

Great Abington Parish Council

Land Settlement Estate, Great Abington

Transport Statement

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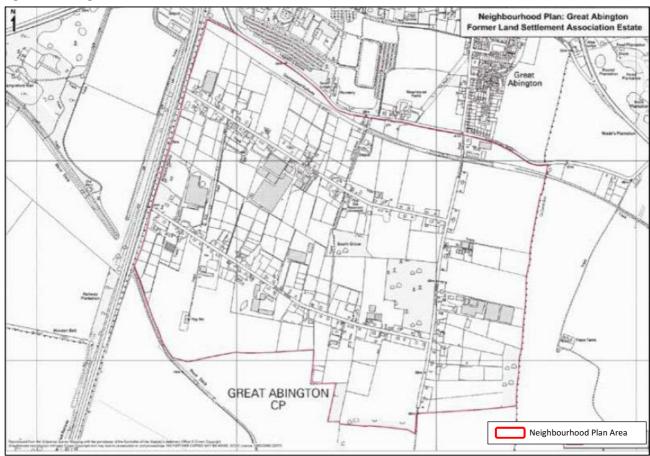


I Introduction

I.I Background

- 1.1.1 Phil Jones Associates (PJA) have been commissioned by Great Abington Parish Council to prepare a Transport Statement (TS) in support of the emerging Neighbourhood Plan for the Land Settlement Estate (LSE) located to the south of Great Abington, Cambridgeshire.
- 1.1.2 Great Abington Parish Council have gained support from South Cambridgeshire District Council (SCDC) to develop a Neighbourhood Plan that sets out a spatial planning policy for the former Land Settlement Association estate. The Neighbourhood Plan area comprises 62 existing dwellings and some commercial units of the LSE and is located south to the village of Great Abington within the SCDC area. The location of the Neighbourhood Plan area is shown on Figure 1-1 below.

Figure 1-1: Neighbourhood Plan Area¹



¹ Source: Pre-Submission Neighbourhood Plan for the former Land Settlement Association's Estate at Great Abington 2017 to 2031 (June 2017)



- 1.1.3 The Neighbourhood Plan will provide a framework against which all future applications in this area can be assessed and planning decisions made. The essential aim of the Neighbourhood Plan is to retain the special character of the Land Settlement while allowing limited development.
- 1.1.4 Policy 2 of the emerging Neighbourhood Plan proposes that one additional dwelling for each of the 62 plots would be allowed with Policy 3 stipulating that developments which would result in a substantial increase in traffic on the Land Settlement estate would not be permitted.

1.2 Scoping Discussion

1.2.1 A consultation response received from Highways Officers at Cambridgeshire County Council (CCC) suggested that a TS is prepared to consider the transport implications of the worst-case scenario in terms of the number (and locations) of additional dwellings that could be built within the Neighbourhood Plan area. In addition, concern was expressed regarding Policy 3 and the ability to quantify what would constitute a substantial increase in traffic.

1.3 Scope of the Report

- 1.3.1 The impact of the forecast increase in vehicle movements on the internal estate roads will be assessed with regard to the limited width of the estate roads and availability of passing places. This assessment hereby considers vehicle trips associated with additional residential units that form part of Policy 1 of the Neighbourhood Plan. Any future transport impact on the estate roads associated with development not envisaged as part of the Neighbourhood Plan would need to be subject to a separate assessment.
- 1.3.2 To respond to CCC's concerns about the ability to quantify what would constitute a substantial increase in traffic, the severity of impact has been defined as the point at which the increase in journey time delay becomes unpredictable as the performance of nearby junctions changes to an extent that it does not match the expectations of the road users.
- 1.3.3 This assessment has been informed by a desk study as well as information obtained from a site visit on Monday 20th November 2017 and a meeting with Great Abington Parish Council on the day of visit.

I.4 Aim and Purpose

1.4.1 The Neighbourhood Plan has now reached pre-submission stage which is a formal consultation stage required by government regulations. The aim of this TS is to assess the likely transport impact associated with the worst-case scenario of 62 additional dwellings that could be built within the Neighbourhood Plan area.



- 1.4.2 This Transport Statement will be submitted by Great Abington Parish Council to CCC acting as Highways Authority, who will review the document and determine if, when and what transport improvements would be required should all the additional dwellings be built.
- 1.4.3 In addition, this report will be made available to Abington Estate Management Limited (AEML) which is a limited company that owns and maintains the private, un-adopted estate roads. The company collects financial contributions from all property owners within the estate to improve and maintain the private roads. As the company has a legal obligation to ensure the continued maintenance of the roads, this report will inform the company's future work.

1.5 Structure of the Report

- 1.5.1 The remainder of the report is structured as follows:
 - Chapter 2 Existing Conditions;
 - Chapter 3 Travel Demand;
 - Chapter 4 Traffic Impact Assessment; and
 - Chapter 5 Summary and Conclusion.



2 Existing Conditions

2.1 Internal LSE Road Network

- 2.1.1 The LSE comprises of 62 plots of land that are bounded by a network of unadopted roads which are owned and maintained by Abington Estate Management Limited (AEML).
- 2.1.2 As shown on Figure 2-1, North Road and South Road run in a west-east alignment through the estate and provide access to the individual land plots within the Neighbourhood Plan area. The two roads adjoin Newmarket Road at their western extent and Chalky Road at their eastern extent via priority junctions (see Figure 2-3).
- 2.1.3 North Road and South Road are single lane unadopted roads. Cutting Road forms and additional access road to and from the LSE as it links North Road with Pampisford Road.
- 2.1.4 The road network within the LSE is subject to a speed limit of 20mph and speed humps are provided at irregular intervals.

Figure 2-1: LSE Road Network





Figure 2-2: LSE Internal Road Network



- 2.1.5 The estate roads are approximately 3m in width and, hence, are restricted to one-way operation. As shown in Figure 2-2, passing bays are provided at irregular intervals to allow opposing vehicles to pass one-another. During the site visit it was confirmed that the few commercial land uses operating within the estate do generate HGV movements and larger delivery vans. However, the number of passing places as well as road widenings at junctions within the estate, allow for drivers to safely pass each other at these locations.
- 2.1.6 At the junction between North Road and Newmarket Road, recorded visibility splays along Newmarket Road are restricted to 60m to the north and south of the junction due to overhanging trees and overgrown hedges on either side of the junction. Newmarket Road is subject to the national speed limit and, hence, recommended visibility splays of 200m in each direction are required for vehicles exiting the estate as set out in Manual for Streets (MfS). There are 'SLOW' road markings present on Newmarket Road approximately 150m north and south of the junction with North Road to warn drivers of the approaching junction.
- 2.1.7 Similar observations have been made during the site visit at the junction between South Road and Newmarket Road where overgrown hedges and tree covers restrict visibility to approximately 100m north along Newmarket Road. Again, 'SLOW' road markings present on Newmarket Road approximately 75m north and south of the junction with South Road to warn drivers of the approaching junction.



2.2 Surrounding Road Network

- 2.2.1 Newmarket Road is a single two-way carriageway subject to the national speed limit. The road runs along the western boundary of the LSE, parallel to the A11 and adjoins the A11 approximately 800m south of the junction with South Road.
- 2.2.2 At its northern extent, Newmarket Road forms the southern arm of a five-arm roundabout, hereafter referred to as Granta Park Roundabout. Granta Park Roundabout provides access to the Granta Business Park as well as the wider highway network and the village of Great Abington. The western arm of the roundabout provides direct access to the north/southbound slip roads of the A505 and northbound slip road of the A11.

Figure 2-3: Access Junctions off Newmarket Road



- 2.2.3 To the north, the LSE is bounded by Pampisford Road which is a two-way single carriageway subject to a speed limit of 30mph. Routing eastbound from Granta Park Roundabout, Pampisford Road provides access to a range of residential as well as commercial units and forms the major arm of junctions with a number of local distributor roads. At its eastern extent, Pampisford Road adjoins the A1307 Cambridge Road via a priority junction.
- 2.2.4 As shown on Figure 2-4, the estate can be accessed from Pampisford Road via a priority junction with Cutting Road located approximately 450m west to the junction with High Street. A pedestrian crossing point with tactile pavement is present at this location. Based on a vehicle speed of 30mph on Pampisford Road, the required visibility splays of 43m can be achieved at this location as set out in Manual for Streets (MfS).



Figure 2-4: Access Junction off Pampisford Road



2.3 Sustainability

2.3.1 As set out in Section 6.11 of the Pre-Submission Neighbourhood Plan, there is limited provision of community infrastructure within the Neighbourhood Plan area. Nonetheless, the LSE is situated south of Great Abington village centre, which provides access to a range of local amenities including a village store, post office, Great Abington Primary School as well as Great Abington Recreation Ground. A public house and open green space with sports facilities are also located within the village centre. The business park and employment centre 'Granta Park' is located at the junction between Pampisford Road and Newmarket Road and offers a wide range of employment opportunities.

2.4 Pedestrian & Cycle Infrastructure

Walking

2.4.1 There currently are no footways or pedestrian crossing points present along Newmarket Road with pedestrian access to the estate gained via Chalky Road, a narrow private path that forms a crossroads with Pampisford Road and High Street. A refuge crossing point is present at this location and allows pedestrians to safely cross the road and continue their journey on High Street to and from Great Abington village centre.



