

Appendix 7 TN3: HGV Trip Distribution Technical Note





M1J15 NORTHAMPTON GATEWAY STRATEGIC RAIL FREIGHT INTERCHANGE

TECHNICAL NOTE 3: HGV TRIP DISTRIBUTION

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1.0 INTRODUCTION

- 1.1 ADC Infrastructure Ltd is commissioned by Roxhill (Junction 15) Ltd to provide transport advice with regards to their Nationally Significant Infrastructure Project (NSIP) for the development of a Strategic Rail Freight Interchange (SRFI) facility adjacent to M1 Junction 15 in Northamptonshire (known as Northampton Gateway SRFI).
- 1.2 Technical Note 1¹ sets out the transport modelling methodology agreed with the Transport Working Group² (TWG) for examining the transport impacts associated with the proposed Northampton Gateway SRFI. As part of that, it is agreed that the Northamptonshire Strategic Transport Model (NSTM) will be used to examine the transport impacts of the SRFI scheme. However, to appropriately represent the movement of heavy goods vehicles (HGVs) associated with SRFI, it is necessary to determine a bespoke HGV trip distribution for the development.
- 1.3 This Technical Note therefore presents the methodology used to determine the HGV trip distribution associated with the SRFI for use in the transport modelling work and Transport Assessment (TA) for the scheme. This Note builds upon the methodology discussed at the TWG meetings held on 07 July 2016, 17 August 2016 and 1 December 2016. The document is structured as follows:
 - Section 2 summarises the development HGV trip generation.
 - Section 3 details the methodology used to calculate the HGV trip distributions.
 - Section 4 defines which HGV trips should be assigned to the highway network using the HGV trip distributions
 - Section 5 presents the findings of a sense check of the resultant distribution compared to existing traffic count data.

¹ Technical Note 1: Transport Modelling Methodology. Report reference ADC1475 TN1 ver2, ADC Infrastructure Ltd

² The Transport Working Group comprises Highways England and their consultants Aecom, Northamptonshire County Council (NCC), ADC Infrastructure Ltd and BWB Consulting Ltd.



2.0 HGV TRIP GENERATION

- 2.1 The trip generation for the development is set out within Technical Note 2³, which has been submitted to Highways England and Northamptonshire County Council (NCC) for agreement. Table 6 of Technical Note 2 summaries the HGV trip generation for the proposed Northampton Gateway SRFI. A copy of the table is included at **Appendix A** of this note.
- 2.2 It should be noted that not all the HGV traffic associated with the proposed SRFI at Northampton Gateway would be new traffic to the road network, as container movements associated with existing end users would already be taking place on both the strategic and local road network.
- 2.3 For example, instead of goods destined for Northampton arriving on HGV having travelled from Felixstowe on the A14 and then the A45, the containers may be transferred to the region by rail, arriving at Northampton Gateway SRFI to then be distributed from Northampton Gateway SRFI to the local area by HGV.
- 2.4 The development would therefore alter the assignment of HGV trips, particularly around the site itself, as the development will result in modal shift to rail and provide a distribution hub.
- 2.5 Nevertheless, it is not possible at this stage to identify which HGV trips would be transferred from one route to another. Therefore, all HGV traffic will be assigned to the highway network as new trips. This will lead to some double counting of HGV movements that may need to be considered when reviewing the potential impacts of HGV traffic at locations more remote from the site.
- 2.6 However, this methodology provides a robust basis on which to assess the highway mitigation works that are proposed as part of the scheme.

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³ Technical Note 2: Trip Generation. Report reference ADC1475 TN2 ver3, ADC Infrastructure Ltd



3.0 HGV TRIP DISTRIBUTION

Introduction

- 3.1 Within the UK, the majority of imported container traffic is distributed to regional and national distribution centres. A high proportion of distribution centres are in the Midlands area, which is well placed for distribution by road as it is served by the M1 and M6 in the north, and the M40, M1 and M25 in the south.
- 3.2 The proximity to large urban centres, which are likely to generate demand for containerised freight is also important in determining the likely regional demand.
- 3.3 This section therefore sets out the methodology used to determine the HGV trip distribution for the proposed SRFI at Northampton Gateway. It takes into account the major freight traffic generators such as large towns and conurbations, the location of the site in relation to the strategic road network and the location of the main container ports. This is achieved by splitting the HGV distribution into two components:
 - Regional trip distribution (based on major regional freight traffic generators)
 - National trip distribution (based on the location of the site in relation to the strategic road network and the major container ports).

HGV trip distribution at regional level

3.4 **Figure 1** shows the regional catchment area for the proposed Northampton Gateway SRFI. The catchment is based on a 1 hour driving time, which equates to a 25 miles (40km) distance⁴.

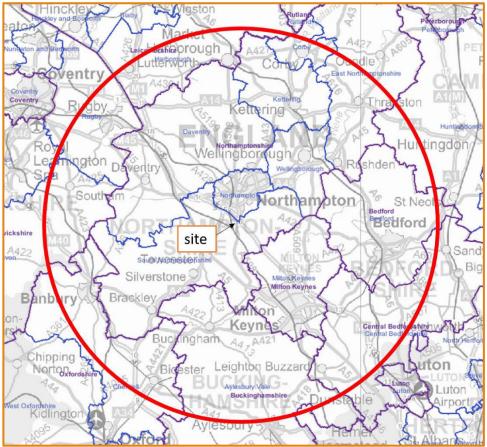


Figure 1: 25-mile catchment area of SRFI at Northampton Gateway

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⁴ Strategic distribution site assessment study for the three cities sub-area of the East Midlands (Aecom Final report May 2010)



- 3.5 The 25-mile catchment for the Northampton Gateway site includes Northampton, Wellingborough, Bedford and the unitary authority of Milton Keynes. This catchment has been adopted for the assessment of the distribution of regional HGV trips associated with the site using the following methodology.
- 3.6 Workplace population Census data has been used to determine an appropriate distribution for HGV trips within the 25-mile catchment area. The workplace population data has been used to define the number of people working within the locations contained within the regional catchment. The workplace population has been used as a proxy for the likely demand within the regional catchment area for containerised freight goods. In order that this is not biased by employment uses unlikely to have a demand for goods transported by HGV, for example office use, only data from the following classifications of economic activities have been used. A full classification of the economic activates included within the Census is provided at **Appendix B**.
 - Industry C: Manufacturing
 - Industry G: Wholesale and retail trade; repair of motor vehicles
 - Industry H: Transport and storage
- 3.7 The workplace population for each of the three selected classifications was therefore extracted from the 2011 Census for all Middle Super Output Areas (MSOA) for all locations within the 25-mile regional catchment. Where a MSOA was only partly contained within the regional catchment, an appropriate percentage reduction was applied to the workplace population for that MSOA. From this a resulting distribution for regional HGV trips is calculated. This is shown at **Table 1**, at the rear of this Technical Note.
- 3.8 When modelling the origin/destination (O/D) of the regional HGV trips within the NSTM, it has been agreed with the TWG that the allocated O/D point for each MSOA is allocated to the centre of the largest employment area within each MSOA.

HGV trip distribution on strategic road network (national level)

- 3.9 It is not possible at this stage in the development of the SRFI at Northampton Gateway to say with any certainty the final distribution for HGV trips associated with a national catchment area, as this will depend on the end users at the development. However, the relative percentage split of freight arriving at the UK ports is known⁵. This is summarised at the **Table 2** at the rear of this Note for the top ten ports within the UK, with ports in Northern Ireland excluded. Freight is made up of lift-on lift-off (lo-lo) container movements and roll-on roll-off freight.
- 3.10 It is proposed that in the absence of specific end user information, the location of the ports listed in **Table 2** will be used within the NSTM as origin/destination points for distribution of the HGV movements on a national scale.
- 3.11 In this way, a picture of the likely use of the strategic road network can be formed. For example, the data identifies a bias towards the south due to the location of Dover, London and Southampton in relation to the site.

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⁵ UK port freight statistics: 2014 final figures (DfT, September 2015)



4.0 HGV TRIP ASSIGNMENT

Introduction

- 4.1 WSP-PB are commissioned to update and run the NSTM to provide traffic data for assessment of the proposed Northampton Gateway SRFI. A necessary input for this model is the distribution of the HGV trips associated with the scheme. The NSTM will then assign the HGVs trips in accordance with the relative 'cost' of using a route and in accordance with existing HGV route restrictions, which are represented in the model.
- 4.2 Section 3 of this Technical Note presents a regional HGV trip distribution and a national HGV trip distribution. This section of the Technical Note therefore defines the relative split of HGV traffic associated with the regional and national distributions.

HGV trips associated with the rail terminal

- 4.3 Technical Note 2 sets out the vehicle trip generation associated with Northampton Gateway SRFI. That Note considers the HGV generation of both the rail terminal and the warehousing at the development. It also identifies the level of interaction between these two elements.
- 4.4 The rail terminal comprises the intermodal terminal and direct rail served warehouses, along with the Rapid Rail Freight (RRF) terminal. It identifies that once fully operational, the intermodal rail terminal would generate up to 1938 two-way HGV movements per day. Of these, some 40% would be associated with the warehousing at the site and hence would not result in an external HGV trip. For the balance (1163 two-way HGV trips) the size of the catchment area could be anywhere from local up to national but for most traffic not immediately captured by the SRFI warehousing the 25-mile catchment area as identified in Section 3 is appropriate. The RRF terminal could generate an additional 302 two-way HGV trips per day.
- 4.5 Therefore, for the purposes of the assessment all external HGV trips associated with the rail terminal are to be assigned using the regional distribution given at **Table 1**.
- 4.6 In accordance with Technical Note 2, for the development peak hour assessment periods 0800 to 0900 and 1600 to 1700 and daily period, the HGV trips given at the table below will be assigned using the NSTM based on the regional HGV distribution given at **Table 1** in accordance with the method described at paragraph 3.8.

	Arrive	Depart	Two-way
AM Peak	36	36	73
PM Peak	49	49	98
Daily	732	732	1465

HGV trips associated with the warehousing

4.7 HGV trips associated with the warehousing at Northampton Gateway SRFI would have anywhere from a local up to a national catchment. The actual catchment will be dictated by end users and their requirements. However, based on the location of the site it is considered that the Northampton Gateway SRFI could attract similar types of occupiers to the nearby DIRFT facility, which includes several large national distribution centres. It is therefore assumed for assessment purposes that a large percentage of the on-site warehousing could serve a national distribution role. Therefore, for the warehousing element a 70%/30% split between national distribution and regional distribution has been assumed.



- 4.8 Therefore, for the purposes of the assessment 30% of the external HGV trips associated with the warehousing are to be assigned to the highway network using the regional distribution given at **Table 1**, but the majority, 70%, are to be assigned using the national distribution given at **Table 2**.
- 4.9 In accordance with Technical Note 2, for the development peak hour assessment periods 0800 to 0900 hours and 1600 to 1700 hours, and daily period, the HGV trips given at the table below should be assigned in accordance with the above split between regional and national distribution.

	Arrive	Depart	Two-way
AM Peak	102	95	196
PM Peak	89	81	170
Daily	1388	1393	2780

Resulting HGV trip assignment

4.10 Figure 2 and Figure 3 indicate, respectively, the HGV trip distribution/assignment associated with the proposed regional and national distribution elements of the Northampton Gateway SRFI site.

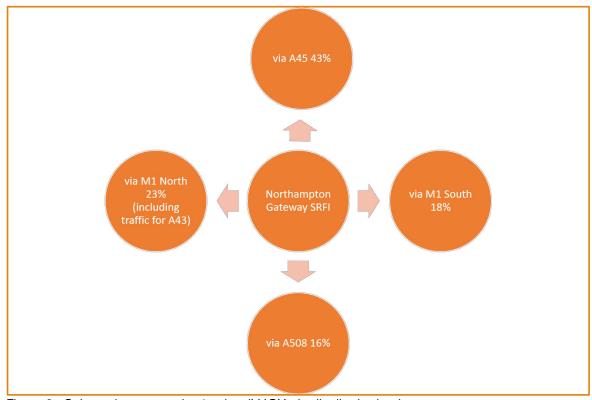


Figure 2: Schematic representing 'regional' HGV trip distribution/assignment



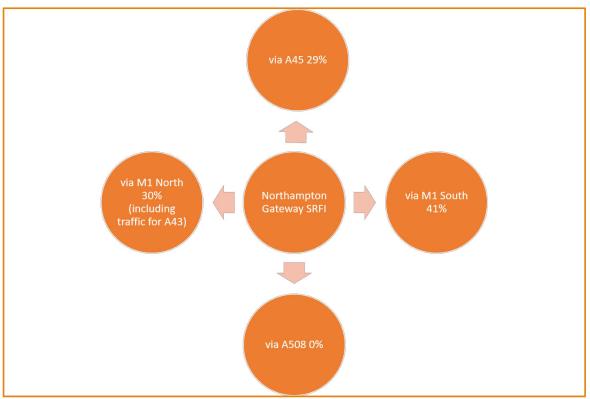


Figure 3: Schematic representing 'national' HGV trip distribution/assignment

4.11 Combining the regional and national HGV trip distributions shown in **Figures 2** and **3** with the splits between regional and national trips that are identified above, it is possible to provide an overall indication of the HGV trip distribution/assignment for the Northampton Gateway SRFI. This is shown at schematically in **Figure 4**.

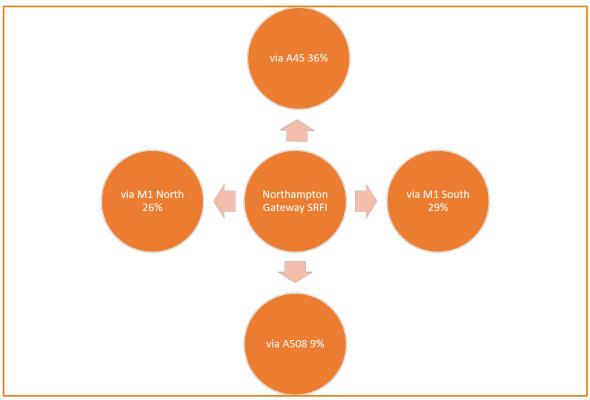


Figure 4: Schematic representing overall HGV trip distribution/assignment



4.12 It should be noted that **Figure 4** is only indicative at this stage, as the actual assignment of the HGV trips to the road network will be undertaken as part of the NSTM assessment in accordance with the relative 'cost' of using a route.



5.0 SENSE CHECK OF HGV DISTRIBUTION USING EXISTING TRAFFIC COUNT DATA

- 5.1 To provide a sense check on the indicative distribution/assignment shown in **Figure 4**, a comparison has been made to recent turning count data for M1J15 and ANPR data at M1J15a. The latter data was provided by Highways England.
- 5.2 The turning proportions of OGV1 + OGV2 movements have been extracted from the M1J15 count data. This allows the existing HGV turning proportions at M1J15 to be compared to the resultant HGV distribution for the development. Turning count data is available from a daytime (0630 to 1900 hours) classified turning count at M1J15 undertaken on 1 May 2014. A copy of the M1J15 turning count is provided at **Appendix C** and is summarised in the below table, along with the indicative development HGV distribution from **Figure 4**.

HGV turning proportions at M1J15						
arm	average for M1J15 (all entry movements)	indicative development distribution (Figure 4)				
A45	41%	36%				
Saxon Avenue	3%	n/a				
M1 south	17%	29%				
A508	10%	9%				
M1 north	30%	26%				

- 5.3 It can be seen from the above table that the indicative development distribution generally compares well with the distribution of HGVs extracted from the M1J15 turning count data. However, the development distribution shows a slightly lower percentage of HGVs using the A45 and an increase in HGVs using M1 south. This results in a more equal split between HGVs using M1 south and M1 north compared to the M1J15 turning count data.
- 5.4 The M1J15 turning count data shows a bias to A45 and M1 north for HGV movements. That bias is reflected in the development regional distribution shown at **Figure 2**. However, as noted at paragraph 3.11, the national distribution shows a bias towards M1 south, **Figure 3**. It has been assumed that 70% of the warehousing at Northampton Gateway would serve a national distribution function, and therefore the effect of this assumption is to balance out the resultant HGV split between M1 north and M1 south.
- 5.5 Therefore, to check the validity of this assumption, a comparison has been made to the HGV origins and destinations associated with the Swan Valley warehousing and distribution site that is located at M1J15a. This has been undertaken using ANPC data provided by Highways England.
- 5.6 The ANPC survey was undertaken on 10 March 2016 and recorded peak period (0600 to 0930 hours in the morning and 1530 to 1900 hours in the evening) traffic movements at M1J15a. A total of nine camera locations were used, comprising five external locations forming the boundary of the study area, and four internal cameras. The five external locations are M1 north (Site 1), Swan Valley Way (Site 4), A5123 (Site 7), A43 (Site 8) and M1 south (Site 9). A full break down of movements by vehicle class and camera site location was provided by Highways England. The relevant ANPC data has been extracted and is provided at **Appendix D**.
- 5.7 Site 4 is located on Swan Valley Way. Therefore, extracting the OGV1 + OGV2 movements associated with Site 4 provides a good estimate of the relative distribution of HGV traffic associated with the Swan Valley site between M1 north and M1 south. It should be noted that the Swan Valley site also includes a second access to the north of the site, which provides more direct access to Northampton and onwards links with the A45. This access was not included in Highways England's ANPC survey and hence movements to and from the north of the Swan



Valley site will not have been fully captured in the survey and will therefore be under presented in the ANPC analysis. Nevertheless, the analysis does allow the relative split between movements north and south of the M1 to be quantified and compared to the relative split proposed for the development distribution.

5.8 A summary of the distribution split for OGV1 + OGV2 movements associated with movements to and from Swan Valley Way (site 4) and the external ANPR sites at M1J15a is shown at the below table.

origins and destinations for HGV traffic travelling to and from Swan Valley Way						
	arr	ive	dep	oart		
ANPR site	Swan Valley (AM peak hour)	from Swan Valley (PM peak hour)	Swan Valley (AM peak hour)	Swan Valley (PM peak hour)	average	
M1 North (site 1)	26.5%	31.8%	13.0%	18.8%	22%	
Swan Valley (site 4)	2.0%	0.0%	2.2%	0.0%	1%	
A5123 (site 7)	4.1%	9.1%	0.0%	6.3%	5%	
A43 (site 8)	24.5%	22.7%	37.0%	18.8%	26%	
M1 south (site 9)	42.9%	36.4%	47.8%	56.3%	46%	

- 5.9 The assessment shows that, on average, 46% of the HGV movements to and from Swan Valley Way are made to and from M1 south, with 22% of movements made to and from M1 north. In addition, a further 26% of HGV movements to and from Swan Valley Way are made to and from the A43.
- 5.10 In relation to the location of the Northampton Gateway SRFI site, HGV movements to and from the A43 are included within the M1 north movements at **Figures 2** to **4**. On this basis, for Northampton Gateway SRFI, a more balanced split between movements to and from the M1 north and south would be expected i.e. based on the Swan Valley Way data, M1 north would equal 48% (22% for M1 north plus 26% of A43), compared to 46% for M1 south.
- 5.11 The ANPC data at M1J15a therefore supports the similar distribution split between M1 north and south that has been calculated for the proposed development and is shown in **Figure 4**.

