Matter 2: Housing Strategy

HEARING SESSION 2: OPENING, PLAN PREPARATION AND STRATEGIC FRAMEWORK

Wednesday 10th June 2026 (from 9am)

Prepared on behalf of Persimmon Homes (East Wales)

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PREPARED FOR

Persimmon

savills

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Document History

Issue	Date	Issued by	Comment
1.0	07/05/26	LS	Initial draft
2.0	11/05/26	TG	For review
3.0	13/05/26	KH	Final for submission

1. Introduction/Background

1.1 Savills is instructed by Persimmon Homes (East Wales) ('Persimmon') to submit a Statement in respect of Matter 2: Housing Strategy. It asks the question: *Will the brownfield-first approach, only carrying over greenfield allocations, deliver?*

1.2 This Matter Statement should be read in conjunction with previous responses prepared by Savills and Persimmon. These include:

- Cardiff Council Local Replacement Local Development Plan - Call for Sites. Land at Bridge Road, Old St Mellons (Savills, August 2021);
- Replacement Local Development Plan – Strategic Options Consultation (Savills, February 2022);
- Replacement Local Development Plan – Preferred Strategy and Stage 1 Candidate Site Assessment Consultation (Savills, October 2023); and
- Cardiff Council Replacement Local Development Plan 2021–2036 Deposit Plan (Savills, April 2025).

1.3 Savills and Persimmon will answer the questions most relevant to their representations.

2. Strategic Questions

Do the figures attributed to the allocations and assumed windfalls take account of plan requirements such as, open space, play areas, allotments, food growing space, SuDs, 3:1 tree replacement, energy efficiency, securing good quality and sustainable design?

2.1 No Comment

Do the figures attributed to the allocations and assumed windfalls take account of viability, particularly on brownfield sites which may be contaminated and plan requirements such as affordable housing, public transport, infrastructure, education in addition to those above?

2.2 No Comment

2.3. Should the LDP specify minimum densities? (Policy SP3(1c) & SP4(ix)).

2.3 No Comment

Have the requirements of Policy H8 informed the windfall estimate?

2.4 No Comment

Has the requirement in Policy H9 to demonstrate no overriding need to retain the existing use on unallocated sites informed the windfall estimate?

2.5 No Comment

Only two non-strategic sites are allocated and these are still large, 90 and 150 units. The Housing Led Regeneration Areas have allocations from 200 to 2,310 units. HBF and others argue allocating only large sites discriminates against SME builders. Further redeveloping brownfield sites presents challenges that may be beyond the resources of smaller firms.

2.6 No Comment

Does the size of the allocations and the challenge of redeveloping complicated brownfield sites limit the number of developers able to contribute to meeting the housing targets? Should consideration be given to allocating a range of smaller sites to provide flexibility in sources of delivery?

2.7 Brownfield sites raise a distinct set of challenges for developers, such as contamination, high remediation costs, and often fragmented ownership. These issues are generally more complex than greenfield land and can affect viability, programme and deliverability. A brownfield only strategy cannot realistically deliver the housing requirement (and this is reflected in the adopted LDP which allocated several large strategic greenfield sites which underpin the whole LDP growth strategy).

2.8 The RLDP should consider allocating a number of smaller greenfield sites to assist in providing flexibility in sources of delivery. An example is Land at Bridge Road, Old St Mellons – a site previously put forward at the Call for Sites Stage which is an 8.28 ha site intended for housing development (and will deliver about 135 homes). The site is:

a) in a sustainable location with a range of services close by (at the St Edeyrn's Village development including a new school) and within Old St Mellons;
b) has access to a range of modes of public transport;
c) not subject to any heritage, landscape, or ecological designations, and transport information has recently been updated in 2026 for the site;
d) not subject to any flood risk (and a secondary flood free emergency access will cover the main access which might be affecting by flood risk in the future); and
e) will deliver affordable housing as well.

2.9 Further information on this site is provided in Appendices 1-6 of this statement.

2.10 The sustainability of the site is demonstrated by the designation of the St Edeyrn's Village as a strategic site in the adopted LDP and the conclusions in the Inspector's Report for the adjoining land.

2.11 Given Persimmon's experience of delivering the neighbouring St Edeyrn's Village site and their knowledge of the site, the development of a high quality and policy compliant scheme is viable and achievable in the new plan period.

The core recreational catchment of the Severn Estuary Special Area of Conservation (SAC), Special Protection Area (SPA) and Ramsar sites and Cardiff Beech Wood SAC are 12.6km and 6km respectively. Policy BG7 resists development which would result in an increase in visitor pressure. LDP paragraph 7.395 indicates the best approach to mitigating recreation impacts at a strategic level, likely through contributions to Strategic Access Management and Monitoring (SAMM) or Suitable Alternative Greenspace (SANG). NRW point out a number of allocations are within the core recreation areas, SH1.2, SH1.4, SH1.5, H1.1, H2.2 & H2.3 and it is likely many windfalls will be too.

i. When will a SAMM or SANG strategy be developed?
ii. What is the impact of the need to produce a SAMM or SANG strategy on the delivery of the proposed allocations within the core recreation areas in terms of density, timing and financial viability?
iii. Has this been factored into the estimates of windfalls?

2.12 No Comment

3. Allocations

H2.3 – Cardiff Gate Business Park (West)

The northern parcel is bounded on 3 sides by commercial uses. Prospective residents would need to drive through an employment area and the site appears divorced from any facilities or services. Part of the northern parcel is used as a car park.

- **i. Is the northern parcel suitable for residential use and does the allocation comply with LDP Policies SP4(iv & xii) and PC1?**
- **ii. Would the southern parcel be accessed off St Mellons Road or Malthouse Avenue? If the latter, does having to drive through an employment area comply with the principles of good placemaking?**

3.1 The Integrated Sustainability Appraisal (ISA) (January 2025) provides an assessment of site H2.3, identifying the greatest constraint as distance from existing services. Notably, the site is over 3km from a train station, 3km from a health centre and approximately 2.1km and 2.8 km from local and district centres, respectively.

