ‘fatal’ accident occurred in 2017 on the junction of Woodgate Lane and the A17, which was within the search area.

A fatal accident represents a significant highway safety concern and the details of the accident have been obtained, the description consisted of “V1 travelling West on A17 whilst Towing V2 pushes V1 across carriageway into path of V3 travelling east on A17” Given the proposals will increase the propensity of vehicles being towed travelling along the A17, it is concerning that the accident involved a car towing another vehicle.

As a result of the accident search it can be seen that the A17 and in particular this section of the A17 has a history of frequent and severe accidents.

3.4 Conclusions

It has been demonstrated that the site is situated in a location which is unsustainable and not connected to any facilities, public transport or walking and cycling routes, therefore any journeys will be made by private vehicle. The A17 has a history of fatal accidents which represents serious existing highway safety concerns, considering the proposals will increase vehicle movements which were involved with the fatal accident.

and exit the site in a safe manner. Inline with the traffic survey results, the visibility requirement would be 215m x 2.4m. It can be seen from the existing access point that this level of visibility cannot be achieved due to constraints of the boundary of the site. Images of the existing access are provided in **Figure 4.2**.

Figure 4.2 – Images of Existing Access



Looking towards the existing access on the A17, access is concealed



View looking towards access demonstrates the visibility restrictions

Visibility splays and sight stopping distances are outlined in the Design Manual for Roads and Bridges (DMRB) and are a minimum requirement for new accesses to serve developments. If a new access point can not provide the appropriate visibility splay then it will provide a serious compromise on highway safety which is in breach of local and national planning policy.

It has been estimated through geometric measurements that a visibility of circa 43m can be obtained from the existing access and therefore a shortfall of some 160m of visibility which will increase the possibility of traffic travelling along the A17 colliding with vehicles exiting the site.

There are no details provided regarding parking and the site being able to accommodate the level of parking required for each individual plot. The lack of parking could generate overspill of vehicles on the A17 which would create a detrimental impact on highway safety.

The lack of information present in the application demonstrates that the existing access is of a substandard nature and not suitable to support the development proposals without having a severe detrimental impact on highway safety.

4.3 Anticipated Trip Generation

In order to gauge the likely anticipated vehicle generation from the site, we have used the industry standard TRICS database. Trip rate data has been extracted from the latest version of TRICS (Trip Rate Information Computer System) database for C3 'Residential Privately Owned Dwellings' to determine the likely traffic generation for the proposed development site.

TRICS is a nationally recognised database of traffic surveys covering a multitude of different development types. **Table 4.1** below presents the trip rates selected and the likely traffic generation resulting from development proposals and the full TRICS output is provided in **Appendix C**.

Table 4.1 Vehicle Trip Rates and Traffic Generation

Time Range	Trip Rate (per Dwelling)		Trip Generation (17 units)		
	Arr	Dep	Arr	Dep	Two-way
AM Peak (08:00 – 09:00)	0.190	0.498	3	8	11
PM Peak (17:00 – 18:00)	0.450	0.280	8	5	13
Daily	3.161	3.374	54	57	111

As outlined in **Table 4.1**, development proposals could be expected to generate 11 vehicle movements during the AM peak hour, 13 vehicle movements in the PM peak hour and 111 vehicle movements throughout the day.

4.4 Traffic Impact

It can be seen that the development proposals would increase traffic onto an already busy section of the A17. However, the proposals would increase the amount of traffic stopping and manoeuvring on a fast section of road, where vehicles would be slowing without any warning to turn into site. This coupled with the fact of increasing vehicle movements through a substandard access cause significant highway safety concerns.

5. Application Review

A full review of the application has been prepared in accordance with the review of the applications and summarised within **Table 5.1** against the relevant national and local policies.

The table includes a 'RAG' assessment (Red, Amber, Green) to categorise whether the item raised is contentious or warrants further action, with the following definitions applied:

- **Green** – no technical issues and/or policy compliant
- **Amber** – potential issue, which could warrant further action, but is not a material concern
- **Red** – significant issue that is a material concern

Table 5.1 Review of submitted Transport Assessment

Item	Subsection	Comment	RAG
Site Sustainability	3.2	<p>The site is situated in a location which does not benefit from any local services or facilities which can be accessed by foot or cycle or any public transport links. The A17 does not benefit from any pedestrian facilities and therefore all journeys to and from site would need to be made by a private vehicle.</p> <p>This would suggest that the development could not be considered a 'walkable neighbourhood' given the lack of basic services and facilities within walking distance, such as employment opportunities.</p> <p>The site therefore is in breach of the National Planning Policy Framework (NPPF) Paragraph 110 whereby <u>"It should be assured that: a) appropriate opportunities to promote sustainable transport modes can be – or have been – taken up, given the type of development and its location"</u></p> <p>The lack of sustainability is also in breach of Local Policy LP56 of the Central Lincolnshire Local Plan 2017 (CLLP) whereby <u>"applications for Gypsy and Traveller proposals, will be considered against the following criteria: f) should be located within reasonable travelling distance to both primary, health care facilities and schools, preferably by walking, cycling or public transport."</u></p>	Red
Highway Safety	3.3	<p>It has been demonstrated that the A17 in the particular location where the proposed access is located is a road which experiences high volumes of traffic at high speeds. There is a history of fatal traffic accidents within close proximity to the proposed development and access.</p> <p>An increase of traffic movements through a sub-standard access at a location where there are existing highway safety concerns will lead to a significant detriment in highway safety and therefore supportive of the National Planning Policy Framework (NPPF) Paragraph 111 whereby <u>'Developments should only be prevented or refused on highway grounds if there would be an unacceptable impact on highway safety'</u>.</p>	
Site Access	4.2	<p>The existing access is substandard to serve the proposed development and has not been designed to standards to serve such a development. No clear demonstration has been provided that the appropriate visibility can be provided or design to the appropriate local and national design standards for an access to serve the development.</p> <p>Increasing traffic generation through a sub-standard access onto an area of the A17 where there is a history of highway safety issues would create a significant detriment to highways safety in this location.</p> <p>As a result, the lack of appropriate access therefore goes against the National Planning Policy Framework (NPPF) Paragraph 110 whereby <u>"It should be assured that: b) safe and suitable access to the site can be achieved for all users"</u> and Paragraph 111 whereby <u>'Developments should only be prevented or refused on highway grounds if there would be an unacceptable impact on highway safety'</u></p>	

Item	Subsection	Comment	RAG
		The lack of safe access is also in breach of Policy LP56 of the Central Lincolnshire Local Plan 2017 (CLLP) whereby <i><u>"applications for Gypsy and Traveller proposals, will be considered against the following criteria: b) Must have adequate and safe vehicular access"</u></i>	
Traffic Generation	4.3	<p>It has been demonstrated that the site will generate a significant increase in vehicle traffic from the site. No information has been submitted along with the application to determine that the A17 can accommodate the uplift the traffic associated with the proposals without causing undue harm to highway safety and the detriment to the operation of the A17.</p> <p>The proposals will increase numbers of vehicles slowing and turning on a high trafficked and high speed road. Vehicles slowing and moving in the carriageway will increase the propensity for traffic accidents.</p> <p>As a result, the impact of the increase in vehicle traffic through a substandard access will be in breach of the National Planning Policy Framework (NPPF) Paragraph 111 whereby <i><u>'Developments should only be prevented or refused on highway grounds if there would be an unacceptable impact on highway safety or the residual cumulative impacts on the road network would be severe'</u></i></p>	
Existing Dangerous Manoeuvres	N/A	<p>A number of pitches have already been occupied on the site, evidence has been gained that illegal manoeuvres have been occurring to enter the site. A vehicle was witnessed driving into oncoming traffic on the A17 to access the site.</p> <p>Such a manoeuvre is illegal and extremely dangerous; the fact part of the site is operational and operating through a sub-standard access is of a grave concern that the detriment of highway safety has been significantly compromised. The evidence is provided in Appendix D of this manoeuvre and there are concerns that should permission be granted this illegal manoeuvres will increase.</p>	

6. Summary

6.1 Summary

The Transportation Consultancy (ttc) have been appointed by Beckingham Parish Council to undertake a 'traffic and transport' review of a series of planning applications for a Traveller site on a parcel of land off the A17 near Beckingham in Lincolnshire.

The evidence presented in the review can be summarised;

- The site is not sustainable making its suitability for development highly questionable. Daily access to services and facilities is predominantly dependent on use of the car. There is no access to public transport nor any regular facilities or services in reasonable walking distance, no rail link and limited suitability for cycle usage.
- A review of the A17 in the vicinity of the site revealed that there is a history of outstanding highway concerns at this location.
- A traffic survey revealed that traffic speeds are high and the level of traffic is high.
- The site benefits from an existing access associated with the previous equestrian use of the site, however no access improvements have been offered forward as part of the proposals. The existing access arrangements are substandard to support the proposals.
- The existing access cannot provide the required visibility to ensure safe and secure access can be achieved.
- The traffic generation associated with the site has been determined and it can be seen that a significant amount of traffic will be generated by the site. The traffic associated with the site when assigned through the existing access point will have a detrimental impact on the safety and operation of the A17 in this location.
- Evidence has been provided that illegal manoeuvres are being undertaken to access the site which is part occupied. These manoeuvres present a grave danger to highway safety in this location and should permission be allowed would expect to increase in frequency and severity.

