PAH
HIGHWAY CONSULTANTS

PROPOSED MIXED USE DEVELOPMENT, WEST ROAD, POGMOOR, BARNSLEY

TRANSPORT ASSESSMENT

522 / March 2011

Unit 2
The Office Campus
Paragon Business Park
Red Hall Court
Wakefield
WF1 2UY

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1 INTRODUCTION

1.1.1 The PAH Highway Consultants Ltd has been appointed to prepare this Transport Assessment relating to the proposed development on land to the south side of West Road in Pogmoor, Barnsley. Appendix A shows the site location in relation to the regional and local highway network.

1.1.2 This Transport Assessment considers the traffic impact and transport sustainability provision associated with the development. The assessment demonstrates that the development proposals should be acceptable for planning approval purposes.

Scope of Report

1.1.3 Following this brief introduction, Section 2 describes the site in more detail and provides a review of the existing highway network. Section 3 then describes the development. Section 4 provides an assessment of the traffic and road safety impact of the development on the local highway network. The conclusions are provided in Section 5.

2 EXISTING CONDITIONS

2.1 Site Description

2.1.1 The site currently contains unoccupied / occupied factory buildings, offices and open land amounting to about 5.5 acres or 2.23 hectares with a variety of commercial uses. One of these is the local driving test centre which is very busy with a continual flow of drivers and instructors. It is evident that some instructors take their pupils along West Road before their Test to merely show them where it is.

2.1.2 There are several vehicular access points to the individual plots within the overall site from West Road.

2.1.3 The site is located within a high density residential area on the western fringe of the built up area of Barnsley close to Barnsley District General Hospital and to Junction 37 of the M1 motorway.

2.2 Local Highway Network

2.2.1 West Road is a single carriageway with footways and street lighting to both sides. It is developed along its southern side with commercial uses (our client's site) whereas to the north is residential served via a cul-de-sac (The Lindales) and Cresswell Street which links through to Pogmoor Road. To the east of the junction with the latter there is a large area of green open / recreational space. West Road ends at a turning head. A public footpath continues to the east to link to the commercial / residential area around Stocks Lane. Parking is controlled along both sides of West Road for most of its length except for areas in front of the residential properties and around the turning head.

2.2.2 At its western end, West Road forms a priority junction with Pogmoor Road. To the northern corner of this junction the Council has built a 38 space pay and display car park which was full on the occasions of our site visits. Visibility splays in excess of 2.4 x 90m can be achieved to the east (right) of the junction of West Road with Pogmoor Road. The splay is tangential to the west (left).

2.2.3 Pogmoor Road is a main distributor road through the area serving many residential streets, local shops and schools and Barnsley District General Hospital. The road is also signposted as a route to Huddersfield off the A628 (eastbound) prior to its junction with Pogmoor Road. The latter junction is at the western most end of Pogmoor Road which is a signal controlled cross roads with the A628 and Broadway (A6133). Pogmoor Road continues eastwards having signal controlled junctions with Summer Lane and then Gawber Road. Both of these are adjacent to Barnsley District General Hospital.

2.2.4 The above mentioned signal controlled junction all benefit from the provision of formal crossing facilities for pedestrians. A further signal controlled crossing is located on Pogmoor Road adjacent to its junction with Warner Avenue.

2.2.5 Pogmoor Road is a single carriageway with footways and street lighting to main road standards. There are numerous side road junctions with adjacent residential streets. There is a range of small local shops and businesses along its length including Costcutters, Rhythm & Booze, a post office, a Jet petrol station, other convenience stores and fast food outlets (fish and chips), hairdressers and several public houses.

2.2.6 Parking is controlled by traffic regulation orders along much of the length of Pogmoor Road. There are also some controls on adjacent side streets, particularly near to the hospital due to the over flow of parking demand from that facility. The area is subject to a 30 mph speed limit by virtue of the presence of a system of street lighting.

2.3 Road Traffic Accidents

2.3.1 The personal injury accident records for the last five years on West Road and Pogmoor Road in proximity of the site have been obtained and are included at Appendix C.

2.3.2 The records show that two accidents occurred within the vicinity of the proposed site both along Pogmoor Road itself with none on West Road. Both of these incidents resulted in slight injury to the vehicle occupants and were caused by one vehicle driving out of either a side road (Intake Lane) or the Jet petrol station and colliding with a vehicle travelling along Pogmoor Road.

2.3.3 The relatively good injury accident record in the vicinity of the site does not indicate a road safety problem or any trends of any significance which would warrant treatment or be a cause for concern as a result of a negligible change in peak hour flows as a result of the development proposals.

2.4 Transport Sustainability

2.4.1 The site is in a sustainable location within walking distance of shops, schools and services in the surrounding area.

2.4.2 The catchment areas for the preferred maximum walking distance of 2km are shown on the plan at Appendix B. These encompass most of the built up areas surrounding the Pogmoor Area and the western half of Barnsley itself including the town centre. The site is well placed for residents who could walk to work / school and other destinations in the area.

2.4.3 Footways within the vicinity of the site are to a good standard in terms of width, construction and street lighting typical of the urban environment. There are signalised pedestrian crossing points on Pogmoor Road at key points along potential pedestrian routes to local facilities and amenities. With the additional on-site pedestrian facilities it is concluded that safe and convenient access to the site is readily available for pedestrians.

2.4.4 With regards to cycling, PPG 13: Transport states that "Cycling also has the potential to substitute for short car trips, particularly those under 5km, and to form part of a longer journey by public transport". The plan at Appendix B also shows the 5km cycle catchment area from the site which encompasses all of the built up area of Barnsley and destinations in places such as Dodworth, Darton and towards Monk Bretton, Measborough Dike and Worsbrough. This demonstrates that there are significant areas of development within this catchment area, providing existing potential for residents to cycle from their homes to work.

2.4.5 The site is located in proximity to an existing shared footway and cycleway along the side of Pogmoor road towards its western most end.

2.4.6 Bus stops are also located on Pogmoor Road within 100m of its junction with West Road. These stops have a sign pole and a timetable case (eastbound only) and lie within 400m of the proposed development site.

2.4.7 The 14 service operates a circular route from Barnsley Interchange to Pogmoor, Dodworth and Gilroyd with a 20 minute frequency Monday to Saturday with no service in the evenings or on Sundays. The combination of the 23 and 24 services operate with an hourly frequency every day between Barnsley Interchange, Pogmoor, Dodworth and either Stocksbridge or Penistone.

2.4.8 The combination of the 43 and 44 services operate a circular route from Barnsley Interchange to Pogmoor, Dodworth and Kingstone with a 30 minute frequency Monday to Saturday and hourly during evenings and on Sundays.

2.4.9 From the above it is evident that the site is well served by a variety of frequent bus services from destinations such as Barnsley, Dodworth, Stocksbridge and Penistone.

2.4.10 There are rail stations in Barnsley and Dodworth which are accessible by bus and so provides the opportunity for multi modal journeys by public transport.

2.4.11 Barnsley Rail Station provides regular links to all the major local conurbations in the area and via the wider network to destinations beyond such as London, Edinburgh, Glasgow, Liverpool and Birmingham.

3 THE DEVELOPMENT PROPOSALS

3.1 Proposed Development

3.1.1 A potential illustrative layout of the proposed development is included at Appendix D. The development proposals are for the change of use of the land to the rear of the commercial buildings fronting West Road from commercial / industrial purposes to residential and to demolish several commercial buildings fronting West Road and replace them with new modern units of a similar size.

3.1.2 The overall area of the site amounts to about 5.5 acres or 2.23 hectares. The present gross floor area of the mixture of buildings on the site is about 1750 sqm but much of the site is yet to be developed and has struggled to attract end users for a number of years.

3.1.3 The existing commercial units fronting West Road would be demolished and replaced with new units of similar gross floor areas. Whilst it is ultimately intended to remove the driving test centre this is shown as retained on the illustrative layout in Appendix D. A crèche is also indicated on the drawing but this may well be a commercial unit if demand requires.

3.1.4 The area of land remaining to the rear of the line of commercial units amounts to about 1.76 hectares. Whilst a care home is shown for illustrative purposes on part of this site with 60 dwellings, for a worst case scenario using a density of 40 dwellings per hectare would give a development of about 71 units (replacing the care home with residential units merely for a worst case traffic generation comparison).

3.1.5 Parking, servicing, turning facilities will be provided within the site together with safe pedestrian and cycle routes and secure parking facilities for the latter. The layout of the development will comply with Council guidelines and Manual for Streets with a design speed of 20 mph.

3.2 Vehicular Access

3.2.1 The proposal is to provide a new access point on to West Road to adoptable standards which will serve a residential development on the land to the rear. Given the linear nature of West Road then visibility splays in accordance with Council requirements can be readily achieved at this new junction. The replacement commercial units will be accessed directly from West Road as they do now.

3.2.2 The junction of West Road with Pogmoor Road has served the commercial uses on the site for many years with no adverse safety problems being recorded.

3.3 Parking Provision

3.3.1 The level of provision of car and cycle parking for the proposed development will comply with latest Council and National Guidance.

3.4 Traffic Impact

3.4.1 The traffic impact of the proposals has been assessed by examining the potential level of use of the land. The site has an established B1 / B2 industrial use and those units that have been used for that purpose have done so for many years. The new units along the frontage to West Road are assumed to be direct replacements to those which exist there already so there would be no net impact on traffic flows along the highway.