Summary

- 5.12 The proposed development HGV distribution has been sense checked using traffic count data from M1J15 and M1J15a. The distribution compares well with the distribution of HGVs extracted from the M1J15 turning count data, but the development distribution shows a more equal distribution split between HGVs using M1 south and M1 north than recorded during the M1J15 turning count. However, assessment of ANPC data from M1J15a for the nearby Swan Valley site suggests that, once the location of the A43 in relation to the Northampton Gateway site is considered, an approximately balanced split between movements M1 north and M1 south would be expected.
- 5.13 It is therefore concluded that the proposed HGV distribution compares well to existing traffic data and is therefore appropriate for assessment purposes.

Table 1: Regional HGV distribution

		Industry G: Wholesale and				Estimated Workplace	
Middle Super Output Area	Industry C: Manufacturing	retail trade; repair of motor vehicles	Industry H: Transport and Storage	Total Selected Industry Categories	% of area contained within the catchment area	Population associated with Classifications C, G	% Distribution
Harborough Total	3,208	11,142	3,201	17,551		and H 14,244	5.0%
Harborough 002	160	226	44	430	100%	430	0.2%
Harborough 003	189	386	93	668	60%	401	0.1%
Harborough 005	584	520	135	1,239	20%	248	0.1%
Harborough 006 Harborough 007	582 174	4,997 335	2,097 61	7,676 570	80% 10%	6,141 57	2.2% 0.0%
Harborough 008	538	1,347	237	2,122	100%	2,122	0.7%
Harborough 009	223	1,172	70	1,465	100%	1,465	0.5%
Harborough 010	758	2,159	464	3,381	100%	3,381	1.2%
Daventry Total	5,221	7,476	4,442	17,139	4000/	17,139	6.1%
Daventry 001 Daventry 002	149 827	222 464	70 124	441 1,415	100% 100%	441 1,415	0.2% 0.5%
Daventry 003	439	1,821	2,463	4,723	100%	4,723	1.7%
Daventry 004	287	626	217	1,130	100%	1,130	0.4%
Daventry 005	149	359	96	604	100%	604	0.2%
Daventry 006	418	696	595	1,709	100%	1,709	0.6%
Daventry 007 Daventry 008	725 1,784	1,488 924	332 284	2,545 2,992	100% 100%	2,545 2,992	0.9% 1.1%
Daventry 009	223	621	187	1,031	100%	1,031	0.4%
Daventry 010	220	255	74	549	100%	549	0.2%
South Northamptonshire Total	3,768	4,504	2,020	10,292		10,292	3.6%
South Northamptonshire 001	392	350	159	901	100%	901	0.3%
South Northamptonshire 002	107	201	128	436	100%	436	0.2%
South Northamptonshire 003 South Northamptonshire 004	268 496	552 599	594 79	1,414 1,174	100% 100%	1,414 1,174	0.5% 0.4%
South Northamptonshire 005	273	485	108	866	100%	866	0.3%
South Northamptonshire 006	327	499	424	1,250	100%	1,250	0.4%
South Northamptonshire 007	244	286	100	630	100%	630	0.2%
South Northamptonshire 008	96 185	327	127	550 465	100%	550 465	0.2%
South Northamptonshire 009 South Northamptonshire 010	185 1,150	252 691	28 124	465 1,965	100% 100%	465 1,965	0.2% 0.7%
South Northamptonshire 010	230	262	149	641	100%	641	0.2%
Northampton Total	10,982	22,856	8,352	42,190		42,190	14.9%
Northampton 001	49	96	41	186	100%	186	0.1%
Northampton 002	1,964	1,202	578	3,744	100%	3,744	1.3%
Northampton 003	58 962	195	35 360	288	100%	288	0.1%
Northampton 004 Northampton 005	29	404 101	86	1,726 216	100% 100%	1,726 216	0.6% 0.1%
Northampton 006	45	101	32	178	100%	178	0.1%
Northampton 007	116	860	48	1,024	100%	1,024	0.4%
Northampton 008	260	826	56	1,142	100%	1,142	0.4%
Northampton 009	50	168	47	265	100%	265	0.1%
Northampton 010 Northampton 011	23 85	57 847	21 368	101 1,300	100% 100%	101 1,300	0.0% 0.5%
Northampton 012	34	104	53	191	100%	1,300	0.1%
Northampton 013	64	556	53	673	100%	673	0.2%
Northampton 014	46	105	40	191	100%	191	0.1%
Northampton 015	190	281	65	536	100%	536	0.2%
Northampton 016 Northampton 017	62 473	270 533	54 249	386	100%	386	0.1% 0.4%
Northampton 017	472 769	1,225	710	1,254 2,704	100% 100%	1,254 2,704	1.0%
Northampton 019	65	284	49	398	100%	398	0.1%
Northampton 020	37	64	34	135	100%	135	0.0%
Northampton 021	1,192	2,137	911	4,240	100%	4,240	1.5%
Northampton 022	364	479 925	79 153	922	100%	922	0.3%
Northampton 023 Northampton 024	296 589	1,669	373	1,374 2,631	100% 100%	1,374 2,631	0.5% 0.9%
Northampton 025	370	2,335	371	3,076	100%	3,076	1.1%
Northampton 026	42	86	41	169	100%	169	0.1%
Northampton 027	44	199	194	437	100%	437	0.2%
Northampton 028	2,309	4,612	1,568	8,489	100%	8,489	3.0%
Northampton 029 Northampton 030	248 79	1,369 565	1,573 59	3,190 703	100% 100%	3,190 703	1.1% 0.2%
Northampton 031	69	201	51	321	100%	321	0.1%
Kettering Total	4,702	8,311	2,261	15,274		15,274	5.4%
Kettering 001	211	576	289	1,076	100%	1,076	0.4%
Kettering 002	843	514	272	1,629	100%	1,629	0.6%
Kettering 003 Kettering 004	143 166	225 401	68 60	436 627	100% 100%	436 627	0.2% 0.2%
Kettering 005	55	172	42	269	100%	269	0.1%
Kettering 006	547	903	130	1,580	100%	1,580	0.6%
Kettering 007	1,262	2,983	678	4,923	100%	4,923	1.7%
Kettering 008	51 631	103 989	44 331	198 1 951	100%	198 1 951	0.1%
Kettering 009 Kettering 010	631 70	989 340	331 73	1,951 483	100% 100%	1,951 483	0.7% 0.2%
Kettering 010 Kettering 011	723	1,105	274	2,102	100%	2,102	0.7%
Wellingborough Total	5,410	7,431	2,413	15,254		15,254	5.4%
Wellingborough 001	197	273	131	601	100%	601	0.2%
Wellingborough 002	1,615	851 252	272	2,738	100%	2,738	1.0%
Wellingborough 003 Wellingborough 004	378 210	353 753	306 236	1,037 1,199	100% 100%	1,037 1,199	0.4% 0.4%
Wellingborough 005	865	1,076	253	1,199 2,194	100%	2,194	0.8%
Wellingborough 006	169	1,460	137	1,766	100%	1,766	0.6%
Wellingborough 007	52	294	25	371	100%	371	0.1%
Wellingborough 008	648	940	99	1,687	100%	1,687	0.6%
Wellingborough 009 Wellingborough 010	612 664	622 809	230 724	1,464 2,197	100% 100%	1,464 2,197	0.5% 0.8%
Corby Total	8,381	7,419	2,551	18,351	100%	18,351	6.5%
Corby 001	4,069	1,246	435	5,750	100%	5,750	2.0%
Corby 002	91	220	60	371	100%	371	0.1%
Corby 003	3,522	3,604	1,639	8,765	100%	8,765	3.1%
Corby 004	82 157	349	53	484	100%	484	0.2%
Corby 005 Corby 006	157 64	958 214	131 57	1,246 335	100%	1,246 335	0.4% 0.1%
Corby 008	64 317	214 416	57 82	335 815	100% 100%	335 815	0.1%
Corby 009	79	412	94	585	100%	585	0.2%
East Northamptonshire Total	4,459	5,845	1,938	12,242		8,665	3.1%
East Northamptonshire 001	189	240	177	606	0%	0	0.0%
East Northamptonshire 002	918	589	82	1,589	15%	238	0.1%
East Northamptonshire 003 East Northamptonshire 004	829 169	886 242	445 47	2,160 458	25% 100%	540 458	0.2% 0.2%
East Northamptonshire 004	269	561	180	1,010	100%	1,010	0.4%

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Aylesbury Vale 008 150 241 61 452 80% 362 0.1%
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Aylesbury Vale 014	354	539	105	998	0%	0	0.0%
Aylesbury Vale 015	148	1,971	535	2,654	0%	0	0.0%
Aylesbury Vale 016	213	294	48	555	0%	0	0.0%
Aylesbury Vale 017	64	187	33	284	0%	0	0.0%
Aylesbury Vale 018	51	88	161	300	0%	0	0.0%
Aylesbury Vale 019	95	208	71	374	0%	0	0.0%
Aylesbury Vale 020	42	87	53	182	0%	0	0.0%
Aylesbury Vale 021	344	481	180	1,005	0%	0	0.0%
Aylesbury Vale 022	413	666	89	1,168	0%	0	0.0%
Aylesbury Vale 023	476	514	95	1,085	0%	0	0.0%
Aylesbury Vale 024	94	496	181	771	0%	0	0.0%
Cherwell Total	8,587	14,133	3,452	26,172		21,992	7.8%
Cherwell 001	182	235	64	481	90%	433	0.2%
Cherwell 002	150	125	56	331	100%	331	0.1%
Cherwell 003	2,000	1,123	151	3,274	100%	3,274	1.2%
Cherwell 004	2,385	3,810	1,241	7,436	100%	7,436	2.6%
Cherwell 005	2,385 49	93	45	187	100%	187	0.1%
Cherwell 005	148	93 215	45 75	438	100%	438	0.1%
Cherwell 007	56	497	75 34	438 587	100%	587	0.2%
Cherwell 007			97				
	142	447		686	100%	686	0.2%
Cherwell 009	154	220	50	424	40%	170	0.1%
Cherwell 010	163	393	228	784	90%	706	0.2%
Cherwell 011	199	362	99	660	100%	660	0.2%
Cherwell 012	54	113	28	195	100%	195	0.1%
Cherwell 013	1,363	1,485	561	3,409	100%	3,409	1.2%
Cherwell 014	57	187	43	287	100%	287	0.1%
Cherwell 015	235	2,578	100	2,913	100%	2,913	1.0%
Cherwell 016	251	566	120	937	30%	281	0.1%
Cherwell 017	64	305	67	436	0%	0	0.0%
Cherwell 018	29	99	49	177	0%	0	0.0%
Cherwell 019	906	1,280	344	2,530	0%	0	0.0%
Rugby Total	7,346	7,631	3,380	18,357		15,388	5.4%
Rugby 001	2,728	1,610	990	5,328	50%	2,664	0.9%
Rugby 002	1,425	1,388	605	3,418	100%	3,418	1.2%
Rugby 003	1,037	1,316	586	2 <i>,</i> 939	100%	2,939	1.0%
Rugby 004	149	298	102	549	50%	275	0.1%
Rugby 005	728	507	266	1,501	100%	1,501	0.5%
Rugby 006	658	575	221	1,454	100%	1,454	0.5%
Rugby 007	189	243	194	626	100%	626	0.2%
Rugby 008	51	102	36	189	100%	189	0.1%
Rugby 009	84	895	112	1,091	100%	1,091	0.4%
Rugby 010	70	186	88	344	100%	344	0.1%
Rugby 011	83	165	57	305	100%	305	0.1%
Rugby 012	144	346	123	613	95%	582	0.2%
Warwick 005	1,485	1,273	1,648	4,406	20%	881	0.3%
Stratford-on-Avon Total	5,051	1,891	443	7,385		4,828	1.7%
Stratford-on-Avon 004	556	784	149	1,489	100%	1,489	0.5%
Stratford-on-Avon 005	322	497	159	978	90%	880	0.3%
Stratford-on-Avon 013	4,173	610	135	4,918	50%	2,459	0.9%
Strationa on Avon 015	7,173	010	133	4,310	30/0	2,733	0.570

Total	283.123	100.0%
Total	203,123	100.070

Ports	All Lo-Lo Container Units	All Ro-Ro Container Units	Total	% Split
	(in 000's)	(in 000's)	(in 000's)	
Felixstowe	2,434	205	2,640	26.09%
Dover	0	2,457	2,457	24.29%
London	626	544	1,170	11.57%
Southampton	1,087	2	1,088	10.76%
Liverpool	393	504	897	8.86%
Grimsby & Immingham	123	755	877	8.67%
Belfast*	126	435	561	-
Holyhead	0	361	361	3.57%
Hull	123	192	315	3.11%
Harwich	1	312	313	3.10%
Total	4,913	5,766	10,188	100%

^{*} Belfast excluded

Table 2: National HGV distribution based on top ten busiest ports in 2014 by lo-lo and ro-ro movements (adjusted to exclude ports in Northern Ireland)



APPENDIX A TABLE 6: TOTAL EXTERNAL HGVS (EXTRACTED FROM TN2)

		HGVs		
Time Window	M1J1	5 B8 wareho	uses	
	Arrive Depart		Two-way	
00.00-01.00	40	63	103	
01.00-02.00	60	60	119	
02.00-03.00	63	63	127	
03.00-04.00	44	67	111	
04.00-05.00	60	40	99	
05.00-06.00	91	56	147	
06.00-07.00	91	40	131	
07.00-08.00	83	111	194	
08.00-09.00	131	120	251	
09.00-10.00	87	79	167	
10.00-11.00	99	107	206	
11.00-12.00	87	83	171	
12.00-13.00	67	60	127	
13.00-14.00	56	91	147	
14.00-15.00	67	107	175	
15.00-16.00	44	83	127	
16.00-17.00	91	56	147	
17.00-18.00	115	104	218	
18.00-19.00	87	71	159	
19.00-20.00	75	52	127	
20.00-21.00	83	67	151	
21.00-22.00	52	75	127	
22.00-23.00	48	60	107	
23.00-00.00	56	63	119	
Totals	1777	1779	3556	

Intermodal Internal 40% Intermodal Internal*					
Arrive					
-9	-13	-22			
-13	-13	-26			
-14	-14	-28			
-10	-14	-24			
-13	-9	-22			
-20	-12	-32			
-20	-9	-29			
-18	-24	-42			
-29	-26	-55			
-19	-17	-36			
-22	-23	-45			
-19	-18	-37			
-15	-13	-28			
-12	-20	-32			
-15	-23	-38			
-10	-18	-28			
-20	-12	-32			
-25	-23	-48			
-19	-16	-35			
-16	-12	-28			
-18	-15	-33			
-11	-17	-28			
-10	-13	-23			
-12	-14	-26			
-389 -386 -775					

Intermodal External				
60% Intermodal external HGVs**				
Arrive Depart Two-v				
1	1	3		
2	2	5		
2	2	5		
2	2	3		
5	5	9		
15	15	30		
35	35	70		
46	46	93		
30	30	60		
30	30	59		
41	41	83		
39	39	78		
52	52	103		
42	42	83		
30	30	59		
41	41	83		
46	46	93		
43	43	85		
39	39	79		
24	24	47		
9	9	19		
4	4	8		
2	2	4		
1	1	2		
581	581	1163		

Rapid Rail Freight external HGVs***			
Arrive			
6	6	13	
6	6	13	
6	6	13	
6	6	13	
6	6	13	
6	6	13	
6	6	13	
6	6	13	
6	6	13	
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6	6	13	
6	6	13	
6	6	13	
6	6	13	
6	6	13	
6	6	13	
6	6	13	
151	151	302	

Total external HGVs SRFI				
Arrive Depart Two-way				
38	58	96		
55	55	110		
58	58	116		
42	61	103		
57	42	99		
93	65	158		
113	73	185		
118	139	258		
138	131	269		
104	98	202		
125	132	257		
114	110	224		
110	105	215		
91	119	211		
88	120	208		
81	113	194		
124	96	220		
138	130	268		
114	101	215		
89	70	159		
81	68	149		
51	69	120		
46	54	100		
51	57	108		
2120 2125 4245				

Table 6: Total external HGVs including for interaction between rail and warehousing and distributions uses

^{*} Based on Swan Valley HGV profile

^{**} Based on Hams Hall Train Arrivals

^{***} Based on consistent use through the day



APPENDIX E STANDARD INDUSTRIAL CLASSIFICATION O
ECONOMIC ACTIVITIES 200'



Standard industrial classification of economic activities (SIC) 2007



Version 2

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Standard Industrial Classification of Economic Activities (SIC)

The United Kingdom Standard Industrial Classification of Economic Activities (SIC) is used to classify business establishments and other standard units by the type of economic activity in which they are engaged. The new version of these codes (SIC 2007) was adopted by the UK as from 1st January 2008.

With the agreement of the Office of National Statistics (ONS), Companies House uses a condensed version of the full list of codes available from ONS. Please be aware that only the codes made available on the condensed Companies House list below can be used on the Annual Return.

Codes used from other sources than the Companies House list may mean your document is rejected, and your filing delayed. Even if your company is dormant (99999) or non-trading (74990) this still has to be indicated by using the appropriate SIC code.