3.2 Persimmon question the suitability of site H2.3. The site is within an existing business park, has no relationship to any existing residential areas, and access would be off the main thoroughfare through the business park, with poor pedestrian access. The character of the area is not suited to the proposed residential use. The ISA confirms that the site fails on a number of sustainability matters and is largely inaccessible. The site does not support the aims and objectives of the RLDP and is not suitable for housing.

H2.4 – Roath Dock (North side)

ABP own the site and has no intention to develop the site for housing. As housing cannot be delivered on this site should the allocation be deleted? If so should land be found to replace the estimated 316 units that would be lost?

3.3 Given that the site is operational port land, Persimmon previously questioned whether there was any appetite from ABP to dispose of the site, particularly given that portions of it play an important role as a sand wharf.

3.4 It is now evident that ABP do not plan to redevelop the site. On this basis, Persimmon says that this site is not deliverable and will not be is suitable for housing in the new RLDP.

Notwithstanding the above, is Roath Dock (North side) suitable for residential development given the proximity of the port? (Policy MW6).

- **i. Would developing this site for residential use comply with LDP Policies SP4(iv & xii) and PC1? Will the noise limits set out in paragraph 7.521 be achieved? Has any regard been given to air quality?**
- **ii. What regard has been given to the operating conditions of existing businesses and the port? Would residential use undermine the LDP's aim of supporting the port and safeguarding wharves? (Policies SP9 & MW6).**

3.5 The Adopted and Replacement LDP planning policy should not allocate Site H2.4 for residential development. It would also not make sense to safeguard housing on this site, regardless of the ABP intentions.

3.6 Part of the site is allocated under Policy MW6 of the RLDP Deposit plan which identifies sand wharf protection areas that will be protected against development which would prejudice their ability to land marine dredged sand and gravel.

3.7 Policy SP9 (Supporting the Role of Cardiff Port) seeks to ensure that Cardiff Port is protected to continue its primary role through the provision of traditional port specific employment activities. Further employment generating activities, including the provision of industrial and logistical uses, along with green energy generation will be supported. There will also be flexibility to allow leisure, residential and mixed uses within appropriate areas provided they are compatible with surrounding (port-related) uses.

3.8 The Adopted LDP identifies site H2.4 as part of an Existing Employment Site with the eastern portion of the site which is also safeguarded as a sand wharf. In the adopted LDP there is a general presumption against the loss of employment uses within Existing Employment Sites and a requirement for residential uses introduced within Existing Employment Sites to not undermine the continued operation of existing operations. The deposit RLDP strengthens this with Paragraph 6.84 stating that 'the operation of the port and ancillary uses should take precedence'. There is also a specific planning policy within the adopted LDP which protects against the loss of sand wharves (with no criteria that would allow for their alternative use).

3.9 Lastly, any development onsite would need to be carefully managed to avoid significant effects on the landscape, water quality and biodiversity of Cardiff Bay. The site could also have indirect impacts on the integrity of the Severn Estuary SPA/SAC/Ramsar site and is likely to require avoidance and mitigation measures as set out in Policy BG7.

3.10 Overall, this site should not be allocated for residential use: it certainly does not complement the traditional port use and the designated sand wharf, and ABP do not intend to develop the site for housing.

H2.5 - Porth Teigr and Alexandra Head

ABP own 7ha of the site and has no intention to dispose of it for redevelopment. Furthermore, ABP argue the developable area is around 11ha not 27ha (Figure 8 ABP's deposit representation).

- **i. Should the boundary of the allocation be changed to reflect this?**
- **ii. What would be the revised estimate of units if ABP's land is taken out of the allocation/not released for housing?**
- **iii. What would be the revised estimate of units be if ABP is correct regarding the developable area being 11ha compared to 27ha?**
- **iv. If the site cannot deliver 2,310 units, should land be found to replace the units that would be lost?**
- **v. Land was allocated for residential development here in the 1996 and 2016 plans but did not come forward. What evidence is there it will come forward now?**
- **vi. Would developing this site for residential use comply with LDP Policies SP4(iv & xii) and PC1? Will the noise limits set out in paragraph 7.521 be achieved? Has any regard been given to air quality?**

vii. What regard has been given to the operating conditions of existing businesses and the port? Would residential use undermine the LDP's aim of supporting the port and safeguarding wharves? (Policies SP9 & MW6).

3.11 Site H2.5 is under two separate ownerships (Welsh Government and ABP).

3.12 The Porth Teigr site was allocated in the 1996 Local Plan and is allocated in the Adopted LDP. Outline planning permission was granted for 1,010 homes in 2008 (ref. 03/00099/C), but that permission has been extended to require the submission of reserved matters by 2021 (ref. 08/01736/C). No reserved matters have been applied for on the site, and no homes have been delivered. On that basis, it is considered that development of this portion of the site is neither deliverable nor viable. If it was, the site would have been delivered in this time.

3.13 With regard to the elements of the site that are operational ABP land, the points raised in relation to the allocation proposed at Roath Dock (North Site) stand. It is operational and occupied port land and, by virtue of the lack of either a Concept Plan or site-specific policy wording, it is not clear whether this is available and how the interface between new housing and the existing port operations will be managed.

3.14 The Alexandra Head portion of the site and the areas between Cargo Road and the Cardiff Bay Trail directly adjoin operational port land. Given the lack of masterplanning included within the Deposit RLDP, it has not been demonstrated that new housing in this location is compatible with the continued operation of the port.

3.15 It is not clear why the site boundary includes areas of Cardiff Bay itself as clearly this is not developable. The effect however is that the site area (which the Deposit RLDP suggests is 27ha) is artificially and quite significantly increased beyond what is actually developable.