3.4.2 The potential for further industrial uses on the land to the rear that has yet to be developed has also been considered. As a rule of thumb it could be expected that 30% of the site area could be developed in a built form allowing for parking and servicing. This would give a potential overall gross floor area of the units of 5280 sqm (1.76 hectares x 30%).

3.4.3 The TRICS database has been used to derive the peak hour generation rates for an industrial estate on the whole site. A copy of the output can be found in Appendix E and the derived rates are given in the table below:

	B2 Industrial Estate		
	Arrive	Depart	Total
AM Peak	1.288	0.553	1.841
PM Peak	0.558	1.121	1.679
Daily	3.677	3.554	7.231

Table 1: Trip Rates

3.4.4 Using generation rates in the table above and the potential unit gross floor area of 5280 sqm the following traffic flows can be calculated.

	B2 Industrial Estate		
	Arrive	Depart	Total
AM Peak	68	29	97
PM Peak	30	59	89
Daily	194	188	382

Table 2: Traffic Generations

3.4.5 The TRICS database has been used to derive the peak hour generation rates for a residential development of 71 units on the remaining site. A copy of the output can be found in Appendix E and the derived rates are given in the table below:

	Residential Units		
	Arrive	Depart	Total
AM Peak	0.225	0.523	0.748
PM Peak	0.500	0.319	0.819
Daily	2.573	2.650	5.223

Table 3: Trip Rates

3.4.6 Using generation rates in the table above and the potential residential development of 71 units the following traffic flows can be calculated.

	Residential Units		
	Arrive	Depart	Total
AM Peak	16	37	53
PM Peak	36	23	59
Daily	183	188	371

Table 4: Traffic Generations

3.4.7 From tables 2 and 4 it can be seen that the proposed residential units would generate between 44 and 30 fewer traffic movements at peak hours when compared to a B1 / B2 use on the whole site and 11 fewer movements over the whole day. In addition the proposals are likely to potentially remove the heavy goods vehicle movements that an industrial estate on the whole site would generate.

3.4.8 Given the above likely potential reduction in traffic along West Road that a residential development would generate when compared to a B1 / B2 use on the whole site, then no further analysis of the proposed site access junctions or any off site junctions is justified.

4 TRANSPORT POLICY

4.1.1 When considering transport policy compliance for planning applications, the main thrust of local, regional and national policy is that new development should be conveniently accessible by a range of sustainable transport modes, including public transport, cycling and walking. This policy therefore sets out the framework for this Transport Assessment and the project's compliance with the policy objectives. Further details of the relevant policy documents are set out below.

PPG 13: Transport

4.1.2 National transport policy relating to transport and development is set out in Planning Policy Guidance Notes 13 'Transport'. The main objectives of PPG 13 are set out in paragraph 4 and state:

> *"The objectives of this guidance are to integrate planning and transport at the national, regional, strategic and local level to:*
>
> - *Promote more sustainable transport choices*
> - *Promote accessibility to jobs by public transport, walking and cycling*
> - *Reduce the need to travel, especially by car"*

4.1.3 PPG13 sets out the Government's aim to promote the widespread use of Travel Plans and considers that they should be submitted alongside planning applications which are likely to have significant transport implications.

Local Transport Plan

4.1.4 The current Local Transport Plan is the second South Yorkshire Local Transport Plan (LTP2) which covers the period 2006 to 2011. The key Transport Shared Priorities of the LTP2 include:

- *Tackling congestion,*
- *Addressing accessibility,*
- *Better road safety,*
- *Improving air quality and respecting other quality of life issues.*

4.1.5 The LTP sets out the walking and cycling strategy for South Yorkshire to encourage more people to use these modes of travel to help reduce the dependency on private cars. With regards to cycling provision within development proposals, the LTP seeks to ensure that new development proposals are located and designed to be cycle friendly and adopt guidelines for cycle parking standards. With regards to walking, the LTP seeks to improve the local environment to make walking more attractive by enhancing safety, security and environmental quality.

4.1.6 The LTP also sets out bus and rail strategies for South Yorkshire and seeks to increase patronage for all categories of public transport passenger and modal shift towards public transport and away from the car.

Barnsley UDP

4.1.7 Local transport policy is set out in the Barnsley Unitary Development Plan (UDP). Chapter 6: Transport specifically relates to transport and new developments. Relevant policy includes:

- Policy T2 states: *"Development will only be allowed if the additional demand for travel generated can be accommodated on the highway network without significant detriment to the environment or the safety and ease of movement of vehicles and pedestrians using the network, or through measures to assist public transport, cycling or walking."*

- Policy T5 states that the alignment for a Wortley By-pass will be protected.

- Policies T9, T14, T26 and T27 identify the need to consider public transport, pedestrian and cycling access to new developments.

5 CONCLUSIONS

5.1.1 This report presents the existing traffic characteristics and infrastructure in the surrounding area of the development. The development proposals are then presented with initial findings and potential improvements associated with them. The traffic impact of the development is also assessed. Accident records were obtained and the vehicular access and sustainable elements of the scheme assessed.

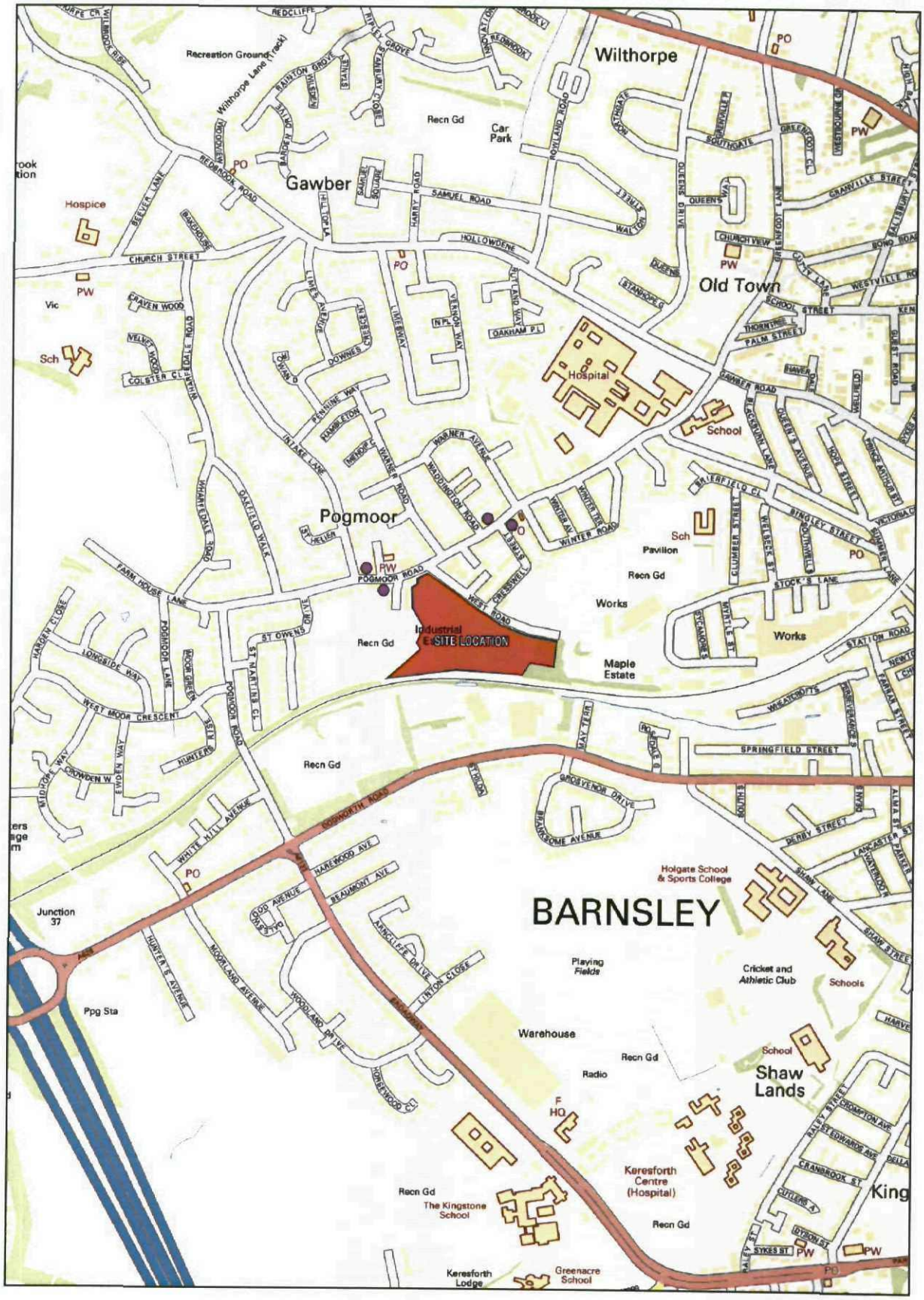
5.1.2 The report concludes that both capacity and safety elements of the proposals are acceptable, since there is no significant accident record and a predicted reduction in traffic flows along West Road with fewer goods vehicle movements and the proposed development can be readily accommodated on the local highway network.

5.1.3 It is therefore concluded that the development is considered acceptable, and that there are no highway safety or efficiency reasons why planning consent for the proposed development should not be granted.