Section Fishing	, ,	03120 Freshwater fishing 03210 Marine aquaculture
01110	Growing of cereals (except rice), leguminous crops and oil seeds	03220 Freshwater aquaculture
01120	Growing of rice	
01130	Growing of vegetables and melons, roots and tubers	Section B Mining and Quarrying
01140	Growing of sugar cane	05101 Deep coal mines
01150	Growing of tobacco	05102 Open cast coal working
01160	Growing of fibre crops	05200 Mining of lignite
01190	Growing of other non-perennial crops	06100 Extraction of crude petroleum
01210	Growing of grapes	06200 Extraction of natural gas
01220	Growing of tropical and subtropical fruits	07100 Mining of iron ores
01230	Growing of citrus fruits	07210 Mining of uranium and thorium ores
01240	Growing of pome fruits and stone fruits	07290 Mining of other non-ferrous metal ores
01250	Growing of other tree and bush fruits and nuts	08110 Quarrying of ornamental and building stone limestone, gypsum, chalk and slate
01260	Growing of oleaginous fruits	08120 Operation of gravel and sand pits; mining of
01270	Growing of beverage crops	clays and kaolin
01280	Growing of spices, aromatic, drug and	08910 Mining of chemical and fertilizer minerals
01200	pharmaceutical crops	08920 Extraction of peat
01290	Growing of other perennial crops	08930 Extraction of salt
01300	Plant propagation	08990 Other mining and quarrying n.e.c.
01410	Raising of dairy cattle	09100 Support activities for petroleum and natura gas mining
01420	Raising of other cattle and buffaloes	09900 Support activities for other mining and
01430	Raising of horses and other equines	quarrying
01440	Raising of camels and camelids	
01450	Raising of sheep and goats	
01460	Raising of swine/pigs	Section C Manufacturing
01470	Raising of poultry	
01490	Raising of other animals	10110 Processing and preserving of meat
01500	Mixed farming	10120 Processing and preserving of poultry meat
01610	Support activities for crop production	10130 Production of meat and poultry meat products
01621	Farm animal boarding and care	10200 Processing and preserving of fish,
01629	Support activities for animal production (other than farm animal boarding and care) n.e.c.	crustaceans and molluscs
01630	Post-harvest crop activities	10310 Processing and preserving of potatoes
01640	Seed processing for propagation	10320 Manufacture of fruit and vegetable juice
01700	Hunting, trapping and related service activities	10390 Other processing and preserving of fruit an vegetables
02100	Silviculture and other forestry activities	10410 Manufacture of oils and fats
02200	Logging	10420 Manufacture of margarine and similar edible
02300	Gathering of wild growing non-wood	fats 10511 Liquid milk and cream production
00400	products Support convices to forestry	10512 Butter and cheese production
02400	Support services to forestry	10519 Manufacture of other milk products
03110	Marine fishing	10520 Manufacture of ice cream

10611	Grain milling	13960	Manufacture of other technical and industrial textiles
10612	Manufacture of breakfast cereals and cereals- based food	13990	Manufacture of other textiles n.e.c.
10620	Manufacture of starches and starch products	14110	Manufacture of leather clothes
10710	Manufacture of bread; manufacture of fresh	14120	Manufacture of workwear
107 10	pastry goods and cakes	14131	Manufacture of other men's outerwear
10720	Manufacture of rusks and biscuits;	14132	Manufacture of other women's outerwear
	manufacture of preserved pastry goods and	14141	Manufacture of men's underwear
	cakes	14142	Manufacture of women's underwear
10730	Manufacture of macaroni, noodles, couscous and similar farinaceous products	14190	Manufacture of other wearing apparel and accessories n.e.c.
10810	Manufacture of sugar	14200	Manufacture of articles of fur
10821	Manufacture of cocoa and chocolate	14310	Manufacture of knitted and crocheted hosiery
10000	confectionery	14390	Manufacture of other knitted and crocheted
10822	Manufacture of sugar confectionery	14090	apparel
10831	Tea processing	15110	Tanning and dressing of leather; dressing and
10832	Production of coffee and coffee substitutes		dyeing of fur
10840 10850	Manufacture of condiments and seasonings Manufacture of prepared meals and dishes	15120	Manufacture of luggage, handbags and the like, saddlery and harness
10860	Manufacture of homogenized food	15200	Manufacture of footwear
	preparations and dietetic food	16100	Sawmilling and planing of wood
10890	Manufacture of other food products n.e.c.	16210	Manufacture of veneer sheets and wood-
10910	Manufacture of prepared feeds for farm animals		based panels
10920	Manufacture of prepared pet foods	16220	Manufacture of assembled parquet floors
11010	Distilling, rectifying and blending of spirits	16230	Manufacture of other builders' carpentry and
11020	Manufacture of wine from grape	16240	joinery Manufacture of wander containers
11030	Manufacture of cider and other fruit wines		Manufacture of other products of woods
11040	Manufacture of other non-distilled fermented	16290	Manufacture of other products of wood; manufacture of articles of cork, straw and
11010	beverages		plaiting materials
11050	Manufacture of beer	17110	Manufacture of pulp
11060	Manufacture of malt	17120	Manufacture of paper and paperboard
11070	Manufacture of soft drinks; production of mineral waters and other bottled waters	17211	Manufacture of corrugated paper and paperboard, sacks and bags
12000	Manufacture of tobacco products	17219	Manufacture of other paper and paperboard
13100	Preparation and spinning of textile fibres		containers
13200	Weaving of textiles	17220	Manufacture of household and sanitary goods
13300	Finishing of textiles	17000	and of toilet requisites
13910	Manufacture of knitted and crocheted fabrics	17230	Manufacture of paper stationery
13921	Manufacture of soft furnishings	17240	Manufacture of other articles of paper and
13922	Manufacture of canvas goods, sacks, etc.	17290	Manufacture of other articles of paper and paperboard n.e.c.
13923	Manufacture of household textiles	18110	Printing of newspapers
13931	Manufacture of woven or tufted carpets and	18121	Manufacture of printed labels
10000	rugs	18129	Printing n.e.c.
13939	Manufacture of other carpets and rugs	18130	Pre-press and pre-media services
13940	Manufacture of cordage, rope, twine and netting	18140	Binding and related services
13950	Manufacture of non-wovens and articles made	18201	Reproduction of sound recording
10000	from non-wovens, except apparel	18202	Reproduction of video recording
	, , , , , ,	- '	

18203	Reproduction of computer media	23320	Manufacture of bricks, tiles and construction products, in baked clay
19100	Manufacture of coke oven products	23410	Manufacture of ceramic household and
19201 19209	Mineral oil refining	20410	ornamental articles
19209	Other treatment of petroleum products (excluding petrochemicals manufacture)	23420	Manufacture of ceramic sanitary fixtures
20110	Manufacture of industrial gases	23430	Manufacture of ceramic insulators and
20120	Manufacture of dyes and pigments		insulating fittings
20130	Manufacture of other inorganic basic chemicals	23440	Manufacture of other technical ceramic products
20140	Manufacture of other organic basic chemicals	23490	Manufacture of other ceramic products n.e.c.
20150	Manufacture of fertilizers and nitrogen	23510	Manufacture of cement
	compounds	23520	Manufacture of lime and plaster
20160	Manufacture of plastics in primary forms	23610	Manufacture of concrete products for construction purposes
20170	Manufacture of synthetic rubber in primary forms	23620	Manufacture of plaster products for
20200	Manufacture of pesticides and other	00000	construction purposes
	agrochemical products	23630	Manufacture of ready-mixed concrete
20301	Manufacture of paints, varnishes and similar coatings, mastics and sealants	23640 23650	Manufacture of mortars Manufacture of fibre cement
20302	Manufacture of printing ink	23690	Manufacture of other articles of concrete,
20302	Manufacture of soap and detergents	23090	plaster and cement
20411	Manufacture of cleaning and polishing	23700	Cutting, shaping and finishing of stone
20412	preparations	23910	Production of abrasive products
20420	Manufacture of perfumes and toilet preparations	23990	Manufacture of other non-metallic mineral products n.e.c.
20510	Manufacture of explosives	24100	Manufacture of basic iron and steel and of
20520	Manufacture of glues		ferro-alloys
20530	Manufacture of essential oils	24200	Manufacture of tubes, pipes, hollow profiles
20590	Manufacture of other chemical products n.e.c.	0.40.40	and related fittings, of steel
20600	Manufacture of man-made fibres	24310	Cold drawing of bars
21100	Manufacture of basic pharmaceutical products	24320	Cold rolling of narrow strip
21200	Manufacture of pharmaceutical preparations	24330	3 3
22110	Manufacture of rubber tyres and tubes;	24340	Cold drawing of wire
	retreading and rebuilding of rubber tyres	24410	Precious metals production
22190	Manufacture of other rubber products	24420	Aluminium production
22210	Manufacture of plastic plates, sheets, tubes	24430	Lead, zinc and tin production
00000	and profiles	24440	Copper production
22220	Manufacture of plastic packing goods	24450	Other non-ferrous metal production
22230	Manufacture of builders ware of plastic	24460	Processing of nuclear fuel
22290	Manufacture of other plastic products	24510	Casting of steel
23110 23120	Manufacture of flat glass	24520 24530	Casting of light motals
23120	Shaping and processing of flat glass Manufacture of hollow glass	24530	Casting of other pan formula metals
23140	<u> </u>		Casting of other non-ferrous metals Manufacture of metal structures and parts of
23140	Manufacture of glass fibres Manufacture and processing of other glass,	25110	Manufacture of metal structures and parts of structures
20190	including technical glassware	25120	Manufacture of doors and windows of metal
23200	Manufacture of refractory products	25210	Manufacture of central heating radiators and
23310	Manufacture of ceramic tiles and flags	-	boilers
-			

25290	Manufacture of other tanks, reservoirs and containers of metal	27120	Manufacture of electricity distribution and control apparatus
25300	Manufacture of steam generators, except	27200	Manufacture of batteries and accumulators
	central heating hot water boilers	27310	Manufacture of fibre optic cables
25400	Manufacture of weapons and ammunition	27320	Manufacture of other electronic and electric
25500	Forging, pressing, stamping and roll-forming		wires and cables
25610	of metal; powder metallurgy	27330	Manufacture of wiring devices
25620	Treatment and coating of metals Machining	27400	Manufacture of electric lighting equipment
25710	Manufacture of cutlery	27510	Manufacture of electric domestic appliances
25720	Manufacture of locks and hinges	27520	Manufacture of non-electric domestic appliances
25730	Manufacture of tools	27900	Manufacture of other electrical equipment
25910	Manufacture of steel drums and similar	28110	Manufacture of engines and turbines, except
	containers		aircraft, vehicle and cycle engines
25920	Manufacture of light metal packaging	28120	Manufacture of fluid power equipment
25930	Manufacture of wire products, chain and	28131	Manufacture of pumps
05040	springs	28132	Manufacture of compressors
25940	Manufacture of fasteners and screw machine products	28140	Manufacture of taps and valves
25990	Manufacture of other fabricated metal products n.e.c.	28150	Manufacture of bearings, gears, gearing and driving elements
26110	Manufacture of electronic components	28210	Manufacture of ovens, furnaces and furnace
26120	Manufacture of loaded electronic boards	00000	burners Manufacture of lifting and handling acquirement
26200	Manufacture of computers and peripheral	28220	Manufacture of lifting and handling equipment
_0_0	equipment	28230	Manufacture of office machinery and equipment (except computers and peripheral
26301	Manufacture of telegraph and telephone		equipment)
	apparatus and equipment	28240	Manufacture of power-driven hand tools
26309	Manufacture of communication equipment other than telegraph, and telephone	28250	Manufacture of non-domestic cooling and ventilation equipment
00400	apparatus and equipment	28290	Manufacture of other general-purpose
26400	Manufacture of consumer electronics		machinery n.e.c.
26511	Manufacture of electronic measuring, testing etc. equipment, not for industrial process	28301	Manufacture of agricultural tractors
	control	28302	Manufacture of agricultural and forestry machinery other than tractors
26512	Manufacture of electronic industrial process control equipment	28410	Manufacture of metal forming machinery
26513	Manufacture of non-electronic measuring,	28490	Manufacture of other machine tools
20010	testing etc. equipment, not for industrial	28910	Manufacture of machinery for metallurgy
	process control	28921	Manufacture of machinery for mining
26514	Manufacture of non-electronic industrial	28922	Manufacture of earthmoving equipment
	process control equipment	28923	Manufacture of equipment for concrete
26520	Manufacture of watches and clocks	00000	crushing and screening and roadworks
26600	Manufacture of irradiation, electromedical and electrotherapeutic equipment	28930	Manufacture of machinery for food, beverage and tobacco processing
26701	Manufacture of optical precision instruments	28940	Manufacture of machinery for textile, apparel
26702	Manufacture of photographic and	00050	and leather production
00000	cinematographic equipment	28950	Manufacture of machinery for paper and paperboard production
26800	Manufacture of magnetic and optical media	28960	Manufacture of plastics and rubber
27110	Manufacture of electric motors, generators and transformers	20000	machinery

28990	Manufacture of other special-purpose machinery n.e.c.	33170	Repair and maintenance of other transport equipment n.e.c.
29100	Manufacture of motor vehicles	33190	Repair of other equipment
29201	Manufacture of bodies (coachwork) for motor vehicles (except caravans)	33200	Installation of industrial machinery and equipment
29202	Manufacture of trailers and semi-trailers		
29203	Manufacture of caravans		
29310	Manufacture of electrical and electronic	Section	on D Electricity, gas, steam and air
	equipment for motor vehicles and their engines		ioning supply
29320	Manufacture of other parts and accessories for motor vehicles	35110 35120	Production of electricity Transmission of electricity
30110	Building of ships and floating structures	35130	Distribution of electricity
30120	Building of pleasure and sporting boats	35140	Trade of electricity
30200	Manufacture of railway locomotives and	35210	Manufacture of gas
	rolling stock	35220	Distribution of gaseous fuels through mains
30300	Manufacture of air and spacecraft and related	35230	Trade of gas through mains
30400	Manufacture of military fighting vehicles	35300	Steam and air conditioning supply
30910	Manufacture of military fighting vehicles Manufacture of motorcycles		
30920	Manufacture of bicycles and invalid carriages		
30990	Manufacture of other transport equipment	Section	on E Water supply, sewerage, waste
00000	n.e.c.	manag	gement and remediation activities
31010	Manufacture of office and shop furniture	36000	Water collection, treatment and supply
31020	Manufacture of kitchen furniture	37000	Sewerage
31030	Manufacture of mattresses	38110	Collection of non-hazardous waste
31090	Manufacture of other furniture	38120	Collection of hazardous waste
32110	Striking of coins	38210	Treatment and disposal of non-hazardous
32120	Manufacture of jewellery and related articles		waste
32130	Manufacture of imitation jewellery and related articles	38220 38310	Treatment and disposal of hazardous waste Dismantling of wrecks
32200	Manufacture of musical instruments	38320	Recovery of sorted materials
32300	Manufacture of sports goods	39000	Remediation activities and other waste
32401	Manufacture of professional and arcade games and toys		management services
32409	Manufacture of other games and toys, n.e.c.		
32500	Manufacture of medical and dental instruments and supplies	Section	on F Construction
32910	Manufacture of brooms and brushes	41100	Development of building projects
32990	Other manufacturing n.e.c.	41201	Construction of commercial buildings
33110	Repair of fabricated metal products	41202	Construction of domestic buildings
33120	Repair of machinery	42110	Construction of roads and motorways
33130	Repair of electronic and optical equipment	42120	Construction of railways and underground
33140	Repair of electrical equipment	0	railways
33150	Repair and maintenance of ships and boats	42130	Construction of bridges and tunnels
33160	Repair and maintenance of aircraft and	42210	Construction of utility projects for fluids
	spacecraft	42220	Construction of utility projects for electricity
			and telecommunications

42910 42990	Construction of water projects Construction of other civil engineering projects	46180	Agents specialised in the sale of other particular products
43110	n.e.c. Demolition	46190	Agents involved in the sale of a variety of goods
43120	Site preparation	46210	Wholesale of grain, unmanufactured tobacco,
43130	Test drilling and boring		seeds and animal feeds
43210	Electrical installation	46220	Wholesale of flowers and plants
43220	Plumbing, heat and air-conditioning	46230	Wholesale of live animals
	installation	46240	Wholesale of hides, skins and leather
43290	Other construction installation	46310	Wholesale of fruit and vegetables
43310	Plastering	46320	Wholesale of meat and meat products
43320	Joinery installation	46330	Wholesale of dairy products, eggs and edible
43330	Floor and wall covering	100.44	oils and fats
43341	Painting	46341	Wholesale of fruit and vegetable juices, mineral water and soft drinks
43342	Glazing Other building completion and finishing	46342	Wholesale of wine, beer, spirits and other
43390 43910	Other building completion and finishing		alcoholic beverages
43991	Roofing activities Scaffold erection	46350	Wholesale of tobacco products
43991	Other specialised construction activities n.e.c.	46360	Wholesale of sugar and chocolate and sugar confectionery
		46370	Wholesale of coffee, tea, cocoa and spices
Section	on G Wholesale and retail trade;	46380	Wholesale of other food, including fish, crustaceans and molluscs
	of motor vehicles and motorcycles	46390	Non-specialised wholesale of food, beverages and tobacco
45111	Sale of new cars and light motor vehicles	46410	Wholesale of textiles
45112	Sale of used cars and light motor vehicles	46420	Wholesale of clothing and footwear
45190	Sale of other motor vehicles	46431	Wholesale of audio tapes, records, CDs and
45200	Maintenance and repair of motor vehicles		video tapes and the equipment on which
45310	Wholesale trade of motor vehicle parts and accessories	46439	these are played Wholesale of radio, television goods &
45320	Retail trade of motor vehicle parts and accessories		electrical household appliances (other than records, tapes, CD's & video tapes and the equipment used for playing them)
45400	Sale, maintenance and repair of motorcycles and related parts and accessories	46440	Wholesale of china and glassware and cleaning materials
46110	Agents selling agricultural raw materials,	46450	Wholesale of perfume and cosmetics
	livestock, textile raw materials and semi- finished goods	46460	Wholesale of pharmaceutical goods
46120	Agents involved in the sale of fuels, ores, metals and industrial chemicals	46470	Wholesale of furniture, carpets and lighting equipment
46130	Agents involved in the sale of timber and	46480	Wholesale of watches and jewellery
	building materials	46491	Wholesale of musical instruments
46140	Agents involved in the sale of machinery, industrial equipment, ships and aircraft	46499	Wholesale of household goods (other than musical instruments) n.e.c
46150	Agents involved in the sale of furniture, household goods, hardware and ironmongery	46510	Wholesale of computers, computer peripheral equipment and software
46160	Agents involved in the sale of textiles, clothing, fur, footwear and leather goods	46520	Wholesale of electronic and telecommunications equipment and parts
46170	Agents involved in the sale of food, beverages and tobacco	46610	Wholesale of agricultural machinery, equipment and supplies