Figure 2-5: Pedestrian Access at Pampisford Rd / High St



- 2.4.2 Residents can also access the estate via Cutting Road, with an informal crossing point in the form of dropped kerbs provided at the junction with Pampisford Road. A footway stretches along the northern edge of Pampisford Road and is segregated from the road through a grass verge. The footway provides access to a public footpath that links to Great Abbington village centre.
- 2.4.3 At the southern extent of Chalky Road, a public footpath extends beyond the Neighbourhood Plan area and provides links to rural lanes and residential outskirts of surrounding villages.

Cycling

- 2.4.4 The residential character of South Road and North Road encourage cycling across the estate. Cycle access to the site can be gained via the three vehicular access points into the LSE. There is no designated cycle infrastructure present on Newmarket Road with high vehicle speeds discouraging journeys to be undertaken by bike along this section of road. It is expected that access by bike to and from the estate will be via Cutting Road as well as the shared cycle/footpath off Chalky Road that adjoins the junction with Pampisford Road and High Street. A refuge crossing point allows cyclists to safely cross Pampisford Road at this location and continue their journey towards Abington village centre.
- 2.4.5 There is a dedicated off-road cycle route along the A505 that can be accessed from Station Road, which forms the western arm of the Granta Park Roundabout. The cycle path provides direct access to Whittlesford Parkway station and adjoins a range of other on-road and off-road cycleways along its stretch. In the vicinity of Whittlesford Parkway station, cyclists can access Route 11 of the National Cycle Network. Once completed the route will connect Harlow in Essex with Wigginhall St Germans (south of King's Lynn) in Norfolk via Cambridge and Ely.



2.5 Public Transport

Bus Services

2.5.1 The nearest bus stop for services to and from the LSE is located at the junction between High Street / Pampisford Road. The stop for northbound services routing along High Street takes the form of a bus shelter with seating provided for waiting passengers. On the opposite side of the carriageway, adjacent existing residential driveways, a flag post indicates the bus stop for eastbound services routing along Pampisford Road. The stops are served by routes 13, 13A, 13B and 13C, which run between Haverhill and Cambridge. The details of the services are summarised in Table 2-1.

Table 2-1: Existing Bus Services in the vicinity of the LSE

Route	Destination	Peak Hour Frequency	Operating Hours	Days of Operation
12	Haverhill – Cambridge	One comice nor hour	06:46 – 22:04	Mo – Sun
13	Cambridge – Kedington	One service per hour	07:25 – 23:49	IVIO – Suri
13A	Haverhill – Cambridge	One comice nor hour	06:16 – 17:09	Mo – Sun
13A	Cambridge – Haverhill	One service per hour	07:55 – 18:55	IVIO – Suri
13B	Haverhill – Cambridge	One service per day	07:36	Mo – Fr
13C	Haverhill – Cambridge	One service per day	08:08	Mo – Fr

2.5.2 Cambridgeshire County Council has indicated that the Cambridge-Haverhill corridor has the potential for improvement to enhance bus services. This includes a proposal for an off-road busway to Cambridge partly along the old Haverhill railway line, via Sawston as well as options to create or enhance new off-road cycle and pedestrian routes crossing the A11, connecting the village of Babraham with Great Abington as well as key employment sites at Babraham Research Campus and Granta Park. These proposals are part of a wider package of major public transport improvements across South Cambridgeshire, based on a corridor approach, as set out in the SCDC's adopted Transport Strategy for Cambridge and South Cambridgeshire (TSCSC).

Rail Services

- 2.5.3 Whittlesford Parkway is located approximately 5km to the south-west of the LSE and can be accessed by bike via the dedicated off-road cycle route along the A505. The station is operated by Greater Anglia and offers two peak hour services between Cambridge and London Liverpool Street. The station provides 48 sheltered bicycle parking spaces and has a car park with a total of 383 spaces.
- 2.5.4 In addition, Cambridge Station can be accessed via local bus service 13 with a journey time of approximately 40 minutes. Cambridge station is within 10km cycle distance from the LSE and provides 2,850 secure cycle parking spaces at the station. The station is operated by Greater Anglia



with regular peak hour services to strategic destinations such as Birmingham New Street, London Liverpool Street, London Kings Cross and Stansted Airport.

2.6 Road Safety

- 2.6.1 Accident data has been obtained from Cambridgeshire County Council for the most recent five-year period between and including 2012 2016. The results show that there have been two accidents recorded on the road network surrounding the LSE, both of which resulted in slight injuries. One accident occurred in December 2012 on Pampisford Road in the vicinity of the junction with Cutting Road and was caused by a collision between a goods vehicle and car. The other accident was recorded at the Granta Park Roundabout and occurred in March 2012 as a result of a collision between a motorcyclist and car.
- 2.6.2 Based on the most recent data available, no accidents were recorded at the junction between Pampisford Road / High Street from where pedestrian and cycle access to the site is taken. Thus, the low number of accidents and level of severity suggests that there are no highway safety issues on the surrounding road network that would be exacerbated by the potential development of additional 62 residential dwellings within the estate.



3 Travel Demand

3.1.1 This chapter provides an overview of the methodology used to calculate existing and forecast travel demand as well as likely distributions of trips to and from the estate.

3.2 Existing Traffic Patterns

- 3.2.1 To establish the existing traffic conditions on the surrounding road network, four 24-hr Automatic Traffic Count (ATC) surveys were undertaken on the following road sections for a week-long period between and including 11th January 2018 and 17th January 2018:
 - Pampisford Road (West to the junction with High Street);
 - North Road;
 - · South Road; and
 - Newmarket Road (between the junctions with North Road and South Road).
- 3.2.2 The surveys were undertaken outside of school holidays to record neutral conditions. The surveys identified weekday AM (08:00 09:00) and PM (17:00 18:00) peak hour flows as shown in in Table 3-1. The ATC also recorded vehicle speeds at the respective locations and an overview of the weekday 85th percentile speed for each road segment is provided in Table 3-1. The traffic survey outputs including are provided in full in **Appendix A**.

Table 3-1: Existing Traffic Flows

	North	Road	South	Road	Cuttin	g Road	Newmar	ket Road	Pampisfo	ord Road
	West	East	West	East	North	South	North	South	West	East
AM Peak Hour	11	16	15	19	14	16	19	108	289	50
PM Peak Hour	8	11	8	19	14	16	10	173	81	113
85 th percentile speeds	13.4mph	14.8mph	13.3mph	13.9mph	13.5mph	16.6mph	60.5mph	65.3mph	29.0mph	29.7mph

- 3.2.3 Based on the information presented in Table 3-1, arrivals at and departures from the LSE were identified at the access points on North Road, South Road and Cutting Road. As such, the LSE currently generates an average of 91 two-way car trips during the weekday AM Peak Hour and 76 two-way car trips during the weekday PM Peak Hour.
- 3.2.4 As noted previously, there are a range of commercial units operating on site that are expected to generate a number of Heavy Goods Vehicles (HGVs) on a daily basis. Table 3-2 shows the average number of recorded weekday HGV movements during the respective AM and PM peak hour periods.



Table 3-2: Existing Trip Generation LSE – HGV Trips (AM and PM Peak Hour)

	AM Peak	(08:00 – 09:00)	PM Peak	(16:00 – 17:00)
	Arrivals	Departures	Arrivals	Departures
Access to North Road	0	1	0	2
Access to South Road	0	3	0	1
Access to Cutting Road	0	1	1	0

3.2.5 The results in Table 3-2 show that a total of five HGV two-way trips were recorded in the AM Peak hour and four HGV two-way trips were recorded in the PM Peak hour. Information obtained from the traffic survey results attached in **Appendix A** show that a total of 24 HGVs trips arrive at the LSE on an average weekday via the three access points. Thus, the results in Table 3-2 suggest that the majority of HGV movements as well as deliveries to and from the commercial land uses occur outside of network peak hours.

3.3 Forecast Trip Generation

- 3.3.1 As a result of the commercial units operating on-site, it is expected that a large proportion of vehicles arriving at the estate in the AM Peak Hour are not linked to the existing 62 plots and residential dwellings within the NP area. A similar assumption has been made about the recorded number of vehicles departing from the estate in the PM Peak Hour. In the absence of information about the split between residential and commercial vehicle trips to and from the estate, the existing transport conditions at the LSE as displayed in Table 3-1 are therefore considered to be not representative of the forecast travel patterns associated with 62 additional residential dwellings.
- 3.3.2 Thus, to identify the likely vehicle trip generation associated with the proposed development of 62 additional dwellings across the Neighbourhood Plan area, the TRICS database has been interrogated to identify trip rates from comparable sites. The following criteria have been used to interrogate the TRICS database:
 - 'Houses privately owned' category;
 - All sites in England excluding Greater London;
 - Dwelling range: 6 150 units;
 - 'Edge of Town' & 'Suburban location;
 - 'Weekday Surveys' only; and
 - Population with 5 miles: <125,000.
- 3.3.3 The resultant trip rates and vehicle trips are identified in Table 3-3 below and the full TRICS outputs are included within **Appendix B** for reference.



Table 3-3: TRICS Vehicle Trip Rates and Vehicle Trips – 'Privately Owned Houses'

	TRICS Veh	icle Trip Rates (p	per dwelling)	Vehi	cle Trips (62 Dw	ellings)
	Arrivals	Departures	Two-way	Arrivals	Departures	Two-way
AM Peak Hour (08:00 - 09:00)	0.145	0.380	0.525	9	24	33
PM Peak hour (17:00 -18:00)	0.365	0.168	0.533	23	10	33

- 3.3.4 The results in Table 3-3 show that the worst-case scenario in terms of the 62 additional dwellings that could be built within the Neighbourhood Plan area would result in 33 additional two-way trips in the AM Peak Hour and 33 additional two-way trips in the PM Peak Hour.
- 3.3.5 It is expected that there will be no increase in HGV movements to and from the LSE as a result of the development of the additional 62 dwellings.