APPENDICES

Appendix A

Figure 1: Site Location



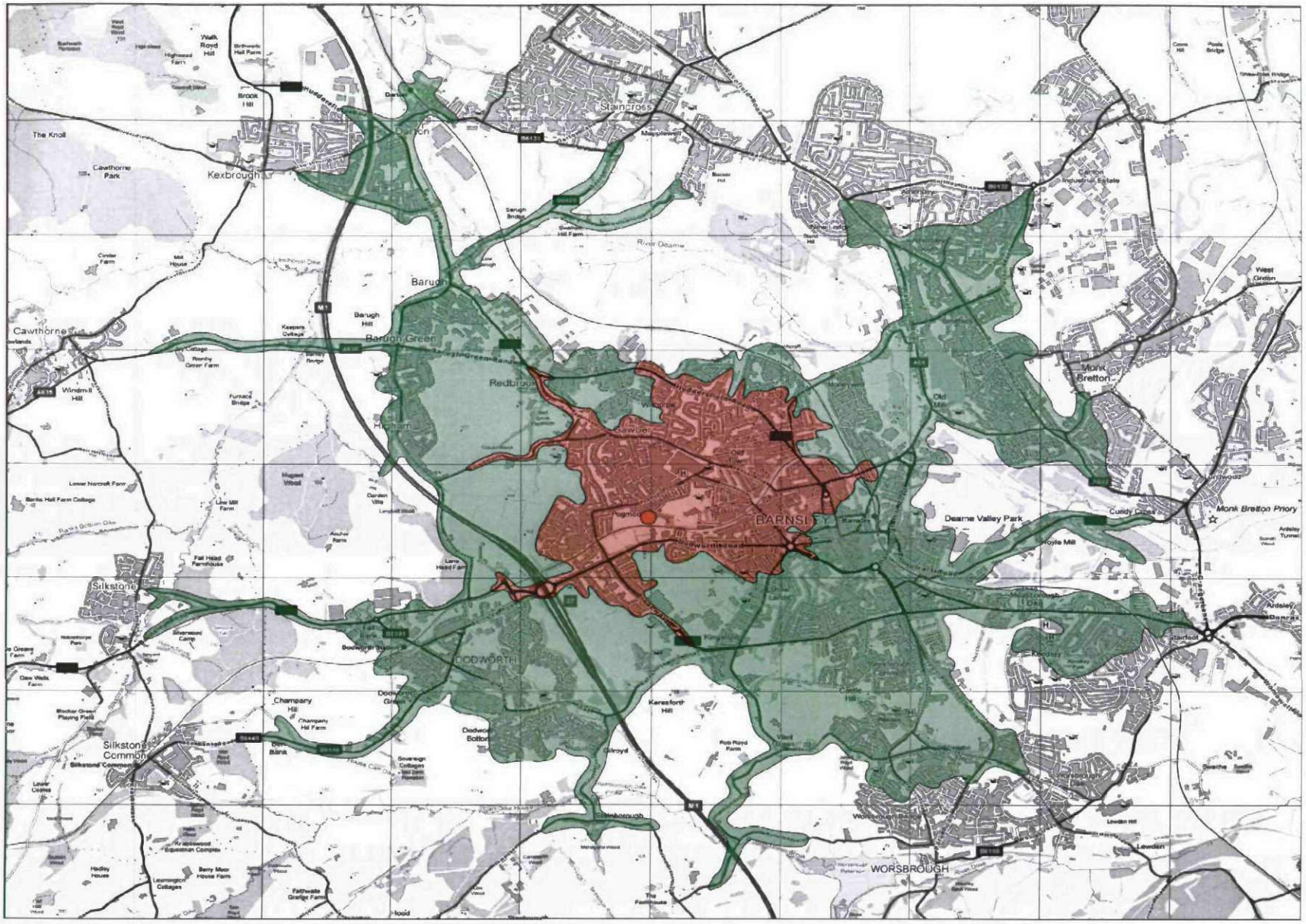
● BUS STOP

FIGURE 1
SITE LOCATION PLAN

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Appendix B

Walking and Cycle Catchment Plan



SITE LOCATION

2KM WALK CATCHMENT

5KM CYCLE CATCHMENT

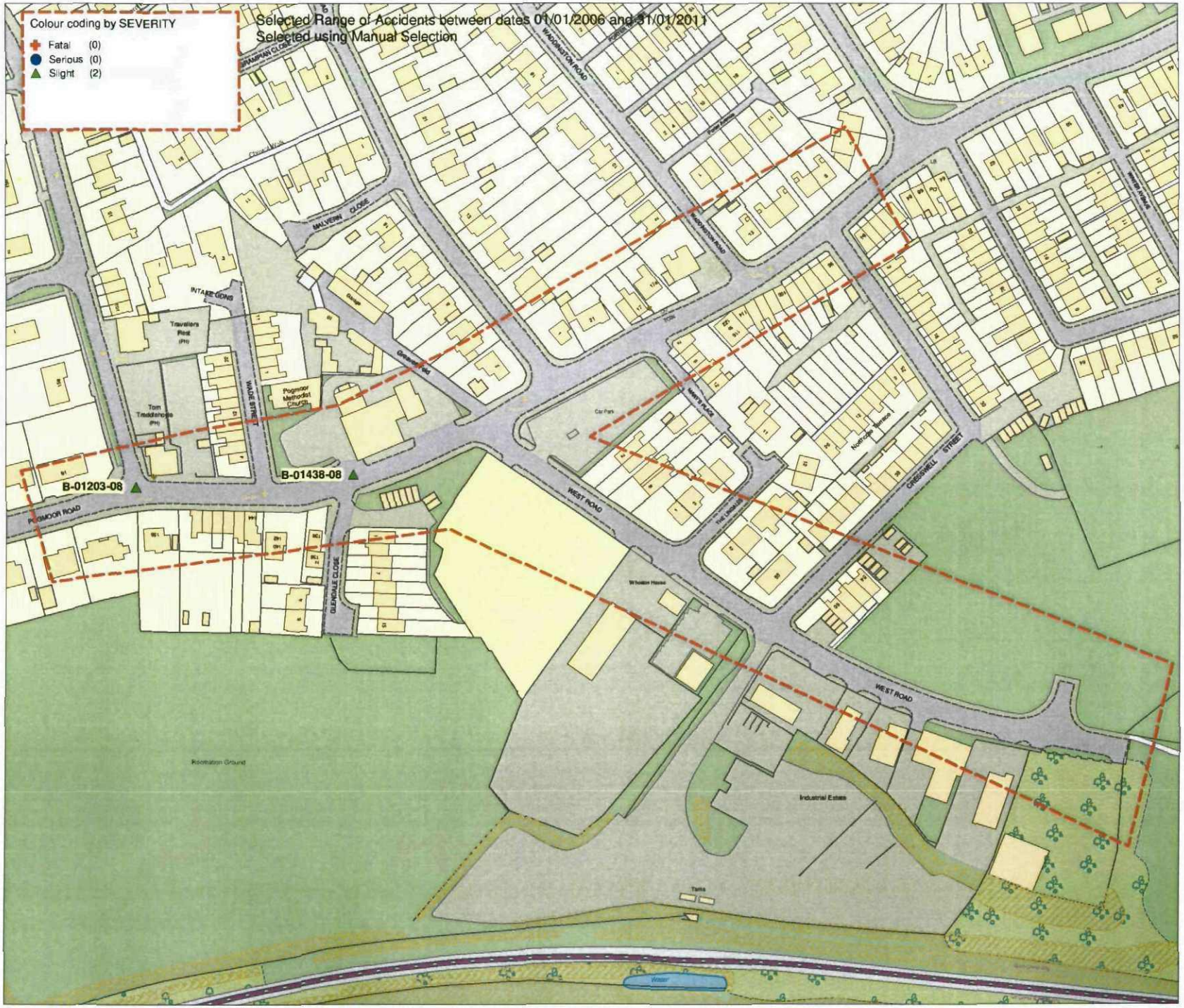
FIGURE 2

CYCLE / PEDESTRIAN CATCHMENT AREA

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Appendix C

Accident Data



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MAKING SOUTH YORKSHIRE ROADS SAFER

DRAWING TITLE	
SCALE	1 : 1390
DATE	21/02/2011
DRAWING No.	
DRAWN BY	

Details of Personal Injury Accidents for Period - **01/01/2006** to **31/01/2011** (61) months

Selection:

Selected using Pre-defined Query : District - (Barnsley)
collisions

Notes:

Police Ref. / Road No. / Grid Ref.	Day / Date / Time / D/L / R.S.C / Weather / Speed / Account of Accident	Location Description	Vehicles: Veh No / Type / Manv / Dir / Class				Casualties: Sex / Age / Sev			
B-01203-08	Sunday 28/09/2008	POGMOOR ROAD POGMOOR A J/W INTAKE LANE	Veh 2 Car	Turning right	N to W					
			Veh 1 Car	Going ahead	E to W	FSP	F	51	Slight	
C 785	1106hrs									
	Daylight:street lights present									
E 432,790	Dry									
N 406,639	Fine without high winds									
	30 mph									
	V1 TRAVELLING ALONG POGMOOR ROAD TOWARDS INTAKE LANE , V2 PULLS OUT OF JUNCTION AND COLLISION OCCURS.									
B-01438-08	Friday 21/11/2008	POGMOOR RD BARNSLEY	Veh 2 Pedal cycle	Going ahead	W to E	Dri	M	41	Slight	
			Veh 1 Car	Going ahead	0 to 0					
C 785	1725hrs									
	Darkness: street lights present a									
E 432,874	Dry									
N 406,644	Fine without high winds									
	30 mph									
	PED CYC(V2) TV ALONG POGMOOR RD TW BDGH WHEN V1 PULLED OUT OF JET GARAGE, COLL WITH V2 & KNOCKING RIDER FROM PEDCYC. V1 LEFT SCENE.									