3.16 With the loss of the ABP land and undevelopable Cardiff Bay Land, the actual site area will be greatly reduced from the original allocation. This risks the site not being able to achieve the desired housing quantities. **It is clear that the site cannot deliver 2,310 units, and therefore land must be found to replace the units that would be lost.**

H2.6 – Hadfield Road

The site lies in a commercial area and is bounded on 3 sides by commercial uses.

i. Would developing this site for residential use comply with LDP Policies SP4(iv & xii) and PC1? Will the noise limits set out in paragraph 7.521 be achieved? Has any regard been given to air quality?

ii. What regard has been given to the operating conditions of existing businesses?

iii. Why is this site not included in EC3.10, Penarth Road Area (includes Hadfield Road and Bessemer Road) Protected Employment Land and Premises?

3.17 Site H2.6 does not benefit from a planning permission. It does benefit from a resolution to grant outline planning permission from July 2011 for up to 250 homes subject to the signing of a Section 106 agreement (ref. 10/01432/DCI).

3.18 Given that the Section 106 has not been signed (and therefore no decision issued) in the intervening 14-year period, it is considered that the site is neither deliverable nor viable.

3.19 Persimmon note that according to the Deposit Plan Proposals Map, part of the housing regeneration site falls within the 'Penarth Road Area' protected employment area (Ref: EC3.10) (see Figure 1).

As such, that part of the site would be subject to the provisions of Policy EC3, which protects sites for employment generating B Use Class (B1, B2, B8). As a result, there is a there is a conflict of policy here.

3.20 In the absence of a masterplan for this, it is unclear how the Council intend for this cross-policy conundrum to be addressed. The purposes of Policy EC3.10 and H2.6 could lead to conflicts when considering any future development, resulting in the two policies being at cross-purposes, further delaying development onsite.

3.21 The industrial character of the area is also not suited to the proposed residential use, which surrounds the site on three sides with industrial development. The housing development located immediately north of the site is somewhat physically and visually separated by a park and screening planting.

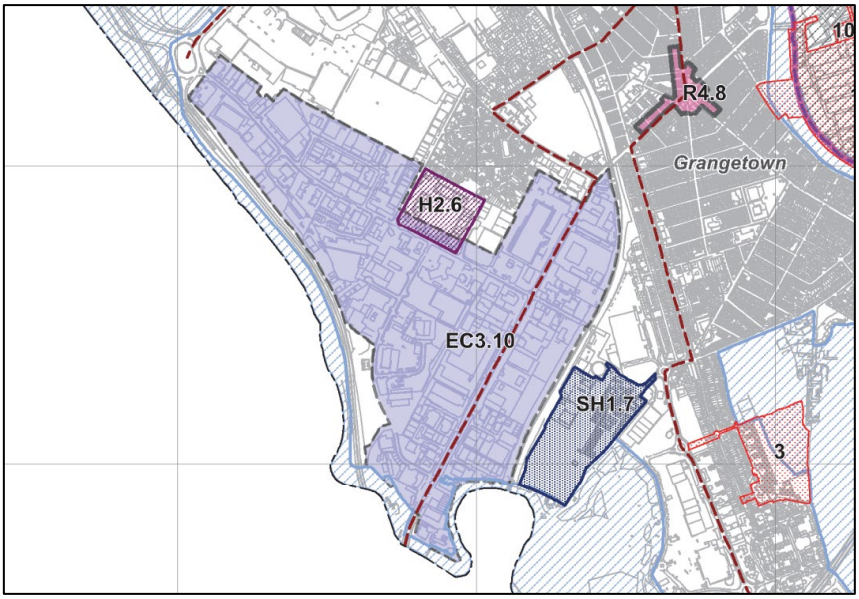


Figure 1: Extract from Deposit RLDP Proposals Map

SH1.7 – Former Gas Works, Ferry Road

This site was allocated for residential development in the 2016 plan but, with the exception of a temporary permission for 52 units which expires in 2030, has not come forward. What evidence is there it will come forward now?

- **i Given its former use, what evidence is there the allocation of 500 units is deliverable and can provide 20% affordable housing, open space, allotments and meet the other requirements such as education contributions required by the LDP?**
- **ii Is the site in Flood Zone 3 and, if so, what are the implications for the principle of allocating this site and delivery?**

3.22 Site SH1.7 was previously allocated in the 2016 plan under strategic site KP2 (B) for high density residential accommodation. The previous allocation anticipated full delivery of the 500-unit site between 2017 and 2024. However, since allocation, no formal planning applications have been submitted and there is only a temporary permission for 52 units which expires in 2030. Whilst these

proposals were initially a response to the COVID-19 pandemic (using emergency planning powers), a 5-year extension to the scheme was approved in March 2025 to extend the lifespan until 2030. As the problem of homelessness in Cardiff persists, there could be a need to extend the placement of, and possibly even formalise, the modular development onsite for a long period of time and will therefore not be able to deliver the formal housing development proposed.

H1.1 Land at areas 9-12 St Mellons

This site was allocated for residential development in the 2016 plan but has not come forward. What evidence is there it will come forward now?

- i **According to NRW's Flood and Coastal Erosion Risk Map flood risk from the sea is low and flood risk from rivers is under review. What is the current situation?**
- ii **Part of the site lies in Hendre Road Site of Importance for Nature Conservation. How has the step-wise approach informed the decision to carry over this allocation from the 2016 plan?**
- iii **The allocation lies within the core recreational catchment of the Severn Estuary Special Area of Conservation (SAC), Special Protection Area (SPA) and Ramsar sites. What are the implications for the principle of developing this allocation for housing and, if it is deemed appropriate, its delivery?**

3.23 Policy H1B (Non-Strategic Housing Sites) allocates 'Land at Areas 9-12 St Mellons' as a non-strategic housing site for 150 homes. The site is allocated for housing in the Adopted LDP and the site forms part of a wider allocation from the City of Cardiff Local Plan that was adopted in January 1996. The site has been subject to a planning application for its redevelopment with no homes being delivered across this very extensive period of time.