46620	Wholesale of machine tools		coverings in specialised stores
46630	Wholesale of mining, construction and civil engineering machinery	47540	Retail sale of electrical household appliances in specialised stores
46640	Wholesale of machinery for the textile	47591	Retail sale of musical instruments and scores
466E0	industry and of sewing and knitting machines Wholesale of office furniture	47599	Retail of furniture, lighting, and similar (not
46650 46660	Wholesale of other office machinery and		musical instruments or scores) in specialised store
40000	equipment	47610	Retail sale of books in specialised stores
46690	Wholesale of other machinery and equipment	47620	Retail sale of newspapers and stationery in
46711	Wholesale of petroleum and petroleum	47000	specialised stores
46719	products Wholesale of other fuels and related products	47630	Retail sale of music and video recordings in specialised stores
46720	Wholesale of metals and metal ores	47640	Retail sale of sports goods, fishing gear,
46730	Wholesale of wood, construction materials		camping goods, boats and bicycles
	and sanitary equipment	47650	Retail sale of games and toys in specialised stores
46740	Wholesale of hardware, plumbing and heating equipment and supplies	47710	Retail sale of clothing in specialised stores
46750	Wholesale of chemical products	47721	Retail sale of footwear in specialised stores
46760	Wholesale of other intermediate products	47722	Retail sale of leather goods in specialised
46770	Wholesale of waste and scrap	47700	stores
46900	Non-specialised wholesale trade	47730 47741	Dispensing chemist in specialised stores
47110	Retail sale in non-specialised stores with	47749	Retail sale of hearing aids Retail sale of medical and orthopaedic goods
47190	food, beverages or tobacco predominating Other retail sale in non-specialised stores	17710	in specialised stores (not incl. hearing aids)
47210	Retail sale of fruit and vegetables in		n.e.c.
	specialised stores	47750	Retail sale of cosmetic and toilet articles in specialised stores
47220	Retail sale of meat and meat products in	47760	Retail sale of flowers, plants, seeds, fertilizers,
47230	specialised stores Retail sale of fish, crustaceans and molluscs		pet animals and pet food in specialised
11 200	in specialised stores	47770	stores Retail sale of watches and jewellery in
47240	Retail sale of bread, cakes, flour	41110	specialised stores
	confectionery and sugar confectionery in specialised stores	47781	Retail sale in commercial art galleries
47250	Retail sale of beverages in specialised stores	47782	Retail sale by opticians
47260	Retail sale of tobacco products in specialised	47789	Other retail sale of new goods in specialised stores (not commercial art galleries and
	stores		opticians)
47290	Other retail sale of food in specialised stores	47791	Retail sale of antiques including antique
47300	Retail sale of automotive fuel in specialised stores	47700	books in stores
47410	Retail sale of computers, peripheral units and	47799	Retail sale of other second-hand goods in stores (not incl. antiques)
	software in specialised stores	47810	Retail sale via stalls and markets of food,
47421	Retail sale of mobile telephones		beverages and tobacco products
47429	Retail sale of telecommunications equipment other than mobile telephones	47820	Retail sale via stalls and markets of textiles, clothing and footwear
47430	Retail sale of audio and video equipment in specialised stores	47890	Retail sale via stalls and markets of other goods
47510	Retail sale of textiles in specialised stores	47910	Retail sale via mail order houses or via
47520	Retail sale of hardware, paints and glass in specialised stores	47000	Other retail cale not in stores, stelle or
47530	Retail sale of carpets, rugs, wall and floor	47990	Other retail sale not in stores, stalls or markets

Section	on H Transportation and storage	Secti	on I Accommodation and food
49100	Passenger rail transport, interurban	servic	e activities
49200	Freight rail transport	55100	Hotels and similar accommodation
49311	Urban and suburban passenger railway	55201	Holiday centres and villages
	transportation by underground, metro and	55202	Youth hostels
49319	similar systems Other urban, suburban or metropolitan	55209	Other holiday and other collective accommodation
	passenger land transport (not underground, metro or similar)	55300	Recreational vehicle parks, trailer parks and camping grounds
49320	Taxi operation	55900	Other accommodation
49390	Other passenger land transport	56101	Licenced restaurants
49410	Freight transport by road	56102	Unlicenced restaurants and cafes
49420	Removal services	56103	Take-away food shops and mobile food
49500	Transport via pipeline	00.00	stands
50100	Sea and coastal passenger water transport	56210	Event catering activities
50200	Sea and coastal freight water transport	56290	Other food services
50300	Inland passenger water transport	56301	Licenced clubs
50400	Inland freight water transport	56302	Public houses and bars
51101	Scheduled passenger air transport		
51102	Non-scheduled passenger air transport		
51210	Freight air transport	Secti	on J Information and communication
51220	Space transport		
52101	Operation of warehousing and storage	58110	Book publishing
	facilities for water transport activities	58120	Publishing of directories and mailing lists
52102	Operation of warehousing and storage facilities for air transport activities	58130	Publishing of newspapers
52103	Operation of warehousing and storage	58141 58142	Publishing of learned journals Publishing of consumer and business
	facilities for land transport activities	30142	journals and periodicals
52211	Operation of rail freight terminals	58190	Other publishing activities
52212	Operation of rail passenger facilities at railway	58210	Publishing of computer games
50040	stations	58290	Other software publishing
52213	Operation of bus and coach passenger facilities at bus and coach stations	59111	Motion picture production activities
52219	Other service activities incidental to land	59112	Video production activities
02210	transportation, n.e.c.	59113	Television programme production activities
52220	Service activities incidental to water transportation	59120	Motion picture, video and television programme post-production activities
52230	Service activities incidental to air	59131	Motion picture distribution activities
	transportation	59132	Video distribution activities
52241	Cargo handling for water transport activities	59133	Television programme distribution activities
52242	Cargo handling for air transport activities	59140	Motion picture projection activities
52243	Cargo handling for land transport activities	59200	Sound recording and music publishing activities
52290	Other transportation support activities	60100	
53100	Postal activities under universal service obligation	60100 60200	Radio broadcasting Television programming and broadcasting
53201	Licensed carriers	04:55	activities
53202	Unlicensed carriers	61100	Wired telecommunications activities
		61200	Wireless telecommunications activities

61300	Satellite telecommunications activities	65110	Life insurance
61900	Other telecommunications activities	65120	Non-life insurance
62011	Ready-made interactive leisure and	65201	Life reinsurance
	entertainment software development	65202	Non-life reinsurance
62012	Business and domestic software	65300	Pension funding
	development	66110	Administration of financial markets
62020	Information technology consultancy activities	66120	Security and commodity contracts dealing
62030	Computer facilities management activities		activities
62090	Other information technology service activities	66190	Activities auxiliary to financial intermediation
00440			n.e.c.
63110	Data processing, hosting and related	66210	Risk and damage evaluation
	activities	66220	Activities of insurance agents and brokers
63120	Web portals	66290	Other activities auxiliary to insurance and
63910	News agency activities		pension funding
63990	Other information service activities n.e.c.	66300	Fund management activities

Section K Financial and insurance activities

64110	Central banking
64191	Banks
64192	Building societies
64201	Activities of agricultural holding companies
64202	Activities of production holding companies
64203	Activities of construction holding companies
64204	Activities of distribution holding companies
64205	Activities of financial services holding companies
64209	Activities of other holding companies n.e.c.
64301	Activities of investment trusts
64302	Activities of unit trusts
64303	Activities of venture and development capital companies
64304	Activities of open-ended investment companies
64305	Activities of property unit trusts
64306	Activities of real estate investment trusts
64910	Financial leasing
64921	Credit granting by non-deposit taking finance houses and other specialist consumer credit grantors
64922	Activities of mortgage finance companies
64929	Other credit granting n.e.c.
64991	Security dealing on own account
64992	Factoring
64999	Financial intermediation not elsewhere

classified

Section L Real estate activities

68100	Buying and selling of own real estate
68201	Renting and operating of Housing Association real estate
68202	Letting and operating of conference and exhibition centres
68209	Other letting and operating of own or leased real estate
68310	Real estate agencies
68320	Management of real estate on a fee or contract basis

Section M Professional, scientific and technical activities

69101	Barristers at law
69102	Solicitors
69109	Activities of patent and copyright agents; other legal activities n.e.c.
69201	Accounting and auditing activities
69202	Bookkeeping activities
69203	Tax consultancy
70100	Activities of head offices
70210	Public relations and communications activities
70221	Financial management
70229	Management consultancy activities other than financial management
71111	Architectural activities

71112	Urban planning and landscape architectural activities	77310	Renting and leasing of agricultural machinery and equipment
71121	Engineering design activities for industrial process and production	77320	Renting and leasing of construction and civil engineering machinery and equipment
71122	Engineering related scientific and technical consulting activities	77330	Renting and leasing of office machinery and equipment (including computers)
71129	Other engineering activities	77341	Renting and leasing of passenger water
71200	Technical testing and analysis		transport equipment
72110	Research and experimental development on biotechnology	77342	Renting and leasing of freight water transport equipment
72190	Other research and experimental development on natural sciences and	77351	Renting and leasing of air passenger transport equipment
70000	engineering	77352	Renting and leasing of freight air transport equipment
72200	Research and experimental development on social sciences and humanities	77390	Renting and leasing of other machinery,
73110	Advertising agencies	77400	equipment and tangible goods n.e.c.
73120	Media representation services	77400	Leasing of intellectual property and similar products, except copyright works
73200	Market research and public opinion polling	78101	Motion picture, television and other theatrical
74100	Specialised design activities	70101	casting activities
74201	Portrait photographic activities	78109	Other activities of employment placement
74202 74203	Other specialist photography		agencies
74203	Film processing	78200	Temporary employment agency activities
	Photographic activities not elsewhere classified	78300	Human resources provision and management of human resources functions
74300	Translation and interpretation activities	79110	Travel agency activities
74901	Environmental consulting activities	79120	Tour operator activities
74902	Quantity surveying activities	79901	Activities of tourist guides
74909	Other professional, scientific and technical activities n.e.c.	79909	Other reservation service activities n.e.c.
74990	Non-trading company	80100	Private security activities
75000	Veterinary activities	80200	Security systems service activities
. 0000	voterment detirates	80300	Investigation activities
		81100	Combined facilities support activities
		81210	General cleaning of buildings
Section	on N Administrative and support	81221	Window cleaning services
	e activities	81222	Specialised cleaning services
		81223	Furnace and chimney cleaning services
77110	Renting and leasing of cars and light motor vehicles	81229	Other building and industrial cleaning activities
77120	Renting and leasing of trucks and other	81291	Disinfecting and exterminating services
	heavy vehicles	81299	Other cleaning services
77210	Renting and leasing of recreational and	81300	Landscape service activities
77220	sports goods Renting of video tapes and disks	82110	Combined office administrative service activities
77291	Renting and leasing of media entertainment equipment	82190	Photocopying, document preparation and other specialised office support activities
77299	Renting and leasing of other personal and	82200	Activities of call centres
	household goods	82301	Activities of exhibition and fair organisers

Specialists medical practice activities Dental practice activities Other human health activities Residential nursing care facilities Residential care activities for learning difficulties, mental health and substance abuse Residential care activities for the elderly and disabled Other residential care activities n.e.c. Social work activities without accommodation for the elderly and disabled Child day-care activities Other social work activities without accommodation accommodation n.e.c. The Arts, entertainment and on Performing arts Support activities to performing arts
Other human health activities Residential nursing care facilities Residential care activities for learning difficulties, mental health and substance abuse Residential care activities for the elderly and disabled Other residential care activities n.e.c. Social work activities without accommodation for the elderly and disabled Child day-care activities Other social work activities without accommodation n.e.c. In R Arts, entertainment and On Performing arts Support activities to performing arts
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on Performing arts Support activities to performing arts
on Performing arts Support activities to performing arts
Performing arts Support activities to performing arts
Support activities to performing arts
Support activities to performing arts
Artistic creation
Operation of arts facilities
Library activities
Archives activities
Museums activities
Operation of historical sites and buildings and
similar visitor attractions
Botanical and zoological gardens and nature
reserves activities
Gambling and betting activities
Operation of sports facilities
Activities of sport clubs
Fitness facilities
Activities of racehorse owners
Other sports activities
A SECTION ASSESSMENT OF THE SECTION ASSESSME
Activities of amusement parks and theme
Activities of amusement parks and theme parks

Section S

94110

94120

activities

86101 Hospital activities

86102 Medical nursing home activities

86210 General medical practice activities

Other service activities

Activities of business and employers

Activities of professional membership

membership organisations

organisations

94200	Activities of trade unions
94910	Activities of religious organisations
94920	Activities of political organisations
94990	Activities of other membership organisations n.e.c.
95110	Repair of computers and peripheral equipment
95120	Repair of communication equipment
95210	Repair of consumer electronics
95220	Repair of household appliances and home and garden equipment
95230	Repair of footwear and leather goods
95240	Repair of furniture and home furnishings
95250	Repair of watches, clocks and jewellery
95290	Repair of personal and household goods n.e.c.
96010	Washing and (dry-)cleaning of textile and fur products
96020	Hairdressing and other beauty treatment
96030	Funeral and related activities
96040	Physical well-being activities
96090	Other service activities n.e.c.

Section T Activities of households as employers; undifferentiated goods- and services-producing activities of households for own use

97000	Activities of households as employers of domestic personnel
98000	Residents property management
98100	Undifferentiated goods-producing activities of private households for own use
98200	Undifferentiated service-producing activities of private households for own use

Section U Activities of extraterritorial organisations and bodies

99000 Activities of extraterritorial organisations and bodies

99999 Dormant Company

Standard industrial classification	on of economic activities	(SIC) 2007 -	Companies House

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APPENDIX C
M1J15 TURNING COUNT SURVEY DATA

				OGV1 + OGV2	MOVEMENTS TO			
		A45	Saxon Ave	M1S	A508	M1 N	Total	Distribution
S S	A45	5	81	824	323	1398	2631	41%
& F _	Saxon Ave	82	0	60	8	43	193	3%
ME O	M1 S	970	52	0	30	2	1054	17%
1.5.5.	A508	216	4	60	0	327	607	10%
186	M1 N	1465	81	1	345	0	1892	30%
ŏ≥	Total	2738	218	945	706	1770	6377	100%

HGV movements at M1J15 (daytime period 0630 to 1900 hours)