Appendix D

Proposed Development


Allotment
Norincote Terrace
CRESSWELL STREET
THE LINDALES
WEST ROAD
SALVONAE CLOSE
ENTRANCE
DRIVING TEST CENTRE
UNIT 1
UNIT 2
UNIT 3
SITE A
SITE B
SITE C
OPEN SPACE
Bore Const Bdy
Water

Appendix E

TRICS Data

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT
Category : D - INDUSTRIAL ESTATE
VEHICLES

Selected regions and areas:

02	**SOUTH EAST**		
	ES	EAST SUSSEX	1 days
	EX	ESSEX	1 days
	WS	WEST SUSSEX	2 days
03	**SOUTH WEST**		
	BR	BRISTOL CITY	2 days
	CW	CORNWALL	1 days
	WL	WILTSHIRE	1 days
04	**EAST ANGLIA**		
	CA	CAMBRIDGESHIRE	3 days
	SF	SUFFOLK	2 days
05	**EAST MIDLANDS**		
	DS	DERBYSHIRE	1 days
	LN	LINCOLNSHIRE	1 days
	NT	NOTTINGHAMSHIRE	1 days
07	**YORKSHIRE & NORTH LINCOLNSHIRE**		
	NY	NORTH YORKSHIRE	1 days
	WY	WEST YORKSHIRE	2 days
08	**NORTH WEST**		
	CH	CHESHIRE	1 days
	LC	LANCASHIRE	1 days
	MS	MERSEYSIDE	2 days
09	**NORTH**		
	CB	CUMBRIA	2 days
	DH	DURHAM	1 days
	NB	NORTHUMBERLAND	1 days
	TW	TYNE & WEAR	1 days

Filtering Stage 2 selection:

Parameter: Gross floor area
Range: 1197 to 102000 (units: sqm)

Public Transport Provision:
Selection by: Include all surveys

Date Range: 01/01/02 to 09/09/10

Selected survey days:

Monday	5 days
Tuesday	8 days
Wednesday	4 days
Thursday	7 days
Friday	4 days

Selected survey types:

Manual count	27 days
Directional ATC Count	1 days

Selected Locations:

Edge of Town Centre	1
Suburban Area (PPS6 Out of Centre)	8
Edge of Town	14
Neighbourhood Centre (PPS6 Local Centre)	1
Free Standing (PPS6 Out of Town)	4

Selected Location Sub Categories:

Industrial Zone	15
Residential Zone	2
Built-Up Zone	2
Out of Town	3
No Sub Category	6

LIST OF SITES relevant to selection parameters

1	**BR-02-D-02**	**INDUSTRIAL ESTATE, BRISTOL**	**BRISTOL CITY**
	NOVERS HILL		
	BEDMINSTER		
	BRISTOL		
	Suburban Area (PPS6 Out of Centre)		
	Industrial Zone		
	Total Gross floor area:	6000 sqm	
2	**BR-02-D-03**	**INDUSTRIAL ESTATE, BRISTOL**	**BRISTOL CITY**
	CROFTS END ROAD		
	SPEEDWELL		
	BRISTOL		
	Suburban Area (PPS6 Out of Centre)		
	Industrial Zone		
	Total Gross floor area:	6000 sqm	
3	**CA-02-D-01**	**IND. ESTATE, PETERBOROUGH**	**CAMBRIDGESHIRE**
	STURROCK WAY		
	BRETTON		
	PETERBOROUGH		
	Suburban Area (PPS6 Out of Centre)		
	Industrial Zone		
	Total Gross floor area:	4300 sqm	
4	**CA-02-D-02**	**IND. ESTATE, CAMBRIDGE**	**CAMBRIDGESHIRE**
	COLDHAM'S ROAD		
	COLDHAM'S COMMON		
	CAMBRIDGE		
	Edge of Town		
	Industrial Zone		
	Total Gross floor area:	2063 sqm	
5	**CA-02-D-03**	**IND. ESTATE, PETERBOROUGH**	**CAMBRIDGESHIRE**
	SAVILLE ROAD		
	WESTWOOD		
	PETERBOROUGH		
	Suburban Area (PPS6 Out of Centre)		
	No Sub Category		
	Total Gross floor area:	4425 sqm	
6	**CB-02-D-03**	**INDUSTRIAL ESTATE, BRAMPTON**	**CUMBRIA**
	CARLISLE ROAD		
	BRAMPTON		
	Edge of Town		
	No Sub Category		
	Total Gross floor area:	13700 sqm	
7	**CB-02-D-04**	**INDUSTRIAL ESTATE, BRAMPTON**	**CUMBRIA**
	CARLISLE ROAD		
	BRAMPTON		
	Edge of Town		
	No Sub Category		
	Total Gross floor area:	17708 sqm	
8	**CH-02-D-02**	**INDUSTRIAL EST., NORTHWICH**	**CHESHIRE**
	MANCHESTER ROAD		
	WINCHAM		
	NORTHWICH		
	Edge of Town		
	Industrial Zone		
	Total Gross floor area:	22000 sqm	
9	**CW-02-D-02**	**INDUSTRIAL ESTATE, CAMBORNE**	**CORNWALL**
	DRUIDS ROAD		
	CAMBORNE		
	Edge of Town		
	Industrial Zone		
	Total Gross floor area:	6515 sqm	

LIST OF SITES relevant to selection parameters (Cont.)

10	**DH-02-D-01**	**INDUSTRIAL ESTATE,NR CONSETT**	**DURHAM**
	PARKWAY		
	ANNFIELD PLAIN		
	NEAR CONSETT		
	Free Standing (PPS6 Out of Town)		
	Out of Town		
	Total Gross floor area:	12025 sqm	
11	**DS-02-D-01**	**IND. ESTATE,SOUTH NORMANTON**	**DERBYSHIRE**
	BERRISTOW LANE		
	SOUTH NORMANTON		
	Edge of Town		
	Industrial Zone		
	Total Gross floor area:	92286 sqm	
12	**ES-02-D-05**	**IND. ESTATE, EASTBOURNE**	**EAST SUSSEX**
	COURTLANDS ROAD		
	EASTBOURNE		
	Edge of Town		
	Residential Zone		
	Total Gross floor area:	7525 sqm	
13	**EX-02-D-01**	**INDUSTRIAL ESTATE, LOUGHTON**	**ESSEX**
	OAKWOOD HILL		
	LOUGHTON		
	Edge of Town		
	Industrial Zone		
	Total Gross floor area:	27687 sqm	
14	**LC-02-D-04**	**INDUSTRIAL ESTATE, GARSTANG**	**LANCASHIRE**
	GREEN LANE WEST		
	GARSTANG		
	Edge of Town		
	Industrial Zone		
	Total Gross floor area:	4555 sqm	
15	**LN-02-D-01**	**INDUSTRIAL ESTATE, GRANTHAM**	**LINCOLNSHIRE**
	BELTON LANE		
	GRANTHAM		
	Suburban Area (PPS6 Out of Centre)		
	Residential Zone		
	Total Gross floor area:	5347 sqm	
16	**MS-02-D-05**	**INDUSTRIAL ESTATE, ST HELENS**	**MERSEYSIDE**
	BROADOAK ROAD		
	ST HELENS		
	Edge of Town		
	No Sub Category		
	Total Gross floor area:	2430 sqm	
17	**MS-02-D-06**	**INDUSTRIAL EST., LIVERPOOL**	**MERSEYSIDE**
	BOALER STREET		
	LIVERPOOL		
	Neighbourhood Centre (PPS6 Local Centre)		
	Industrial Zone		
	Total Gross floor area:	4800 sqm	
18	**NB-02-D-01**	**INDUSTRIAL ESTATE, HEXHAM**	**NORTHUMBERLAND**
	A695		
	HEXHAM		
	Edge of Town		
	Industrial Zone		
	Total Gross floor area:	10525 sqm	

LIST OF SITES relevant to selection parameters (Cont.)