3.24 Whilst the benefits of developing these sites may be an aspiration of Cardiff Council, Persimmon's view is that relying on their delivery (as the Deposit RLDP does) to meet the housing requirement is unsound and will result in the RLDP not delivering the housing requirement it plans for.

3.25 On that basis, Persimmon suggests that the policy should offer support for the redevelopment of these sites but that they should not be relied on to meet the housing requirement.

3.26 This is the approach that the recently adopted Bridgend County Borough Council RLDP takes for the Coegnant Reclamation Site and the Maesteg Washery Site. The Bridgend RLDP identifies them as 'Long Term Regeneration Sites' but does not count on them as being part of the housing land supply.

3.27 The policy subtext (at Paragraph 5.3.16 of the adopted RLDP) is clear in describing this, stating that:

> *'This recognises the fact that the deliverability timescales of these sites are more difficult to specify, despite their high credentials in terms of sustainable development and placemaking.'*

3.28 The ISA (January 2025), also identifies a number of constraints on this site, including its location in a historic landscape and Archaeologically Sensitive Area. Surveys will be required at application stage and could result in limitations to development.

3.29 Additionally, two thirds of the site is designated as a SINC and 5-10% is SSSI (see Figure 2). This will limit the developable area two approximately a third of the site as developable (notwithstanding the archaeologically sensitive area that covers the entire site – see figure below. The ISA states at

Table 8.4 that significant impacts on the SSSI, SINC and historic landscape are unlikely to be mitigatable.

3.30 The Council's reliance on a site that may face issues with deliverability at application stage is unsound. Therefore, this site would fail to meet the requirements of the Development Plans Manual (Edition 3) which requires that sites are deliverable, sustainable, and viable.

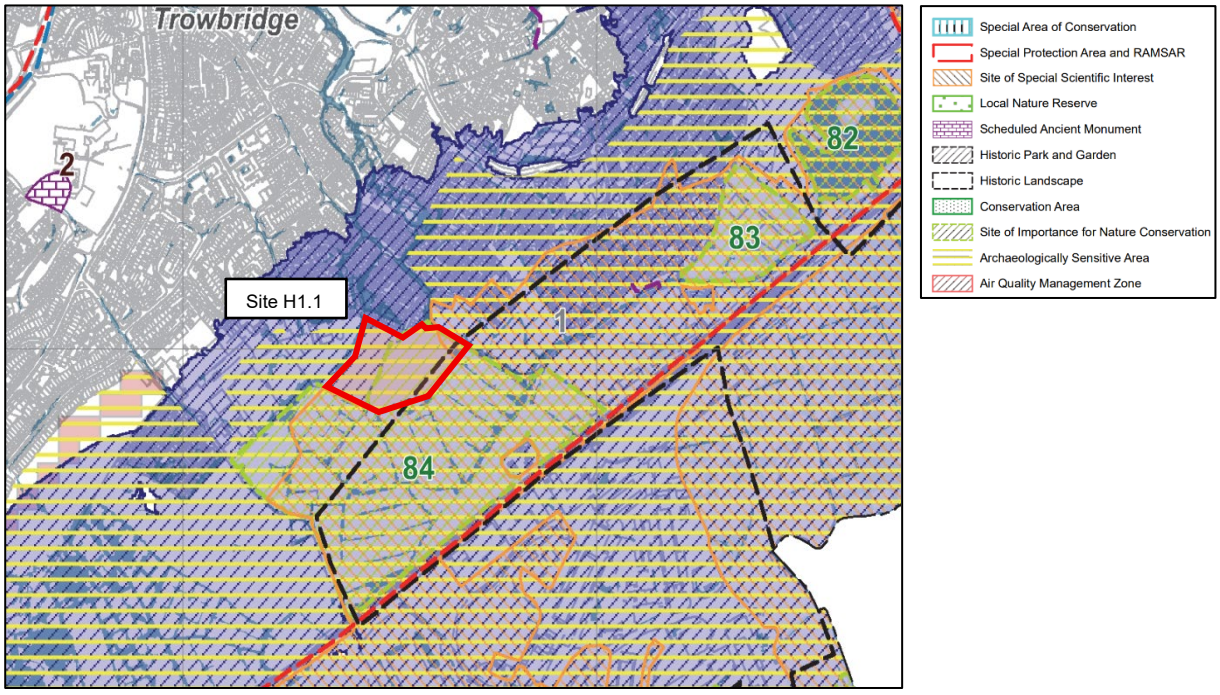


Figure 2: Extract from Deposit RLDP Constraints Map

4. Action Points / Other

4.1 Local ecological designations may threaten the deliverability of several of the above sites. The following sites were identified by the Habitats Regulations Assessment (HRA) of the Deposit Plan as being sufficient size and proximity to the Severn Estuary SPA and Ramsar to be utilised by SPA birds:

- H2.4 Roath Dock (North side),
- H2.5 Porth Teigr and Alexandra Head,
- H2.6 Hadfield Road

4.2 These sites will need to provide evidence that the development will not result in adverse effects on the integrity of the Severn Estuary SPA / Ramsar regarding its qualifying bird species. To demonstrate this, a survey will be required to determine the current habitats on site and therefore whether the land is indeed suitable for supporting a significant population of designated bird species. Where habitats are suitable, non-breeding bird surveys will be required to determine if the site and neighbouring land constitute a significant area of supporting habitat. Appropriate avoidance and mitigation strategies will then be required. The planning applications will also need to be assessed through a project specific Habitats Regulations Assessment to ensure that the development does not result in adverse effects on integrity.