6.2 Conclusions

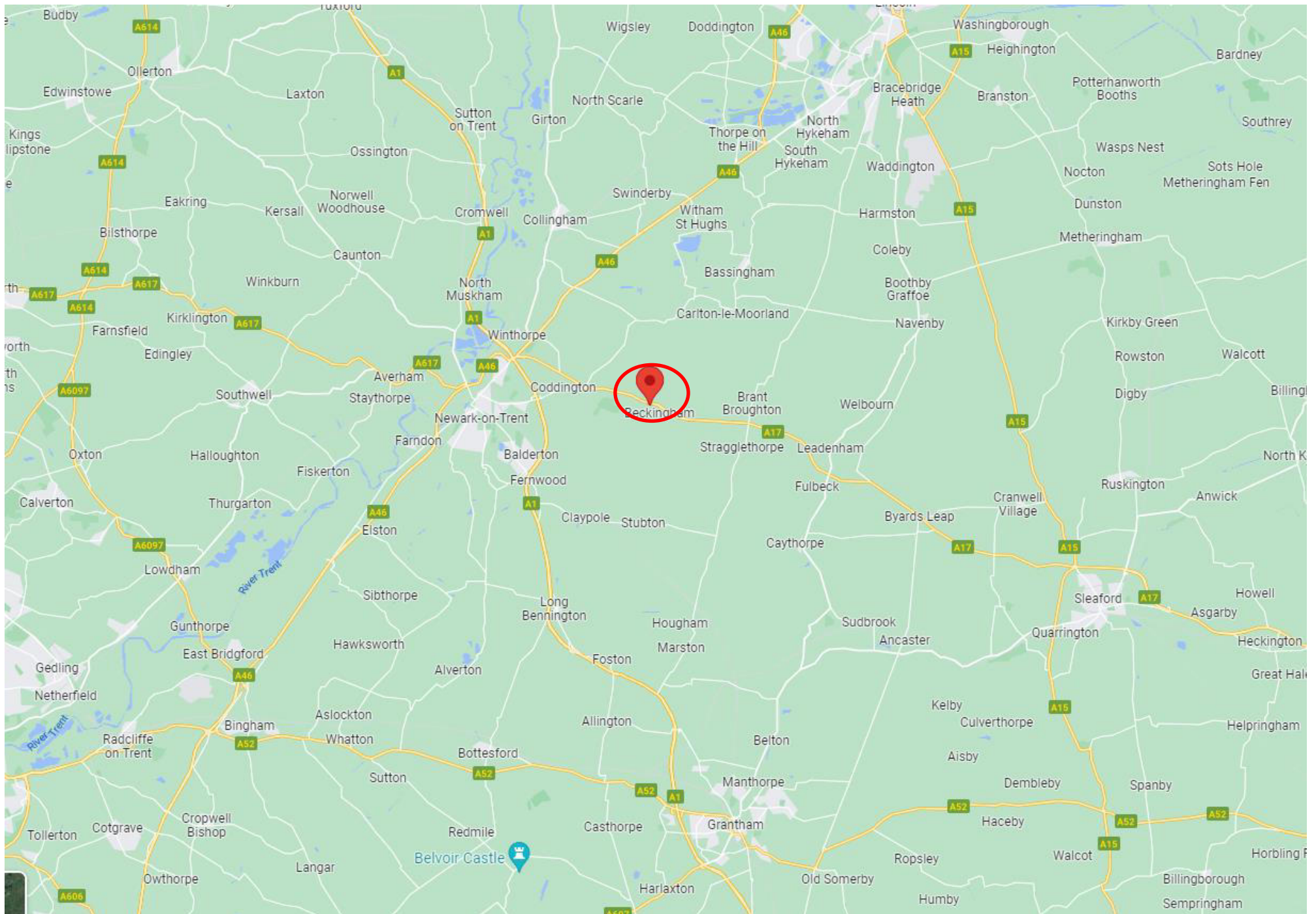
As a result of the evidence presented above, it is clear that granting of permission for the 17 plots would have a severe impact on the highway safety. The proposals are clearly in breach of local and national planning policies whereby they do not provide a sustainable site, safe and secure access cannot be provided and the impact of the additional traffic from the development would have a severe impact on firstly highway safety and secondly the operational capacity of the A17. We therefore see no reason why this application should be allowed to be granted permission.

Appendix A

Site 1 - 53.076477, -0.698633







11148		BECKINGHAM								
		MARCH 2022								
Site	Location	Direction	Start Date	End Date	Posted Speed Limit (PSL)	Total Vehicles	Midweek Ave	All Days Ave	85%ile Speed	Mean Speed
Site No: 11148001	A17 at Beckingham (W of River Witham) 53.076477, -0.069863	Channel: Eastbound	Tue 01-Mar-22	Fri 04-Mar-22	NSL	26710	6678	-	57.8	52.2

11148		BECKINGHAM				Site No: 11148001		Location		A17 at Beckingham (W of River Witham)					
Tue 01-Mar-22 to Fri 04-Mar-22						Channel: Eastbound									
			CARS OR CAR-BASED LGV	LIGHT GOODS VEHICLES	BUSES	TWO AXLE, SIX TYRE, RIGID/ BUSES	THREE AXLE RIGID	FOUR OR MORE AXLE RIGID	FOUR OR LESS AXLE ARTIC	FIVE AXLE ARTIC	SIX OR MORE AXLE ARTIC	FIVE OR LESS AXLE MULTI- TRAILER ARTIC	SIX AXLE MULTI- TRAILER ARTIC	SEVEN OR MORE AXLE ARTIC	
TIME PERIOD	TOTAL VEHICLES	MOTOR- CYCLES													
Tue 01-Mar-22															
00:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
01:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
02:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
03:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
04:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
05:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
06:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
08:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
09:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
10:00	519	0	316	95	5	6	6	1	19	0	38	33	0	0	
11:00	495	2	313	85	2	5	4	0	16	0	29	39	0	0	
12:00	386	1	257	53	3	3	4	0	11	0	31	23	0	0	
13:00	420	1	271	64	2	8	1	0	12	1	21	39	0	0	
14:00	346	1	235	55	3	9	0	0	9	0	17	17	0	0	
15:00	244	0	180	33	1	3	0	0	6	1	10	10	0	0	
16:00	113	0	94	17	0	1	0	0	0	0	1	0	0	0	
17:00	352	2	276	49	4	4	1	0	2	0	9	5	0	0	
18:00	335	1	262	34	0	2	0	0	7	1	13	15	0	0	
19:00	275	0	205	29	1	1	0	1	0	0	19	19	0	0	
20:00	187	0	129	29	1	3	1	0	3	1	8	12	0	0	
21:00	130	0	85	20	1	1	0	0	1	0	11	11	0	0	
22:00	139	0	102	10	2	1	0	0	0	0	9	15	0	0	
23:00	89	1	67	5	0	2	0	0	0	0	5	9	0	0	
12H,7-19	3210	8	2204	485	20	41	16	1	82	3	169	181	0	0	
16H,6-22	3802	8	2623	563	23	46	17	2	86	4	207	223	0	0	
18H,6-24	4030	9	2792	578	25	49	17	2	86	4	221	247	0	0	
24H,0-24	4030	9	2792	578	25	49	17	2	86	4	221	247	0	0	