19 **NT-02-D-01** **IND. ESTATE, SUTTON-IN-ASHFLD** **NOTTINGHAMSHIRE**
B6028 STONEYFORD ROAD
STANTON HILL
SUTTON-IN-ASHFIELD
Edge of Town
No Sub Category
Total Gross floor area: 26400 sqm

20 **NY-02-D-01** **INDUSTRIAL ESTATE, SHERBURN** **NORTH YORKSHIRE**
AVIATION WAY

SHERBURN IN ELMET
Free Standing (PPS6 Out of Town)
Industrial Zone
Total Gross floor area: 1197 sqm

21 **SF-02-D-01** **INDUSTRIAL ESTATE, IPSWICH** **SUFFOLK**
RAPIER STREET
STOKE
IPSWICH
Suburban Area (PPS6 Out of Centre)
Industrial Zone
Total Gross floor area: 17500 sqm

22 **SF-02-D-02** **INDUSTRIAL ESTATE, IPSWICH** **SUFFOLK**
HADLEIGH ROAD
WESTBOURNE
IPSWICH
Suburban Area (PPS6 Out of Centre)
Built-Up Zone
Total Gross floor area: 102000 sqm

23 **TW-02-D-06** **INDUSTRIAL ESTATE, N. SHIELDS** **TYNE & WEAR**
NORHAM ROAD
WEST CHIRTON
NORTH SHIELDS
Suburban Area (PPS6 Out of Centre)
Industrial Zone
Total Gross floor area: 23000 sqm

24 **WL-02-D-01** **IND. ESTATE, WOOTTON BASSETT** **WILTSHIRE**
MARLBOROUGH ROAD

WOOTTON BASSETT
Edge of Town
Industrial Zone
Total Gross floor area: 7050 sqm

25 **WS-02-D-04** **IND. ESTATE, NEAR PULBOROUGH** **WEST SUSSEX**
BROOK LANE
GREATHAM BRIDGE
NEAR PULBOROUGH
Free Standing (PPS6 Out of Town)
Out of Town
Total Gross floor area: 1216 sqm

26 **WS-02-D-05** **IND. ESTATE, NR BURGESS HILL** **WEST SUSSEX**
STAIRBRIDGE LANE

NEAR BURGESS HILL
Free Standing (PPS6 Out of Town)
Out of Town
Total Gross floor area: 5858 sqm

27 **WY-02-D-01** **INDUSTRIAL ESTATE, LEEDS** **WEST YORKSHIRE**
PARK HOUSE WEST

LEEDS
Edge of Town Centre
Built-Up Zone
Total Gross floor area: 4225 sqm

LIST OF SITES relevant to selection parameters (Cont.)

28 **WY-02-D-02** **INDUSTRIAL EST., HUDDERSFIELD** **WEST YORKSHIRE**
A629 WAKEFIELD ROAD
TANDEM
HUDDERSFIELD
Edge of Town
No Sub Category
Total Gross floor area: 20824 sqm

RANK ORDER for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

VEHICLES

Ranking Type: **TOTALS** Time Range: 08:00-09:00

15th Percentile = No. **24 (**)**

85th Percentile = No. **5 (**)**

Median Values

Arrivals: 0.619

Departures: 0.261

Totals: 0.880

Rank	Site-Ref	Description	Area	GFA	Day	Date	Trip Rate (Sorted by Totals) Arrivals	Departures	Totals	Travel Plan
1	NY-02-D-01	INDUSTRIAL ESTATE, SHERB	NORTH YORKSHIRE	1197	Tue	19/04/05	2.005	1.003	3.008	
2	NB-02-D-01	INDUSTRIAL ESTATE, HEXHA	NORTHUMBERLAND	10525	Mon	23/05/05	1.511	0.903	2.414	
3	CA-02-D-03	IND. ESTATE, PETERBOROUG	CAMBRIDGESHIRE	4425	Thu	22/10/09	1.288	0.520	1.808	
4	CA-02-D-02	IND. ESTATE, CAMBRIDGE	CAMBRIDGESHIRE	2063	Mon	19/10/09	0.921	0.873	1.794	
5 **	**WL-02-D-01**	**IND. ESTATE, WOOTTON BAS**	**WILTSHIRE**	**7050**	**Tue**	**03/10/06**	**1.234**	**0.553**	**1.787**	
6	WS-02-D-05	IND. ESTATE, NR BURGESS	WEST SUSSEX	5858	Wed	24/09/03	1.314	0.393	1.707	
7	BR-02-D-03	INDUSTRIAL ESTATE, BRIST	BRISTOL CITY	6000	Tue	20/10/09	1.300	0.350	1.650	
8	MS-02-D-06	INDUSTRIAL EST., LIVERPO	MERSEYSIDE	4800	Thu	09/09/10	0.813	0.667	1.479	
9	ES-02-D-05	IND. ESTATE, EASTBOURNE	EAST SUSSEX	7525	Mon	30/11/09	0.837	0.372	1.209	
10	BR-02-D-02	INDUSTRIAL ESTATE, BRIST	BRISTOL CITY	6000	Thu	19/11/09	0.833	0.233	1.066	
11	LC-02-D-04	INDUSTRIAL ESTATE, GARST	LANCASHIRE	4555	Fri	16/06/06	0.549	0.461	1.010	
12	CW-02-D-02	INDUSTRIAL ESTATE, CAMBO	CORNWALL	6515	Fri	21/09/07	0.660	0.322	0.982	
13	CA-02-D-01	IND. ESTATE, PETERBOROUG	CAMBRIDGESHIRE	4300	Tue	13/05/08	0.535	0.442	0.977	
14	CH-02-D-02	INDUSTRIAL EST., NORTHWI	CHESHIRE	22000	Fri	15/06/07	0.677	0.223	0.900	
15	LN-02-D-01	INDUSTRIAL ESTATE, GRANT	LINCOLNSHIRE	5347	Thu	12/05/05	0.561	0.299	0.860	
16	EX-02-D-01	INDUSTRIAL ESTATE, LOUGH	ESSEX	27687	Thu	22/11/07	0.650	0.116	0.766	
17	WY-02-D-01	INDUSTRIAL ESTATE, LEEDS	WEST YORKSHIRE	4225	Tue	19/04/05	0.544	0.189	0.733	
18	DH-02-D-01	INDUSTRIAL ESTATE,NR CON	DURHAM	12025	Wed	27/04/05	0.491	0.125	0.616	
19	WS-02-D-04	IND. ESTATE, NEAR PULBOR	WEST SUSSEX	1216	Wed	02/10/02	0.411	0.164	0.575	
20	CB-02-D-03	INDUSTRIAL ESTATE, BRAMP	CUMBRIA	13700	Thu	23/06/05	0.409	0.161	0.570	
21	CB-02-D-04	INDUSTRIAL ESTATE, BRAMP	CUMBRIA	17708	Wed	16/12/09	0.367	0.203	0.570	
22	SF-02-D-01	INDUSTRIAL ESTATE, IPSWI	SUFFOLK	17500	Mon	28/07/03	0.366	0.171	0.537	
23	SF-02-D-02	INDUSTRIAL ESTATE, IPSWI	SUFFOLK	102000	Tue	22/05/07	0.309	0.184	0.493	
24 **	**NT-02-D-01**	**IND. ESTATE, SUTTON-IN-A**	**NOTTINGHAMSHIRE**	**26400**	**Fri**	**30/06/06**	**0.295**	**0.163**	**0.458**	
25	TW-02-D-06	INDUSTRIAL ESTATE, N. SH	TYNE & WEAR	23000	Thu	19/10/06	0.252	0.191	0.443	
26	DS-02-D-01	IND. ESTATE,SOUTH NORMAN	DERBYSHIRE	92286	Tue	15/06/04	0.218	0.094	0.312	
27	MS-02-D-05	INDUSTRIAL ESTATE, ST HE	MERSEYSIDE	2430	Tue	18/10/05	0.165	0.123	0.288	
28	WY-02-D-02	INDUSTRIAL EST., HUDDERS	WEST YORKSHIRE	20824	Mon	11/09/06	0.221	0.048	0.269	