4.3 While the HRA does not identify any of these sites as automatically unacceptable, it clearly establishes that development on these sites cannot rely on screening alone, and project-level HRA may be required at the planning application stage. Impacts on the Severn Estuary SAC/SPA/Ramsar (and mitigation) will be key considerations. Because of this, these sites may be unacceptable at the planning application stage, or they will require substantial mitigation measures, which could impact the viability and deliverability of the housing the Plan allocates.

4.4 Reliance on these sites risks the deliverability of key housing in Cardiff and threatens the soundness of the plan.

5. Conclusion

Overarching issue: Will the brownfield-first approach, only carrying over greenfield allocations, deliver?

5.1 We don't think it will. There is a high level of uncertainty around the deliverability and capacity of all the above sites. Many of these are allocated in the adopted LDP but have not delivered, they benefit from unimplemented historic planning permissions, or do not appear to have been subject to an appropriate level of masterplanning to suggest their capacity is in any way realistic.

5.2 The Plan has an over-reliance on previously developed land, with much of the greenfield allocations being existing 'rolled over' allocations from the adopted Plan. Allocating 'housing-led regeneration sites' brings a level of uncertainty to the delivery of the overall housing supply during the Plan period.

5.3 Greenfield sites can be preferable in terms of deliverability and viability. Allocations on previously developed land often fail to yield their expected contribution over the Plan period. The housing led regeneration areas approach and over-reliance on brownfield sites in the Plan also risks undermining the overall deliverability of the housing targets. The Council requires a lower level of affordable housing on brownfield sites (20%) than greenfield sites (30%). The Council is acknowledging that brownfield sites are less viable and that greenfield sites have greater potential to deliver affordable housing. The housing mix should include a greater proportion of houses delivered on greenfield sites, which will also deliver more affordable housing.

5.4 Many of the proposed brownfield sites are highly constrained and do not complement surrounding local uses, which risks noise and air quality issues on potential homes. Several of the sites are also not sustainably located, far from local, district and city centres, surrounded by commercial and employment uses.

5.5 These sites would fail to meet the requirements of Edition 3 of the Development Plans Manual which requires that sites are deliverable, sustainable, and viable.

5.6 All the greenfield sites proposed in the plan form part of the existing larger strategic allocations and therefore are similar in respect of their context. Given their nature these sites are also subject to major infrastructure improvements which inevitability impacts the financial viability of any scheme and often leads to significant delays in housing delivery, especially earlier on during the plan period. Given this picture, it is important that the plan allocates a range of sites including small to medium greenfield plots which can help maintain a supply of housing throughout the plan period.

5.7 Persimmon remain committed to the development opportunities at 'Land at Bridge Road, Old St Mellons'. The site represents a sustainable location alongside St Edeyrn's Village and Persimmon says that its inclusion within the emerging RLDP would help promote a more sustainable pattern of development in line with the Council's vision for Cardiff.

Appendices

Appendix 1 - Land at Bridge Road, Cardiff - Site Location Plan

Appendix 2 - Land at Bridge Road, Cardiff - Block Plan

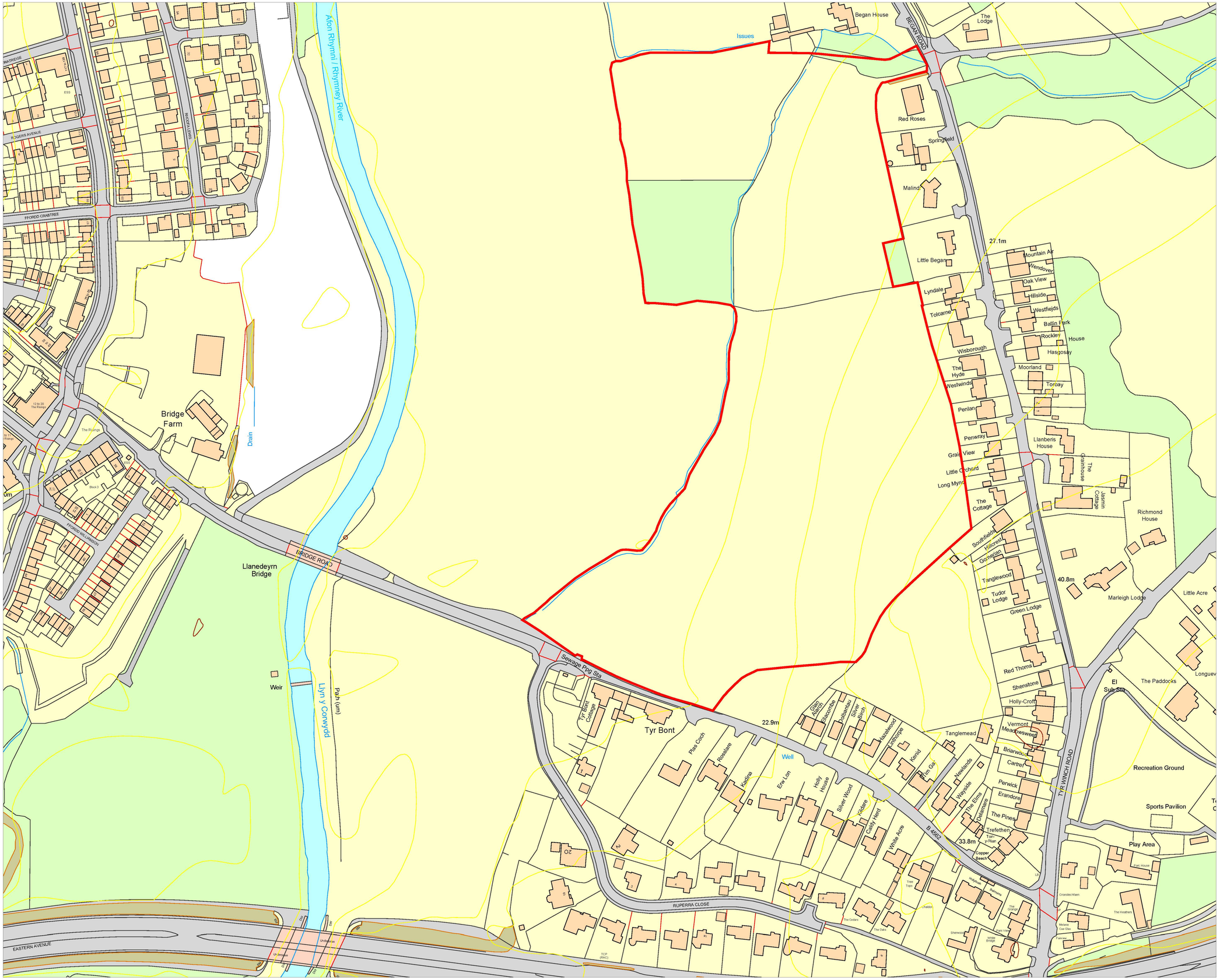
Appendix 3 - Land at Bridge Road, Cardiff - Candidate Site Supporting Statement