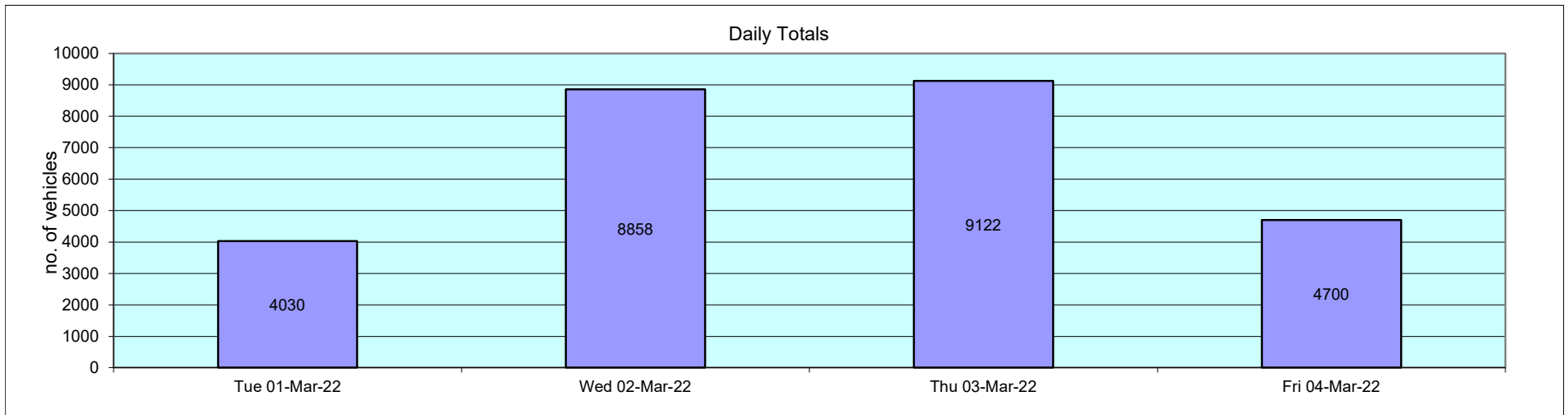
11148		BECKINGHAM				Site No: 11148001		Location		A17 at Beckingham (W of River Witham)					
Tue 01-Mar-22 to Fri 04-Mar-22						Channel: Eastbound									
TIME PERIOD	TOTAL VEHICLES	MOTOR-CYCLES	CARS OR CAR-BASED LGV	LIGHT GOODS VEHICLES	BUSES	TWO	THREE AXLE RIGID	FOUR OR MORE AXLE RIGID	FOUR OR LESS AXLE ARTIC	FIVE AXLE ARTIC	SIX OR MORE AXLE ARTIC	FIVE OR LESS AXLE MULTI-TRAILER ARTIC	SIX AXLE MULTI-TRAILER ARTIC	SEVEN OR MORE AXLE ARTIC	
						AXLE, SIX TYRE, RIGID/ BUSES									
Wed 02-Mar-22															
00:00	59	1	28	9	1	0	0	0	5	1	6	8	0	0	
01:00	40	0	15	4	0	0	0	0	5	0	5	11	0	0	
02:00	30	0	12	4	0	0	0	0	2	0	6	6	0	0	
03:00	32	0	5	10	2	1	1	0	0	0	8	5	0	0	
04:00	64	0	14	12	3	1	0	0	2	1	22	9	0	0	
05:00	198	1	80	27	10	6	2	0	17	1	39	15	0	0	
06:00	456	2	234	84	9	13	6	0	29	3	48	28	0	0	
07:00	782	3	478	163	9	20	6	0	24	0	50	29	0	0	
08:00	703	2	423	157	12	8	5	0	24	1	41	30	0	0	
09:00	608	1	354	135	7	9	5	0	20	2	38	37	0	0	
10:00	532	1	315	103	6	6	2	0	13	1	41	44	0	0	
11:00	525	2	314	97	5	6	1	0	18	1	39	42	0	0	
12:00	553	1	343	80	7	3	2	0	21	2	44	50	0	0	
13:00	510	0	327	75	6	8	2	0	15	0	38	39	0	0	
14:00	541	2	332	86	5	7	2	0	25	0	34	48	0	0	
15:00	583	1	379	99	3	9	3	0	14	1	41	33	0	0	
16:00	691	2	495	107	1	6	3	0	14	0	32	31	0	0	
17:00	669	4	525	72	8	4	0	0	4	1	24	27	0	0	
18:00	444	1	352	35	3	1	0	0	4	0	26	22	0	0	
19:00	294	0	213	29	2	0	1	0	3	1	19	26	0	0	
20:00	211	1	162	18	0	3	0	0	1	0	9	17	0	0	
21:00	142	1	87	21	0	1	0	0	1	2	10	19	0	0	
22:00	105	0	69	10	1	0	0	0	2	1	10	12	0	0	
23:00	86	0	59	7	1	2	0	0	1	0	6	10	0	0	
12H,7-19	7141	20	4637	1209	72	87	31	0	196	9	448	432	0	0	
16H,6-22	8244	24	5333	1361	83	104	38	0	230	15	534	522	0	0	
18H,6-24	8435	24	5461	1378	85	106	38	0	233	16	550	544	0	0	
24H,0-24	8858	26	5615	1444	101	114	41	0	264	19	636	598	0	0	

11148		BECKINGHAM				Site No: 11148001		Location	A17 at Beckingham (W of River Witham)					
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			CARS OR CAR-BASED LGV	LIGHT GOODS VEHICLES	BUSES	TWO AXLE, SIX TYRE, RIGID/ BUSES	THREE AXLE RIGID	FOUR OR MORE AXLE RIGID	FOUR OR LESS AXLE ARTIC	FIVE AXLE ARTIC	SIX OR MORE AXLE ARTIC	FIVE OR LESS AXLE MULTI- TRAILER ARTIC	SIX AXLE MULTI- TRAILER ARTIC	SEVEN OR MORE AXLE ARTIC
TIME PERIOD	TOTAL VEHICLES	MOTOR- CYCLES												
Thu 03-Mar-22														
00:00	51	1	22	4	1	0	0	0	6	0	9	8	0	0
01:00	52	0	23	5	1	1	0	0	2	1	7	12	0	0
02:00	54	0	25	7	2	0	1	0	7	0	5	7	0	0
03:00	37	1	11	6	2	0	0	0	3	0	8	6	0	0
04:00	96	1	25	15	4	1	1	0	5	3	30	11	0	0
05:00	200	3	70	36	6	5	5	0	11	0	49	15	0	0
06:00	462	3	238	101	5	8	5	0	25	1	47	29	0	0
07:00	713	1	435	153	11	18	0	1	22	0	41	31	0	0
08:00	712	3	430	157	9	16	3	0	20	1	41	32	0	0
09:00	577	0	332	124	8	9	7	0	26	0	28	43	0	0
10:00	534	2	320	91	2	3	2	1	24	1	37	51	0	0
11:00	567	4	348	88	4	8	3	0	20	0	43	49	0	0
12:00	543	0	354	74	3	8	1	0	23	2	38	40	0	0
13:00	584	8	356	106	4	7	3	0	14	3	37	46	0	0
14:00	537	2	360	71	2	8	1	0	27	0	27	39	0	0
15:00	598	0	420	86	4	4	1	0	12	0	34	37	0	0
16:00	690	0	510	89	8	3	0	0	8	0	41	31	0	0
17:00	706	2	534	96	5	4	0	0	5	0	30	30	0	0
18:00	495	1	385	51	3	4	1	1	10	1	18	20	0	0
19:00	302	0	223	31	2	4	0	0	2	0	18	22	0	0
20:00	246	0	180	28	0	1	0	0	5	0	13	19	0	0
21:00	178	0	120	25	0	4	0	0	2	0	9	18	0	0
22:00	122	1	76	17	2	0	0	0	2	0	8	16	0	0
23:00	66	0	32	9	3	1	0	0	1	0	8	12	0	0
12H,7-19	7256	23	4784	1186	63	92	22	3	211	8	415	449	0	0
16H,6-22	8444	26	5545	1371	70	109	27	3	245	9	502	537	0	0
18H,6-24	8632	27	5653	1397	75	110	27	3	248	9	518	565	0	0
24H,0-24	9122	33	5829	1470	91	117	34	3	282	13	626	624	0	0

11148		BECKINGHAM				Site No: 11148001		Location		A17 at Beckingham (W of River Witham)					
Tue 01-Mar-22 to Fri 04-Mar-22						Channel: Eastbound									
			CARS OR CAR-BASED LGV	LIGHT GOODS VEHICLES	BUSES	TWO AXLE, SIX TYRE, RIGID/ BUSES	THREE AXLE RIGID	FOUR OR MORE AXLE RIGID	FOUR OR LESS AXLE ARTIC	FIVE AXLE ARTIC	SIX OR MORE AXLE ARTIC	FIVE OR LESS AXLE MULTI- TRAILER ARTIC	SIX AXLE MULTI- TRAILER ARTIC	SEVEN OR MORE AXLE ARTIC	
TIME PERIOD	TOTAL VEHICLES	MOTOR- CYCLES													
Fri 04-Mar-22															
00:00	58	1	22	7	0	0	0	0	6	1	8	13	0	0	
01:00	36	0	16	4	0	0	1	0	3	0	4	8	0	0	
02:00	36	0	12	5	0	0	0	0	4	2	6	7	0	0	
03:00	42	0	13	8	1	0	1	0	0	0	9	10	0	0	
04:00	71	0	14	9	3	1	0	0	5	0	24	15	0	0	
05:00	163	0	54	29	6	5	5	0	10	2	40	12	0	0	
06:00	395	2	190	93	7	7	4	0	25	0	47	20	0	0	
07:00	696	1	411	158	11	17	1	0	26	2	39	30	0	0	
08:00	665	4	387	162	4	14	5	0	22	2	28	37	0	0	
09:00	571	0	350	109	6	12	3	0	12	1	31	47	0	0	
10:00	620	5	400	92	6	9	4	0	17	1	32	54	0	0	
11:00	641	2	464	88	2	6	4	0	15	1	22	37	0	0	
12:00	706	0	520	82	1	6	6	0	23	1	26	41	0	0	
13:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
14:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
15:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
16:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
17:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
18:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
20:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
21:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
22:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
23:00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
12H,7-19	3899	12	2532	691	30	64	23	0	115	8	178	246	0	0	
16H,6-22	4294	14	2722	784	37	71	27	0	140	8	225	266	0	0	
18H,6-24	4294	14	2722	784	37	71	27	0	140	8	225	266	0	0	
24H,0-24	4700	15	2853	846	47	77	34	0	168	13	316	331	0	0	

11148 BECKINGHAM Site No: 11148001 Location A17 at Beckingham (W of River Witham)
 Tue 01-Mar-22 to Fri 04-Mar-22 Channel: Eastbound

TIME PERIOD	TOTAL VEHICLES	MOTOR-CYCLES	CARS OR CAR-BASED LGV	LIGHT GOODS VEHICLES	BUSES	TWO AXLE, SIX TYRE, RIGID/ BUSES	THREE AXLE RIGID	FOUR OR MORE AXLE RIGID	FOUR OR LESS AXLE ARTIC	FIVE AXLE ARTIC	SIX OR MORE AXLE ARTIC	FIVE OR LESS AXLE MULTI-TRAILER ARTIC	SIX AXLE MULTI-TRAILER ARTIC	SEVEN OR MORE AXLE ARTIC
Daily Totals														
Tue 01-Mar-22	4030	9	2792	578	25	49	17	2	86	4	221	247	0	0
Wed 02-Mar-22	8858	26	5615	1444	101	114	41	0	264	19	636	598	0	0
Thu 03-Mar-22	9122	33	5829	1470	91	117	34	3	282	13	626	624	0	0
Fri 04-Mar-22	4700	15	2853	846	47	77	34	0	168	13	316	331	0	0
-														
-														
-														
Total Vehicles														
[--]	26710	83	17089	4338	264	357	126	5	800	49	1799	1800	0	0