RANK ORDER for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

VEHICLES

Ranking Type: **TOTALS** Time Range: 16:30-17:30

15th Percentile = No. **24 (**)**

85th Percentile = No. **5 (**)**

Median Values

Arrivals: 0.252

Departures: 0.717

Totals: 0.968

Rank	Site-Ref	Description	Area	GFA	Day	Date	Trip Rate (Sorted by Totals) Arrivals	Departures	Totals	Travel Plan
1	NY-02-D-01	INDUSTRIAL ESTATE, SHERB	NORTH YORKSHIRE	1197	Tue	19/04/05	0.668	1.420	2.088	
2	NB-02-D-01	INDUSTRIAL ESTATE, HEXHA	NORTHUMBERLAND	10525	Mon	23/05/05	0.675	1.321	1.996	
3	CA-02-D-02	IND. ESTATE, CAMBRIDGE	CAMBRIDGESHIRE	2063	Mon	19/10/09	0.388	1.454	1.842	
4	CA-02-D-03	IND. ESTATE, PETERBOROUG	CAMBRIDGESHIRE	4425	Thu	22/10/09	0.497	1.333	1.830	
5 **	**WS-02-D-05**	**IND. ESTATE, NR BURGESS**	**WEST SUSSEX**	**5858**	**Wed**	**24/09/03**	**0.427**	**1.093**	**1.520**	
6	WL-02-D-01	IND. ESTATE, WOOTTON BAS	WILTSHIRE	7050	Tue	03/10/06	0.284	1.121	1.405	
7	CW-02-D-02	INDUSTRIAL ESTATE, CAMBO	CORNWALL	6515	Fri	21/09/07	0.599	0.767	1.366	
8	LN-02-D-01	INDUSTRIAL ESTATE, GRANT	LINCOLNSHIRE	5347	Thu	12/05/05	0.636	0.655	1.291	
9	CA-02-D-01	IND. ESTATE, PETERBOROUG	CAMBRIDGESHIRE	4300	Tue	13/05/08	0.558	0.674	1.232	
10	LC-02-D-04	INDUSTRIAL ESTATE, GARST	LANCASHIRE	4555	Fri	16/06/06	0.395	0.812	1.207	
11	WY-02-D-01	INDUSTRIAL ESTATE, LEEDS	WEST YORKSHIRE	4225	Tue	19/04/05	0.260	0.947	1.207	
12	EX-02-D-01	INDUSTRIAL ESTATE, LOUGH	ESSEX	27687	Thu	22/11/07	0.144	0.968	1.112	
13	BR-02-D-03	INDUSTRIAL ESTATE, BRIST	BRISTOL CITY	6000	Tue	20/10/09	0.200	0.867	1.067	
14	DH-02-D-01	INDUSTRIAL ESTATE,NR CON	DURHAM	12025	Wed	27/04/05	0.225	0.782	1.007	
15	ES-02-D-05	IND. ESTATE, EASTBOURNE	EAST SUSSEX	7525	Mon	30/11/09	0.279	0.651	0.930	
16	MS-02-D-05	INDUSTRIAL ESTATE, ST HE	MERSEYSIDE	2430	Tue	18/10/05	0.453	0.453	0.906	
17	BR-02-D-02	INDUSTRIAL ESTATE, BRIST	BRISTOL CITY	6000	Thu	19/11/09	0.150	0.683	0.833	
18	CH-02-D-02	INDUSTRIAL EST., NORTHWI	CHESHIRE	22000	Fri	15/06/07	0.168	0.527	0.695	
19	SF-02-D-01	INDUSTRIAL ESTATE, IPSWI	SUFFOLK	17500	Mon	28/07/03	0.143	0.429	0.572	
20	CB-02-D-03	INDUSTRIAL ESTATE, BRAMP	CUMBRIA	13700	Thu	23/06/05	0.197	0.328	0.525	
21	CB-02-D-04	INDUSTRIAL ESTATE, BRAMP	CUMBRIA	17708	Wed	16/12/09	0.158	0.344	0.502	
22	WS-02-D-04	IND. ESTATE, NEAR PULBOR	WEST SUSSEX	1216	Wed	02/10/02	0.082	0.411	0.493	
23	TW-02-D-06	INDUSTRIAL ESTATE, N. SH	TYNE & WEAR	23000	Thu	19/10/06	0.143	0.326	0.469	
24 **	**MS-02-D-06**	**INDUSTRIAL EST., LIVERPO**	**MERSEYSIDE**	**4800**	**Thu**	**09/09/10**	**0.104**	**0.354**	**0.458**	
25	WY-02-D-02	INDUSTRIAL EST., HUDDERS	WEST YORKSHIRE	20824	Mon	11/09/06	0.125	0.327	0.452	
26	SF-02-D-02	INDUSTRIAL ESTATE, IPSWI	SUFFOLK	102000	Tue	22/05/07	0.151	0.269	0.420	
27	NT-02-D-01	IND. ESTATE, SUTTON-IN-A	NOTTINGHAMSHIRE	26400	Fri	30/06/06	0.110	0.223	0.333	
28	DS-02-D-01	IND. ESTATE,SOUTH NORMAN	DERBYSHIRE	92286	Tue	15/06/04	0.083	0.229	0.312	

TRIP RATE CALCULATION *SELECTION PARAMETERS:*

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

Selected regions and areas:

02	**SOUTH EAST**		
	BD	BEDFORDSHIRE	2 days
	EX	ESSEX	1 days
	HF	HERTFORDSHIRE	1 days
	SC	SURREY	2 days
03	**SOUTH WEST**		
	CW	CORNWALL	2 days
	DC	DORSET	1 days
	GS	GLOUCESTERSHIRE	1 days
	WL	WILTSHIRE	1 days
04	**EAST ANGLIA**		
	CA	CAMBRIDGESHIRE	1 days
	SF	SUFFOLK	3 days
05	**EAST MIDLANDS**		
	DS	DERBYSHIRE	1 days
	LE	LEICESTERSHIRE	1 days
	LN	LINCOLNSHIRE	2 days
	NT	NOTTINGHAMSHIRE	1 days
06	**WEST MIDLANDS**		
	SH	SHROPSHIRE	2 days
	ST	STAFFORDSHIRE	1 days
	WM	WEST MIDLANDS	3 days
	WO	WORCESTERSHIRE	6 days
07	**YORKSHIRE & NORTH LINCOLNSHIRE**		
	NY	NORTH YORKSHIRE	3 days
08	**NORTH WEST**		
	CH	CHESHIRE	3 days
	LC	LANCASHIRE	2 days
	MS	MERSEYSIDE	1 days
09	**NORTH**		
	CB	CUMBRIA	3 days
	TV	TEES VALLEY	1 days
	TW	TYNE & WEAR	1 days
10	**WALES**		
	CF	CARDIFF	3 days
	CP	CAERPHILLY	1 days
	WR	WREXHAM	1 days

Filtering Stage 2 selection:

Parameter: Number of dwellings
Range: 10 to 792 (units:)

Public Transport Provision:
Selection by: Include all surveys

Date Range: 01/01/02 to 05/09/10

Selected survey days:

Monday	10 days
Tuesday	13 days
Wednesday	7 days
Thursday	14 days
Friday	7 days

Selected survey types:

Manual count	51 days
Directional ATC Count	0 days

Selected Locations:

Edge of Town Centre	4
Suburban Area (PPS6 Out of Centre)	20
Edge of Town	24
Neighbourhood Centre (PPS6 Local Centre)	3

Selected Location Sub Categories:

Residential Zone	36
Village	1
Out of Town	1
No Sub Category	13

LIST OF SITES relevant to selection parameters

1 **BD-03-A-01** **SEMI DETACHED, LUTON** **BEDFORDSHIRE**
NEW BEDFORD ROAD

LUTON
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 131

2 **BD-03-A-02** **SEMI DETACHED, LUTON** **BEDFORDSHIRE**
RIDDY LANE

LUTON
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 82

3 **CA-03-A-02** **MIXED HOUSES, PETERBOROUGH** **CAMBRIDGESHIRE**
THORPE ROAD

PETERBOROUGH
Edge of Town Centre
Residential Zone
Total Number of dwellings: 363

4 **CB-03-A-02** **SEMI DETACHED, WORKINGTON** **CUMBRIA**
HAWKSHEAD AVENUE

WORKINGTON
Edge of Town
Residential Zone
Total Number of dwellings: 40

5 **CB-03-A-03** **SEMI DETACHED, WORKINGTON** **CUMBRIA**
HAWKSHEAD AVENUE

WORKINGTON
Edge of Town
Residential Zone
Total Number of dwellings: 40

6 **CB-03-A-04** **SEMI DETACHED, WORKINGTON** **CUMBRIA**
MOORCLOSE ROAD
SALTERBACK
WORKINGTON
Edge of Town
No Sub Category
Total Number of dwellings: 82

7 **CF-03-A-01** **MIXED HOUSES, CARDIFF** **CARDIFF**
VIRGIL STREET
NINIAN PARK
CARDIFF
Suburban Area (PPS6 Out of Centre)
No Sub Category
Total Number of dwellings: 222

8 **CF-03-A-02** **MIXED HOUSES, CARDIFF** **CARDIFF**
DROPE ROAD

CARDIFF
Edge of Town
Residential Zone
Total Number of dwellings: 196

9 **CF-03-A-03** **DETACHED, CARDIFF** **CARDIFF**
LLANTRISANT ROAD

CARDIFF
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 29

LIST OF SITES relevant to selection parameters (Cont.)

10 **CH-03-A-02** **HOUSES/FLATS, CREWE** **CHESHIRE**
SYDNEY ROAD

CREWE
Edge of Town
Residential Zone
Total Number of dwellings: 174

11 **CH-03-A-05** **DETACHED, CREWE** **CHESHIRE**
SYDNEY ROAD
SYDNEY
CREWE
Edge of Town
Residential Zone
Total Number of dwellings: 17

12 **CH-03-A-06** **SEMI-DET./BUNGALOWS,CREWE** **CHESHIRE**
CREWE ROAD

CREWE
Suburban Area (PPS6 Out of Centre)
No Sub Category
Total Number of dwellings: 129

13 **CP-03-A-02** **SEMI DETACHED, PENGAM** **CAERPHILLY**
THE RISE

PENGAM
Suburban Area (PPS6 Out of Centre)
No Sub Category
Total Number of dwellings: 41

14 **CW-03-A-01** **TERRACED, PENZANCE** **CORNWALL**
ALVERTON ROAD

PENZANCE
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 13

15 **CW-03-A-02** **SEMI D./DETATCHED, TRURO** **CORNWALL**
BOSVEAN GARDENS

TRURO
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 73

16 **DC-03-A-01** **DETACHED, POOLE** **DORSET**
ISAACS CLOSE

POOLE
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 51

17 **DS-03-A-01** **SEMI D./TERRACED, DRONFIELD** **DERBYSHIRE**
THE AVENUE
HOLMESDALE
DRONFIELD
Neighbourhood Centre (PPS6 Local Centre)
Residential Zone
Total Number of dwellings: 20

18 **EX-03-A-01** **SEMI-DET., STANFORD-LE-HOPE** **ESSEX**
MILTON ROAD
CORRINGHAM
STANFORD-LE-HOPE
Edge of Town
Residential Zone
Total Number of dwellings: 237

LIST OF SITES relevant to selection parameters (Cont.)