Appendix 4 - Land at Bridge Road, Cardiff - Transport Technical Note

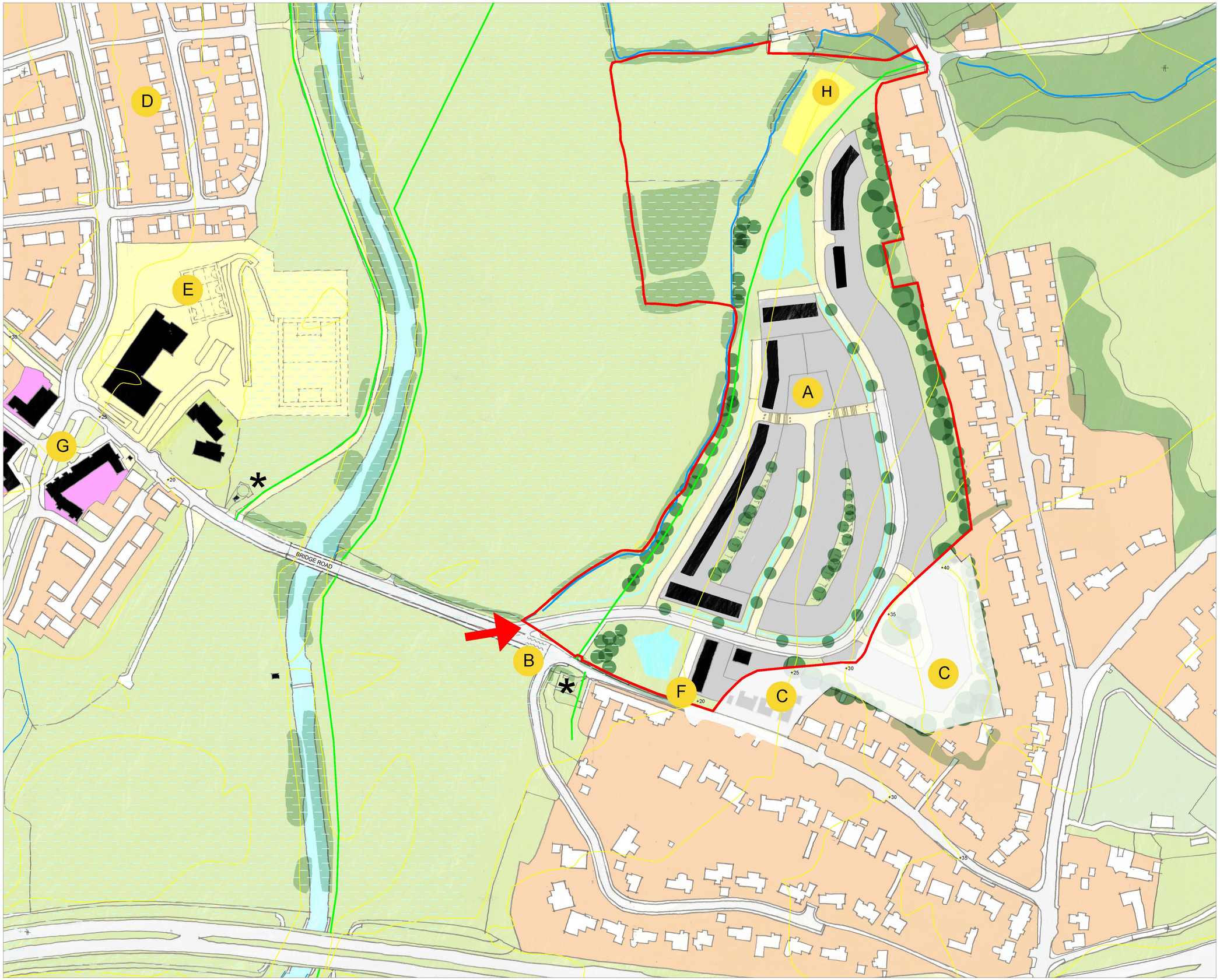
Appendix 5 - Land at Bridge Road, Cardiff - Preliminary Ecological Assessment Report