Approach: A45 London Road

Approach:	A45 London R	oad																																					
				on Avenue								(South)							To A508 Nort								To M1 (I									Turn			
TIME	P/CYCLE M/CYC	LE CAR	LGV	OGV1	OGV2	BUS		P/CYCLE	M/CYCLE		LGV		OGV2	BUS			CLE M/CYC	LE CAR		OGV1	OGV2	BUS		P/CYCLE	MCYCLE				GV2	BUS		P/CYCLE	M/CYCLE	CAR	LGV	OGV1	OGV2	BUS	TOTAL
0630 - 0645	0 0	10	2	1	0	0	13	0	3	122	33	12	19	0	189		0	62	18	1	3	0	84		0	122	49		21	1	207	0	0	0	0	0	0	0	0
0645 - 0700	0 0		2	4	0	0	24	0	0	165	53	5	9	0	232		0	80		6	6	0	129		0	134	37		23	0	206	0	0	0	0	0	0	0	0
Hourly Total	0 0	28	4	5	0	0	37	0	3	287	86	17	28	0	421		0	142		7	9	0	213		0	256	86		44	_1_	413	0	0	0	0	0	0	0	0
0700 - 0715	0 0	14	2	3	0	0	19	0	2	120	41	8	9	2	182		2	96	35	9	3	0	145		- 1	119	33		26	0	193	0	0	- 1	0	0	0	0	_ 1
0715 - 0730	0 0		4	0	1	1	15	0	2	210	52	6	14	0	284	0		168		3	3	0	208	0	0	182	34		17	0	245	0	0	0	0	0	0	0	0
0730 - 0745	0 0		0	0	0	1 1	1	0	0	218	44	10	9	0						4	4	0	186		0	178	19		18	0	228	0	0	3	0	0	0	0	3
0745 - 0800	0 0		1	0	0	0	5	0	0	202	41	12	10	0	265	0		112		6	6	_1_	156	0	0	173	26		19	0	230	0	0	1	0	0	0	0	
Hourly Total	0 0		/	3	1	2	40	0	4	750	178	36		2	1012			519		22	16	1	695		1	652	112		80	0	896	0	0	5	0	0	0	0	_ 5
0800 - 0815 0815 - 0830	0 0		0	0	1	0	18 24	0	1 0	213	24 22	6 7	6 9	0	250 253	0	1	148		5	3	3	181 150	0	0	166 185	22 32	12 14	26	1	227 254	0	0	4	0	0	0	0	4
0830 - 0845	0 0	23	0	0	0	1	26	0	4	136	15	2	7	+ +	165					6	2	1	148		0	142	34		17	0	204	0	0	4	0	0	0	0	1
0845 - 0900	0 0		1	1	0	0	54	0	0	145	17	5	12	0	179				29	6	2	0	172		0	157	26		25	0	217		0	5	0	0	0	0	5
Hourly Total	0 2	109	-	- 1	2	2	122	0		708	78	20		2	847			517		22	9	7	651		1	650	114		90	1	902	0	0	12	1	0	0	0	13
0900 - 0915	0 0		0	0	2	0	36	0	0	119	29	9	13	0	170			111		6	4	2	139		1	136	29		27	0	208	0	0	6	0	0	0	0	6
0915 - 0930	0 0	28	1	1	1	0	31	ň	0	122	30	6	21	3	182		0	96	22	2	4	ī	125	n	n	123	32	10	23	3	191	0	0	6	n	0	0	n	-6
0930 - 0945	0 0		2	1	i	0	24	ő	0	126	26	4	11	0	167	0	0	90		4	3	ò	116	ő	0	109	19		19	0	156	ő	0	1	0	o o	0	0	1
0945 - 1000	0 0		2	1	0	0	23	0	0	92	22	5	12	0	131		0	79		2	5	4	109		2	84	25		22	0	141	0	0	4	1	0	0	0	5
Hourly Total	0 0		5	3	4	0	114	0	Ö	459	107	24		3	650	0	0	376		14	16	7	489	ő	3	452	105		91	3	696	0	0	17	1	ő	0	0	18
1000 - 1015	0 0			1	2	0	18	0	0	88	29	11	9	0	137	0		81	14	3	1	0	99	0	0	78	19	8	29	0	134	0	0	2	0	0	0	0	2
1015 - 1030	0 1	17	1	1	1	0	21	0	2	118	23	7	12	1	163			82	18	2	6	- 1	109		0	91	19		26	0	140	0	0	5	0	0	0	0	5
1030 - 1045	0 0	11	4	1	0	0	16	0	0	112	17	3	11	0	143	0	0	65	9	2	5	0	81	0	0	94	14		18	0	134	0	0	1	0	0	0	0	- 1
1045 - 1100	0 0		3	1	1	0	22	0	0	93	16	12		0	137					7	6	0	112		0	109	15		18	0	147	0	0	7	0	0	0	0	7
Hourly Total	0 1	- 00		4	4	0	77	0	2	411	85	33		1						14	18	1	401		0	372	67		91	0	555	0	0	15	0	0	0	0	15
1100 - 1115	0 0		1	1	0	0	17	0	1	90	16	5		0						3	4	1	86		0	79	26		13	0	128	0	0	3	0	0	1	0	4
1115 - 1130	0 0	15	6	1	4	0	26	0	0	112	19	4	16	0	151		0	70	19	4	2	0	95	0	0	94	31		29	0	165	0	0	3	1	0	0	0	4
1130 - 1145	0 0	15	4	0	2	0	21	0	0	93	24	2	15	0	134		0	63	11	3	3	0	80	0	0	103	39		16	0	168	0	0	8	0	0	0	0	- 8
1145 - 1200	0 0		0	1	2	0		0	0	97	12	3	14	1	127		0			8	3		95	0	0	121	24		16	1	165	0	0	4	1	0	0	0	5
Hourly Total	0 0	60	11	1	8	0	82	0	0	392 77	71	14	58	1	537		1	268	56	18	12	2	356	0	0	397	120		74	1	626	0	0	18 2	2	0	1	0	21
1200 - 1215 1215 - 1230	0 0	10	2	1	- 0	0	13 23	0	0	130	27 25	2	8	0	114			77 76	17	3	2	2	94	0	0	101	30 23		11	1	147 158	0	0	9	1	0	0	0	11
1215 - 1230	0 0		4	2	2	0		0	0	120	20	4		0	164 152	0		61		7	3	0	81		0	102	20	11	15	0	158	0	0	11	1	1	0	0	13
1245 - 1300	0 0		2	0	1	0	32	0	0	92	21	2	7	0	122		0	59	10	6	2	0	77	0	1	108	24		23	0	163	0	0	4		0	0	0	4
Hourly Total	0 0		12	3	4	0	89	0	0	419	93	9	31	0	552	0		273		17	9	4	351	0	1	411	97		72	2	614	0	0	26	4	1	0	0	31
1300 - 1315	0 0			0	0	0	15	0	0	107	15	6		0						6	4	- 1	103		0	86	33		21	0	147		0	7	0	0	0	0	7
1315 - 1330	0 0	18	4		0	0		0	0	109	23	4		1	149					2	4	Ó	88		0	109	25		22	0	165	Ö	0	6	0	1	0	0	7
1330 - 1345	0 0	24	2	0	1	0	27	0	0	81	18	3	12	0	114	0	0	70	10	3	3	0	86	0	0	121	21	12	28	0	182	0	0	4	1	0	0	0	5
1345 - 1400	0 0	32	6	1	3	0	42	0	0	85	20	6	16	0	127	0	0	59	14	6	5	1	85	0	0	96	21	13	21	0	151	0	0	8	1	0	0	0	9
Hourly Total	0 0	87	14	3	4	0	108	0	0	382	76	19	62	1	540	0	0	283	44	17	16	2	362	0	0	412	100	41	92	0	645	0	0	25	2	1	0	0	28
1400 - 1415	0 0	17	3	0	0	0	20	0	0	91	22	6	12	0	131	0	0	81	19	8	3	0	111	0	0	110	26		19	0	165	0	0	12	0	0	0	0	12
1415 - 1430	0 0	15	1	2	0	0	18	0	0	76	20	8	8	0	112		0	73	15	3	5	0	96	0	0	112	30		16	0	163	0	0	6	0	0	0	0	6
1430 - 1445	0 0		0	0	0	0	14	0	0	75	20	3	10	0	108 131	0		78	13	3	2	0	96	0	0	110	30		23	0	169	0	0	7	0	0	0	0	7
1445 - 1500	0 0		1	1	0	0	29	0	0	98	20	2		0	131	0	1	94		3	3	4	114		3	113	31		21	0	176	0	0	4	1	0	0	0	5
Hourly Total	0 0	73	5	3	0	0	81	0	0	340	82	19		0	482 137	0	- 1	326	56	17	13	4	417		3	445	117		79	0	673	0	0	29	1	0	0	0	30
1500 - 1515	0 0		2	0	1	0	20	0	1	100	22	4		0			0	102		6	2	0	118	0	0	133	34		21	6	200	0	0	3	2	0	0	0	5
1515 - 1530 1530 - 1545	0 0		3	1	1	0	15	0	0	110	24 15	7 7	19	1 1	161	0		115 91		3 4	1	1	129	0	0	168 146	27		18	1	223 196	0	0	6	0	0	0	0	- 6
1530 - 1545	0 1		5	1	0	0		0	0			7	12	0							6	3	113		0	145	26 41			0		0	0	15	1	0	0	0	16
Hourly Total	0 1		10		2	0	21 78	0	2	118 427	14 75	25	15 56	2	155 587			422		2 15	11	6	141 501		2	588	128		23 86	7	216 835	0	0	35	4	0	0	0	12 39
1600 - 1615	0 0		2	1	1	1	21	0	0	123	16	23	12	0						3	2	0	139		0	156	35		21	0	218	0	0	16	0	0	1	0	17
1615 - 1630	0 0		0	2	2	0	23	0	1	137	27	5	6	1	177			133		2	5	2	161		0	215	35		15	1	270	0	0	18	1	0	0	0	19
1630 - 1645	0 0	21	3	0	0	0	24	0	1	116	24	2	16	0	159		1	124		0	2	0	149	0	0	195	30		18	0	248	0	0	12	0	0	0	0	12
1645 - 1700	0 0		ŏ	ŏ	ŏ	ŏ	27	ŏ	0	152	20	3	10				ó			2	2	0	177		0	258	21		16	0	302	0	0	6	ĭ	ĭ	ŏ	0	8
Hourly Total	0 0		5	3	3	1	95	0	2	528	87	12	44	1	674	0				7	11	2	626		0	824	121	22	70	1	1038	0	0	52	2	1	1	0	56
1700 - 1715	0 0	36	0	1	1	0	38	0	0	186	19	8	7	0	220	0		146		1	0	0	164		0	257	19		21	0	299	0	0	8	0	0	0	0	8
1715 - 1730	0 0	46	1	1	0	0	48	0	0	170	21	3	5	0	199		0	187	15	0	4	1	207		0	244	29		18	0	295	Ö	0	11	1	ő	0	0	12
1730 - 1745	0 0	45	3	4	0	0	52	0	0	187	6	3	8	0	204	0	1	165	13	0	0	0	179	0	0	238	29	5	15	0	287	0	0	15	0	0	0	0	15
1745 - 1800	0 0	37	2	2	1	0	42	0	0	188	5	4	10	0	207	0	3	168	8	3	0	4	186		0	204	28	3	10	0	245	0	0	13	1	0	0	0	14
Hourly Total	0 0	164	6	8	2	0	180	0	0	731	51	18		0	830	0			53	4	4	5	736	0	0	943	105		64	0	1126	0	0	47	2	0	0	0	49
1800 - 1815	0 0		1	0	0	0	33	0	0	217	8	2	13	0	240	0				0	0	0	159		1	214	25		21	0	263	0	0	7	0	0	0	0	7
1815 - 1830	0 1		1	0	0	0	55	0	0	164	15	4	7	2	192					0	1	2	176		0	185	8		14	0	210	0	0	3	0	0	0	0	3
1830 - 1845	0 0		1	0	1	0	36	0	1	142	9	2	9	0	163		0	115		1	2	0	128		0	135	12		14	0	164	0	0	2	0	0	0	0	2
1845 - 1900	0 0	20	2	2	0	0	24	0	0	121	8	3	7	0	139		0	133		0	1	0	139	0	0	95	8		21	0	126	0	0	3	0	0	0	0	3
Hourly Total	0 1	139	5	2	1	0	148	0	- 1	644	40	- 11	36	2	734	0	0	564	31	1	4	2	602	0	- 1	629	53	10	70	0	763	0	0	15	0	0	0	0	15
TOTAL	0 5	1062	98	44	37	5	1251	0	20	6478	1109	257	567	15	8446	0	15	5201	818	175	148	43	6400	0	12	7031	1325	395	1003	16	9782	0	0	296	19	3	2	0	320
Total OGVs (O	3V1 + OGV2)				81								824	_							323								1398								5		2550
						_														-																			

Approach: Saxon Avenue

				To M1	(South)							o A508 Nor	thampton F	load						To M1	(North)							To A45 Lo	ondon Road			
TIME	P/CYCL	E M/CYCLE		LGV	OGV1					M/CYCLE			OGV1	OGV2	BUS	TOTAL		M/CYCLE	CAR	LGV	OGV1	OGV2	BUS	TOTAL		M/CYCLI		LGV	OGV1	OGV2	BUS	TOTAL
0630 - 0645	0	0	9	1	2	0	0	12	0	0	7	1	0	0	0	8	0	0	12	2	2	0	0	16	0	0	19	1	1	1	0	22
0645 - 0700	0	0	13	3	0	0	0	16	0	0	4	0	0	0	0	4	0	0	11	0	1	- 1	0	13	0	0	15	0	2	0	0	17
Hourly Total	0	0	22	4	2	0	0	28	0	0	11	1	0	0	0	12	0	0	23	2	3	1	0	29	0	0	34	1	3	1	0	39
0700 - 0715	0	0	21	2	0	0	0	23	0	0	13	1	0	0	0	14	0	0	21	1	1	1	0	24	0	0	12	2		0	1	16
0715 - 0730	0	0	14 25	0	1 2	0	0	16 27	0	0	9	1	-1	0	0	11	0	0	11	0	0	0	0	12	0	0	21 46	2	2	0	0	24 51
0730 - 0745 0745 - 0800	0	0	30	1	1		0		0		8			0	- 0	10	0	-	12	0	0	1		13	0						1	
Hourly Total	0	0	90	4	4	2	0	34 100	0	0	38	5	2	0	_	46	0	0	54	2	2	3	0	61	0	0	31 110	9	0 4	0	2	35 126
0800 - 0815	0	0	29	3	1	1	0	34	0	0	11	1	0	0	0	12	0	0	12	0	0	0	0	12	0	1	40	1	0	- 1	0	43
0815 - 0830	0	ő	17	1	Ö	ò	0	18	0	1	6	0	0	0	1	8	0	Ö	6	ő	0	1	0	7	0	ò	37	1	0	1	Ö	39
0830 - 0845	0	0	12	0	0	0	0	12	0	0	8	0	0	0	0	8	0	0	8	1	0	1	0	10	0	0	51	2	0	1	1	55
0845 - 0900	0	0	4	0	0	0	0	4	0	0	4	1	0	0	0	5	0	0	4	1	0	2	0	7	0	0	46	0	0	0	0	46
Hourly Total	0	0	62	4	1	1	0	68	0	1	29	2	0	0	1	33	0	0	30	2	0	4	0	36	0	1	174	4	0	3	1	183
0900 - 0915	0	0	7	0	0	1	0	8	0	0	5	2	0	0	0	7	0	0	5	1	1	2	0	9	0	0	28	2	1	2	0	33
0915 - 0930	0	0	9	1	0	1	0	11	0	0	4	0	0	0	0	4	0	0	5	0	0	0	0	5	0	0	19	3	1	1	0	24
0930 - 0945	0	0	8	0	0	0	0	8	0	0	7	0	1	0	0	8	0	0	3	1	1	1	0	6	0	0	18	0	1	1	0	20
0945 - 1000	0	0	3	1	0	2	0	6	0	0	1	1	0	0	0	2	0	0	3	1	0	0	0	4	0	0	14	1	0	0	1	16
Hourly Total	0	0	27	0	0	4	0	33	0	0	17	0	0	0	0	21 4	0	0	7	0	0	0	0	24	0	0	79 11	6	3	0	0	93
1000 - 1015 1015 - 1030	0	0	4	1	0	+ 1	0	6	0	0	3	1	0	0	1	4	0	0		0	0	1	0	2	0	0	21	3	-	1	0	13 26
1030 - 1045	0	0	10	2	3	1	0	16	0	0	4	1	0	0	0	5	0	0	5	2	0	0	0	7	0	0	13	2	0	0	0	15
1045 - 1100	0	0	11	1	0	2	0	14	0	0	3	1	0	0	0	4	0	0	6	1	0	0	0	7	0	0	15	1	0	1	0	17
Hourly Total	0	0	27	4	3	5	0	39	0	0	13	3	0	0	1	17	0	0	19	3	0	1	0	23	0	0	60	7	2	2	Ō	71
1100 - 1115	0	0	6	0	1	0	0	7	0	0	2	0	0	0	0	2	0	0	5	0	0	0	0	5	0	0	23	3	- 1	1	1	29
1115 - 1130	0	0	2	3	0	5	0	10	0	0	5	1	1	0	0	7	0	0	1	4	1	2	0	8	0	0	20	5	2	2	0	29
1130 - 1145	0	0	6	1	0	2	0	9	0	0	4	1	0	0	0	5	0	0	6	1	0	1	0	8	0	0	- 11	2	0	0	0	13
1145 - 1200	0	0	4	0	1	0	0	5	0	0	2	1	0	0	0	3	0	0	_1	2	0	0	0	3	0	0	16	4	0	1	0	21
Hourly Total	0	0	18	4	2	7	0	31	0	0	13	3	1	0	0	17	0	0	13	7	1	3	0	24	0	0	70	14	3	4	1	92
1200 - 1215	0	0	3 7	1	0	1	0	5	0	0	4	1	0	0	1	6	0	0	7	1	0	1 2	0	9	0	0	29	3	1 2	2	0	35
1215 - 1230 1230 - 1245	0	0	4	0	1 0	1	0	9	0	0	3	0	0	0	0	3	0	0	3 4	0	0	0	0	4	0	0	16 20	2	2	0	0	20 24
1245 - 1300	0	0	4	- 2	1		0	7	0	0	0	0	0	0	- 0	3	0	0	4	- 0	0		0	6	0	0	17	- 2			0	21
Hourly Total		0	18	4	2	4	0	28	0	0	12	2	1	1	1	17	0	0	18	3	1	4	0	26	0	0	82	8	5	5	0	100
1300 - 1315	0	0	3	0	0	1	0	4	0	0	5	1	0	0	0	6	0	0	5	0	0	0	0	5	0	0	25	2	1	1	0	29
1315 - 1330	0	ő	3	0	0	1	0	4	0	0	3	0	ő	0	0	3	0	ő	3	Ö	0	0	0	3	0	0	27	ī	Ó	1	Ö	29
1330 - 1345	0	0	4	0	0	1	0	5	0	0	4	0	0	0	0	4	0	0	6	- 1	1	0	0	8	0	0	17	5	1	0	0	23
1345 - 1400	0	0	4	1	0	2	0	7	0	0	3	1	0	0	0	4	0	0	3	- 1	0	0	0	4	0	0	- 11	1	0	0	0	12
Hourly Total	0	0	14	1	0	5	0	20	0	0	15	2	0	0	0	17	0	0	17	2	1	0	0	20	0	0	80	9	2	2	0	93
1400 - 1415	0	0	3	2	0	0	0	5	0	0	4	1	0	0	0	5	0	0	5	1	0	1	0	7	0	0	31	5	1	0	1	38
1415 - 1430	0	0	2	0	0	1	0	3	0	0	3	0	0	0	0	3	0	0	3	0	1	1	0	5	0	0	21	1	1	0	0	23
1430 - 1445	0	0	2	2	0	1	0	5	0	0	6	0	0	0	0	4	0	0	7	1	0	0	0	6	0	0	22 19	3	2	1 2	0	28
1445 - 1500 Hourly Total	0	0	7 14	0	1	1	0	9 22	0	0	17	0	0			20	0	0	19	1	0	0	0	8 26	0	0	93	10	-	2	- 0	23 112
1500 - 1515	0	0	1 1	2	1	1	0	5	0	0	5	0	0	0	0	5	0	0	6	1	0	0	0	7	0	0	27	2	2	0	0	31
1515 - 1530	0	0	6	0	0	1	0	7	0	0	3	1	0	0	0	4	0	0	4	2	0	1	0	7	0	0	29	4	ī	1	0	35
1530 - 1545	0	0	2	2	0	i	0	5	0	0	5	1	1	0	0	7	0	0	8	ī	1	Ó	0	10	0	0	18	2	Ó	Ö	0	20
1545 - 1600	0	0	6	1	0	1	0	8	0	0	4	1	0	0	0	5	0	0	4	1	0	0	0	5	0	0	26	1	1	1	1	30
Hourly Total	0	0	15	5	1	4	0	25	0	0	17	3	1	0	0	21	0	0	22	5	1	1	0	29	0	0	100	9	4	2	1	116
1600 - 1615	0	0	8	1	0	1	0	10	0	0	10	1	0	0	0	11	0	0	12	3	1	1	0	17	0	0	35	5	1	1	2	44
1615 - 1630	0	0	2	0	0	1	0	3	0	0	5	0	0	0	0	5	0	0	6	2	0	0	0	8	0	0	29	5	2	1	1	38
1630 - 1645	0	0	9	2	0	2	0	13	0	0	6	3	0	0	0	9	0	0	9	1	0	0	0	10	0	0	17	2	0	1	0	20
1645 - 1700	0	0	10	1	0	1	0	12	0	0	7	3	0	0	0	10	0	0	8	1	1	1	0	11	0	0	33	3	-1-	0	0	37
Hourly Total	0	0	29 14	4	0	5	0	38 15	0	0	28	7	0	0	0	35	0	0	35	7	2	2	0	46 13	0	0	114	15	4	3	3	139
1700 - 1715 1715 - 1730	0	0	14	0	0	0	0	15	0	0	8	2	0	0	0	10	0	0	11	3	0	0	0	13	0	0	28	4	0	0	0	53 33
1730 - 1745	0	0	7	0	0	1	0	8	0	0	8	2	0	0	0	10	0	0	10	1	0	0	0	11	0	0	28 57	4	1	0	0	59
1745 - 1800	0	0	9	2	0	0	0	11	0	0	4	0	0	0	0	4	0	0	4	0	0	1	0	5	0	0	45	6	2	1	1	55
Hourly Total	0	0	40	2	0	2	0	44	0	0	29	5	0	0	0	34	0	0	36	5	0	2	0	43	0	0	177	15	4	2	2	200
1800 - 1815	0	0	8	0	0	0	0	8	0	0	5	1	0	0	0	6	0	Ö	6	0	0	0	0	6	0	1	58	4	0	ī	0	64
1815 - 1830	0	0	5	1	0	1	0	7	0	0	5	0	0	0	0	5	0	0	5	0	0	1	0	6	0	0	37	0	4	_1_	1	43
1830 - 1845	0	0	8	0	1	0	0	9	0	0	1	0	0	0	0	- 1	0	0	4	1	0	0	0	5	0	0	28	1	2	1	0	32
1845 - 1900	0	0	7	0	0	0	0	7	0	0	5	0	0	0	0	5	0	0	4	0	0	1	0	5	0	0	24	1	0	2	0	27
Hourly Total	0	0	28	1	1	1	0	31	0	0	16	1	0	0	0	17	0	0	19	- 1	0	2	0	22	0	- 1	147	6	6	5	1	166
TOTAL	0	0	404	42	17	42	0	507	0	1	255	20	-	2	5	307	0	0	221	AE	14	20		400	0		1220	112	AE	27	12	1530
TOTAL	U	0	404	43	17	43	0	507	0		255	38	6	2	5	307	U	0	321	45	14	29	0	409	0	2	1320	113	45	37	13	1530
Total OGVs (C	GV1 + C	GV2)				60								8								43								82		193