19 **GS-03-A-01** **SEMI D./TERRACED, GLOUCESTER** **GLOUCESTERSHIRE**
KINGSHOLM ROAD
KINGSHOLM
GLOUCESTER
Edge of Town Centre
No Sub Category
Total Number of dwellings: 73

20 **HF-03-A-01** **MIXED HOUSES, WELWYN GC** **HERTFORDSHIRE**
LONGCROFT LANE

WELWYN GARDEN CITY
Edge of Town Centre
Residential Zone
Total Number of dwellings: 53

21 **LC-03-A-22** **BUNGALOWS, BLACKPOOL** **LANCASHIRE**
CLIFTON DRIVE NORTH

BLACKPOOL
Edge of Town
Residential Zone
Total Number of dwellings: 98

22 **LC-03-A-29** **DETACHED/SEMI D., BLACKBURN** **LANCASHIRE**
REVIDGE ROAD
FOUR LANE ENDS
BLACKBURN
Edge of Town
Residential Zone
Total Number of dwellings: 185

23 **LE-03-A-01** **DETACHED, MELTON MOWBRAY** **LEICESTERSHIRE**
REDWOOD AVENUE

MELTON MOWBRAY
Edge of Town
Residential Zone
Total Number of dwellings: 11

24 **LN-03-A-01** **MIXED HOUSES, LINCOLN** **LINCOLNSHIRE**
BRANT ROAD
BRACEBRIDGE
LINCOLN
Edge of Town
Residential Zone
Total Number of dwellings: 150

25 **LN-03-A-02** **MIXED HOUSES, LINCOLN** **LINCOLNSHIRE**
HYKEHAM ROAD

LINCOLN
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 186

26 **MS-03-A-01** **TERRACED, RUNCORN** **MERSEYSIDE**
PALACE FIELDS AVENUE

RUNCORN
Neighbourhood Centre (PPS6 Local Centre)
Residential Zone
Total Number of dwellings: 372

27 **NT-03-A-03** **SEMI DETACHED, KIRKBY-IN-ASHFD** **NOTTINGHAMSHIRE**
B6018 SUTTON ROAD

KIRKBY-IN-ASHFIELD
Edge of Town
Residential Zone
Total Number of dwellings: 166

LIST OF SITES relevant to selection parameters (Cont.)

28 **NY-03-A-01** **MIXED HOUSES, NORTHALLERTON** **NORTH YORKSHIRE**
GRAMMAR SCHOOL LANE

NORTHALLERTON
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 52

29 **NY-03-A-03** **PRIVATE HOUSING, BOROUGHBRIDGE** **NORTH YORKSHIRE**
NEW ROW

BOROUGHBRIDGE
Edge of Town Centre
Residential Zone
Total Number of dwellings: 14

30 **NY-03-A-05** **HOUSES AND FLATS, RIPON** **NORTH YORKSHIRE**
BOROUGHBRIDGE ROAD

RIPON
Edge of Town
No Sub Category
Total Number of dwellings: 71

31 **SC-03-A-03** **DETACHED, EAST MOLESEY** **SURREY**
A3050 HURST ROAD
HURST PARK
EAST MOLESEY
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 54

32 **SC-03-A-04** **HOUSES & FLATS, NEAR FRIMLEY** **SURREY**
DEEPCUT BRIDGE ROAD
DEEPCUT
NEAR FRIMLEY
Neighbourhood Centre (PPS6 Local Centre)
Village
Total Number of dwellings: 288

33 **SF-03-A-01** **SEMI DETACHED, IPSWICH** **SUFFOLK**
A1156 FELIXSTOWE ROAD
RACECOURSE
IPSWICH
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 77

34 **SF-03-A-02** **SEMI DET./TERRACED, IPSWICH** **SUFFOLK**
STOKE PARK DRIVE
MAIDENHALL
IPSWICH
Edge of Town
Residential Zone
Total Number of dwellings: 230

35 **SF-03-A-03** **MIXED HOUSES, BURY ST EDMDS** **SUFFOLK**
BARTON HILL
FORNHAM ST MARTIN
BURY ST EDMUNDS
Edge of Town
Out of Town
Total Number of dwellings: 101

36 **SH-03-A-03** **DETATCHED, SHREWSBURY** **SHROPSHIRE**
SOMERBY DRIVE
BICTON HEATH
SHREWSBURY
Edge of Town
No Sub Category
Total Number of dwellings: 10

LIST OF SITES relevant to selection parameters (Cont.)

37 **SH-03-A-04** **TERRACED, SHREWSBURY** **SHROPSHIRE**
ST MICHAEL'S STREET

SHREWSBURY
Suburban Area (PPS6 Out of Centre)
No Sub Category
Total Number of dwellings: 108

38 **ST-03-A-05** **TERRACED/DETACHED, STOKE** **STAFFORDSHIRE**
WATERMEET GROVE
ETRURIA
STOKE-ON-TRENT
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 14

39 **TV-03-A-01** **MIXED HOUSES/FLATS, HARTLEPL** **TEES VALLEY**
POWLETT ROAD

HARTLEPOOL
Suburban Area (PPS6 Out of Centre)
No Sub Category
Total Number of dwellings: 225

40 **TW-03-A-01** **SEMI DETACHED, SUNDERLAND** **TYNE & WEAR**
LEECHMERE ROAD
HILLVIEW
SUNDERLAND
Edge of Town
Residential Zone
Total Number of dwellings: 81

41 **WL-03-A-01** **SEMI D./TERRACED W. BASSETT** **WILTSHIRE**
MAPLE DRIVE

WOOTTON BASSETT
Edge of Town
Residential Zone
Total Number of dwellings: 99

42 **WM-03-A-01** **TERRACED, COVENTRY** **WEST MIDLANDS**
FOLESHILL ROAD
FOLESHILL
COVENTRY
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 79

43 **WM-03-A-02** **DETACHED/SEMI D., STRBRIDGE** **WEST MIDLANDS**
HEATH STREET

STOURBRIDGE
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 12

44 **WM-03-A-03** **MIXED HOUSING, COVENTRY** **WEST MIDLANDS**
BASELEY WAY
ROWLEYS GREEN
COVENTRY
Edge of Town
Residential Zone
Total Number of dwellings: 84

45 **WO-03-A-01** **DETACHED, BROMSGROVE** **WORCESTERSHIRE**
MARLBOROUGH AVENUE
ASTON FIELDS
BROMSGROVE
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 10

LIST OF SITES relevant to selection parameters (Cont.)

46 **WO-03-A-02** **SEMI DETACHED, REDDITCH** **WORCESTERSHIRE**
MEADOWHILL ROAD

REDDITCH
Edge of Town
No Sub Category
Total Number of dwellings: 48

47 **WO-03-A-03** **DETACHED, KIDDERMINSTER** **WORCESTERSHIRE**
BLAKEBROOK
BLAKEBROOK
KIDDERMINSTER
Suburban Area (PPS6 Out of Centre)
Residential Zone
Total Number of dwellings: 138

48 **WO-03-A-04** **MIXED HOUSES, WORCESTER** **WORCESTERSHIRE**
MALVERN ROAD

WORCESTER
Edge of Town
Residential Zone
Total Number of dwellings: 792

49 **WO-03-A-05** **TERRACED/DET., BROMSGROVE** **WORCESTERSHIRE**
ST GODWALDS ROAD
ASTON FIELDS
BROMSGROVE
Edge of Town
No Sub Category
Total Number of dwellings: 215

50 **WO-03-A-06** **DET./TERRACED, BROMSGROVE** **WORCESTERSHIRE**
ST GODWALDS ROAD
ASTON FIELDS
BROMSGROVE
Edge of Town
No Sub Category
Total Number of dwellings: 232

51 **WR-03-A-01** **SEMI DETACHED, WREXHAM** **WREXHAM**
MOLD ROAD
RHOSDDU
WREXHAM
Edge of Town
No Sub Category
Total Number of dwellings: 82