Appendix 6 - Land at Bridge Road, Cardiff - Flooding Technical Note

Appendix 1: Land at Bridge Road, Cardiff - Site Location Plan


Afon Rhymni / Rhymney River
Issues
Began House
BEGAN ROAD
The Lodge
Red Roses
Springfield
Malindi
Little Began
27.1m
Mountain Air
Wendover
Oak View
Hillside
Westfields
Ballin Park
Rockley House
Hasgosay
Moorland
Torbay
Lyndale
Tolcarne
Wiseborough
The Hyde
Westwinds
Penlan
Penwray
Grain View
Little Orchard
Long Mynd
The Cottage
Llanberis House
The Granthouse
Jasmin Cottage
Richmond House
Southfields
Holcrest
Gorsedan
Tanglewood
Tudor Lodge
40.8m
Marleigh Lodge
Little Acre
Green Lodge
Red Thorns
Shenstone
Holly-Croft
Vermont
Meadowsweet
Briarwood
Cartref
Perwick
Erandore
The Pines
Trefethen
Ton-y-Rian
33.8m
Copper Beech
Tanglemead
Newlands
Wayside
The Elms
Dalamare
Kenid
Tim Gai
Anthorpe
Hazelwood
Silver Birch
Dalcanau
Elsecombe
Glen Aldich
Tyr Bont Cottage
Tyr Bont
Plas Coch
Rosaline
Kenina
Erw Lon
Holly House
Silver Wood
Kildare
Caddy Hard
White Acre
Well
22.9m
Sewage Ppg Sta
BRIDGE ROAD
Llanedeyrn Bridge
Weir
Llyn y Corwydd
Path (um)
Drain
Bridge Farm
The Rusings
Block 3
PEMBROKE WILLIAMSON
ROGERS AVENUE
FFORDD CRABTREE
BRYN-Y-LLYN
NANTRIDGE
ESS
B 4962
RUPERRA CLOSE
EASTERN AVENUE
TYF WINCH ROAD
Recreation Ground
Sports Pavilion
Play Area
The Paddocks
Longueville
El Sub Sta
Croesleichfen
The Heathers
Fairview
Shenwood
Hillfield
Jasmine
The Poplars
Poplar View
Willow Bridge
Tree Top
Paddor
The Ceders
The Oaks
TCP (RAC)
Un-Sewage
Un-Sewage
Un-Sewage

Appendix 2: Land at Bridge Road, Cardiff – Block Plan



N

- SITE BOUNDARY (20.46 ACRES / 8.9 ACRES NET DEV AREA / 135 UNITS)
- NRW (NATURAL RESOURCES WALES) FLOOD RISK MAP ZONE C2
- EXISTING PUBLIC RIGHT OF WAY
- SITE ACCESS FROM WEST ONLY ALONG BRIDGE ROAD
- EXISTING LEVELS / CONTOURS AT 5 METRE INTERVALS
- EXISTING TREES / HEDGES
- EXISTING WATER FEATURES / DRAINS
- RIVER RHYMNEY
- EXISTING RESIDENTIAL DEVELOPMENT
- ST EDERYNS VILLAGE CENTRE (WITH RETAIL UNITS)
- TYRWINCH ROAD PLAYING FIELDS
- ST EDERYNS PRIMARY SCHOOL (TO BE CONSTRUCTED)
- EXISTING FOUL PUMPING STATION
- PROPOSED DEVELOPMENT
- PROPOSED SUDS ATTENUATION BASINS AND SWALES
- PROPOSED TREE / BUFFER PLANTING

- A DEVELOPMENT TO BE ACCESSED FROM ST EDERYNS VILLAGE ONLY
- B NO THROUGH ROUTE : BUS ONLY CAMERA CONTROL
- C POTENTIAL DEVELOPMENT OF ADJACENT SITE
- D ST EDERYNS VILLAGE UNDER CONSTRUCTION
- E PRIMARY SCHOOL & SPORTS PITCHES (TO BE CONSTRUCTED)
- F POTENTIAL FOR EMERGENCY VEHICULAR ACCESS / EXIT VIA OLD ST MELLONS
- G ST EDERYNS VILLAGE CENTRE WITH RETAIL / COMMUNITY FACILITIES
- H EQUIPPED PLAY AREA

Land at Bridge Road
Old St Mellons
Cardiff

Drawing Title
Block plan

Drawing No
BP01

Drawn By
AB

Scale
1:1250 @ A1

Date
18 August 2021

Persimmon Homes
East Wales

Llantrisant Business Park, Llantrisant, RCT. CF72 8YP . Tel: 01443 223 653

Appendix 3: Land at Bridge Road, Cardiff – Candidate Site Supporting Statement

Land at Bridge Road, Old St Mellons

Cardiff Council Local Replacement Local Development Plan - Call for Sites

Prepared for:

Persimmon Homes (East Wales) Ltd

Prepared by:

Savills
2 Kingsway
Cardiff
CF10 3FD

1. Introduction

1.1. Savills is instructed by Persimmon Homes (East Wales) Ltd (Persimmon) to submit the site known as "Land at Bridge Road, Old St Mellons" (the site), as part of Cardiff Council's Call for Sites to inform the Replacement Local Development Plan (RLDP). The extent of the site is shown in Appendix 1.

1.2. The site has a total area of 8.28ha and is well related to existing residential development at both Bridge Road and Began Road to the east as well as being approximately 300m east of the Strategic Site G - East of Pontprennau Link Road. This scheme (known as St Edeyrn's Village) provides a mixture of uses on a strategic site that is a cornerstone of the adopted LDP and is being delivered by Persimmon.

1.3. A Block Plan has been prepared which shows the various considerations and opportunities for the site and illustrates how it could be developed. It shows a layout showing that deliver 135 homes, a new primary vehicular access from Bridge Road and emergency vehicular access from Bridge Road, together with a comprehensive package of green and blue infrastructure

1.4. This statement has been prepared to sit alongside the completed Candidate Site Forms provided by Cardiff Council and is structured as follows:

- **Section 2** describes the site and its policy position in the adopted Local Development Plan;
- **Section 3** identifies the nature of development that the site could accommodate and discusses the Block Plan that has been prepared;
- **Section 4** provides additional information with regards to a series of questions in the Candidate Site Forms; and
- **Section 5** makes a series of concluding comments.