Trip Distribution

3.3.6 Taking into consideration the opportunity to access the LSE at three separate location, the forecast traffic associated with the additional dwelling within the NP area has been distributed across all three access points. As mentioned in Section 3.3.1 of this report, the existing pattern of arrivals and departures includes residential as well as commercial trips currently generated by the estate. A review of the survey data suggests a relatively even split of vehicle movements across all three access points, with the majority of two-way trips forecast to route along South Road (38%) in the AM Peak Hour and along Cutting Road (39%) in the PM Peak Hour. To provide a robust assessment, the distribution of forecast vehicle trips has therefore been adjusted to reflect existing travel patterns and resultant vehicle movements on each access road is shown in Table 3-4.

Table 3-4: Forecast Distribution of Development Trips

	North	Road	South	Road	Cuttin	g Road	Total
	West	East	West	East	North	South	
AM Peak Hour	7	3	9	3	8	3	33
PM Peak Hour	3	5	3	9	5	8	33



4 Traffic Impact Assessment

4.1.1 This chapter assesses the cumulative transport impact associated with the potential development of 62 additional dwellings within the Neighbourhood Plan area.

4.2 Committed Developments

4.2.1 The following presents a summary of likely traffic impact associated with committed development schemes in the vicinity of the LSE. Information regarding the likely number of vehicles movements generated by the relevant scheme as well as contributions to infrastructure improvements on the surrounding road network has been obtained from Transport Assessment reports submitted as part of the respective planning applications.

Granta Park

- 4.2.2 Located between the A11 and Great Abington, full planning permission has been granted in December 2015 for the development of new B1(b) Research and Development floorspace (21,243sq.m GFA) known as the Array Multiplex Building (S/1109/15/FL). In addition, an outline planning application has also been granted in December 2015 for the erection of research and development buildings with a combined floor area up to 34,220sq.m (S/1365/10). The two schemes will be served by the existing access at the western end of Granta Park. A Transport Assessment prepared by Glanville Consultants concluded that the schemes will generate:
 - 1,791 two-way vehicle trips in the AM Peak Hour; and
 - 2,120 two-way vehicle trips in the PM Peak Hour.
- 4.2.3 The TA concluded that nearby junctions, and especially Granta Park Roundabout will be "constrained by the 'without development' traffic impact" and that "capacity constraints in the base year are matters for the Highway Authority to address."
- 4.2.4 Moreover, it should be noted that in relation to a previous outline application S/2495/04/0, an associated S106 agreement committed Granta Park Ltd to improve pedestrian and cycle links between the main Great Abington village and the Land Settlement Estate. Granta Park Ltd has also provided a contribution towards the construction of a strategic cycle path linking Cambridge with Granta Park. In addition, a scheme of traffic calming along Pampisford Road has been implemented.

Land off Linton Road

4.2.5 The site is located to the east of Great Abington on the south side of Linton Road. Full planning application has been submitted in December 2016 for the erection of 45 homes comprising a mix of flats, bungalows and houses (S/3543/16/FL). A Transport Statement prepared by Transport Planning Associates (dated November 2016) forecasts a total of 44 two-way vehicle trips in the AM



Peak Hour and 26 two-way vehicle trips during the PM Peak Hour as a result of the development proposals. The report concludes that the cumulative transport impacts of the development are deemed not to be severe.

Strawberry Farm

4.2.6 In September 2017 outline planning application was granted for the re-development of parts of Strawberry Farm and the erection of eight residential dwellings (S/1433/16/OL). On land off Pampisford Road. A Transport Statement prepared by Glanville Consultants in May 2016 estimated a total of five two-way vehicles trips in the AM Peak Hour period and four two-way vehicle trips in the PM Peak Hour period. The report concluded that the forecast development traffic will not have a perceptible impact on the surrounding road network in terms of capacity and safety.

4.3 Development Traffic Impact

- 4.3.1 Policy 3 of the Pre-Submission Neighbourhood Plan states that "any development proposals that would individually or cumulatively lead to substantial increases in traffic would not be appropriate in the Neighbourhood Plan area due to the limited capacity of the road network."
- 4.3.2 The following sections summarise the methodology used to assess the transport impact associated with the potential development of 62 additional dwellings within the Neighbourhood Plan area.

Internal LSE Network

- 4.3.3 As set out in Section 1.3 of this report, the impact of the forecast increase in vehicle movements on the estate roads has been assessed with regard to the limited width of the estate roads and availability of passing places. During the site visit the location of 33 passing places along the estate roads has been recorded and subsequently mapped using ArcGIS software.
- 4.3.4 These passing places include 26 formal and seven informal passing places. Formal passing places are those that have been provided and maintained by AEML and consist of tarmacked road widenings at key locations. Informal passing places are natural road widenings resulting from overrun or removed grass verges as well as concrete road widenings that form part of access arrangements into driveways or commercial units.
- 4.3.5 The location of both the formal and informal passing places is shown in Figure 4-1.



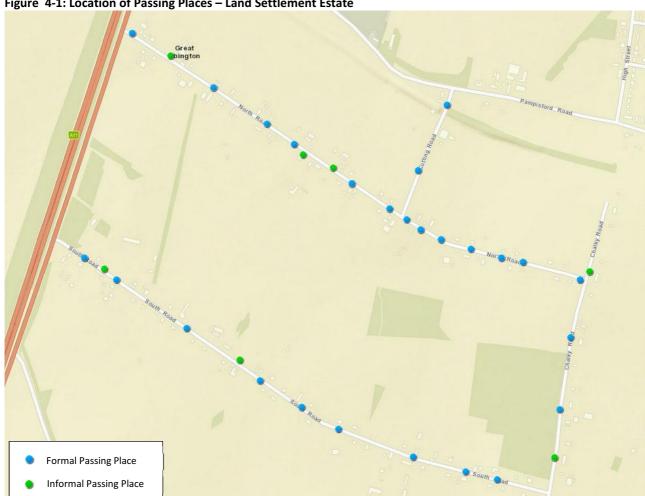


Figure 4-1: Location of Passing Places - Land Settlement Estate

North Road

Passing Places

- 4.3.6 As shown in Figure 4-1, there are 12 formal and three informal passing places, along North Road, not including the widening of road junction at the eastern extent of the estate road which was observed to be occupied by on-street parking during the day of visit. North Road is approximately 1.5km long, which means that on average there is an opportunity for opposing traffic to pass each other every 100m. Based on the0 vehicle speed limit of 20mph within the LSE, it would take a vehicle 11 seconds to travel on a road section on North Road that is restricted to one-way operation.
- 4.3.7 Taking into consideration the existing westbound and eastbound traffic during the peak hours (Table 3-1) and distribution of forecast development traffic (Table 3-4), there will be 18 westbound trips opposed by 19 eastbound trips during the AM Peak Hour, which presents an increase in ten two-way trips compared to the existing situation. Assuming a worst case that vehicles travel through the narrow sections individually rather than in groups, this means there would be a vehicle



travelling westbound for 198 seconds of the AM Peak Hour and a vehicle travelling westbound for 209 seconds, leaving almost 53 minutes when no vehicles will travel along the narrow road sections, which equates to 88% of the entire AM Peak Hour period.

- 4.3.8 In the PM Peak Hour, it is predicted that 11 westbound trips will be opposed by 16 eastbound trips on North Road as a result of 62 additional dwellings within the LSE. This means there would be a vehicle travelling westbound for 121 seconds of the PM Peak Hour and a vehicle travelling westbound for 176 seconds, leaving almost 55 minutes when no vehicles will travel along the narrow road sections, which equates to 91% of the entire PM Peak Hour period.
- 4.3.9 The frequency and quality of passing places provided along North Road provide opportunities for vehicles to safely pass each other. This has been confirmed during observations during the site visit. It is important to note that the three informal passing places are within ownership of the respective landowner and, hence, are not within control of AEML. Any future changes to individual land plots within the LSE might therefore affect the availability of these passing places removing or adding additional opportunities for drivers to pass each other.
- 4.3.10 The formal passing places on North Road have been observed to be in good condition with the occasional erosion recorded during the day of visit. It is acknowledged that AEML will continue to monitor the quality of existing formal passing places and maintain them accordingly to ensure safety for all road users.

Visibility Splays

- 4.3.11 As illustrated on the images in Figure 4-2 on the next page, the forward visibility along North Road is not restricted for the majority of its length, which allows drivers of all vehicles to identify opposing traffic in time. Vehicles turning out of private properties as well as HGVs manoeuvring the estate road benefit from good visibility along the estate roads and low vehicle speeds.
- 4.3.12 As mentioned in Chapter 2 of this report, visibility splays at the junction with Newmarket Road are restricted to 60m to the north and south of the junction due to overhanging trees and overgrown hedges on either side of the junction. Given that the existing situation has not resulted in any accidents at this location during the most recent five-year period, it is expected that forecast development traffic will not exacerbate the road safety issues at this location. However, to achieve the recommended visibility splays of 200m in each direction as set out in Manual for Streets (MfS), it is recommended that AEML investigated opportunities to cut back hedgerows and trees to allow all road users to safely enter and exit the estate via North Road.