11148		BECKINGHAM			Site No: 11148001		Location		A17 at Beckingham (W of River Witham)		
Tue 01-Mar-22 to Fri 04-Mar-22					Channel: Eastbound						
TIME PERIOD	TOTAL VEHICLES	MOTOR-CYCLES	MOTOR-CYCLES%	CARS	CARS %	LGV	LGV %	HGV	HGV %	BUS	BUS %
Tue 01-Mar-22											
00:00	0	0	-	0	-	0	-	0	-	0	-
01:00	0	0	-	0	-	0	-	0	-	0	-
02:00	0	0	-	0	-	0	-	0	-	0	-
03:00	0	0	-	0	-	0	-	0	-	0	-
04:00	0	0	-	0	-	0	-	0	-	0	-
05:00	0	0	-	0	-	0	-	0	-	0	-
06:00	0	0	-	0	-	0	-	0	-	0	-
07:00	0	0	-	0	-	0	-	0	-	0	-
08:00	0	0	-	0	-	0	-	0	-	0	-
09:00	0	0	-	0	-	0	-	0	-	0	-
10:00	519	0	0.0	316	60.9	95	18.3	103	19.9	5	1.0
11:00	495	2	0.4	313	63.2	85	17.2	93	18.8	2	0.4
12:00	386	1	0.3	257	66.6	53	13.7	72	18.7	3	0.8
13:00	420	1	0.2	271	64.5	64	15.2	82	19.5	2	0.5
14:00	346	1	0.3	235	67.9	55	15.9	52	15.0	3	0.9
15:00	244	0	0.0	180	73.8	33	13.5	30	12.3	1	0.4
16:00	113	0	0.0	94	83.2	17	15.0	2	1.8	0	0.0
17:00	352	2	0.6	276	78.4	49	13.9	21	6.0	4	1.1
18:00	335	1	0.3	262	78.2	34	10.2	38	11.3	0	0.0
19:00	275	0	0.0	205	74.6	29	10.6	40	14.6	1	0.4
20:00	187	0	0.0	129	69.0	29	15.5	28	15.0	1	0.5
21:00	130	0	0.0	85	65.4	20	15.4	24	18.5	1	0.8
22:00	139	0	0.0	102	73.4	10	7.2	25	18.0	2	1.4
23:00	89	1	1.1	67	75.3	5	5.6	16	18.0	0	0.0
12H,7-19	3210	8	0.3	2204	68.7	485	15.1	493	15.4	20	0.6
16H,6-22	3802	8	0.2	2623	69.0	563	14.8	585	15.4	23	0.6
18H,6-24	4030	9	0.2	2792	69.3	578	14.3	626	15.5	25	0.6
24H,0-24	4030	9	0.2	2792	69.3	578	14.3	626	15.5	25	0.6

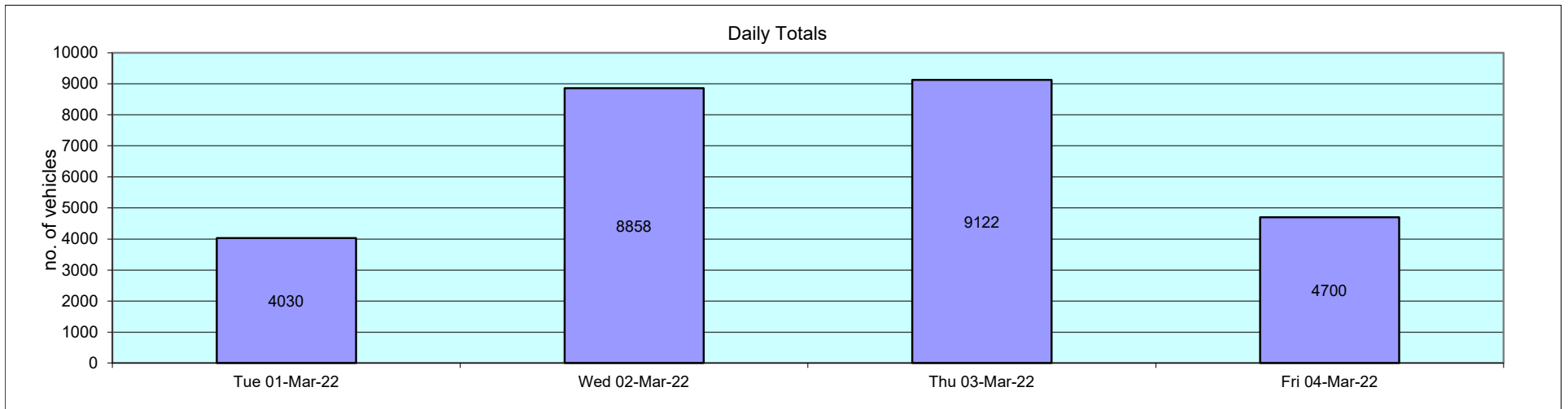
11148		BECKINGHAM			Site No: 11148001		Location		A17 at Beckingham (W of River Witham)		
Tue 01-Mar-22 to Fri 04-Mar-22					Channel: Eastbound						
TIME PERIOD	TOTAL VEHICLES	MOTOR-CYCLES	MOTOR-CYCLES%	CARS	CARS %	LGV	LGV %	HGV	HGV %	BUS	BUS %
Wed 02-Mar-22											
00:00	59	1	1.7	28	47.5	9	15.3	20	33.9	1	1.7
01:00	40	0	0.0	15	37.5	4	10.0	21	52.5	0	0.0
02:00	30	0	0.0	12	40.0	4	13.3	14	46.7	0	0.0
03:00	32	0	0.0	5	15.6	10	31.3	15	46.9	2	6.3
04:00	64	0	0.0	14	21.9	12	18.8	35	54.7	3	4.7
05:00	198	1	0.5	80	40.4	27	13.6	80	40.4	10	5.1
06:00	456	2	0.4	234	51.3	84	18.4	127	27.9	9	2.0
07:00	782	3	0.4	478	61.1	163	20.8	129	16.5	9	1.2
08:00	703	2	0.3	423	60.2	157	22.3	109	15.5	12	1.7
09:00	608	1	0.2	354	58.2	135	22.2	111	18.3	7	1.2
10:00	532	1	0.2	315	59.2	103	19.4	107	20.1	6	1.1
11:00	525	2	0.4	314	59.8	97	18.5	107	20.4	5	1.0
12:00	553	1	0.2	343	62.0	80	14.5	122	22.1	7	1.3
13:00	510	0	0.0	327	64.1	75	14.7	102	20.0	6	1.2
14:00	541	2	0.4	332	61.4	86	15.9	116	21.4	5	0.9
15:00	583	1	0.2	379	65.0	99	17.0	101	17.3	3	0.5
16:00	691	2	0.3	495	71.6	107	15.5	86	12.5	1	0.1
17:00	669	4	0.6	525	78.5	72	10.8	60	9.0	8	1.2
18:00	444	1	0.2	352	79.3	35	7.9	53	11.9	3	0.7
19:00	294	0	0.0	213	72.5	29	9.9	50	17.0	2	0.7
20:00	211	1	0.5	162	76.8	18	8.5	30	14.2	0	0.0
21:00	142	1	0.7	87	61.3	21	14.8	33	23.2	0	0.0
22:00	105	0	0.0	69	65.7	10	9.5	25	23.8	1	1.0
23:00	86	0	0.0	59	68.6	7	8.1	19	22.1	1	1.2
12H,7-19	7141	20	0.3	4637	64.9	1209	16.9	1203	16.9	72	1.0
16H,6-22	8244	24	0.3	5333	64.7	1361	16.5	1443	17.5	83	1.0
18H,6-24	8435	24	0.3	5461	64.7	1378	16.3	1487	17.6	85	1.0
24H,0-24	8858	26	0.3	5615	63.4	1444	16.3	1672	18.9	101	1.1

11148		BECKINGHAM			Site No: 11148001		Location		A17 at Beckingham (W of River Witham)		
Tue 01-Mar-22 to Fri 04-Mar-22					Channel: Eastbound						
TIME PERIOD	TOTAL VEHICLES	MOTOR-CYCLES	MOTOR-CYCLES%	CARS	CARS %	LGV	LGV %	HGV	HGV %	BUS	BUS %
Thu 03-Mar-22											
00:00	51	1	2.0	22	43.1	4	7.8	23	45.1	1	2.0
01:00	52	0	0.0	23	44.2	5	9.6	23	44.2	1	1.9
02:00	54	0	0.0	25	46.3	7	13.0	20	37.0	2	3.7
03:00	37	1	2.7	11	29.7	6	16.2	17	46.0	2	5.4
04:00	96	1	1.0	25	26.0	15	15.6	51	53.1	4	4.2
05:00	200	3	1.5	70	35.0	36	18.0	85	42.5	6	3.0
06:00	462	3	0.7	238	51.5	101	21.9	115	24.9	5	1.1
07:00	713	1	0.1	435	61.0	153	21.5	113	15.9	11	1.5
08:00	712	3	0.4	430	60.4	157	22.1	113	15.9	9	1.3
09:00	577	0	0.0	332	57.5	124	21.5	113	19.6	8	1.4
10:00	534	2	0.4	320	59.9	91	17.0	119	22.3	2	0.4
11:00	567	4	0.7	348	61.4	88	15.5	123	21.7	4	0.7
12:00	543	0	0.0	354	65.2	74	13.6	112	20.6	3	0.6
13:00	584	8	1.4	356	61.0	106	18.2	110	18.8	4	0.7
14:00	537	2	0.4	360	67.0	71	13.2	102	19.0	2	0.4
15:00	598	0	0.0	420	70.2	86	14.4	88	14.7	4	0.7
16:00	690	0	0.0	510	73.9	89	12.9	83	12.0	8	1.2
17:00	706	2	0.3	534	75.6	96	13.6	69	9.8	5	0.7
18:00	495	1	0.2	385	77.8	51	10.3	55	11.1	3	0.6
19:00	302	0	0.0	223	73.8	31	10.3	46	15.2	2	0.7
20:00	246	0	0.0	180	73.2	28	11.4	38	15.5	0	0.0
21:00	178	0	0.0	120	67.4	25	14.0	33	18.5	0	0.0
22:00	122	1	0.8	76	62.3	17	13.9	26	21.3	2	1.6
23:00	66	0	0.0	32	48.5	9	13.6	22	33.3	3	4.6
12H,7-19	7256	23	0.3	4784	65.9	1186	16.4	1200	16.5	63	0.9
16H,6-22	8444	26	0.3	5545	65.7	1371	16.2	1432	17.0	70	0.8
18H,6-24	8632	27	0.3	5653	65.5	1397	16.2	1480	17.2	75	0.9
24H,0-24	9122	33	0.4	5829	63.9	1470	16.1	1699	18.6	91	1.0