RANK ORDER for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

VEHICLES

Ranking Type: **TOTALS** Time Range: 08:00-09:00

15th Percentile = No. **43 (**)**

85th Percentile = No. **9 (**)**

Median Values

Arrivals: 0.145

Departures: 0.420

Totals: 0.565

Rank	Site-Ref	Description	Area	DWELLS	Day	Date	Trip Rate (Sorted by Totals) Arrivals	Departures	Totals	Travel Plan
1	WO-03-A-01	DETACHED, BROMSGROVE	WORCESTERSHIRE	10	Thu	23/06/05	0.500	0.600	1.100	
2	BD-03-A-02	SEMI DETACHED, LUTON	BEDFORDSHIRE	82	Tue	06/07/04	0.317	0.537	0.854	
3	CH-03-A-05	DETACHED, CREWE	CHESHIRE	17	Tue	14/10/08	0.235	0.588	0.823	
4	WO-03-A-03	DETACHED, KIDDERMINSTER	WORCESTERSHIRE	138	Fri	05/05/06	0.203	0.543	0.746	
5	SH-03-A-04	TERRACED, SHREWSBURY	SHROPSHIRE	108	Thu	11/06/09	0.287	0.454	0.741	
6	TW-03-A-01	SEMI DETACHED, SUNDERLAN	TYNE & WEAR	81	Wed	18/09/02	0.235	0.506	0.741	
7	SF-03-A-02	SEMI DET./TERRACED, IPSW	SUFFOLK	230	Thu	24/05/07	0.243	0.491	0.734	
8	SC-03-A-04	HOUSES & FLATS,NEAR FRIM	SURREY	288	Wed	10/02/10	0.156	0.576	0.732	
9 **	**WM-03-A-03**	**MIXED HOUSING, COVENTRY**	**WEST MIDLANDS**	**84**	**Mon**	**24/09/07**	**0.321**	**0.405**	**0.726**	
10	SH-03-A-03	DETATCHED, SHREWSBURY	SHROPSHIRE	10	Fri	26/06/09	0.200	0.500	0.700	
11	EX-03-A-01	SEMI-DET., STANFORD-LE-H	ESSEX	237	Tue	13/05/08	0.177	0.523	0.700	
12	CB-03-A-03	SEMI DETACHED, WORKINGTO	CUMBRIA	40	Thu	20/11/08	0.225	0.450	0.675	
13	SF-03-A-03	MIXED HOUSES, BURY ST ED	SUFFOLK	101	Mon	15/05/06	0.109	0.554	0.663	
14	CF-03-A-01	MIXED HOUSES, CARDIFF	CARDIFF	222	Thu	17/10/02	0.167	0.491	0.658	
15	WO-03-A-05	TERRACED/DET., BROMSGROV	WORCESTERSHIRE	215	Thu	23/05/02	0.140	0.516	0.656	
16	LC-03-A-29	DETACHED/SEMI D., BLACKB	LANCASHIRE	185	Thu	10/06/04	0.130	0.524	0.654	
17	ST-03-A-05	TERRACED/DETACHED, STOKE	STAFFORDSHIRE	14	Wed	26/11/08	0.143	0.500	0.643	
18	LN-03-A-01	MIXED HOUSES, LINCOLN	LINCOLNSHIRE	150	Tue	15/05/07	0.187	0.440	0.627	
19	CF-03-A-03	DETACHED, CARDIFF	CARDIFF	29	Mon	08/10/07	0.069	0.552	0.621	
20	CW-03-A-01	TERRACED, PENZANCE	CORNWALL	13	Thu	30/06/05	0.385	0.231	0.616	
21	CP-03-A-02	SEMI DETACHED, PENGAM	CAERPHILLY	41	Mon	05/09/05	0.195	0.415	0.610	
22	LN-03-A-02	MIXED HOUSES, LINCOLN	LINCOLNSHIRE	186	Mon	14/05/07	0.183	0.425	0.608	
23	TV-03-A-01	MIXED HOUSES/FLATS, HART	TEES VALLEY	225	Thu	14/04/05	0.138	0.458	0.596	
24	NY-03-A-05	HOUSES AND FLATS, RIPON	NORTH YORKSHIRE	71	Mon	22/09/08	0.113	0.465	0.578	
25	WM-03-A-01	TERRACED, COVENTRY	WEST MIDLANDS	79	Fri	03/02/06	0.152	0.418	0.570	
26	BD-03-A-01	SEMI DETACHED, LUTON	BEDFORDSHIRE	131	Thu	08/07/04	0.145	0.420	0.565	
27	CB-03-A-04	SEMI DETACHED, WORKINGTO	CUMBRIA	82	Fri	24/04/09	0.183	0.366	0.549	
28	WO-03-A-06	DET./TERRACED, BROMSGROV	WORCESTERSHIRE	232	Thu	30/06/05	0.099	0.448	0.547	
29	CA-03-A-02	MIXED HOUSES, PETERBOROU	CAMBRIDGESHIRE	363	Thu	13/05/04	0.201	0.339	0.540	
30	SC-03-A-03	DETACHED, EAST MOLESEY	SURREY	54	Tue	12/11/02	0.148	0.389	0.537	
31	CF-03-A-02	MIXED HOUSES, CARDIFF	CARDIFF	196	Fri	05/10/07	0.107	0.413	0.520	
32	SF-03-A-01	SEMI DETACHED, IPSWICH	SUFFOLK	77	Wed	23/05/07	0.104	0.416	0.520	
33	LC-03-A-22	BUNGALOWS, BLACKPOOL	LANCASHIRE	98	Tue	18/10/05	0.173	0.337	0.510	
34	WO-03-A-04	MIXED HOUSES, WORCESTER	WORCESTERSHIRE	792	Fri	24/05/02	0.120	0.388	0.508	

RANK ORDER for Land Use 03 - RESIDENTIAL/A - HOUSES PRIVATELY OWNED

VEHICLES

Ranking Type: **TOTALS** Time Range: 17:00-18:00

15th Percentile = No. **43 (**)**

85th Percentile = No. **9 (**)**

Median Values

Arrivals: 0.398

Departures: 0.214

Totals: 0.612

Rank	Site-Ref	Description	Area	DWELLS	Day	Date	Trip Rate (Sorted by Totals) Arrivals	Departures	Totals	Travel Plan
1	SH-03-A-03	DETATCHED, SHREWSBURY	SHROPSHIRE	10	Fri	26/06/09	0.700	0.600	1.300	
2	WO-03-A-01	DETACHED, BROMSGROVE	WORCESTERSHIRE	10	Thu	23/06/05	0.500	0.600	1.100	
3	CB-03-A-02	SEMI DETACHED, WORKINGTO	CUMBRIA	40	Mon	20/06/05	0.525	0.400	0.925	
4	LC-03-A-29	DETACHED/SEMI D., BLACKB	LANCASHIRE	185	Thu	10/06/04	0.551	0.346	0.897	
5	WO-03-A-03	DETACHED, KIDDERMINSTER	WORCESTERSHIRE	138	Fri	05/05/06	0.558	0.319	0.877	
6	LN-03-A-02	MIXED HOUSES, LINCOLN	LINCOLNSHIRE	186	Mon	14/05/07	0.495	0.355	0.850	
7	DC-03-A-01	DETACHED, POOLE	DORSET	51	Wed	16/07/08	0.510	0.333	0.843	
8	TW-03-A-01	SEMI DETACHED, SUNDERLAN	TYNE & WEAR	81	Wed	18/09/02	0.519	0.259	0.778	
9 **	**WM-03-A-03**	**MIXED HOUSING, COVENTRY**	**WEST MIDLANDS**	**84**	**Mon**	**24/09/07**	**0.405**	**0.369**	**0.774**	
10	CH-03-A-05	DETACHED, CREWE	CHESHIRE	17	Tue	14/10/08	0.353	0.412	0.765	
11	SH-03-A-04	TERRACED, SHREWSBURY	SHROPSHIRE	108	Thu	11/06/09	0.463	0.296	0.759	
12	SF-03-A-03	MIXED HOUSES, BURY ST ED	SUFFOLK	101	Mon	15/05/06	0.525	0.228	0.753	
13	SF-03-A-02	SEMI DET./TERRACED, IPSW	SUFFOLK	230	Thu	24/05/07	0.478	0.248	0.726	
14	CB-03-A-03	SEMI DETACHED, WORKINGTO	CUMBRIA	40	Thu	20/11/08	0.475	0.250	0.725	
15	EX-03-A-01	SEMI-DET., STANFORD-LE-H	ESSEX	237	Tue	13/05/08	0.439	0.274	0.713	
16	NT-03-A-03	SEMI DETACHED,KIRKBY-IN-	NOTTINGHAMSHIRE	166	Wed	28/06/06	0.398	0.307	0.705	
17	CF-03-A-01	MIXED HOUSES, CARDIFF	CARDIFF	222	Thu	17/10/02	0.509	0.185	0.694	
18	WO-03-A-05	TERRACED/DET., BROMSGROV	WORCESTERSHIRE	215	Thu	23/05/02	0.474	0.214	0.688	
19	WO-03-A-02	SEMI DETACHED, REDDITCH	WORCESTERSHIRE	48	Tue	02/05/06	0.458	0.229	0.687	
20	CP-03-A-02	SEMI DETACHED, PENGAM	CAERPHILLY	41	Mon	05/09/05	0.341	0.317	0.658	
21	CF-03-A-03	DETACHED, CARDIFF	CARDIFF	29	Mon	08/10/07	0.414	0.241	0.655	
22	CW-03-A-02	SEMI D./DETATCHED, TRURO	CORNWALL	73	Tue	18/09/07	0.425	0.219	0.644	
23	LN-03-A-01	MIXED HOUSES, LINCOLN	LINCOLNSHIRE	150	Tue	15/05/07	0.413	0.213	0.626	
24	SC-03-A-04	HOUSES & FLATS,NEAR FRIM	SURREY	288	Wed	10/02/10	0.410	0.215	0.625	
25	TV-03-A-01	MIXED HOUSES/FLATS, HART	TEES VALLEY	225	Thu	14/04/05	0.409	0.209	0.618	
26	CF-03-A-02	MIXED HOUSES, CARDIFF	CARDIFF	196	Fri	05/10/07	0.398	0.214	0.612	
27	NY-03-A-05	HOUSES AND FLATS, RIPON	NORTH YORKSHIRE	71	Mon	22/09/08	0.437	0.169	0.606	
28	WO-03-A-06	DET./TERRACED, BROMSGROV	WORCESTERSHIRE	232	Thu	30/06/05	0.414	0.185	0.599	
29	WO-03-A-04	MIXED HOUSES, WORCESTER	WORCESTERSHIRE	792	Fri	24/05/02	0.374	0.197	0.571	
30	CB-03-A-04	SEMI DETACHED, WORKINGTO	CUMBRIA	82	Fri	24/04/09	0.354	0.207	0.561	
31	CH-03-A-02	HOUSES/FLATS, CREWE	CHESHIRE	174	Tue	14/10/08	0.322	0.236	0.558	
32	GS-03-A-01	SEMI D./TERRACED, GLOUCE	GLOUCESTERSHIRE	73	Tue	25/05/04	0.411	0.137	0.548	
33	WM-03-A-01	TERRACED, COVENTRY	WEST MIDLANDS	79	Fri	03/02/06	0.342	0.203	0.545	
34	BD-03-A-01	SEMI DETACHED, LUTON	BEDFORDSHIRE	131	Thu	08/07/04	0.351	0.183	0.534	