Figure 4-2: Examples of Passing Place on North Road



South Road

Passing Places

- 4.3.13 South Road is also approximately 1.5km long and provides nine formal and two informal passing places along its stretch, not including the widening of road at the priority junctions at the western and eastern extent of the estate road. This means that on average there is an opportunity for opposing traffic to pass each other every 136m. Based on the vehicle speed limit of 20mph within the LSE, it would take a vehicle 15 seconds to travel on a road section that prevents safe passing manoeuvres. The addition of traffic associated with the proposed development of 62 dwellings to existing vehicle flows on South Road would result in 24 westbound trips opposed by 22 eastbound trips during the AM Peak Hour, which presents an increase in 12 two-way trips compared to the existing situation. This means there would be a vehicle travelling westbound for 360 seconds of the AM Peak Hour and a vehicle travelling westbound for 330 seconds, leaving almost 49 minutes when no vehicles will travel along the narrow road sections, which equates to 81% of the entire AM Peak Hour period.
- 4.3.14 In the PM Peak Hour, it is predicted that 11 westbound trips will be opposed by 28 eastbound trips on North Road as a result of 61 additional dwellings within the LSE. This means there would be a vehicle travelling westbound for 165 seconds of the PM Peak Hour and a vehicle travelling westbound for 420 seconds, leaving approximately 50 minutes when no vehicles will travel along the narrow road sections, which equates to 84% of the entire PM Peak Hour period.

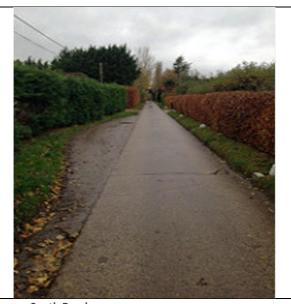
- 4.3.15 The frequency and quality of passing places provided along North Road provide opportunities for vehicles to safely pass each other. This has been confirmed during observations during the site visit. Again, the recorded informal passing places are within ownership of the respective landowner and, hence, are not within control of AEML. Any future changes to individual land plots might therefore affect the availability of these passing places removing or adding additional opportunities for drivers to pass each other.
- 4.3.16 The formal passing places on South Road have been observed to be in good condition with the occasional erosion recorded during the day of visit. It is acknowledged that AEML will continue to monitor the quality of existing passing places and maintain them accordingly to ensure safety for all road users.

Visibility Splays

4.3.17 As with North Road, the frequency and quality of passing places provided along South Road provide opportunities for vehicles to safely pass each other. This has been confirmed during the site visit. As illustrated on the images in Figure 4-3, the forward visibility along North Road is not restricted, which allows drivers of all vehicles to identify opposing traffic in time.

Figure 4-3: Examples of Passing Places on South Road





Examples of Passing Places on South Road

4.3.18 As mentioned in Chapter 2 of this report, visibility splays at the junction with Newmarket Road are restricted to 100m to the north of the junction due to overhanging trees and overgrown hedges. A review of the accident data on the surrounding road network demonstrates that there have been no accidents at this location and, hence, there is no reason to suggest that traffic associated with additional dwellings within the NP area would exacerbate an existing situation. However, to achieve



the recommended visibility splays of 200m as set out in Manual for Streets (MfS it is again recommended that AEML investigates opportunities to cut back hedgerows and trees along Newmarket Road to allow all road users to safely enter and exit the estate via North Road.

Cutting Road

Passing Places

4.3.19 Cutting Road is approximately 400m long and provides two formal passing places along its stretch.

One of the passing points is used by the commercial 'Anagram' unit as a site entrance in the vicinity of the junction with Pampisford Road and allows HVGs to turn safely in and out of the site.

Visibility Splays

4.3.20 As shown in Figure 4-4, the straight layout of the road ensures forward visibility along the entire length of Cutting Road and, hence, drivers will be able to identify oncoming traffic when turning into Cutting Road and make use of passing places available to them. At the junction with Pampisford Road, required visibility splays of 43m in both directions can be achieved.

Figure 4-4: Passing Place on Cutting Road





Chalky Road

4.3.21 As shown on Figure 4-1 there are four formal and one informal passing places on Chalky Road between the junctions with North Road and South Road, providing an opportunity for drivers to pass each other at an interval of approximately 120m. Based on the current location of seven plots fronting onto that particular road section, it is concluded that the forecast increase in traffic associated with seven additional dwellings on that road section can be safely accommodated by the existing layout.

Conclusion - Internal LSE Network

- 4.3.22 Given the numerous opportunities along all estate roads for drivers to safely pass each other, the potential for conflicting vehicle movements to occur along the single tracks is limited. The availability of passing places at key locations therefore does not result in a need to provide additional passing places or for any related road developments on the LSE.
- 4.3.23 It is important to note that AEML have no control over the informal passing places. In the case that one of these is lost as a result of alterations carried out by the property owner, it could trigger a need for AEML to invest in additional formal passing bays. This is in accordance with Section 6.23 of the Pre-Submission Neighbourhood Plan, which states that: "Whilst it may be possible to increase the number of passing places it will not be possible and it is not considered appropriate to increase the road capacity through road widening."
- 4.3.24 Nonetheless, the analysis has shown that there remain sufficient formal opportunities to safely pass each other. Given that the number of forecast residential vehicle trips is not expected to exceed the assessed worst-case scenario, the likely number of conflicts between opposing vehicle during peak hour periods remains limited. It is however noted that changes of circumstances, property use, level of vehicle use, or development not envisaged as part of the Neighbourhood Plan could result in a need for investment in minor road improvements on the LSE roads (such as formal passing bays as mentioned in paragraph 4.3.23). This need would however have to be identified in a separate assessment based on circumstances at the time.
- 4.3.25 It is acknowledged that this report will inform future work of AEML, which is expected to monitor the quality of existing passing places and maintain them accordingly to ensure safety for all road users.

Construction Traffic Impact

4.3.26 It is expected that a number of daily construction vehicle movements will be generated as a result of future development of 62 individual to be delivered within the NP area. To assess the capability



of existing estate roads to accommodate these movements, the following assumptions have been made:

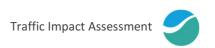
- There currently are a number of HGV movements routing to and from the estate as a result of existing commercial units operating within the LSE. This confirms that the existing roads are capable of accommodating HGV movements of 3-axle trucks as well as 4-axle rigid trucks that are up to 14.5m long and can weigh up to 30 tonnes;
- During the site visit, no sign of pavement deformation such as rutting as a result of HGV movements was observed;
- As the number and location of dwellings to be constructed at any given time are not known at this stage, the total number of daily construction vehicle trips impacting on the estate roads will need to be assessed separately.
- 4.3.27 It is evident that each of the additional 62 dwellings could be delivered at different times and, hence, the impact of construction traffic on the existing estate roads would need to be assessed on a case-to-case basis. In the absence of detailed information about the substructure of the existing estate roads, it is therefore recommended that a pavement core test shall be undertaken prior to construction works undertaken within the NP area and results to be assessed in relation to predicted volume and size of construction vehicles.

Wider Road Network

4.3.28 As set out in Table 3-2 of this report, the forecast trip generation associated with the delivery of up to 62 additional dwellings will result in 33 additional two-way trips during the AM Peak Hour and 33 additional two-way trips during the PM Peak Hour. This forecast increase in traffic presents a 35% increase in vehicle trips during the AM Peak Hour and 42% increase during the PM Peak Hour respectively compared to the exiting traffic generation at the estate. Taking into consideration the three separate access points to the LSE and the strategic location of the LSE, it is expected that vehicle trips will dissipate quickly across the surrounding road network. That is, the largest increase in traffic at any point of the network is forecast to be 22 vehicle movements at the two access junctions with Newmarket Road during AM peak hours, which equates to approximately one additional vehicle every three minutes. Taking account of the low volume of existing two-way traffic flows on Newmarket Road (Table 3-1), this presents only a 17% increase compared to the existing situation and is therefore considered to be unperceivable.

Severity of Impact

4.3.29 To further address concerns expressed by CCC regarding Policy 3 of the Neighbourhood Plan and the ability to quantify what would constitute a substantial increase in traffic, the impact of forecast development traffic on nearby junctions has been assessed with regard to Paragraph 32 of the



National Planning Policy Framework (NPPF) which states that "development should only be prevented or refused on transport grounds where the residual impacts of the development are severe."

- 4.3.30 Traffic congestion is an inherently difficult concept to define as it has both physical and relative dimensions. For the purpose of this assessment, severity of impact has been defined as the point at which the increase in journey time delay becomes unpredictable as set out in the 'Department for Transport's 'Introduction to Road Congestions Statistics' (dated May 2016).
- 4.3.31 Section 2.1 of the DfT report states that "regardless of whether it is defined physically or relatively, the effects of increased congestion are typically characterised by longer, and less predictable journey times." However, a longer journey as a result of an increase in congestion does not by default mean that one's journey time becomes less predictable. This is confirmed in section 1.3 of DfT's report, which states that "congestion can mean very different things to different people."