11148		BECKINGHAM			Site No: 11148001		Location		A17 at Beckingham (W of River Witham)		
Tue 01-Mar-22 to Fri 04-Mar-22						Channel: Eastbound					
TIME PERIOD	TOTAL VEHICLES	MOTOR-CYCLES	MOTOR-CYCLES%	CARS	CARS %	LGV	LGV %	HGV	HGV %	BUS	BUS %
Fri 04-Mar-22											
00:00	58	1	1.7	22	37.9	7	12.1	28	48.3	0	0.0
01:00	36	0	0.0	16	44.4	4	11.1	16	44.4	0	0.0
02:00	36	0	0.0	12	33.3	5	13.9	19	52.8	0	0.0
03:00	42	0	0.0	13	31.0	8	19.1	20	47.6	1	2.4
04:00	71	0	0.0	14	19.7	9	12.7	45	63.4	3	4.2
05:00	163	0	0.0	54	33.1	29	17.8	74	45.4	6	3.7
06:00	395	2	0.5	190	48.1	93	23.5	103	26.1	7	1.8
07:00	696	1	0.1	411	59.1	158	22.7	115	16.5	11	1.6
08:00	665	4	0.6	387	58.2	162	24.4	108	16.2	4	0.6
09:00	571	0	0.0	350	61.3	109	19.1	106	18.6	6	1.1
10:00	620	5	0.8	400	64.5	92	14.8	117	18.9	6	1.0
11:00	641	2	0.3	464	72.4	88	13.7	85	13.3	2	0.3
12:00	706	0	0.0	520	73.7	82	11.6	103	14.6	1	0.1
13:00	0	0	-	0	-	0	-	0	-	0	-
14:00	0	0	-	0	-	0	-	0	-	0	-
15:00	0	0	-	0	-	0	-	0	-	0	-
16:00	0	0	-	0	-	0	-	0	-	0	-
17:00	0	0	-	0	-	0	-	0	-	0	-
18:00	0	0	-	0	-	0	-	0	-	0	-
19:00	0	0	-	0	-	0	-	0	-	0	-
20:00	0	0	-	0	-	0	-	0	-	0	-
21:00	0	0	-	0	-	0	-	0	-	0	-
22:00	0	0	-	0	-	0	-	0	-	0	-
23:00	0	0	-	0	-	0	-	0	-	0	-
12H,7-19	3899	12	0.3	2532	64.9	691	17.7	634	16.3	30	0.8
16H,6-22	4294	14	0.3	2722	63.4	784	18.3	737	17.2	37	0.9
18H,6-24	4294	14	0.3	2722	63.4	784	18.3	737	17.2	37	0.9
24H,0-24	4700	15	0.3	2853	60.7	846	18.0	939	20.0	47	1.0

11148	BECKINGHAM	Site No: 11148001	Location	A17 at Beckingham (W of River Witham)
Tue 01-Mar-22 to Fri 04-Mar-22		Channel: Eastbound		

TIME PERIOD	TOTAL VEHICLES	MOTOR-CYCLES	MOTOR-CYCLES%	CARS	CARS %	LGV	LGV %	HGV	HGV %	BUS	BUS %
Daily Totals											
Tue 01-Mar-22	4030	9	0.2	2792	69.3	578	14.3	626	15.5	25	0.6
Wed 02-Mar-22	8858	26	0.3	5615	63.4	1444	16.3	1672	18.9	101	1.1
Thu 03-Mar-22	9122	33	0.4	5829	63.9	1470	16.1	1699	18.6	91	1.0
Fri 04-Mar-22	4700	15	0.3	2853	60.7	846	18.0	939	20.0	47	1.0
-											
-											
-											
Total Vehicles											
[-]	26710	83	0.3	17089	64.3	4338	16.2	4936	18.3	264	0.9



11148					BECKINGHAM					Site No: 11148001					Location A17 at Beckingham (W of River Witham)						
Tue 01-Mar-22 to Fri 04-Mar-22					Channel: Eastbound																
Time Period	Total Vehicles	85%ile Speed	Mean Speed	Stand Dev.	<11Mph	11-<21	21-<31	31-<41	41-<46	46-<51	51-<56	56-<61	61-<66	66-<71	71-<76	=>76					
Tue 01-Mar-22																					
00:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
01:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
02:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
03:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
04:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
05:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
06:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
07:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
08:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
09:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0					
10:00	519	57.9	52.8	4.7	0	0	0	3	14	162	225	99	16	0	0	0					
11:00	495	57.6	51.5	6.3	0	0	0	29	39	141	182	90	13	0	0	1					
12:00	386	59.6	54.3	5.3	0	0	1	0	8	90	152	105	24	5	1	0					
13:00	420	59.1	53.1	6.1	1	0	1	3	21	119	155	92	22	5	0	1					
14:00	346	59.7	54.2	5.2	0	0	0	1	9	84	129	95	27	1	0	0					
15:00	244	59.9	54.7	5.3	0	0	0	0	10	44	95	74	17	3	1	0					
16:00	113	64.9	58.6	7	0	0	0	0	1	11	31	33	25	5	4	3					
17:00	352	61.3	55.2	6.6	0	0	0	7	17	51	119	102	42	12	2	0					
18:00	335	60.6	55.2	5.5	0	0	0	0	2	73	121	96	35	5	3	0					
19:00	275	60.9	54.4	6.8	0	0	0	2	18	70	80	65	26	11	1	2					
20:00	187	61.4	55.7	6.6	0	0	0	0	8	37	53	59	17	9	3	1					
21:00	130	63.3	56.1	7.5	0	0	0	0	3	30	43	28	13	7	2	4					
22:00	139	61.6	55.3	6.9	0	0	0	2	4	26	53	31	15	4	3	1					
23:00	89	64.1	57.4	6.7	0	0	0	0	0	16	22	29	13	5	4	0					
12H,7-19	3210	59.7	53.8	5.9	1	0	2	43	121	775	1209	786	221	36	11	5					
16H,6-22	3802	59.9	54.1	6.1	1	0	2	45	150	912	1385	938	277	63	17	12					
18H,6-24	4030	60	54.2	6.2	1	0	2	47	154	954	1460	998	305	72	24	13					
24H,0-24	4030	60	54.2	6.2	1	0	2	47	154	954	1460	998	305	72	24	13					

11148		BECKINGHAM			Site No: 11148001			Location A17 at Beckingham (W of River Witham)								
Tue 01-Mar-22 to Fri 04-Mar-22					Channel: Eastbound											
Time Period	Total Vehicles	85%ile Speed	Mean Speed	Stand Dev.	<11Mph	11-<21	21-<31	31-<41	41-<46	46-<51	51-<56	56-<61	61-<66	66-<71	71-<76	=>76
Wed 02-Mar-22																
00:00	59	62.7	55.8	7.3	0	0	0	0	4	11	17	15	8	2	1	1
01:00	40	62.5	55	7	0	0	0	0	1	13	11	7	5	2	1	0
02:00	30	61	55.2	8.4	0	0	0	2	0	4	13	6	2	1	2	0
03:00	32	55.3	52.6	5.5	0	0	0	0	4	6	17	2	3	0	0	0
04:00	64	58.5	53.6	4.3	0	0	0	0	0	19	26	18	1	0	0	0
05:00	198	56.8	51.5	5.3	0	0	0	0	17	91	56	25	6	3	0	0
06:00	456	55.7	50.8	5.6	0	0	1	11	51	175	159	44	11	4	0	0
07:00	782	55.5	50.1	5.8	0	0	0	37	106	297	250	83	6	2	0	1
08:00	703	55.5	50	6.8	0	0	18	23	74	275	232	64	13	2	1	1
09:00	608	55.2	50.4	5	0	0	0	9	81	259	199	53	5	1	0	1
10:00	532	56	51.2	5.9	0	0	4	12	51	176	210	64	12	2	0	1
11:00	525	55.6	50.5	5.6	0	0	0	25	48	205	182	55	9	1	0	0
12:00	553	56	51.6	5	0	0	0	2	56	193	220	70	9	2	1	0
13:00	510	55.8	51.2	5.2	0	0	0	8	45	206	180	59	10	1	1	0
14:00	541	57	52	4.9	0	0	0	1	35	209	198	83	10	5	0	0
15:00	583	57.2	52.1	5.1	0	0	0	11	22	207	233	92	15	3	0	0
16:00	691	57.6	52.4	5.3	0	0	0	8	43	209	290	118	16	6	0	1
17:00	669	57.6	52	5.5	0	0	0	10	58	211	253	116	18	2	0	1
18:00	444	55.5	48.6	8.8	0	12	10	18	70	157	122	45	7	1	2	0
19:00	294	57.7	51.7	5.8	0	0	0	4	32	102	95	49	10	1	0	1
20:00	211	59.9	53.3	6.5	0	0	0	2	18	59	69	40	16	5	2	0
21:00	142	62.1	55.4	6.6	0	0	0	1	3	27	59	27	15	8	1	1
22:00	105	61.3	55.3	6.6	0	0	0	0	5	23	32	28	12	3	1	1
23:00	86	61.3	54.5	8.3	0	0	0	7	1	16	23	25	10	1	3	0
12H,7-19	7141	56	51	5.9	0	12	32	164	689	2604	2569	902	130	28	5	6
16H,6-22	8244	56.3	51.2	5.9	0	12	33	182	793	2967	2951	1062	182	46	8	8
18H,6-24	8435	56.6	51.3	6	0	12	33	189	799	3006	3006	1115	204	50	12	9
24H,0-24	8858	56.7	51.4	6	0	12	33	191	825	3150	3146	1188	229	58	16	10