Approach: M1 (South)

Approacn:		idili)																														
				A508 Nort									(North)								ondon Road								n Avenue			
TIME 0630 - 0645	P/CYCL 0	E M/CYCLE	CAR	LGV 2	OGV1	OGV2	BUS	TOTAL 4	P/CYCLE 0	M/CYCLE 0	CAR	LGV	OGV1	OGV2	BUS	TOTAL	P/CYCLE 0	M/CYCLE 0	CAR 56	LGV 13	OGV1	OGV2	BUS	TOTAL	P/CYCLE 0	M/CYCLE 0	CAR 2	LGV	OGV1	OGV2	BUS 0	TOTAL 3
0630 - 0645	0	0	3	3	1	0	0	7	0	0	0	0	0	0	0	0	0	0	70	20	7	16	0	77 113	0	0	3	2	0	2	0	7
Hourly Total	0	0	4	5	- 1	1	0	11	0	0	0	0	0	0	0	0	0	0	126	33	9	22	0	190	0	0	5	3	0	2	0	10
0700 - 0715	0	0	2	3	0	1	0	6	0	0	0	0	0	0	0	0	0	0	99	25	5	11	0	140	0	0	2	0	0	2	0	4
0715 - 0730	0	0	2	0	0	0	0	2	0	0	0	0	0	0	0	0	0	1	110	24	10	17	0	162	0	0	4	0	0	1	0	5
0730 - 0745 0745 - 0800	0	0	4	2	1	2	0	9	0	0	0	0	0	0	0	0	0	0	178	21 32	5 10	17	1	222 240	0	0	4 11	0	0		0	5 14
Hourly Total	0	0	12	6	2	3	0	23	0	0	1	0	0	0	0	1	0	2	571	102	30	58	1	764	0	0	21	2	0	5	0	28
0800 - 0815	0	0	2	- 1	0	0	0	3	0	0	0	0	0	0	0	0	0	2	193	29	4	9	0	237	0	0	12	0	0	1	0	13
0815 - 0830	0	0	8	0	2	1	0	11	0	0	0	0	0	0	0	0	0	0	179	20	5	5	0	209	0	0	7	2	0	0	0	9
0830 - 0845 0845 - 0900	0	0	6	2	0	0	0	5 8	0	0	0	0	0	0	0	0	0	0	174 163	28 18	3	5 10	2	209 196	0	0	13	1 2	0	0	0	14 16
Hourly Total	0	0	20	4	2	1	0	27	0	0	0	0	0	0	0	0	0	2	709	95	14	29	2	851	0	0	45	5	-	1	0	52
0900 - 0915	0	0	3	1	0	0	0	4	0	0	0	0	0	0	0	0	0	0	108	19	9	11	1	148	0	0	7	0	0	0	0	7
0915 - 0930	0	0	1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	138	17	8	18	0	181	0	0	9	1	0	0	0	10
0930 - 0945	0	0	3	1 2	0	0	0	4	0	0	0	0	0	0	0	0	0	0	105	22	11	13	0	151	0	0	4	2	0	0	0	6
0945 - 1000 Hourly Total	0	0	9	4	0	0	0	13	0	0	0	0	0	0	0	0	0	0	105 456	16 74	30	50	1 2	132 612	0	0	25	5	0	2	0	9 32
1000 - 1015	0	0	7	1	1	0	0	9	0	0	0	0	0	0	0	o	0	0	81	21	4	10	0	116	0	0	6	1	0	0	0	7
1015 - 1030	0	0	3	0	0	2	0	5	0	0	0	- 1	0	0	0	- 1	0	0	72	18	8	9	0	107	0	0	3	1	0	- 1	1	6
1030 - 1045	0	0	3	2	0	0	0	5	0	0	0	0	0	0	0	0	0	0	81	13	1	18	0	113	0	0	4	0	0	0	0	4
1045 - 1100 Hourly Total	0	0	5 18	0	0	0	0	5 24	0	0	1	0	0	0	0	1 2	0	0	80 314	24 76	3 16	22 59	2	131 467	0	0	6 19	2	0	1 2	0	7 24
1100 - 1115	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	43	19	16 5	9	0	76	0	0	19	1	2	2	0	6
1115 - 1130	0	0	1	2	0	2	1	6	0	0	0	0	0	0	0	0	0	0	68	31	7	12	0	118	0	0	3	3	1	0	0	7
1130 - 1145	0	0	4	1	0	0	0	5	0	0	0	0	1	0	0	1	0	0	82	25	6	13	2	128	0	0	6	2	0	1	0	9
1145 - 1200	0	0	5	0	0	1	0	6	0	0	0	0	0	0	0	0	0	0	79	33	9	12	0	133	0	0	6	0	0	1	0	7
1200 - 1215	0	0	13 3	0	0	3	0	20 4	0	0	0	0	0	0	0	1	0	0	272 74	108 23	27	46	0	455 122	0	0	16 4	0	0	4	0	29 5
1215 - 1230	0	0	5	2	0	0	0	7	0	0	0	0	0	0	0	0	0	0	77	32	4	20	0	133	0	0	5	1	0	0	0	6
1230 - 1245	0	0	5	0	0	1	0	6	0	0	0	0	0	0	0	0	0	0	108	21	9	15	0	153	0	0	4	0	0	0	0	4
1245 - 1300	0	0	4	1	0	0	0	5	0	0	1	0	0	0	0	1	0	0	85	21	9	15	0	130	0	0	3	1	0	0	0	4
1300 - 1315	0	0	17 3	3	0	0	0	22	0	0	0	0	0	0	0	0	0	0	103	97 32	31 11	66 18	0	538 164	0	0	16	2	0	-1	0	19 7
1315 - 1330	0	0	3	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	102	26	9	14	0	151	0	0	3	0	0		0	4
1330 - 1345	0	0	3	1	- 1	0	0	5	0	0	0	0	- 1	0	0	1	0	0	85	24	6	12	0	127	0	0	7	2	0	0	0	9
1345 - 1400	0	0	4	0	0	1	0	5	0	0	2	0	0	0	0	2	0	0	100	33	9	10	0	152	0	0	5	2	- 1	1	0	9
Hourly Total	0	0	13	2	0	2	0	17 6	0	0	0	0	0	0	0	3	0	0	390 134	115 38	35 9	54 22	0	594	0	0	20	5	0	3	0	29 12
1400 - 1415	0	0	4	0	1	0	0	5	0	0	0	0	0	0	0	0	0	0	101	26	6	15	0	203 148	0	0	10	0	1	0	0	12
1430 - 1445	0	0	3	0	0	2	0	5	0	0	0	0	0	0	0	0	0	0	122	30	4	17	1	174	0	0	6	1	2	0	0	9
1445 - 1500	0	0	5	- 1	0	0	0	6	0	0	0	- 1	0	0	0	1	0	0	124	30	10	19	0	183	0	0	6	0	1	3	0	10
1500 - 1515	0	0	7	3	0	4	0	22 9	0	0	0	0	0	0	0	1 0	0	0	481 133	124 37	29 12	73	2	708 203	0	0	33 12	2	2	0	0	43 16
1515 - 1530	0	0	7	1	0	0	0	8	0	0	0	0	0	0	0	0	0	0	156	41	12	19	0	203	0	0	6	2	2	- 0	0	11
1530 - 1545	0	0	3	1	1	0	0	5	0	0	0	0	0	0	0	0	0	0	139	40	4	9	0	192	0	0	13	2	0	1	0	16
1545 - 1600	0	0	4	2	0	0	0	6	0	0	0	1	0	0	0	- 1	0	0	120	46	7	18	0	191	0	0	6	3	- 1	- 1	0	- 11
Hourly Total	0	0	21	5	1	1	0	28	0	0	0	1	0	0	0	1	0	0	548	164	35	60	2	809	0	0	37	8	5	3	1	54
1600 - 1615 1615 - 1630	0	0	11	2	0	0	0	13	0	0	0	0	0	0	0	0	0	0	147 164	46 48	6	18	0	217	0	0	12	2	0	2	0	14 16
1630 - 1645	0	0	5	0	1	1	0	7	0	0	0	0	0	0	0	0	0	1	184	45	4	5	2	241	0	0	17	2	0	1	0	20
1645 - 1700	0	ő	7	3	0	Ö	0	10	0	0	1	0	0	0	ő	1	0	Ö	171	46	5	19	0	241	0	0	12	3	0	2	ő	17
Hourly Total	0	0	27	5	1	1	0	34	0	0	1	0	0	0	0	1	0	1	666	185	21	55	2	930	0	0	52	10	0	5	0	67
1700 - 1715	0	0	7	1	0	0	0	8	0	0	0	0	0	0	0	0	0	1	167	36	5	6	1	216	0	0	11	1	0	0	1	13
1715 - 1730 1730 - 1745	0	0	4 8	3	0	0	0	7	0	0	0	0	0	0	0	0	0	0	196 190	32	3	14	1 0	246 234	0	0	20	0	0	1 1	0	21 28
1745 - 1800	0	0	12	0	0	0	0	12	0	0	0	0	0	0	0	0	0	1	195	26	5	5	1	233	0	1	16	2	1	0	0	20
Hourly Total	0	0	31	4	0	0	0	35	0	0	0	0	0	0	0	0	0	2	748	125	21	30	3	929	0	- 1	71	6	1	2	1	82
1800 - 1815	0	0	9	1	0	0	0	10	0	0	0	0	0	0	0	0	0	2	233	38	6	17	0	296	0	0	20	2	0	1	0	23
1815 - 1830 1830 - 1845	0	0	8 7	2	0	0	0	10	0	0	0	0	0	0	0	0	0	1 0	199	17 20	4	11	0	233 265	0	0	15 28	0	0	1	0	17 29
1845 - 1900	0	0	6	2	0	0	0	8	0	0	0	0	0	0	0	0	0	0	185	27	6	10	2	230	0	0	20	1	0	Ö	0	21
Hourly Total	Ö	Ö	30	5	0	1	ő	36	Ö	Ö	ő	Ö	0	0	ő	Ö	ő	3	846	102	17	53	3	1024	Ö	0	83	4	0	3	Ö	90
70711	_	_						0.40	_	_			_		_			- 40	0.171	4 407	0.45	0.00		0074	_	_	***			0.77		
TOTAL	0	0	229	52	10	20	1	312	0	0	7	4	2	0	0	13	0	10	6471	1400	315	655	20	8871	0	1	443	60	15	37	3	559
Total OGVs (O	GV1 + C	GV2)				30	_							2								970								52		1054