Granta Park Roundabout

- 4.3.32 It is expected that a proportion of the 33 vehicle trips generated during the peak hours will route across Granta Park Roundabout, which already experiences congestion during the network peak hours. A Transport Assessment prepared by Glanville Consultants (dated April 2015) concluded that Granta Park Roundabout is constrained by the existing background traffic during the PM Peak Hour and that these capacity constraints are matters for the Highway Authority to address. The congestion hereby concerned queuing traffic on the Granta Park approach and hence, it is expected that these queues are to be contained within the Granta Park site and does not impact on the highway.
- 4.3.33 Information regarding the 2017 baseline flows at Granta Park Roundabout has been obtained from the Transport Assessment by Glanville Consultants (dated April 2015). The flow diagrams are attached in **Appendix C** for reference. Assuming a worst-case scenario in which all forecast development trips route via Granta Park Roundabout during the peak hour periods, this would result in an increase in traffic of less than 2% in the AM and PM Peak Hour respectively as a result of the proposed additional dwellings within the NP area. This is considered not to be a significant impact on the existing junction in accordance with TD41/95 of the Design Manual for Road and Bridges (DMRB), which states that: "Generally, a material increase is considered to be if the turning traffic flows, as a result of the new development, would increase by 5% or more, although there may be cases when it is important to consider smaller increases."
- 4.3.34 The severity of impact defined as the point at which the increase in journey time delay becomes unpredictable has been assessed within the context of an already congested road network. Thus, in line with the DfT guidance on road congestion as well as guidance set out in DMRB, the impact of development traffic associated with the development of 62 residential dwellings is not



considered to be severe as the proposals will not result in a significant increase in traffic and the performance of the surrounding junctions will not change to an extent that it does not match the expectations of the users of the road network.



5 Summary and Conclusion

- 5.1.1 Phil Jones Associates (PJA) has been commissioned by Great Abington Parish Council to prepare a Transport Statement (TS) in support of the emerging Neighbourhood Plan for the Land Settlement Estate (LSE) located to the south of Great Abington, Cambridgeshire.
- 5.1.2 Policy 2 of the emerging Neighbourhood Plan proposes that one additional dwelling for each of the 62 plots would be allowed with Policy 3 stipulating that developments that would result in a substantial increase in traffic on the Land Settlement estate would not be permitted. The aim of this TS is to assess the likely transport impact associated with the worst-case scenario of 62 additional dwellings that could be built within the Neighbourhood Plan area.
- 5.1.3 The LSE is located within walking and cycling distance of Great Abington village, which provides access to a range of local amenities. Pedestrian and cycle crossing points at the junction between Pampisford Road / High Street allow for safe access to Great Abington village centre. Local bus services are available within walking distance of the estate and connect residents with strategic destinations such as Cambridge, Haverhill and Whittlesford Parkway station.
- 5.1.4 Current travel patterns to and from the estate have been identified. A travel demand review based on an interrogation of the TRICS database indicate that the proposed development of 62 additional dwellings would generate up to 33 two-way vehicle trips during AM peak hours and 33 two-way vehicle trips during PM peak hours. This equates to approximately one additional vehicle movement every two minutes over the peak hours.
- 5.1.5 Given the numerous opportunities along all estate roads for drivers to safely pass each other, this TS demonstrates the potential for conflicting vehicle movements to occur along the estate roads is limited. In addition, the low volume of traffic generated by the development, and its distribution across several routes will not have a significant impact on the operation of the surrounding highway network.
- 5.1.6 The likely impact of construction vehicles on the estate roads has been considered. It is recommended that a pavement core test is undertaken prior to construction works within the NP area and results about substructure of the roads are assessed against predicted volume and size of construction vehicles operating at the estate.
- 5.1.7 Based on the information provided in this TS, it is concluded that the likely transport impact associated with the worst-case scenario of 62 additional dwellings that could be built within the NP area is acceptable. Any transport impact associated with development not envisaged as part of the NP would need to be subject to a separate assessment.



Appendix A Traffic Survey Results



Client: Phil Jones Associates

Project Number: TSP13612

Project Name: Great Abington NP, Cambridgeshire

Survey Type: ATC Site 1

Location: North Road

Survey Date: 11/01/2018 to 17/01/2018

Survey Time: 24 hours x 7 days

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Client: Phil Jones Associates

Project Number: TSP13612

Project Name: Great Abington NP, Cambridgeshire

Survey Type: ATC Site 2

Location: Newmarket Road

Survey Date: 11/01/2018 to 17/01/2018

Survey Time: 24 hours x 7 days

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Grand '	Total																																	
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Virtual	Day (5)																																	
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	621 383 531	5 7 28	555 358 6652	3 2 17	43 12 658	121		0 0 1 0 9 3	11	0 1 14	1 0 18	Sa Su	t n	0 1	1 6 0 0 2 13	3 3 3 10	0 0 9	3 2 18	4 8 49	17 12 157	41 32 463	101 49 1075	121 86 1624	124 70 1708	200 119 2402	55.6 55 56.2	65.9 65.5 65.3	200 119 2402	32.21 31.07 31.89	70 33 721	11.27 8.616 9.574	24 12 209	3.865 3.133 2.775	
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ay To		Cls	Cls	Cls	CIs 4	Cls	Cls	Cls 7	Cls	Cls 9	Cls	Fix1 Ti	me Vbir	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Mean	Vpp 85	JPSL	PSL%]SL1]SL1%]SL2]SL2%	Fix1
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Client: Phil Jones Associates

Project Number: TSP13612

Project Name: Great Abington NP, Cambridgeshire

Survey Type: ATC Site 3

Location: South Road

Survey Date: 11/01/2018 to 17/01/2018

Survey Time: 24 hours x 7 days

Site Na Descri	t Id - Cus ame - TS ption - S on - East	P13612- OUTH R	03	DM]																																
Virtual	Day (7)																																			
Time	Total	Cls 1	Cls 2	CIs 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Fix1	Time	Vbin 0 5	Vbin 5 10	Vbin 10 15	Vbin 15 20	Vbin 20 25	Vbin 25 30	Vbin 30 35	Vbin 35 40	Vbin 40 45	Vbin 45 50	Vbin 50 55	Vbin 55 60	Vbin 60 130	Mean	Vpp 85	JPSL 20	JPSL% 20	JSL1 24 ACPO	JSL1% 24 ACPO	JSL2 35 DFT	JSL2% 35 DFT	Fix1	
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1500 1600 1700 1800 1900 2000	24 17 14 8	0	23 16 13 8	0	0	0 0	0	0 0	0 0	0 0	0 0		1500 1600 1700 1800 1900 2000	0 0	4 1 1 0	18 14 8 8	1 4	0 0	0 0	0		0 0	0 0	0 0 0	0 0	0 0	11.7 11.7 12.4 13.5 13.2	13.9 14 14 15.5	0 0 0	0.595 0.84 0 0	0	0 0	0	0 0		
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Virtual	Week (1)	Cls	Cls	Cls	Cls	Cls	Cls	Cls	Cls	Cls	Cls	Fix1	Time	Vhin	Vhin	Vhin	Vhin	Vhin	Vhin	Vhin	Vhin	Vhin	Vhin	Vhin	Vhin	Vhin	Mean	Vnn	1PSL	1PSI %	JSL1]SL1%	1SL2	1SI 2%	Fix1	
Mon Tue	239 267	1 2 4	2 231 258	3 0	4 6	5 0 1	6	7	8	9 0	10		Mon Tue	0 5 0	5 10 51 25	10 15 174 221	15 20 14 20	20 25 0	25 30 0	30 35 0	35 40 0	40 45 0	45 50 0	50 55 0	55 60 0	60 130 0	11.6 12.2	Vpp 85 13.5 13.9	20 0	20	ACPO	ACPO 0	35 DFT 0	35 DFT 0		
Wed Thu Fri Sat Sun	230 273 278 295 147		260 268 285	0	9	0	0 2 1	0 0	0 0	0	0 0		Wed Thu Fri Sat Sun	0 3 2 0	35 67 55 61 34	184 187 206 209 105	10 16 15 24 8	1 0 0 1	0 0 0	0 0 0	0 0 0 0	0	0 0 0	0	0 0 0	0	11.9 11.4 11.7 11.7	13.7 13.6 14 14.1 14.2	1 0 0 1	0.339	0	0 0	0	0		
Grand	1729 Total	19	1671	0	34	1	3	0	0	0	1			6	328	1286	107	2	0	0	0	0	0	0	0	0	11.8	13.9	2	0.116	0	0	0	0		
Time	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Fix1	Time	Vbin 0 5	Vbin 5 10 328	Vbin 10 15 1286	Vbin 15 20	Vbin 20 25	Vbin 25 30	Vbin 30 35	Vbin 35 40	Vbin 40 45	Vbin 45 50	Vbin 50 55	Vbin 55 60	Vbin 60 130	Mean	Vpp 85	JPSL 20	JPSL% 20 0.116	24 ACPO	JSL1% 24 ACPO	35	35 DFT	Fix1	
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1400 1500 1600 1700	17 21 23 20	0 0 1	17 21 23 19	0	0	0 0	0	0 0	0 0	0 0	0 0		1400 1500 1600 1700	0 0 0	5 4 2 2	12 16 20 17	0 1 1	0 0 0	0 0 0	0	0 0	0 0	0 0	0 0	0 0	0 0 0	11.5 11.9 12.2	12.9 13.9 14 14	0	0 0 0 0.99	0	0 0.99	0	0 0 0.99		
1800 1900 2000 2100 2200	15 10 4 7 4	0 0 0	10 4 7	0	0	0 0	0	0 0	0 0	0 0	0 0		1800 1900 2000 2100 2200	0 0 0 0	1 0 0 2 1	10 9 4 5 3	4 1 1 0 0	0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0	0 0 0 0	0 0	0 0 0 0	0 0 0	13.4 13.3 14 11.8		0 0 0 0	0	0	0 0	0 0 0	0 0		
2300 07-19 06-22	222 249 254	3 3 3	240	0	6	0	0	0	0	0	0		2300 07-19 06-22 06-00	0	42 45 46	1 167 189 193	12 15 15	0	0	0	0	0	0	0	0	0	12.1 11.7 11.8 11.8	13.6 13.8 13.8	0	0.08	0	0.09	0	0.09		
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15	1	13 12	0	0	1	1			0	0		1000 1100	0	7	7 6	0	0	0) () (0 0	0	0	0	0	10.1 10	12.6 12.4) (0)
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9 16 9	0	7 13 7	0	0	1 2	0		0	0	0		1600	0	3	7 12 7	0 1 0	0	0) () (0 0	0		0	0	11.7	13.6	0			0) ()
8 5	0	8 4 3	0	0	1 0	0		0	0	0		1800 1900	0	- 1	7 3			0) () (0 0	0			0	11.5 - 12 -		0			0) ()
3	0	3	0	0	0	0	0	0	0	0		2100 2200	0	2	2	0	0	0) 0		0 0	0	0	0	0	9.6 -		0	0	0	0 0) (0)
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159 162	5 5	137 139	0	1	13 14	3	0	0	0	0		06-00	1	38 39	116 119	3	0	0	0)	0 0	0	0	0	0	11.1	13.3	0	0	0	. 0) (0	
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al C	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Fix1	Time	Vbin 0	Vbin 5	Vbin 10	Vbin 15	Vbin 20	Vbin 25	Vbin 30	Vbin 35	Vbin 40	Vbin 45	Vbin 50	Vbin 55	Vbin 60	Mean	Vpp 85	JPSL 20]PSL% 20]SL1 24]SL1% 24]SL2 35	JSL2% 35	Fix
176	5 1	120 155	0	1 0	18 17	3	0	0				Mon Tue	ō	27 25	114 146	6	0	0	0 0		0 0	0	0 0	0	0	11.6 11.8	13.5 13.5			0	0 0) (0	
183 177	11 6	146 155	0	1	23 13	2	0	0	0	0		Thu Fri	3	52 68	125 104	1 3 2	0	0) () (0 0	0	0	0	0	10.5 10.2	12 12.2	0	0	0	0 0) (0)
100	8 3 36	173 85 971	0	2 0 5	12 8 98	3 23	0	0	1	0		Sat Sun			128 83 831	3 1 21	0	0				0	0	0	0	11.3 11.1	13.5 13.3 13.3	0	0	0	0			
		CIs 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Fix1	Time	Vbin 0	Vbin 5	Vbin 10	Vbin 15	Vbin 20 25	Vbin 25	Vbin 30	Vbin 35	Vbin 40	Vbin 45	Vbin 50	Vbin 55	Vbin 60	Mean	Vpp 85	JPSL 20]PSL% 20]SL1 24 ACPO]SL1% 24 ACRO	JSL2 35 DET	JSL2% 35	Fix
134	36	971	0	5	98	23	0	0	1	0		-	8	274	831	21	0	0)	0 (0	0	0	0	11.1	13.3	0	0	0				
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10	0	9 7 12	0	0	1 1 2	0	0	0	0	0		1400 1500	0	2	8 7 11	0	0	0) ()	0 0	0	0	0	0	11.9 -		0			0) (0)
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3	0	3	0	0	0	0	0	0	0	0		2000 2100	0	0	3 2	0	0	0) 0		0 0	0	0	0	0	11.7 -		0	0	0	0 0) (0)
2	0	2 1 124	0	0	0 0 14	0	0	0	0			2200 2300 07-19	0	0	1 0 110	0	0	0) () (0 0	. 0	0	0	0	11.2 - 10.4 -	13.1	0	ō	0	0) (0)
	(5) All 1134 (5) All 1134 All 1134 All 1134 All 1134	West (77) ai Cia 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Nest Nest	Nest Nest	West 77 78 78 81 81 82 83 84 84 84 84 84 84 84 84 84	Nest Nest	Next	Nest Nest	Nest Cis	Nest Cis	Nest Cis	Next	Nest	No. No.		No. No.	Next	Nest Nest	No. No.	The service of the se	The service of the se	The section of the se	The control of the co	Color Colo	The service of the se	The control of the co	The control of the co	The control of the co	The control of the co	The control of the co	The control of the co	The section of the se	The section of the se	The section of the se