11148					BECKINGHAM					Site No: 11148001					Location A17 at Beckingham (W of River Witham)						
Tue 01-Mar-22 to Fri 04-Mar-22					Channel: Eastbound																
Time Period	Total Vehicles	85%ile Speed	Mean Speed	Stand Dev.	<11Mph	11-<21	21-<31	31-<41	41-<46	46-<51	51-<56	56-<61	61-<66	66-<71	71-<76	=>76					
Thu 03-Mar-22																					
00:00	51	58.9	53.5	6.5	0	0	0	1	1	17	18	10	1	2	1	0					
01:00	52	64.4	57.2	7.2	0	0	0	0	1	8	17	13	7	4	1	1					
02:00	54	60.2	55.6	6	0	0	0	0	0	10	22	16	3	2	0	1					
03:00	37	60.8	54.9	7.8	0	0	0	0	2	10	14	5	1	4	0	1					
04:00	96	58.4	53.9	6.2	0	0	0	1	3	21	49	15	1	3	3	0					
05:00	200	57.6	51.3	7	0	0	0	16	14	60	72	24	11	3	0	0					
06:00	462	56.5	51.8	5.3	0	0	0	7	35	155	189	60	13	2	0	1					
07:00	713	56.1	50.6	6.7	1	0	6	44	64	220	268	95	12	3	0	0					
08:00	712	55.4	48.6	8.2	0	0	36	59	73	245	218	69	9	2	0	1					
09:00	577	56.1	51.9	5.5	2	0	0	5	30	198	254	68	16	3	1	0					
10:00	534	57.3	52.3	4.9	0	0	0	3	24	194	211	84	16	2	0	0					
11:00	567	58.3	52.6	5.4	0	0	0	7	35	170	211	125	16	1	2	0					
12:00	543	57.8	51.8	7	0	0	6	36	17	137	232	91	20	1	2	1					
13:00	584	57.6	51.9	5.9	0	0	0	22	38	180	223	102	16	1	0	2					
14:00	537	58.3	52	6.7	0	0	5	32	18	141	211	107	20	3	0	0					
15:00	598	58.8	53.4	5.1	0	0	0	2	19	168	245	132	27	3	2	0					
16:00	690	59	52.7	6.3	0	0	0	34	27	177	248	167	33	4	0	0					
17:00	706	59.4	53.6	5.7	0	0	0	7	46	163	264	174	46	3	3	0					
18:00	495	59.8	53.9	5.8	0	0	0	1	26	135	159	132	33	5	4	0					
19:00	302	60.3	54.8	5.6	0	0	0	0	3	77	107	81	25	6	3	0					
20:00	246	60.5	55.6	6.4	0	0	0	2	3	47	81	84	17	5	4	3					
21:00	178	60.8	56.1	6.5	0	0	0	0	8	19	68	58	11	8	5	1					
22:00	122	62.2	54.7	7.9	0	0	0	1	11	29	36	24	9	8	2	2					
23:00	66	61.6	54.6	6.8	0	0	0	0	3	16	28	8	5	5	1	0					
12H,7-19	7256	58.1	52	6.4	3	0	53	252	417	2128	2744	1346	264	31	14	4					
16H,6-22	8444	58.4	52.3	6.4	3	0	53	261	466	2426	3189	1629	330	52	26	9					
18H,6-24	8632	58.5	52.4	6.4	3	0	53	262	480	2471	3253	1661	344	65	29	11					
24H,0-24	9122	58.5	52.4	6.4	3	0	53	280	501	2597	3445	1744	368	83	34	14					

11148		BECKINGHAM			Site No: 11148001			Location A17 at Beckingham (W of River Witham)								
Tue 01-Mar-22 to Fri 04-Mar-22					Channel: Eastbound											
Time Period	Total Vehicles	85%ile Speed	Mean Speed	Stand Dev.	<11Mph	11-<21	21-<31	31-<41	41-<46	46-<51	51-<56	56-<61	61-<66	66-<71	71-<76	=>76
Fri 04-Mar-22																
00:00	58	57.3	53.5	5.5	0	0	0	0	1	16	30	7	3	0	0	1
01:00	36	60.5	55	6	0	0	0	0	1	8	13	9	3	2	0	0
02:00	36	61.1	55.7	6.1	0	0	0	0	0	7	15	8	4	1	1	0
03:00	42	60	54.6	5.5	0	0	0	1	1	4	22	9	5	0	0	0
04:00	71	57	53.3	5.2	0	0	0	0	2	19	37	9	2	1	1	0
05:00	163	55.4	51.1	4.4	0	0	0	0	9	82	54	15	2	1	0	0
06:00	395	56.3	50.6	5.8	0	0	0	15	45	160	112	52	10	1	0	0
07:00	696	55.7	51.3	5	0	0	0	15	57	245	289	79	10	1	0	0
08:00	665	56.2	51.1	5.2	0	0	0	14	58	275	214	95	7	2	0	0
09:00	571	55.8	50.3	6	0	0	0	31	75	196	189	71	7	2	0	0
10:00	620	54.7	47.7	8.2	0	1	41	38	96	225	171	41	4	3	0	0
11:00	641	56.9	51.9	5.1	0	0	0	5	58	210	253	100	12	3	0	0
12:00	706	56.2	50.7	6	0	0	0	39	71	239	246	94	16	1	0	0
13:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
14:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
15:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
16:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
17:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
18:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
19:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
20:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
21:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
22:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
23:00	0	-	-	-	0	0	0	0	0	0	0	0	0	0	0	0
12H,7-19	3899	55.9	50.5	6.1	0	1	41	142	415	1390	1362	480	56	12	0	0
16H,6-22	4294	55.9	50.5	6.1	0	1	41	157	460	1550	1474	532	66	13	0	0
18H,6-24	4294	55.9	50.5	6.1	0	1	41	157	460	1550	1474	532	66	13	0	0
24H,0-24	4700	56	50.7	6.1	0	1	41	158	474	1686	1645	589	85	18	2	1

11148 BECKINGHAM Site No: 11148001 Location A17 at Beckingham (W of River Witham)
 Tue 01-Mar-22 to Fri 04-Mar-22 Channel: Eastbound

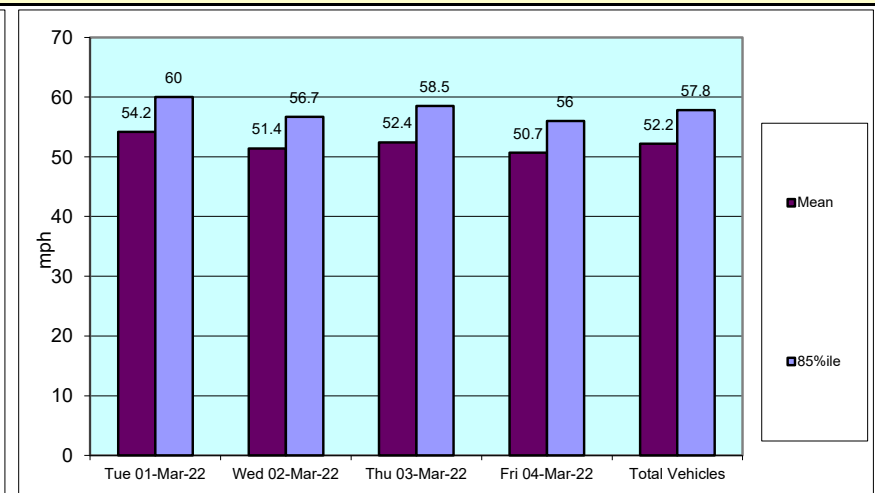
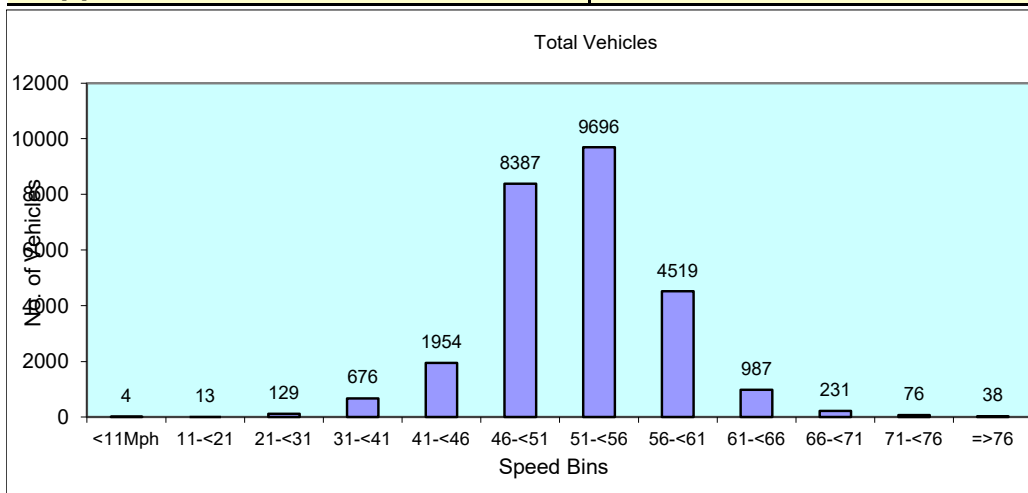
Time Period	Total Vehicles	85%ile Speed	Mean Speed	Stand Dev.	<11Mph	11-<21	21-<31	31-<41	41-<46	46-<51	51-<56	56-<61	61-<66	66-<71	71-<76	=>76
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Daily Totals