Approach: A508 Northampton Road

See	Аррговоп.		-		T 14	(1)							T 4451								T 0								T 14	(0 4)			
Seguent Park 1	TIME	DICYCLE	IMOVOL	CAD			00010	DUC	TOTAL	D/CVCI F	I MICYCLE	CAD				DUIC	TOTAL	DICYCLE	MOVOLE	CAD			001/0	DUIC	TOTAL	D/CVCI E	MICYCLE	CAD			0000	DUIC	TOTAL
969-1969-1969-1969-1969-1969-1969-1969-																									1 1								
			1			0					0			1	1				0	1					2		0						
999-1916 0 0 99 7 1 1 3 9 0 4 9 7 1 1 3 9 0 4 9 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0	1			1	5	1			0		9	1	1				0	2	1		0		3		0			2	0		
01-01-02 0	0700 - 0715	0	0			1	2	0		0	0		8	3	2	0		0	0	2	0	0	0	0	2	0	0			1	1	1	
900-100-100-100-100-100-100-100-100-100-		0	0		9	2	2	0		0	0	85	16	1	1	0	103	0	0	3	0	0	0	0	3	0	0	35	3	1	0	0	
See		0	0		9	3	5	1		0	0	117		1	0	1		0	0	3	0	0	0	0	3	0	0	26	3	0	0	0	
980-980-980-980-980-980-980-980-980-980-		0	0		8	1	3	0		0	0			1	1				0		1		0	0	8					2	0	0	46
081-082 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Hourly Total	0	0		33	7	12	1		0	0	343	48	6	4	3		0	0	15	- 1	0	0	0	16	0	0	147	21	4	1	1	
982-985 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							8							2	3				0	7					7					1	0		
086-090-0 0 0 17 0 0 0 18 0 0 0 18 0 0 0 0 18 0 0 0 0 18 0 0 0 18 0 0 0 0		0	0								0			1	3	0			0	5	0				5						- 1		
Seeth Fine Green		0	0								0			2	1	3			0	8	1				9						0		
090-0900 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		0	0					1		0	0			3	2	0			0		0	- 1	0	0		0	0			- 1	- 1		
091-090-090-090-090-090-090-090-090-090-		0	0					2		0	0			8	9	3			0		1	1	0	0		0	0			2	2		
980-980-980-980-980-980-980-980-980-980-							- 6								1								•							1			
086-1000 0 0 13 3 4 4 0 33 0 0 0 0 15 1 1 1 1 1 1 1 1							3				U				3				0				0		-		- 0				_		25
New Front Col. 1986 Col. 20 Set Col. 20 Col.			0		10						0			2	2	0			0		1				5			6		2	0		
1001-1015 0 0 177 10 1 4 0 0 32 0 0 69 8 2 3 0 87 10 1 4 0 0 0 15 10 10 10 10			0		3						0			3	1	1			0		1				5			8		- 1			
1951-1950 0 0 0 22 13 2 4 0 0 41 0 0 0 57 11 1 5 0 75 0 0 0 3 1 0 0 0 0 3 2 1 2 0 0 1 1951-1950 0 0 0 0 0 0 0 0 0																															- 1		
1900 1906 0 0 20 20 4 3 3 0 0 35 0 0 0 66 16 1 2 0 85 0 0 0 4 0 0 0 12 3 0 0 0 0 15 1900 1906 190 0 0 0 13 14 0 0 13 14 0 0 15 1900 1900 1900 1900 1900 1900 190 190 19														1	5				0		1		0							-	2		
105-1100 0 0 0 19 77 3 8 6 0 78 19 77 0 138 0 0 0 56 77 1 1 4 0 0 68 0 0 0 4 1 0 0 0 0 13 4 0 0 1 1 18 0 0 1 1 18 1 10 1 1 1 1 1 1														1	2				0		0		0							0	0		
Neutritical O		0	0		7		6			0	0		7	1	4				0		0		0		4		0			0	1		
1100-1115 0		Ö	o o		34		17			ŏ	o o		42	5	14				Ö		ĭ		Ö		18		Ö			2	4		56
1115-1120 0 0 1 16 7 3 3 3 0 0 29 0 0 0 53 10 5 1 0 0 0 2 1 1 0 0 0 3 6 0 0 0 9 3 1 1 0 0 0 13 100-1151 100-1165 0 0 0 1 14 0 0 0 0 0 0 0 0 0 0 0 0 0 0							5												0					1	5					1			
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NewfyTotal 0		0	0		5	3	7	0		0	0	50	9	5	4	0	68	0	0	4	1	0	0	0	5	0	0	9	1	0	2	0	
1900-1915 0 0 15 77 5 3 0 0 30 0 0 0 66 12 4 4 4 0 85 0 0 0 3 0 0 0 0 5 2 2 2 2 0 0 15 15 15 15 15 15		0	0	29	6	4	4	0		0	0	72	9	2	2	0		0	0	6	0	0	0	0	6	0	0	5	2	1	0	0	
1900-1915 0 0 15 77 5 3 0 0 30 0 0 0 66 12 4 4 4 0 85 0 0 0 3 0 0 0 0 5 2 2 2 2 0 0 15 15 15 15 15 15	Hourly Total	0	0	79	28	12	19	0	138	0	0	241	45	15	9	- 1	311	0	0	14	3	- 1	0	4	22	0	0	31	10	3	2	0	46
1329-1345 0 0 0 22 10 2 2 0 35 0 0 0 65 17 4 2 0 88 0 0 4 0 0 0 0 4 0 0		0	0	15	7	5	3	0		0	0	65	12	4	4	0	85	0	0	3	0	0	0	0		0	0	9	2	2	2	0	
1265-1390 O			0		7									3					0						5					1	1		
		0	0			2	2	0		0	0			4	2	0			0		0		0		4	0	0	8	2	0	0		
1390-1315 0		0	0			3	7	0		0	0			7	3	0			0		0		0		4	0	0	5	1	0	- 1		
1315-1330 0 0 0 24 110 0 7 7 0 41 0 0 0 53 9 3 3 3 0 68 0 0 0 2 2 0 0 0 0 4 4 0 0 0 0 0 8 1330-1345 1030-1																															4		
1393-13496 0 0 0 16 6 0 0 28 0 0 0 51 8 3 2 2 0 64 0 0 0 51 8 3 2 2 0 64 0 0 0 0 0 0 0 0 0 0 0 0 0 0 7 4 0 0 2 0 13 1345-1400 0 0 29 5 1 9 1 45 0 0 0 81 133 4 1 2 2 101 0 0 0 5 1 1 0 0 0 0 0 6 4 1 1 2 0 13 1345-1400 0 0 0 89 28 5 24 1 1 153 0 0 0 247 44 12 7 2 312 0 0 0 16 2 0 0 0 2 2 20 0 0 0 26 16 1 2 2 0 0 13 1345-1400 0 0 0 39 9 1 3 7 1 0 49 0 1 0 6 1 6 1 2 2 2 2 7 7 0 1 2 2 2 0 0 0 0 26 16 1 1 5 0 0 44 1459-1445 0 0 0 0 27 7 2 2 4 1 1 41 0 0 0 63 14 4 2 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							2								1																1		
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1445-1500 0 0 0 27 77 2 4 4 1 41 0 0 0 63 14 4 2 0 83 0 0 3 0 0 1 1 0 0 0 4 0 0 12 3 1 1 1 0 0 17 0 19 19 19 13 27 2 181 0 1 288 62 12 16 2 381 0 0 0 18 1 1 0 0 0 20 0 0 4 13 3 3 4 0 64 1500-1515 0 0 23 77 1 8 1 1 40 0 0 1 61 17 1 2 0 82 0 0 0 5 1 0 0 0 0 0 0 0 0 0 15 5 0 0 0 0		0	0				8			0	0			5	7				0		1		0		5		n			0	2		
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1500-151515 0 0 0 23 77 1 8 1 1 40 0 1 1 61 17 1 2 0 82 0 0 5 5 1 1 0 0 0 0 6 0 0 15 5 0 0 0 0 20 1515151550 0 0 29 166 3 5 0 53 0 2 2 85 11 1 2 2 2 2 104 0 0 0 5 0 1 1 0 0 0 6 0 0 15 5 0 0 0 0 0 20 1515151550 0 0 29 166 3 5 0 53 0 2 2 85 11 2 2 2 2 104 0 0 0 5 0 1 1 0 0 0 6 0 0 15 5 0 0 0 0 0 0 15 15 15 0 0 0 15 15 15 0 0 0 1 15 15 15 15 15 0 0 0 1 1 1 1		0	0		39	13	27	2		0	1			12	16	2		0	0	18	1	1	0	0	20	0	0		13	3	4	0	
1515-1530 0 0 0 29 16 3 5 0 53 0 2 85 11 2 2 2 104 0 0 0 5 0 1 1 0 0 0 6 0 0 6 4 1 1 2 0 13 1530-1545 0 0 0 39 10 4 6 0 0 59 0 0 0 101 21 6 5 5 5 138 0 0 0 17 4 1 1 0 2 0 18 1545-1500 0 0 26 8 2 6 0 42 0 0 90 12 1 2 1 2 1 106 0 0 5 0 0 0 1 1 1 0 0 0 6 1545-1500 0 0 26 8 2 6 0 42 0 0 90 12 1 1 2 1 106 0 0 0 5 0 0 0 0 0 7 8 0 0 0 0 0 15 1545-1500 0 0 39 10 4 6 0 0 5 1 1 1 1 0 2 1 106 1 0 1 1 1 0 1 1 1 0 1 1 1 1 1 1 1		0	0					1		0	1					0		0	0		1	0	0	0			0			0	0	0	20
1530-1545-6 0 0 0 39 10 4 6 0 0 59 0 0 0 101 21 6 5 5 5 138 0 0 111 1 1 0 0 0 1 1 13 0 0 18 4 2 1 1 1 26 1545-1500 0 0 26 8 8 2 6 0 42 0 0 90 12 1 2 1 1 18 1 0 1545-1500 0 0 0 5 0 0 0 0 0 5 0 0 0 0 0 5 0 0 0 0 15 1 13 1 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			0			3	5	0			2			2					0		0		0		6					1			
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1615-1650 0 0 38 12 2 2 2 0 54 0 0 0 96 24 0 3 3 126 0 0 8 2 0 0 0 10 0 0 11 2 0 0 0 0 13 3 136 136 14 1 1 75 0 0 0 108 22 1 1 1 0 132 0 0 0 8 2 2 0 0 0 0 10 0 0 11 2 0 0 0 0 13 165 170 1 0 0 1 1 1 2 0 0 0 1 1 1 2 0 0 0 1 1 1 2 0 0 0 1 1 1 2 0 0 0 1 1 1 1			0				25	- 1			3			10	11		430		0		2		0	- 1	30		0				3		
1850-18465 0 0 0 64 5 1 4 1 75 0 0 108 22 1 1 1 0 132 0 0 9 1 1 0 0 0 0 10 0 0 26 4 2 0 0 32 14 1 0 1 102 118 1 3 1 1 2 1 1 1 0 1 102 118 1 1 3 1 1 1 0 1 1 1 0 1 1 1 1 1 1 1 1 1			0				5	1			0			3	0				0		0		0	1	7		0				0		
1645-1700 0 0 0 28 7 1 4 0 0 40 0 1 100 18 1 3 1 128 0 0 8 11 0 0 0 0 9 0 0 14 3 3 0 1 1 0 18 1 0 0 1 1 100 18 1 0 0 1 1 100 11 1 0 0 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0 0 0 0 0 0 0 1 1 0 0 0 0 0 0 1 1 0								0						0	3																		
Houry Total 0					5			1						1	1																0		
1700-1715 0 0 0 58					7									1																	1		
1715-1730 0 0 0 36 11 2 4 0 53 0 0 120 18 3 0 1 142 0 0 14 0 0 0 0 14 0 0 0 21 4 0 0 0 25 1730-1745 0 0 0 52 2 1 2 0 57 0 0 0 103 21 0 0 0 0 144 0 0 0 14 2 0 0 0 14 0 0 0 15 1730-1745 0 0 52 2 1 2 0 57 0 0 0 103 21 0 0 0 0 15 1745-1800 0 0 46 6 1 2 0 0 55 0 1 1 20 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1											1			5	7				0	31					36						- !		
1739-1746 0 0 0 52 2 1 2 0 57 0 0 103 21 0 0 0 124 0 0 0 14 2 2 0 0 0 0 13 3 0 0 0 0 15 1745-1800 0 0 46 6 1 2 0 55 0 1 1 268 20 2 1 1 1 51 0 0 0 14 2 2 0 0 0 0 13 0 0 0 7 2 0 1 1 0 10 1745-1800 0 0 46 6 1 2 2 0 0 55 0 1 1 268 20 2 1 1 1 51 0 0 0 11 2 0 0 0 0 13 0 0 0 7 2 0 1 1 0 10 10 1745-1800 0 0 46 6 1 2 2 0 0 2 0 46 0 0 1 2 28 0 1 0 47 0 0 1 1 1 1 1 0 1 0 1 1 1 1 1 1 1 1 1											0			1	2				0	7					8						1		23
1745-1800 0 0 46 6 1 2 0 55 0 1 126 20 2 1 1 151 0 0 11 2 0 0 0 13 0 0 7 2 0 1 0 10					- 11		4								0						-										0		
Houry Total O 1 1490 394 99 228 10 2222 O 9 4153 654 113 103 37 5069 O O 287 26 4 O 19 327 O O 687 181 31 29 4 932 104 O 140 O 140 O 140 O 140 O 140 O 140 O O 140 O O O O O O O O O	1745 1900				2		2								1																1		
1800-1815 0 0 0 42 2 0 0 2 0 46 0 2 105 16 2 1 0 126 0 0 7 1 1 0 0 0 0 8 0 0 9 2 0 0 0 0 11 1815 1830 0 0 37 6 2 2 0 47 0 0 0 151 11 1 1 1 1 1 15 185 0 0 0 11 1 0 0 0 0 12 0 0 9 1 1 0 0 0 0 180 1830 1845 0 0 0 34 3 0 0 0 0 37 0 1 129 13 1 0 0 0 144 0 0 133 0 0 0 0 13 0 0 155 2 1 0 0 0 18 1845 1930 0 0 34 2 1 1 1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1											-				2	_												-			2		
1815-1830 0 0 37 6 2 2 0 47 0 0 151 11 1 1 1 1 185 0 0 11 1 1 0 0 0 0 12 0 0 9 1 0 0 0 10 18 1830-1845 0 0 34 3 0 0 0 37 0 1 129 13 1 0 0 0 144 0 0 13 0 0 0 0 13 0 0 15 2 1 0 0 0 9 1 1 0 0 0 18 185-1850 0 0 29 4 2 1 0 36 0 0 125 6 1 0 2 2134 0 0 8 0 0 0 0 0 13 0 0 0 0 13 0 0 15 2 1 0 0 0 15 18 185-1850 0 0 142 15 4 5 0 166 0 3 510 46 5 2 3 599 0 0 8 0 0 0 0 0 8 0 0 0 11 1 0 0 0 44 6 1 0 0 0 51 18 185-1850 0 0 1 1 1490 394 99 228 10 222 0 9 4153 654 113 103 37 5069 0 0 287 26 4 0 10 327 0 0 687 181 31 29 4 932											2				1																		
1830-18465 0 0 0 34		0	0				2				0			1	1	1			0		1		0				0		1		0		
1845-1900 0 0 29 4 2 1 0 36 0 0 125 6 1 0 2 2 134 0 0 8 0 0 125 6 1 0 2 2 134 0 0 8 0 0 0 0 0 8 0 0 0 11 1 0 0 0 0 12 1 1 0 0 0 0 12 1 1 0 0 0 0		0	0				0				1			1	Ó	0			0		0		0				0		2	1	0		
Houriy Total 0 0 1 142 15 4 5 0 166 0 3 510 46 5 2 3 569 0 0 39 2 0 0 0 41 0 0 44 6 1 0 0 51 TOTAL 0 1 1490 394 99 228 10 2222 0 9 4153 654 113 103 37 5069 0 0 267 26 4 0 10 327 0 0 687 181 31 29 4 932			0				1				0			1	0				0				0		8		0			0			12
TOTAL 0 1 1490 394 99 228 10 2222 0 9 4153 654 113 103 37 5069 0 0 267 26 4 0 10 327 0 0 667 181 31 29 4 932		0	0				5		166		3	510		5	2	3	569		0				0		41		ő		6		0		51
				•	•					•				•											•								
Total OGVs (OGV1 + OGV2) 327 216 4 60 607	TOTAL	0	1	1490	394	99	228	10	2222	0	9	4153	654	113	103	37	5069	0	0	287	26	4	0	10	327	0	0	687	181	31	29	4	932
	Total OGVs (O	GV1 + 0G	iV2)				327								216								4								60		607

Approach: M1 (North)

Approacn: M1 (North)																														
			ndon Road	i						To Saxor	n Avenue								(South)							A508 North	ampton Roa	ad		\neg
TIME P/CYCLE M/CY			OGV1	OGV2			P/CYCLE		CAR	LGV	OGV1		BUS	TOTAL		M/CYCLE		LGV	OGV1	OGV2	BUS	TOTAL		M/CYCL		LGV		OGV2		OTAL
0630 - 0645 0 1 0645 - 0700 0 0) 71		8 8	18	0	115 118	0	0	1 3	0	0	3	0	5	0	0	0	0	0	0	0	0	0	0	24	14	2	10		34 55
Hourly Total 0 1	13		16	36	0	233	0	0	4	1	0	4	0	9	0	0	0	0	0	0	0	0	0	1	53	18	3	14		89
0700 - 0715 0 1			5	22	0	157	0	0	2	1	0	3	0	6	0	0	0	0	0	0	0	0	0	0	34	14	3	6		57
0715 - 0730 0 0			12	23	0	242	0	0	3	2	1	1	0	7	0	0	0	0	0	0	0	0	0	0	57	12	4	7		80
0730 - 0745 0 0	21	4 36	8	17	0	275	0	0	7	0	0	2	0	9	0	0	0	0	0	0	0	0	0	1	60	15	2	3		81
0745 - 0800 0 0			6	25	1	315	0	0	13	2	0	1	0	16	0	0	1	0	0	0	0	1	0	0	51	18	0	2		71
Hourly Total 0 1	73		31	87	1	989	0	0	25	5	1	7	0	38	0	0	1	0	0	0	0	1	0	1	202	59	9	18	0	289
0800 - 0815 1 0 0815 - 0830 0 1			7	18 17	0	294 311	0	0	11 24	0	0	2	0	13 27	0	0	0	0	0	0	0	0	0	0	48 65	15 12	2	3	0	68 80
0830 - 0845 0 0			6	18	1	253	0	0	29	1	0	-	0	31	0	0	0	0	0	0	0	0	0	0	51	9	5	4	1	70
0845 - 0900 0 1			6	14	1	238	0	0	47	2	1	Ó	0	50	0	0	0	1	0	0	0	1	0	0	51	15	4	6	0	76
Hourly Total 1 2			23	67	2	1096	0	0	111	5	1	4	0	121	0	0	0	- 1	0	0	0	1	0	0	215	51	13	14		294
0900 - 0915 0 0	17	1 29	9	21	0	230	0	0	36	0	0	0	0	36	0	0	0	0	0	0	0	0	0	0	45	9	4	6		64
0915 - 0930 0 0			6	22	0	212	0	0	12	1	0	0	0	13	0	0	0	0	0	0	0	0	0	0	30	12	3	11	0	56
0930 - 0945 0 0			9	18	0	233	0	0	15	3	0	1	0	19	0	0	0	0	0	0	0	0	0	0	29	9	4	4	0	46
0945 - 1000 0 0 Hourly Total 0 0			7 31	20 81	1	178 853	0	0	5 68	6	- 1	0	0	- 8 76	0	0	0	0	0	0	0	0	0	0	26 130	9 39	13	22		38 204
Hourly Total 0 0 1000 - 1015 0 0			7	10	0	122	0	0	12	1	0	2	0	15	0	0	0	0	0	0	0	0	0	0	26	39 4	4	6		40
1015 - 1030 0 0			12	26	0	161	0	0	8	2	0	1	0	11	0	0	0	0	0	0	0	0	0	0	16	13	5	5	0	39
1030 - 1045 0 0			12	24	0	151	0	0	5	2	2	Ó	0	9	0	0	0	0	0	0	0	0	0	0	20	7	2	5	0	34
1045 - 1100 0 0		15	9	30	0	124	0	0	- 6	0	0	1	0	7	0	0	0	0	0	0	0	0	0	0	11	10	1	10	0	32
Hourly Total 0 0			40	90	0	558	0	0	31	5	2	4	0	42	0	0	0	0	0	0	0	0	0	0	73	34	12	26		145
1100 - 1115 0 0 1115 - 1130 0 0			13	30 24	0	161	0	0	6	2	1	0 2	0	9 10	0	0	1	0	0	0	0	1 0	0	0	17 24	5 6	2	2		24
1115 - 1130 0 0 1130 - 1145 0 0			14	33	0	143 144	0	0	7	3	2	0	0	10	0	0	0	0	0	0	0	0	0	0	30	9	4	5	0	35 48
1145 - 1200 0 0			12	27	0	129	0	0	7	0	0	0	0	7	0	0	0	0	0	0	0	0	0	0	16	5	3	7		31
Hourly Total 0 0			49	114	0	577	0	0	24	8	4	2	0	38	0	0	1	0	0	0	0	1	0	0	87	25	9	17		138
1200 - 1215 0 1			6	19	0	131	0	0	7	1	0	0	0	8	0	0	Ö	0	0	0	0	0	0	0	20	5	0	6		31
1215 - 1230 0 0			6	12	0	118	0	0	9	0	0	1	0	10	0	0	0	0	0	0	0	0	0	0	12	5	6	9		32
1230 - 1245 0 0			14	19	0	136	0	0	8	1	0	0	0	9	0	0	0	0	0	0	0	0	0	0	17	7	3	5		32
1245 - 1300 0 0 Hourly Total 0 1			31	25 75	0	112 497	0	0	31	3	0	0	0	8 35	0	0	0	1	0	0	0	1	0	0	19 68	20	3 12	9 29	0	34 129
Hourly Total 0 1 1300 - 1315 0 0			11	25	1	138	0	0	11	2	0	2	0	15	0	0	0	0	0	0	0	0	0	0	22	20	3	10		37
1315 - 1330 0 1	88		4	25	0	141	0	0	10	0	0	ī	ő	11	0	0	0	0	0	0	0	0	0	0	17	6	3	5	Ö	31
1330 - 1345 0 0			10	23	0	145	0	0	5	1	0	0	0	6	0	0	0	0	0	0	0	0	0	0	17	3	0	4	0	24
1345 - 1400 0 0			13	18	0	151	0	0	16	1	1	2	0	20	0	0	0	0	0	0	0	0	0	0	21	6	4	2	0	33
Hourly Total 0 1			38	91	1	575	0	0	42	4	1	5	0	52	0	0	0	0	0	0	0	0	0	0	77	17	10	21		125
1400 - 1415 0 0 1415 - 1430 0 0			7 8	18	0	143	0	0	11 9	3	0	1	0	15 11	0	0	0	0	0	0	0	0	0	0	18	6	2	7 9		32
1415 - 1430 0 0 1430 - 1445 0 0			13	19 27	0	142 181	0	0	9	1		1	0	11	0	0	0	0	0	0	0	0	0	0	23	4	1	2		31 29
1445 - 1500 0 0			9	21	0	141	0	0	6	ó	-	3	0	10	0	0	0	0	0	0	0	0	0	0	36	9	1	9	Ö	55
Hourly Total 0 0			37	85	0	607	0	0	35	4	3	5	0	47	0	0	1	0	0	0	0	1	0	0	93	22	5	27		147
1500 - 1515 0 0			18	31	1	196	0	0	9	1	0	0	0	10	0	0	0	0	0	0	0	0	0	0	26	7	2	3	0	38
1515 - 1530 0 0	95		10	18	0	152	0	0	12	0	2	3	0	17	0	0	0	0	0	0	0	0	0	0	24	4	5	1	0	34
1530 - 1545 0 0			13	24	0	191	0	0	13	1	0	3	1	18	0	0	0	0	0	0	0	0	0	0	22	4	2	2	1	31
1545 - 1600 0 1 Hourly Total 0 1	12		12 53	21 94	0	182 721	0	0	21 55	2	3	6	0	22 67	0	0	0	0	0	0	0	0	0	0	25 97	10 25	6 15	7	1	42 145
1600 - 1615 0 0			7	20	0	183	0	0	10	0	0	0	0	10	0	0	0	0	0	0	0	0	0	0	31	6	4	4	0	45
1615 - 1630 0 0			8	24	1	225	0	0	20	4	0	4	ō	28	0	0	0	0	0	0	0	0	0	0	36	6	2	2	0	46
1630 - 1645 0 2	13	7 39	8	19	4	209	0	0	14	1	0	4	0	19	0	0	0	0	0	1	0	1	0	0	41	9	3	3		56
1645 - 1700 0 0			12	23	0	225	0	0	20	2	0	2	0	24	0	0	0	0	0	0	0	0	0	0	40	6	2	2	0	50
Hourly Total 0 2			35	86	5	842	0	0	64	7	0	10	0	81	0	0	0	0	0	1	0	1	0	0	148	27	11	11	0	197
1700 - 1715 0 2 1715 - 1730 0 1			11	18 19	0	262 254	0	2	22 19	0		2	0	26 24	0	0	0	0	0	0	0	0	0	0	36 43	9 10	2	6 2	0	54 57
1730 - 1745 0 0			8	15	0	252	0	0	29	2	0	3	0	34	0	0	0	0	0	0	0	0	0	0	25	4	1	0	0	30
1745 - 1800 0 1			3	16	1	248	0	0	26	2	0	2	0	30	0	0	0	0	0	0	0	0	0	0	20	5	2	1	0	28
Hourly Total 0 4			29	68	1	1016	0	2	96	5	2	9	0	114	0	0	0	0	0	0	0	0	0	0	124	28	8	9		169
1800 - 1815 0 1			4	17	3	227	0	0	25	1	0	1	0	27	0	0	0	0	0	0	0	0	0	0	25	2	1	0		28
1815 - 1830 0 1			4	7	1	217	0	0	25	0	0	2	0	27	0	0	0	0	0	0	0	0	0	0	32	1	2	4		39
1830 - 1845 0 1 1845 - 1900 0 1	10		5 11	13	1 1	209 243	0	0	31 20	1	0	1	0	32 22	0	0	0	0	0	0	0	0	0	0	37 25	7	0	1		46
Hourly Total 0 4			24	54	6	896	0	0	101	2	0	5	0	108	0	0	0	0	0	0	0	0	0	0	119	14	4	6		30 143
		- 1 ~				000	•								, <u> </u>															
TOTAL 1 17	7 657	74 1385	437	1028	18	9460	0	2	687	57	18	63	1	828	0	0	3	2	0	1	0	6	0	2	1486	379	124	221	2 2	2214
T-1-1 00V- (00V1 - 00V1				1405								04																045		1892
Total OGVs (OGV1 + OGV2)				1465								81								1							_	345		.092