Client: Phil Jones Associates

Project Number: TSP13612

Project Name: Great Abington NP, Cambridgeshire

Survey Type: ATC Site 4

Location: Cutting Road

Survey Date: 11/01/2018 to 17/01/2018

Survey Time: 24 hours x 7 days

Site Na Descri	Id - Cus ime - TS ption - C on - Nor	P13612- UTTING	-04	. [20M]																															
Virtual	Day (7)																																		
Time	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Fix1	Time	Vbin 0 5	Vbin 5 10	Vbin 10 15	Vbin 15 20	Vbin 20 25	Vbin 25 30	Vbin 30 35	Vbin 35 40	Vbin 40 45	Vbin 45 50	Vbin 50 55	Vbin 55 60	Vbin 60 130	Mean	Vpp 85	JPSL 20	JPSL% 20	JSL1 24 ACPO]SL1% 24 ACPO	JSL2 35 DFT	JSL2% 35 DFT	Fix1
0000 0100 0200 0200 0400 0400 0500 0600 0700 0800 1000 1100 1200 1400 1500 1600 1700 1800 2000 2200 2200 2200 07-19 06-22 06-00	1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 2 3 3 9 12 7 7 10 8 8 8 8 9 13 10 5 3 3 10 10 10 10 10 10 10 10 10 10 10 10 10			D D D D D D D D D D D D D D D D D D D	000000000000000000000000000000000000000						0000 0100 0200 0300 0400 0500 0600 0700 0800 0900 1100 1200 1300 1400 1500 1500 1500 1500 2100 2200 2100 2200 07-19 06-22 06-22	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1	0 0 0 0 1 1 8 8 8 8 6 6 6 6 6 6 6 6 6 6 6 6 6 6	00 00 00 00 00 00 00 00 00 00 00 00 00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0								000000000000000000000000000000000000000	7.2 13.7 14.1 13.3 12.8 13.3 12.8 14 13.1 13.2 13.3 13.6 14 13.9 14.1 14.2 13.1 12.8	15.9 15.3 15.6 16.6 17 16.2		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	
Virtual	Week (1)																																	
Time	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Fix1	Time	Vbin 0 5	Vbin 5 10	Vbin 10 15	Vbin 15 20	Vbin 20 25	Vbin 25 30	Vbin 30 35	Vbin 35 40	Vbin 40 45	Vbin 45 50	Vbin 50 55	Vbin 55 60	Vbin 60 130	Mean	Vpp 85	JPSL 20	JPSL% 20	JSL1 24 ACPO	JSL1% 24 ACPO	JSL2 35 DFT	JSL2% 35 DFT	Fix1
Mon Tue Wed	139 167 170	0 9 2	149	9 0		2	4	0 0 3 0 7 0) (0) ()	Mon Tue Wed	4 0 0	35 19 6	87	13		0 0) (0	0	. 0		0	0	11.4 13.4 14.6	14.4 16 16.8	0	0		0 0	0 0 0	0 0 0	
Thu Fri ISat	155 179 127	2 5 2	141 157	1 1	1 1	9 B		2 C 3 C		0 0) ()	Thu Fri ISat	0 3 2	11 15	101 118	43	1 2	2 0) (0 0	0	0	0	0	0	13.6 13.4	15.7	2	1.117		0 0	0	0	
Sun	85 1022	2	78	3 0		1	1 :	3 0					Sun	0	103	43	32	. 2									14.1	16.5 16.1		2.353			0	0	
Grand 1	l otal																																		
Time	Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Fix1	Time	Vbin 0 5	Vbin 5 10	Vbin 10 15	Vbin 15 20	Vbin 20 25	Vbin 25 30	Vbin 30 35	Vbin 35 40	Vbin 40 45	Vbin 45 50	Vbin 50 55	Vbin 55 60	Vbin 60 130	Mean	Vpp 85	JPSL 20	JPSL% 20	24 ACPO	JSL1% 24 ACPO	35	JSL2% 35 DFT	Fix1
	1022	22	915	1	1 3	7 2	5 2	2 (0 0)		9	103	614	291		5 () (0 0	0	0	0	0	0	13.5	16.1	5	0.489		0	0	0	
Virtual	Day (5)																																		
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1200 1300	9	0	8	1 C		1	0	0 0		0 0) 0)	1200 1300	0	1 2	6	2) (0 0	0 0) 0	0	0	0	0	13.3 13	15.5	0	1.961	0	0 1.961	0	0 1.961	
1400 1500 1600	11 10 10	0	9) (9 1	0	0 1	0 0		0 0) ()	1400 1500 1600	0	1	5 7 6	. 4) () () 0	0	0	0	0	0	12.8 13.3 13.9	17	0	0 0		0 0	0	0	
1700 1800 1900	16 10	1 0) 0		0	0	0 0) (0) ()	1700 1800 1900	0	1	10 6	4) () (0	0	0			0	13.8 14 14.5	16.2		0		0	0	1.235 0	
2000 2100 2200	4	0	3		5	0	0	0 0		0			2000 2100 2200	0	0	3						0	. 0			0	14 13.9 13.3		0	0		0	0	0	
2300 07-19	140	0	124			7	3	0 C		0 0			2300 07-19	0	16	86	36			0 0	0 0	0	0	0	0	0	13.3	15.8	1	0.429	1	0.429	0	0.429	
06-22 06-00 00-00	156 157 161	4					3 3 4	3 C 3 C					06-22 06-00 00-00	0	17 17 17	96 97 99	43 43 44										13.4 13.4 13.4	15.9 15.9 15.9	1	0.385 0.381 0.374	1	0.385 0.381 0.374	1 1 1	0.385 0.381 0.374	