Tue 01-Mar-22	4030	60	54.2	6.2	1	0	2	47	154	954	1460	998	305	72	24	13
Wed 02-Mar-22	8858	56.7	51.4	6	0	12	33	191	825	3150	3146	1188	229	58	16	10
Thu 03-Mar-22	9122	58.5	52.4	6.4	3	0	53	280	501	2597	3445	1744	368	83	34	14
Fri 04-Mar-22	4700	56	50.7	6.1	0	1	41	158	474	1686	1645	589	85	18	2	1
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

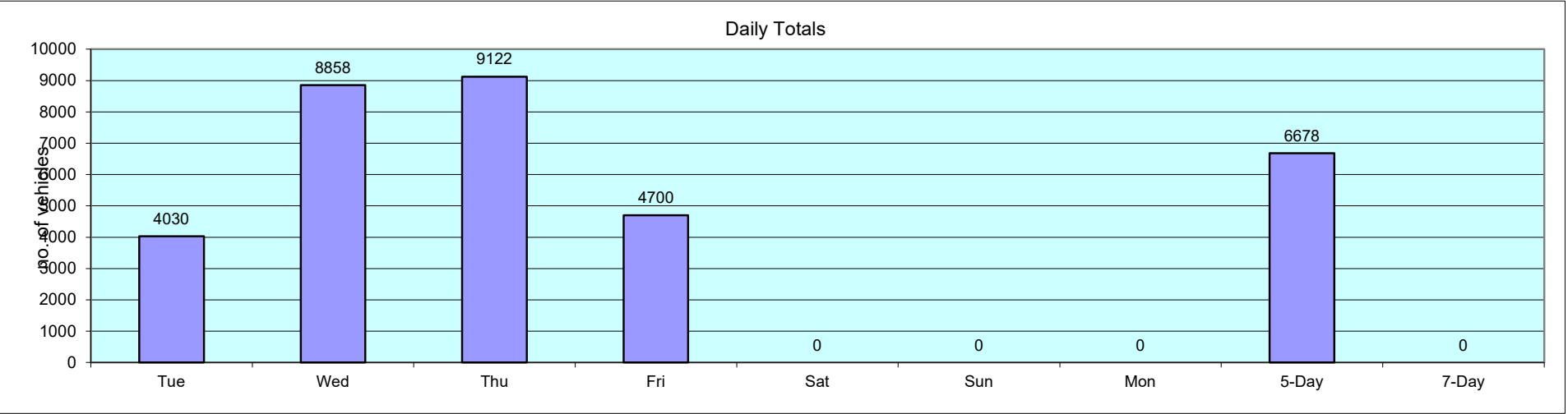
Total Vehicles

[--]	26710	57.8	52.2	6.2	4	13	129	676	1954	8387	9696	4519	987	231	76	38
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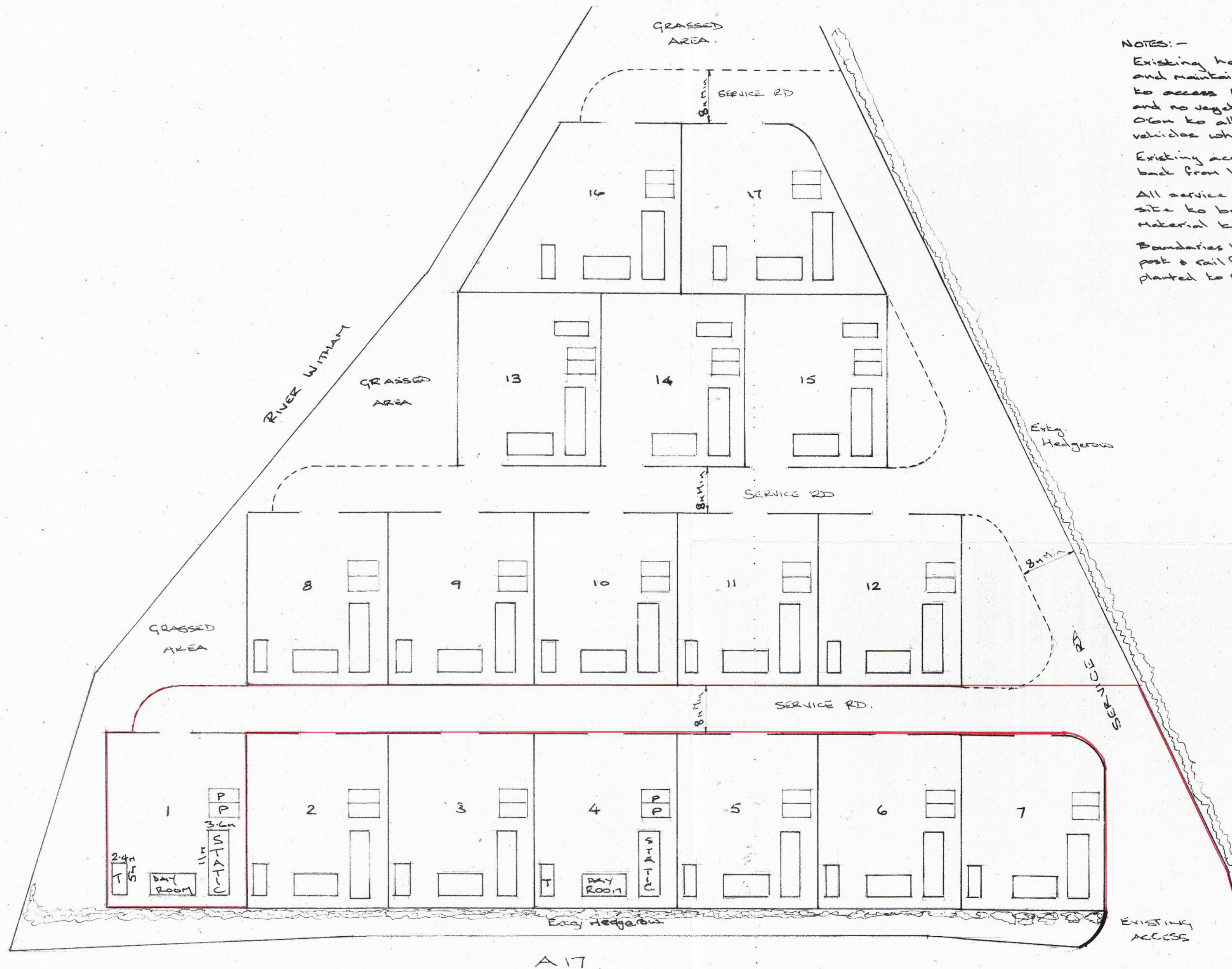


11148	BECKINGHAM				Site No: 11148001	Location	A17 at Beckingham (W of River Witham)		
					Channel: Eastbound				
	Tue	Wed	Thu	Fri	Sat	Sun	Mon	5-Day	7-Day
TIME PERIOD	01/03/22	02/03/22	03/03/22	04/03/22	05/03/22	06/03/22	07/03/22	Av	Av
Week Begin: 01-Mar-22									
00:00	0	59	51	58	-	-	-	42	-
01:00	0	40	52	36	-	-	-	32	-
02:00	0	30	54	36	-	-	-	30	-
03:00	0	32	37	42	-	-	-	28	-
04:00	0	64	96	71	-	-	-	58	-
05:00	0	198	200	163	-	-	-	140	-
06:00	0	456	462	395	-	-	-	328	-
07:00	0	782	713	696	-	-	-	548	-
08:00	0	703	712	665	-	-	-	520	-
09:00	0	608	577	571	-	-	-	439	-
10:00	519	532	534	620	-	-	-	551	-
11:00	495	525	567	641	-	-	-	557	-
12:00	386	553	543	706	-	-	-	547	-
13:00	420	510	584	0	-	-	-	379	-
14:00	346	541	537	0	-	-	-	356	-
15:00	244	583	598	0	-	-	-	356	-
16:00	113	691	690	0	-	-	-	374	-
17:00	352	669	706	0	-	-	-	432	-
18:00	335	444	495	0	-	-	-	319	-
19:00	275	294	302	0	-	-	-	218	-
20:00	187	211	246	0	-	-	-	161	-
21:00	130	142	178	0	-	-	-	113	-
22:00	139	105	122	0	-	-	-	92	-
23:00	89	86	66	0	-	-	-	60	-
12H,7-19	3210	7141	7256	3899	-	-	-	5377	-
16H,6-22	3802	8244	8444	4294	-	-	-	6196	-
18H,6-24	4030	8435	8632	4294	-	-	-	6348	-
24H,0-24	4030	8858	9122	4700	-	-	-	6678	-
Am	10:00	07:00	07:00	07:00	-	-	-	-	-
Peak	519	782	713	696	-	-	-	678	-
Pm	13:00	16:00	17:00	12:00	-	-	-	-	-
Peak	420	691	706	706	-	-	-	631	-

11148	BECKINGHAM		Site No: 11148001		Location		A17 at Beckingham (W of River Witham)		
			Channel: Eastbound						
	Tue	Wed	Thu	Fri	Sat	Sun	Mon	5-Day	7-Day
TIME PERIOD	01/03/22	02/03/22	03/03/22	04/03/22	05/03/22	06/03/22	07/03/22	Av	Av



Appendix B



NOTES:-

Existing hedgerows to site to be retained and maintained. Hedgerows to road adjacent to access to be cut back 2.4m from kerb and no vegetation to be higher than 0.6m to allow for clear vision from vehicles when entering/exiting site.