APPENDIX D
M1J15a ANPC SURVEY DATA



Intelligent Data Collection Limited M1 J15 and 15A

 Client:
 AECOM

 Project Number:
 ID02564

 Date of Survey:
 10.03.2016

 Survey Type:
 ANPR Origin

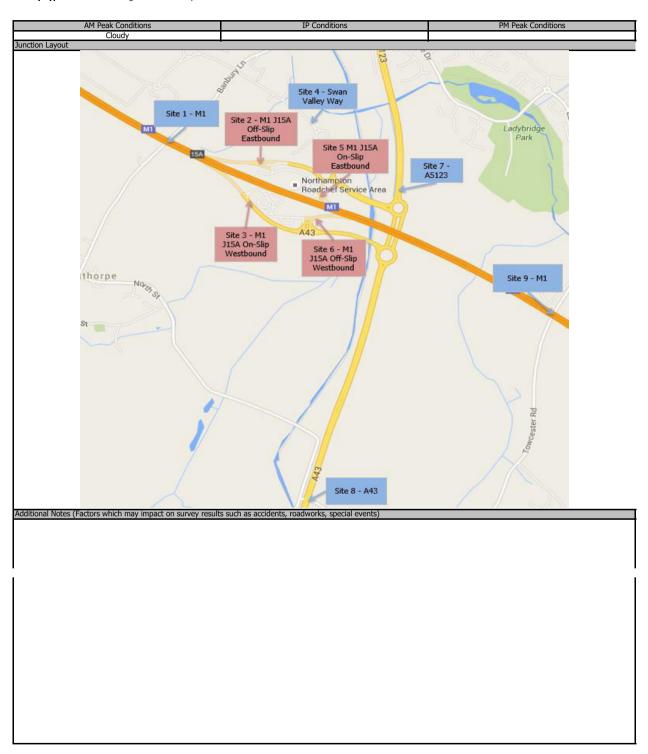
Survey Type: ANPR Origin Destination Report

Intelligent Data Collection Limited



Client: Project Number: Date of Survey: Survey Type: AECOM ID02564 10.03.2016

ANPR Origin Destination Report



OGV1 Journeys	- All Durations		ANPR (Captures										
The Free	Time Te	Inbound (NB/EB)	Outbound (SB/WB)	Total	ANPR Matched Plates	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	
Time From 06:00	Time To 06:14	9	4	13	<u>∢ Σ ⊡</u> 4	2	0	0	0	0	0	0	2	
06:15	06:29	12	4	16	4	1	0	0	0	0	0	0	1	
06:30	06:44	1	3	4	2	0	0	0	0	0	0	0	1	
06:45	06:59	2	5	7	4	0	0	0	0	0	0	0	2	
07:00	07:14	1	5	6	4	2	0	0	0	0	0	0	0	
07:15	07:29	3	6	9	6	0	0	0	0	0	0	1	3	
07:30	07:44	1	4	5	4	2	0	0	0	0	0	0	0	
07:45	07:59	3	4	7	4	1	0	0	0	0	1	0	0	
08:00	08:14	4	3	7	3	0	1	0	0	0	0	0	0	
08:15	08:29	2	5	7	6	3	0	0	0	0	0	0	1	
08:30	08:44	5	3	8	3	0	1	0	0	0	0	0	2	
08:45	08:59	5	1	6	1	1	0	0	0	0	0	0	0	
09:00	09:14	5	4	9	3	0	0	0	0	0	0	1	0	
09:15	09:29	5	3	8	3	1	0	0	1	0	0	0	0	
Tot	ial .	58	54	112	51	13	2	0	1	0	1	2	12	
OGV2 Journeys	- All Durations		ANPR (Captures										
OGV2 Journeys	- All Durations			Captures		e 1	e 2	e 3	4 4	e 5	9 e	e 7	8 8	
	- All Durations Time To	(NB/EB)		Captures leto	ANPR Matched Plates	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	
		Inbound (NB/EB)	Outbound O (SB/WB)	•	O Matched Plates	o Site 1	o Site 2	o Site 3	o Site 4	o Site 5	o Site 6	o Site 7	o Site 8	
Time From	Time To		Outbound (SB/WB)	Total			Site	Site		Site	Site		o o Site	
Time From 06:00	Time To 06:14	0	Outbound O (SB/WB)	o Total	0	0	o Site	o Site	0	o Site	o Site	0	o Site	
Time From 06:00 06:15	Time To 06:14 06:29	0	Outbound o o (SB/WB)	0 0	0	0	o o Site	o o Site	0	o o Site	o o Site	0	o o Site	
Time From 06:00 06:15 06:30 06:45 07:00	Time To 06:14 06:29 06:44 06:59 07:14	0 0 0 0 0	Ontponud 0 0 2 2 2	0 0 2 2 3	0 0 0	0 0 0	o o o	0 0 0 Site	0 0 0	o o o Site	0 0 0 Site	0 0 0 0	0 0 0 0 Site	
Time From 06:00 06:15 06:30 06:45 07:00 07:15	Time To 06:14 06:29 06:44 06:59 07:14 07:29	0 0 0 0 0 1	PunoqnnO 0 0 2 2 2 3	0 0 2 2 3 3 3	0 0 0 0 0	0 0 0 0 0	0 0 0 0 Site	0 0 0 Ste	0 0 0 0 0	0 0 0 0	0 0 0 0 Ste	0 0 0 0	0 0 0 0 Ste	
Time From 06:00 06:15 06:30 06:45 07:00 07:15 07:30	Time To 06:14 06:29 06:44 06:59 07:14 07:29 07:44	0 0 0 0 1 0	DunpodnO 0 0 2 2 2 3 5 5	0 0 2 2 3 3 6	0 0 0 0 0 1	0 0 0 0 0 0	0 0 0 0	0 0 0 0 0 Ste	0 0 0 0 0 0	0 0 0 0 Site	0 0 0 0 0 Ste	0 0 0 0 0	0 0 0 0	
Time From 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45	Time To 06:14 06:29 06:44 06:59 07:14 07:29 07:44 07:59	0 0 0 0 1 0 1 0	Ontponud 0 0 2 2 2 3 5	0 0 0 2 2 2 3 3 6	0 0 0 0 0 1 0	0 0 0 0 0 0	0 0 0 0 0 8	0 0 0 0	0 0 0 0 0 0	0 0 0 0 0	0 0 0 0 0 0 0 0 Sife	0 0 0 0 0 0	0 0 0 0 0 0 8	
Time From 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00	Time To 06:14 06:29 06:44 06:59 07:14 07:29 07:44 07:59 08:14	0 0 0 0 1 0 1 0	0 (88) 0 0 2 2 2 2 3 5 1 1	0 0 2 2 3 3 6 1	0 0 0 0 0 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 0 0 0 0 0	
Time From 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15	Time To 06:14 06:29 06:44 06:59 07:14 07:29 07:44 07:59 08:14 08:29	0 0 0 0 1 0 1 0 1	0 (88/88) 0 0 2 2 2 3 5 1 1 0	0 0 2 2 3 3 6 1 1 1 1	0 0 0 0 0 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 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	
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06:00 06:14 0	OGV1 Journeys -	- All Durations		ANPR (Captures										
66:00	Fimo From	Time To	nbound NB/EB)	utbound SB/WB)	otal	NPR latched lates	Site 1	Site 2		Site 4		Site 6	Site 7	Site 8	
06:15					_		1	0	3	0	0	0	0	1	
06:30															
06:45															
O7:15													0		
O7:15	07:00	07:14	1	5	6	1	0	0	0	0	0	0	0	1	
07:45			3	6	9	3	0	0	0	0	0	0	0	1	
08:00	07:30	07:44	1	4	5	1	0	0	0	0	0	0	0	1	
08:15	07:45	07:59	3	4	7	3	0	0	0	0	0	0	0	0	
OSY2 Journeys - All Durations	08:00	08:14	4	3	7	4	0	0	0	0	1	0	0	0	
OB:45	08:15	08:29	2	5	7	2	0	0	0	0	0	0	0	1	
OGV2 Journeys - All Durations	08:30	08:44	5	3	8	2	1	0	0	0	1	0	0	0	
OGV2 Journeys - All Durations	08:45	08:59	5	1	6	5	1	0	0	0	0	0	0	3	
Total 58 54 112 51 6 0 4 1 2 0 0 17 CGV2 Journeys - All Durations	09:00	09:14	5	4	9	4	0	0	0	0	0	0	0	3	
OGV2 Journeys - All Durations Time From Time To	09:15	09:29	5	3	8	5	0	0	0	1	0	0	0	0	
Time From Time To	Tota	al .	58	54	112	51	6	0	4	1	2	0	0	17	
06:00 06:14 0	OGV2 Journeys -	- All Durations		ANPR (Captures										
06:15 06:29 0	OGV2 Journeys -	· All Durations	ound /EB)		<u> </u>	rR ched es	Site 1	Site 2		Site 4	Site 5	Site 6	Site 7	Site 8	
06:30			Inbound (NB/EB)		Total	ANPR Matched Plates	Site 1	Site 2		Site 4	Site 5	Site 6	Site 7	Site 8	i
06:45	Time From 06:00	Time To 06:14	0	Outbound O (SB/WB)	o Total	0	o Site	o Site	o Site	o	o Site	o	o Site	o	i
07:00 07:14 1 2 3 0	Time From 06:00 06:15	Time To 06:14 06:29	0	Outbound o o (SB/WB)	o O Total	0	o o	o o Site	o o Site	o o Site	o o Site	o o	o o Site	o o Site	i
07:15 07:29 0 3 3 0	Time From 06:00 06:15 06:30	Time To 06:14 06:29 06:44	0 0	Outbound 0 (SB/WB)	0 0 7	0 0	o o Site	o o o Site	0 0 0	0 0 0	o o o Site	0 0 0	0 0 0 Site	o o o Site	i
07:30	Time From 06:00 06:15 06:30 06:45	Time To 06:14 06:29 06:44 06:59	0 0 0 0	Outbound 0 (SR/WB)	0 0 2 2	0 0	0 0 0 Site	0 0 0 Site	0 0 0 Site	0 0 0 Site	0 0 0	0 0 0	0 0 0	0 0 0 Site	i
07:45 07:59 0 1 1 0	Time From 06:00 06:15 06:30 06:45 07:00	Time To 06:14 06:29 06:44 06:59 07:14	0 0 0 0 0	Ontponud 0 0 2 2 2	0 0 2 2 3	0 0 0	0 0 0	0 0 0 0	0 0 0 0 Site	0 0 0 0	0 0 0 0	0 0 0	0 0 0 0	0 0 0 Sfe	1
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08:30	Time From 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45	Time To 06:14 06:29 06:44 06:59 07:14 07:29 07:44 07:59	0 0 0 0 1 0 1 0	0 0 2 2 2 3 5 1	0 0 2 2 2 3 3 6 1	0 0 0 0 0 0 1	0 0 0 0 0	0 0 0 0 0 Sir	0 0 0 0 0 0 Sfe	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 8	
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	Time From 06:00 06:15 06:30 06:45 07:00 07:15 07:30 07:45 08:00 08:15 08:30 08:45 09:00 09:15	Time To 06:14 06:29 06:44 06:59 07:14 07:29 07:44 07:59 08:14 08:29 08:44 08:59 09:14 09:29	0 0 0 0 1 0 1 0 1 0 0 1 1 0 0	0 0 0 2 2 2 3 5 1 1 0 3 2 2 3 3	0 0 2 2 3 3 6 1 1 1 4 2 3 3	0 0 0 0 0 0 1 0 0 0 0 0	0 0 0 0 0 0 0	o o o o o o o o o o o o o o o o o o o	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 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	
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OGV1 Journeys	- All Durations		ANPR (Captures										
Time From	Time To	Inbound (NB/EB)	Outbound (SB/WB)	Total	ANPR Matched Plates	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	
Time From 15:30	15:44	8	2	10	2	0	0	0	0	0	0	0	1	1
15:45	15:59	3	3	6	3	0	2	0	0	0	0	0	1	
16:00	16:14	5	1	6	2	1	0	0	0	0	0	0	0	
16:15	16:29	7	2	9	2	0	0	0	0	0	0	1	0	
16:30	16:44	9	3	12	3	1	0	0	0	0	0	0	2	
16:45	16:59	6	3	9	3	0	0	0	0	0	0	0	2	
17:00	17:14	2	4	6	2	0	0	0	0	0	0	0	0	
17:15	17:29	2	4	6	4	0	0	0	0	0	0	0	2	
17:30	17:44	5	3	8	3	0	0	0	0	0	0	1	0	
17:45	17:59	4	3	7	3	1	0	0	0	0	0	1	0	
18:00	18:14	1	3	4	2	1	0	0	0	0	0	0	0	
18:15	18:29	1	8	9	10	4	1	0	0	0	0	0	1	
18:30	18:44	2	5	7	5	5	0	0	0	0	0	0	0	
18:45	18:59	4	6	10	5	1	1	0	0	0	1	1	1	
Tot	tal	59	50	109	49	14	4	0	0	0	1	4	10	
OGV2 Journeys	- All Durations		ANPR (Captures										
OGV2 Journeys	- All Durations			Captures		e 1	.e 2	ന	4 4	e 5	9 9	.e 7	& 8	
	- All Durations Time To	Inbound (NB/EB)		Captures Pation	ANPR Matched Plates	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	
		Inbound (NB/EB)	Outbound O (SB/WB)		ANPR O Matched Plates	o Site 1	o Site 2	o Site 3	o Site 4	o Site 5	o Site 6	o Site 7	o Site 8	
Time From	Time To		Outbound (SB/WB)	Total			Site	Site		Site	Site		o o Site	
Time From 15:30	Time To 15:44	0	Outbound O (SB/WB)	o Total	0	0	o	o Site	0	o Site	o Site	0	o Site	
Time From 15:30 15:45	Time To 15:44 15:59	0	Outbound o o (SB/WB)	o O Total	0	0	o o Site	o o Site	0	o o Site	o o Site	0	o o Site	
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OGV1 Journeys	- All Durations		ANPR (Captures										
Timo Franc	Time To	Inbound (NB/EB)	Outbound (SB/WB)	Total	ANPR Matched Plates	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	
Time From 15:30	15:44	8	2	10	8	3	0	0	0	1	0	0	0	
15:45	15:59	3	3	6	3	2	0	0	0	0	0	0	0	
16:00	16:14	5	1	6	5	1	0	0	0	0	0	0	1	
16:15	16:29	7	2	9	7	0	0	0	0	1	0	0	2	
16:30	16:44	9	3	12	8	0	0	0	0	1	0	2	2	
16:45	16:59	6	3	9	6	0	0	0	0	1	0	0	2	
17:00	17:14	2	4	6	2	0	0	0	0	1	0	0	0	
17:15	17:29	2	4	6	1	0	0	0	0	0	0	0	0	
17:30	17:44	5	3	8	5	1	0	0	0	0	0	0	0	
17:45	17:59	4	3	7	3	0	0	0	0	0	0	1	2	
18:00	18:14	1	3	4	1	0	0	0	0	1	0	0	0	
18:15	18:29	1	8	9	1	0	0	0	0	0	0	0	0	
18:30	18:44	2	5	7	2	0	0	1	0	0	0	0	0	
18:45	18:59	4	6	10	3	2	0	0	0	0	0	0	0	
Tot	al	59	50	109	55	9	0	1	0	6	0	3	9	
OGV2 Journeys	- All Durations		ANPR (Captures										
OGV2 Journeys	- All Durations			Captures		e 1	.e 2	۳ و	4	9. 5	9 e.	.e 7	& 9.	
	- All Durations Time To	Inbound (NB/EB)		Captures leto	ANPR Matched Plates	Site 1	Site 2	Site 3	Site 4	Site 5	Site 6	Site 7	Site 8	
		Inbound (NB/EB)	Outbound Outbound		ANPR O Matched Plates	o Site 1	o Site 2	o Site 3	o Site 4	o Site 5	o Site 6	o Site 7	o Site 8	
Time From	Time To		Outbound (SB/WB)	Total			Site	Site		Site	Site		o o Site	
Time From 15:30	Time To 15:44	0	Outbound O (SB/WB)	o Total	0	0	o	o Site	0	o Site	o Site	0	o Site	
Time From 15:30 15:45	Time To 15:44 15:59	0	Outbound o o (SB/WB)	o O Total	0	0	o o Site	o o Site	0	o o Site	o o Site	0	o o Site	
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Time From 15:30 15:45 16:00 16:15 16:30 16:45	Time To 15:44 15:59 16:14 16:29 16:44 16:59	0 0 0 0 0 0 0 0	Outbound 0 0 0 0 (SB/WB)	0 0 0 0	0 0 0 0 0	0 0 0 0 0	0 0 0 0	0 0 0 Ste	0 0 0 0 0	0 0 0 0	0 0 0 Site	0 0 0 0	0 0 0 0 Ste	
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