Report Id - C Site Name - 1 Description - Direction - S	TSP1361: - CUTTIN	2-04). [20M]																															
Virtual Day (7	7)																																	
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Tue 11 Wed 21 Thu 11 Fri 22 Sat 11	1 Cls 1 1 44 68 69 7 99 5 127 51 22	Cls 2 1 13 2 15 2 19 3 18 5 21 4 13 5 10 12 111	4 (3 (6 (4 (3 (3 (4 4 1 4 2 7 8 5 1	6 :	Cls 7 0 0 0 0 2 0 0 0 1 0 0 1 0 0 0 1 0 0 0 0		0 0	0 0 0 0 0 0 0	Fix1 1	on ue led nu i at	bin Vbin 5 10 1 25 10 1 2 6 1 3 13 5 17 1 3 14 77	106 90 122 142 78 63	48	Vbin 20 25 0 0 0 2 1 2 3 3 1 9	Vbin 25 30 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vbin 30 35 0 0 0 0 0 0	0	Vbin 40 45 0 0 0 0 0	Vbin 45 50 0 0 0 0 0	Vbin 50 55 0 0 0 0 0 0	Vbin 55 60 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Vbin 60 130 0 0 0 0 0	12.7 14 14.9 14 13.9 13.5 14.4	Vpp 85 15.2 16.8 17.3 16.3 16.4 16.5 16.9	JPSL 20 0 0 2 1 2 3 1 9	0 0 0.966 0.513 0.881 1.987 0.82 0.741	JSL1 24 ACPO 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	JSL1% 24 ACPO 0 0 0 0 0 0]SL2 35 DFT 0 0 0 0 0 0 0]SL2% 35 DFT 0 0 0 0 0 0 0	Fix1	
Grand Total																																		
Time Total	- 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	Cls 8	Cls 9	Cls 10	Fix1	Time VI	oin Vbin 0 5 5 10	Vbin 10 15	Vbin 15 20 423	Vbin 20 25	Vbin 25 30	Vbin 30 35	Vbin 35 40	Vbin 40 45	Vbin 45 50	Vbin 50 55	Vbin 55 60	Vbin 60 130	Mean 14	Vpp 85	JPSL 20	JPSL% 20 0.741	ACPO	JSL1% 24 ACPO	JSL2 35 DFT]SL2% 35 DFT	Fix1	
Virtual Day (5		Cls	Cls	Cls	Cls	Cls	Cis	Cls	Cls	Cis	Fix1	Time VI	oin Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Vbin	Maan	Von	JPSL	IPSL%]SL1]SL1%]SL2]SL2%	Fix1	
0000	- 1	2	3	4	5	6	7	8	9	10	00		5 5 10	10 15	15 20	20 25	25 30	30 35	35 40	40 45	45 50	50 55	55 60	60 130	16.2	Vpp 85	20	20	20	20	20	20	FIXT	
0100 0200 0300 0400 0500 0600 0700 0600 0700 0600 0700 1100 11	0 0 0 0 0 1 1 5 8 8 1 6 16 16 17 17 17 17 10 6 6 2 1 1 15 5 4 8 1	00 100 100 1	00 00 00 00 00 00 00 00 00 00 00 00 00		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 16 17 17 18 18 19 20 21 22 23 09 09 09 09 09 09 09 09 09 09 09 09 09	000 000 000 000 000 000 000 000 000 00	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 1 3 3 3 5 5 5 2 4 4 4 3 3 3 4 4 4 4 1 1 1 4 5 5 1 1 3 3 1 1 5 5 1 5 6 5 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000			15.5 16.3 15 16.5 16.7 15.9 17.2 17.3 17	00 00 00 00 00 00 00 00 00 00 00 00 00	0 0 0 0 0 2.381 0 1.266 0 0 1.613 1.633 1.639 0 0 0 0 0.1.163	0 0 0 0 0 0 0 0 0	0 0 0 0 0 2.381 0 1.266 0 0 1.613 1.633 1.639 0 0 0 0 0.0 0 0 0 0 0 0 0 0 0 0 0 0 0	000000000000000000000000000000000000000	0 0 0 0 0 0 2.381 1.266 0 0 1.613 0 0 0 1.163 1.639 0 0		



Client: Phil Jones Associates

Project Number: TSP13612

Project Name: Great Abington NP, Cambridgeshire

Survey Type: ATC Site 5

Location: Pampisford Road

Survey Date: 11/01/2018 to 17/01/2018

Survey Time: 24 hours x 7 days

Report Id - Cu Bite Name - T Description - Direction - Ea Birtual Day (7)	SP13612 PAMPISE ist	-05	D [30M]																															
Time Total	Cls 1	Cls 2	Cls 3	Cls 4	Cls 5	Cls 6	Cls 7	CIs 8	Cls 9	Cls 10	Fix1	Time	Vbin 0	Vbin 5	Vbin 10	Vbin 15	Vbin 20	Vbin 25	Vbin 30	Vbin 35	Vbin 40	Vbin 45	Vbin 50	Vbin 55	Vbin 60	Mean	Vpp 85	JPSL 30	JPSL% 30]SL1 35]SL1% 35		SL2% 45	Fix1
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06-00 00-00	1292 1350	13 14	1139 1185	3 3	116 127	17 18		1	1	1 0			06-00 00-00	0	2	27 28	220 226	521 539	391 411	105 113	19 22	6 7	1 2	0	0	0	24.1 24.2	28.8 29	131 144	10.13 10.67	26 31	2.034 2.317	1 2	0.077 0.159	
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Sat Sun	822 573	11 10	727 534	2	77 21	5	0	1		0			Sat Sun	0	2	23 22	152 119	329 218	219 153	74 41	16 14	5 2	2		0	ō	23.9 23.5	29.2 28.6	97 58	11.8 10.12	23 17	2.798 2.967	2	0.243 0.175	
	9451	96	8297	22	888	124	12	6	4	\$ 0	1 2			0	15	195	1585	3771	2877	789	156	48	13	2	0	0	24.2	29	1008	10.67	219	2.317	15	0.159	
Grand Time	Total	Cls	Cls	Cls	Cls	Cls	Cls	Cls	Cls	Cls	Cls	Fix1	Time	Vhin	Vbin	Vbin	Vbin	Vhin	Vbin	Vbin	Vhin	Vbin	Vbin	Vbin	Vbin	Vbin	Mean	Von	1001	1PSL%	ISL1	1SL1%]SL2	1SL2%	Fix1
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Virtual																																			
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1600 1700	79 81	0	69 74	0	8	1	0	Č		0		i	1600 1700	0	0	1 2	10 11	30 31	28 27	8	2 2	0	0	0	0	0	24.9 24.5	29.3 29.5	10 10	12.34 11.88	10 10	12.34 11.88	10 10	12.34 11.88	
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06-22 06-00 00-00	1527 1541 1611	15 15 15	1351	4	145 145 158	22 22 23	. 2	1		1 0 1 0 1 0			06-22 06-00 00-00	0	2 2 2	29 29 30	252 255 263	620 625 645	472 476 501	123 124 135	22 22 25	7 7 8	1 2	0	0	0	24.2	28.8 28.8 28.9	152 154 171	10	152 154 171	10	152 154 171	9.983 10 10.59	



Appendix B TRICS Outputs

Calculation Reference: AUDIT-231601-180131-0153

Longbridge Technology Park Phil Jones Associates The Innovation Centre

Licence No: 231601

TRIP RATE CALCULATION SELECTION PARAMETERS:

: 03 - RESIDENTIAL

: A - HOUSES PRIVATELY OWNED

Category **VEHICLES**

Selec	cted rec	gions and areas:	
02	SOUT	TH EAST	
	ES	EAST SUSSEX	1 days
	HC	HAMPSHIRE	1 days
	KC	KENT	1 days
	SC	SURREY	1 days
03	SOUT	TH WEST	
	DV	DEVON	2 days
	SM	SOMERSET	1 days
04	EAST	ANGLI A	
	NF	NORFOLK	2 days
	SF	SUFFOLK	2 days
05	EAST	MIDLANDS	
	LN	LINCOLNSHIRE	1 days
06	W ES	T MIDLANDS	
	SH	SHROPSHIRE	4 days
	WK	WARWICKSHIRE	1 days
07	YORK	(SHIRE & NORTH LINCOLNSHIRE	
	NY	NORTH YORKSHIRE	6 days
80	NORT	TH WEST	
	CH	CHESHIRE	2 days
09	NOR	ГН	
	CB	CUMBRIA	1 days

Secondary Filtering selection:

DURHAM

Number of dwellings Parameter: 7 to 116 (units:) Actual Range: Range Selected by User: 6 to 150 (units:)

Public Transport Provision:

DH

Selection by: Include all surveys

1 days

Date Range: 01/01/09 to 27/11/17

Selected survey days:

Monday 4 days Tuesday 7 days Wednesday 4 days Thursday 7 days Friday 5 days

Selected survey types:

27 days Manual count **Directional ATC Count** 0 days

Selected Locations:

Suburban Area (PPS6 Out of Centre) 13 Edge of Town 14

Selected Location Sub Categories:

Residential Zone 22 No Sub Category

Secondary Filtering selection:

Use	Class:

C3 27 days

Population within 1 mile:

1,001 to 5,000	5 days
5,001 to 10,000	8 days
10,001 to 15,000	8 days
15,001 to 20,000	3 days
20,001 to 25,000	3 days