Existing access to be hard surfaced 15m back from highway.

All service roads and hardstanding within site to be finished with permeable material to allow for natural drainage.

Boundaries to individual plots to be post & rail fencing with natural hedge planted to form screening.

NORTH KESTIVEN B
- 3 FEB 2022
DISTRICT COUNCIL

TITLE	PROPOSED SITE FOR STATIC CARAVANS	M.W. DESIGN & BUILDING SERVICES Tel: 07970 659330
LOCATION	LAND ADJ. A17 & RIVER WITHAM, OPP. BICKINGHAM	
CLIENT	MICHELLE PRICE	
SCALE	1:500	
DATE	DEC 2021	REQ. NO. MU/DP-01

Appendix C

Calculation Reference: AUDIT-154301-220308-0331

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL
 Category : A - HOUSES PRIVATELY OWNED

TOTAL VEHICLESSelected regions and areas:

02 SOUTH EAST	
ES EAST SUSSEX	1 days
04 EAST ANGLIA	
CA CAMBRIDGESHIRE	1 days
SF SUFFOLK	2 days
08 NORTH WEST	
CH CHESHIRE	1 days
12 CONNAUGHT	
CS SLIGO	1 days
RO ROSCOMMON	1 days
14 LEINSTER	
WC WICKLOW	1 days
16 ULSTER (REPUBLIC OF IRELAND)	
CV CAVAN	1 days

This section displays the number of survey days per TRICS® sub-region in the selected set

Primary Filtering selection:

This data displays the chosen trip rate parameter and its selected range. Only sites that fall within the parameter range are included in the trip rate calculation.

Parameter: No of Dwellings
 Actual Range: 12 to 50 (units:)
 Range Selected by User: 4 to 50 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/13 to 16/06/21

This data displays the range of survey dates selected. Only surveys that were conducted within this date range are included in the trip rate calculation.

Selected survey days:

Monday	2 days
Wednesday	2 days
Thursday	3 days
Friday	2 days

This data displays the number of selected surveys by day of the week.

Selected survey types:

Manual count	9 days
Directional ATC Count	0 days

This data displays the number of manual classified surveys and the number of unclassified ATC surveys, the total adding up to the overall number of surveys in the selected set. Manual surveys are undertaken using staff, whilst ATC surveys are undertaken using machines.

Selected Locations:

Edge of Town	3
Neighbourhood Centre (PPS6 Local Centre)	6

This data displays the number of surveys per main location category within the selected set. The main location categories consist of Free Standing, Edge of Town, Suburban Area, Neighbourhood Centre, Edge of Town Centre, Town Centre and Not Known.

Selected Location Sub Categories:

Village	6
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This data displays the number of surveys per location sub-category within the selected set. The location sub-categories consist of Commercial Zone, Industrial Zone, Development Zone, Residential Zone, Retail Zone, Built-Up Zone, Village, Out of Town, High Street and No Sub Category.

Secondary Filtering selection:

Use Class:

C3 9 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

All Surveys Included

Population within 1 mile:

1,000 or Less	2 days
1,001 to 5,000	5 days
5,001 to 10,000	2 days

This data displays the number of selected surveys within stated 1-mile radii of population.

Population within 5 miles:

5,000 or Less	2 days
5,001 to 25,000	2 days
25,001 to 50,000	3 days
50,001 to 75,000	2 days

This data displays the number of selected surveys within stated 5-mile radii of population.

Car ownership within 5 miles:

0.6 to 1.0	4 days
1.1 to 1.5	4 days
1.6 to 2.0	1 days

This data displays the number of selected surveys within stated ranges of average cars owned per residential dwelling, within a radius of 5-miles of selected survey sites.

Travel Plan:

Yes	2 days
No	7 days

This data displays the number of surveys within the selected set that were undertaken at sites with Travel Plans in place, and the number of surveys that were undertaken at sites without Travel Plans.

PTAL Rating:

No PTAL Present	9 days
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This data displays the number of selected surveys with PTAL Ratings.

Covid-19 Restrictions	Yes	At least one survey within the selected data set was undertaken at a time of Covid-19 restrictions
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LIST OF SITES relevant to selection parameters

1	CA-03-A-07	MIXED HOUSES	CAMBRIDGESHIRE
	FIELD END		
	NEAR ELY		
	WITCHFORD		
	Neighbourhood Centre (PPS6 Local Centre)		
	Village		
	Total No of Dwellings:	32	
	Survey date: THURSDAY	27/05/21	Survey Type: MANUAL
2	CH-03-A-12	SEMI DETACHED HOUSES	CHESHIRE
	MEADOW DRIVE		
	NORTHWICH		
	BARNTON		
	Neighbourhood Centre (PPS6 Local Centre)		
	Village		
	Total No of Dwellings:	33	
	Survey date: FRIDAY	30/04/21	Survey Type: MANUAL
3	CS-03-A-03	MIXED HOUSES	SLIGO
	TOP ROAD		
	STRANDHILL		
	STRANDHILL		
	Neighbourhood Centre (PPS6 Local Centre)		
	Village		
	Total No of Dwellings:	30	
	Survey date: THURSDAY	27/10/16	Survey Type: MANUAL
4	CV-03-A-03	DETACHED HOUSES	CAVAN
	R212 DUBLIN ROAD		
	CAVAN		
	PULLAMORE NEAR		
	Edge of Town		
	No Sub Category		
	Total No of Dwellings:	37	
	Survey date: MONDAY	22/05/17	Survey Type: MANUAL
5	ES-03-A-06	MIXED HOUSES	EAST SUSSEX
	BISHOPS LANE		
	RINGMER		
	Neighbourhood Centre (PPS6 Local Centre)		
	Village		
	Total No of Dwellings:	12	
	Survey date: WEDNESDAY	16/06/21	Survey Type: MANUAL
6	RO-03-A-03	DETACHED HOUSES	ROSCOMMON
	N61		
	BOYLE		
	GREATMEADOW		
	Edge of Town		
	No Sub Category		
	Total No of Dwellings:	23	
	Survey date: THURSDAY	25/09/14	Survey Type: MANUAL
7	SF-03-A-06	DETACHED & SEMI-DETACHED	SUFFOLK
	BURY ROAD		
	KENTFORD		
	Neighbourhood Centre (PPS6 Local Centre)		
	Village		
	Total No of Dwellings:	38	
	Survey date: FRIDAY	22/09/17	Survey Type: MANUAL
8	SF-03-A-08	MIXED HOUSES	SUFFOLK
	STANNINGFIELD ROAD		
	NEAR BURY ST EDMUNDS		
	GREAT WHELNETHAM		
	Neighbourhood Centre (PPS6 Local Centre)		
	Village		
	Total No of Dwellings:	34	
	Survey date: WEDNESDAY	16/09/20	Survey Type: MANUAL

LIST OF SITES relevant to selection parameters (Cont.)

9	WC-03-A-01	DETACHED HOUSES	WICKLOW
	STATION ROAD		
	WICKLOW		
	CORPORATION MURRAGH		
	Edge of Town		
	No Sub Category		
	Total No of Dwellings:	50	
	Survey date: MONDAY	28/05/18	Survey Type: MANUAL

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

TRIP RATE for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

TOTAL VEHICLES**Calculation factor: 1 DWELLS****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate	No. Days	Ave. DWELLS	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	9	32	0.083	9	32	0.280	9	32	0.363
08:00 - 09:00	9	32	0.190	9	32	0.498	9	32	0.688
09:00 - 10:00	9	32	0.166	9	32	0.260	9	32	0.426
10:00 - 11:00	9	32	0.190	9	32	0.215	9	32	0.405
11:00 - 12:00	9	32	0.228	9	32	0.201	9	32	0.429
12:00 - 13:00	9	32	0.221	9	32	0.221	9	32	0.442
13:00 - 14:00	9	32	0.298	9	32	0.277	9	32	0.575
14:00 - 15:00	9	32	0.263	9	32	0.298	9	32	0.561
15:00 - 16:00	9	32	0.391	9	32	0.318	9	32	0.709
16:00 - 17:00	9	32	0.363	9	32	0.256	9	32	0.619
17:00 - 18:00	9	32	0.450	9	32	0.280	9	32	0.730
18:00 - 19:00	9	32	0.318	9	32	0.270	9	32	0.588
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			3.161			3.374			6.535

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: $COUNT/TRP*FACT$. Trip rates are then rounded to 3 decimal places.

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Parameter summary

Trip rate parameter range selected:	12 - 50 (units:)
Survey date range:	01/01/13 - 16/06/21
Number of weekdays (Monday-Friday):	9
Number of Saturdays:	0
Number of Sundays:	0
Surveys automatically removed from selection:	0
Surveys manually removed from selection:	0

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are shown. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

Appendix D

Vehicle travelling on
the grass verge
against the flow of
traffic on A17.



Vehicle travelling
on the grass verge
against the flow of
traffic on A17.



Vehicle turns into
site.