TRI CS 7.4.4 290118 B18.18 Database right of TRI CS Consortium Limited, 2018. All rights reserved

Wednesday 31/01/18 Page 2

Phil Jones Associates The Innovation Centre Longbridge Technology Park Licence No: 231601

Secondary Filtering selection (Cont.):

<u>Population within 5 miles:</u> 5,001 to 25,000 25,001 5 days 5 days 50,001 to 75,000 4 days 75,001 to 100,000 11 days 100,001 to 125,000 2 days

Car ownership within 5 miles: 0.6 to 1.0 1.1 to 1.5 9 days 18 days

Travel Plan:

Yes 2 days No 25 days

<u>PTAL Rating:</u> No PTAL Present 27 days

Licence No: 231601

Phil Jones Associates The Innovation Centre Longbridge Technology Park

LIST OF SITES relevant to selection parameters

CB-03-A-04 SEMI DETACHED **CUMBRIA**

MOORCLOSE ROAD SALTERBACK WORKINGTON Edge of Town No Sub Category

Total Number of dwellings:

Survey date: FRIDAY 24/04/09 Survey Type: MANUAL

CH-03-A-08 DETACHED **CHESHIRE**

WHITCHURCH ROAD **BOUGHTON HEATH**

CHESTER

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 11 22/05/12 Survey date: TUESDAY

Survey Type: MANUAL CHESHI RE

CH-03-A-09 **TERRACED HOUSES**

GREYSTOKE ROAD HURDSFIELD **MACCLESFIELD** Edge of Town Residential Zone

Total Number of dwellings: 24

Survey date: MONDAY 24/11/14 Survey Type: MANUAL

DH-03-A-01 SEMI DETACHED **DURHAM**

GREENFIELDS ROAD

BISHOP AUCKLAND

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 50

Survey date: TUESDAY 28/03/17 Survey Type: MANUAL

HOUSES & BUNGALOWS DV-03-A-02 **DEVON**

MILLHEAD ROAD

HONITON

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings:

Survey date: FRIDAY 25/09/15 Survey Type: MANUAL

DV-03-A-03 TERRACED & SEMI DETACHED **DEVON**

LOWER BRAND LANE

HONITON

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 70

Survey date: MONDAY 28/09/15 Survey Type: MANUAL

ES-03-A-02 PRIVATE HOUSING **EAST SUSSEX**

SOUTH COAST ROAD

PEACEHAVEN Edge of Town Residential Zone

Total Number of dwellings: 37

Survey date: FRIDAY 18/11/11 Survey Type: MANUAL

HC-03-A-19 **HOUSES & FLATS** HAMPSHÍ RÉ

CANADA WAY

LIPHOOK

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 62

Survey date: MONDAY 27/11/17 Survey Type: MANUAL

Licence No: 231601

Phil Jones Associates The Innovation Centre Longbridge Technology Park

LIST OF SITES relevant to selection parameters (Cont.)

9 KC-03-A-03 MIXED HOUSES & FLATS

HYTHE ROAD

WILLESBOROUGH

ASHFORD

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 5

Survey date: THURSDAY 14/07/16 Survey Type: MANUAL

KENT

10 LN-03-A-03 SEMI DETACHED LINCOLNSHIRE

ROOKERY LANE BOULTHAM LINCOLN

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 22

Survey date: TUESDAY 18/09/12 Survey Type: MANUAL

11 NF-03-A-01 SEMI DET. & BUNGALOWS NORFOLK

YARMOUTH ROAD

CAISTER-ON-SEA

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 27

Survey date: TUESDAY 16/10/12 Survey Type: MANUAL

12 NF-03-A-03 DETACHED HOUSES NORFOLK

HALING WAY

THETFORD Edge of Town Residential Zone

Total Number of dwellings: 10

Survey date: WEDNESDAY 16/09/15 Survey Type: MANUAL NY-03-A-06 BUNGALOWS & SEMI DET. NORTH YORKSHIRE

HORSEFAIR

13

BOROUGHBRIDGE

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 115

Survey date: FRIDAY 14/10/11 Survey Type: MANUAL
14 NY-03-A-07 DETACHED & SEMI DET. NORTH YORKSHIRE

CRAVEN WAY

BOROUGHBRIDGE

Edge of Town No Sub Category

Total Number of dwellings: 23

Survey date: TUESDAY 18/10/11 Survey Type: MANUAL

15 NY-03-A-09 MIXED HOUSING NORTH YORKSHIRE

GRAMMAR SCHOOL LANE

NORTHALLERTON

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 52

Survey date: MONDAY 16/09/13 Survey Type: MANUAL

16 NY-03-A-10 HOUSES AND FLATS NORTH YORKSHIRE

BOROUGHBRIDGE ROAD

RIPON

Edge of Town No Sub Category

Total Number of dwellings: 71

Survey date: TUESDAY 17/09/13 Survey Type: MANUAL

17 NY-03-A-11 PRIVATE HOUSING NORTH YORKSHIRE

HORSEFAIR

BOROUGHBRIDGE

Edge of Town

Residential Zone

Total Number of dwellings: 23

Survey date: WEDNESDAY 18/09/13 Survey Type: MANUAL

Licence No: 231601

The Innovation Centre Phil Jones Associates Longbridge Technology Park

LIST OF SITES relevant to selection parameters (Cont.)

NY-03-A-13 **TERRACED HOUSES NORTH YORKSHIRE**

CATTERICK ROAD OLD HOSPITAL COMPOUND

CATTERICK GARRISON

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings:

Survey date: WEDNESDAY 10/05/17 Survey Type: MANUAL

19 SC-03-A-04 **DETACHED & TERRACED SURREY**

HIGH ROAD

BYFLEET

Edge of Town Residential Zone

Total Number of dwellings: 71

Survey date: THURSDAY 23/01/14 Survey Type: MANUAL

SF-03-A-04 **DETACHED & BUNGALOWS** SUFFOLK 20

NORMANSTON DRIVE

LOWESTOFT

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total Number of dwellings: 7

Survey date: TUESDAY 23/10/12 Survey Type: MANUAL

SF-03-A-05 **DETACHED HOUSES** 21 **SUFFOLK**

VALE LANE

BURY ST EDMUNDS

Edge of Town Residential Zone

Total Number of dwellings: 18

Survey date: WEDNESDAY 09/09/15 Survey Type: MANUAL

SH-03-A-03 SHROPSHI ŘE 22 **DETATCHED**

SOMERBY DRIVE **BICTON HEATH SHREWSBURY** Edge of Town

No Sub Category

Total Number of dwellings: 10

Survey date: FRIDAY 26/06/09 Survey Type: MANUAL SH-03-A-04 **TERRACED** SHROPSHI ŘÉ

23 ST MICHAEL'S STREET

SHREWSBURY

Suburban Area (PPS6 Out of Centre)

No Sub Category

Total Number of dwellings: 108

Survey date: THURSDAY 11/06/09 Survey Type: MANUAL

SH-03-A-05 SEMI-DETACHED/ TERRACED 24 SHROPSHIRE

SANDCROFT SUTTON HILL TELFORD Edge of Town Residential Zone

Total Number of dwellings: 54

Survey date: THURSDAY Survey Type: MANUAL 24/10/13

SHROPSHI ŘÉ SH-03-A-06 **BUNGALOWS** 25

ELLESMERE ROAD

SHREWSBURY Edge of Town Residential Zone

Total Number of dwellings: 16

Survey date: THURSDAY 22/05/14 Survey Type: MANUAL

SM-03-A-01 **DETACHED & SEMI SOMERSET** 26

WEMBDON ROAD **NORTHFIELD BRIDGWATER** Edge of Town

Residential Zone Total Number of dwellings: 33

Survey date: THURSDAY 24/09/15 Survey Type: MANUAL TRI CS 7.4.4 290118 B18.18 Database right of TRI CS Consortium Limited, 2018. All rights reserved Wednesday 31/01/18 Page 6

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LIST OF SITES relevant to selection parameters (Cont.)

27 WK-03-A-02 BUNGALOWS WARWICKSHIRE

NARBERTH WAY POTTERS GREEN COVENTRY Edge of Town Residential Zone

Total Number of dwellings: 17

Survey date: THURSDAY 17/10/13 Survey Type: MANUAL

Phil Jones Associates The Innovation Centre Longbridge Technology Park Licence No: 231601

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

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

		ARRIVALS		[DEPARTURES	;		TOTALS	
	No.	Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	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	27	44	0.075	27	44	0.281	27	44	0.356
08:00 - 09:00	27	44	0.145	27	44	0.380	27	44	0.525
09:00 - 10:00	27	44	0.164	27	44	0.180	27	44	0.344
10:00 - 11:00	27	44	0.156	27	44	0.176	27	44	0.332
11:00 - 12:00	27	44	0.152	27	44	0.170	27	44	0.322
12:00 - 13:00	27	44	0.176	27	44	0.171	27	44	0.347
13:00 - 14:00	27	44	0.166	27	44	0.155	27	44	0.321
14:00 - 15:00	27	44	0.158	27	44	0.182	27	44	0.340
15:00 - 16:00	27	44	0.246	27	44	0.176	27	44	0.422
16:00 - 17:00	27	44	0.271	27	44	0.160	27	44	0.431
17:00 - 18:00	27	44	0.365	27	44	0.168	27	44	0.533
18:00 - 19:00	27	44	0.224	27	44	0.149	27	44	0.373
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.298			2.348			4.646



Appendix C Granta Park Roundabout (Glenville Consultant TA)