1.5. Persimmon is committed to the promotion of the site and will work with Cardiff Council to demonstrate that the site is viable, sustainable, and deliverable. Whilst it is anticipated that additional technical and survey work will be provided by Persimmon to Cardiff Council as the RLDP progresses, this submission is accompanied by the following documentation:

- Preliminary Ecological Assessment Report (prepared by TerrAqua);
- Transport Appraisal (prepared by Lime Transport); and
- Flood Technical Note (prepared by Think Urban).

2. Site Description and Characteristics

2.1. This section of the statement describes the site and outlines its status in the Adopted Local Development Plan ("ALDP").

Background

2.2. Persimmon successfully promoted Strategic Site G - East of Pontprennau Link Road (now known as St Edeyrn's Village) as allocated in Cardiff Council's adopted LDP. St Edeyrns Village is one of a series of strategic sites that were allocated in the adopted LDP to deliver Cardiff Council's housing requirement. The strategic site benefits from outline planning permission for upto 1,020 homes, a two form entry primary school, village centre (comprising retail and community uses), and various green and blue infrastructure (ref. 13/00578/DCO). The whole site now has detailed planning permission (with reserved matters approved for all of the development anticipated in the outline planning permission).

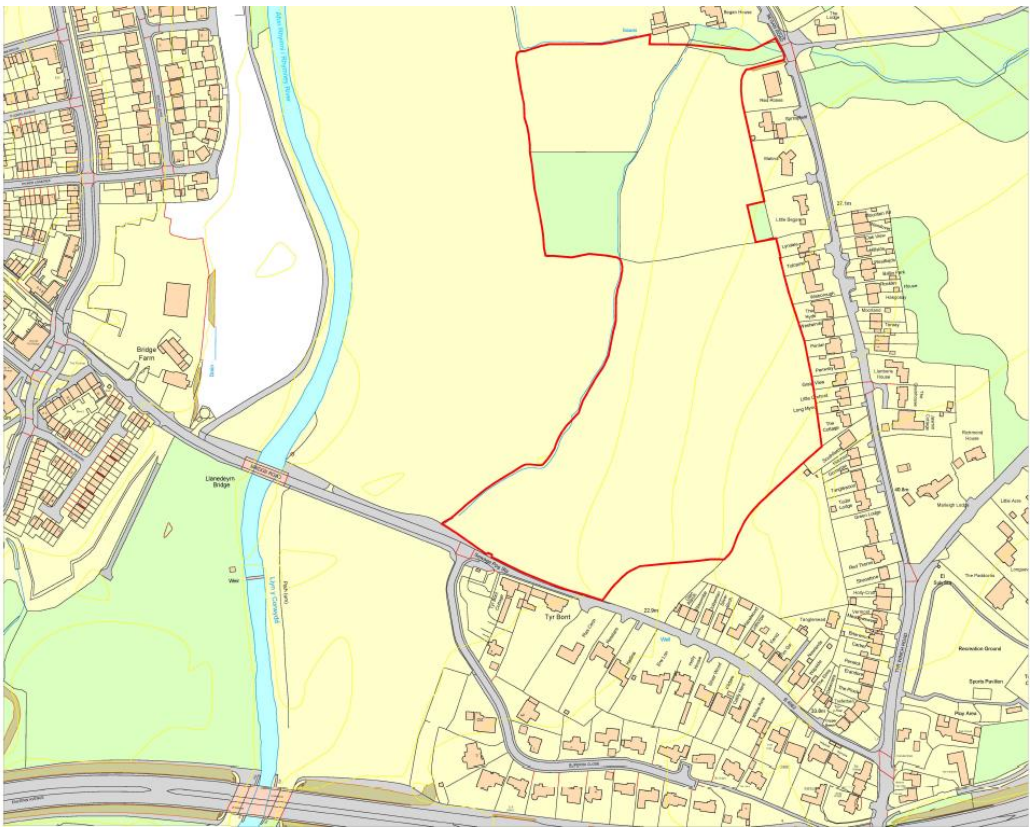
St Edeyrns Village Outline Masterplan

2.3. Delivery of the St Edeyrns Village is well underway with 650 homes completed, the Class A1 and A3 units within the village centre units completed and being actively marketed, and the principal contractor starting work on the Primary School in September 2021.

2.4. As stated earlier, all phases of development at St Edeyrns Village now benefit from reserved matters approvals. These closely follow the principles of the masterplan with the primary school and village centre element of the permitted masterplan being delivered on the eastern part of the wider St Edeyrns Village, either side of Bridge Road. This is one of the closest parts of the St Edeyrns Village development to the site now being promoted by Persimmon.

Site Description and Context

2.5. The site covered by this Candidate Site submission has an area of 8.28ha and its' position and extent is shown on the map below:



Site Section Plan

2.6. The site is irregularly shaped and is made up of three fields separated from each other by hedgerows and low level vegetation. These fields are in use for agricultural purposes. The site includes a fourth rectangular field and an area of vegetation located immediately west of the northern field, but no development is proposed in these areas. The site slopes downwards from Began Road to the Rhymney River to the west and broadly downwards from the northern part of the site towards Bridge Road.

2.7. The site is bounded to the south by Bridge Road with residential properties on its southern side. Bridge Road runs westwards towards St Edeyrns Village and the primary school and village centre that is being delivered. There is a bus gate on Bridge Road to the west of the site which prevents other vehicles from St Edeyrns Village going eastwards along Bridge Road towards Tyr Winch Road which runs southwards into Old St Mellons. The section of Bridge Road west of the bus gate is a “Quiet Way”, acting as a shared footway, cycleway, and bus route.

2.8. Running along the site’s western boundary is a small unnamed stream with a large open field on its western side which is crossed by informal footpaths and consists of a mix of vegitation. Beyond this field are the Rhymney River and the St Edeyrns Village beyond.

2.9. A single residential property along with other areas of undeveloped agricultural land is located to the north of the site. The M4 is approximately another 600m further to the north though is not visible from within the site’s boundaries.

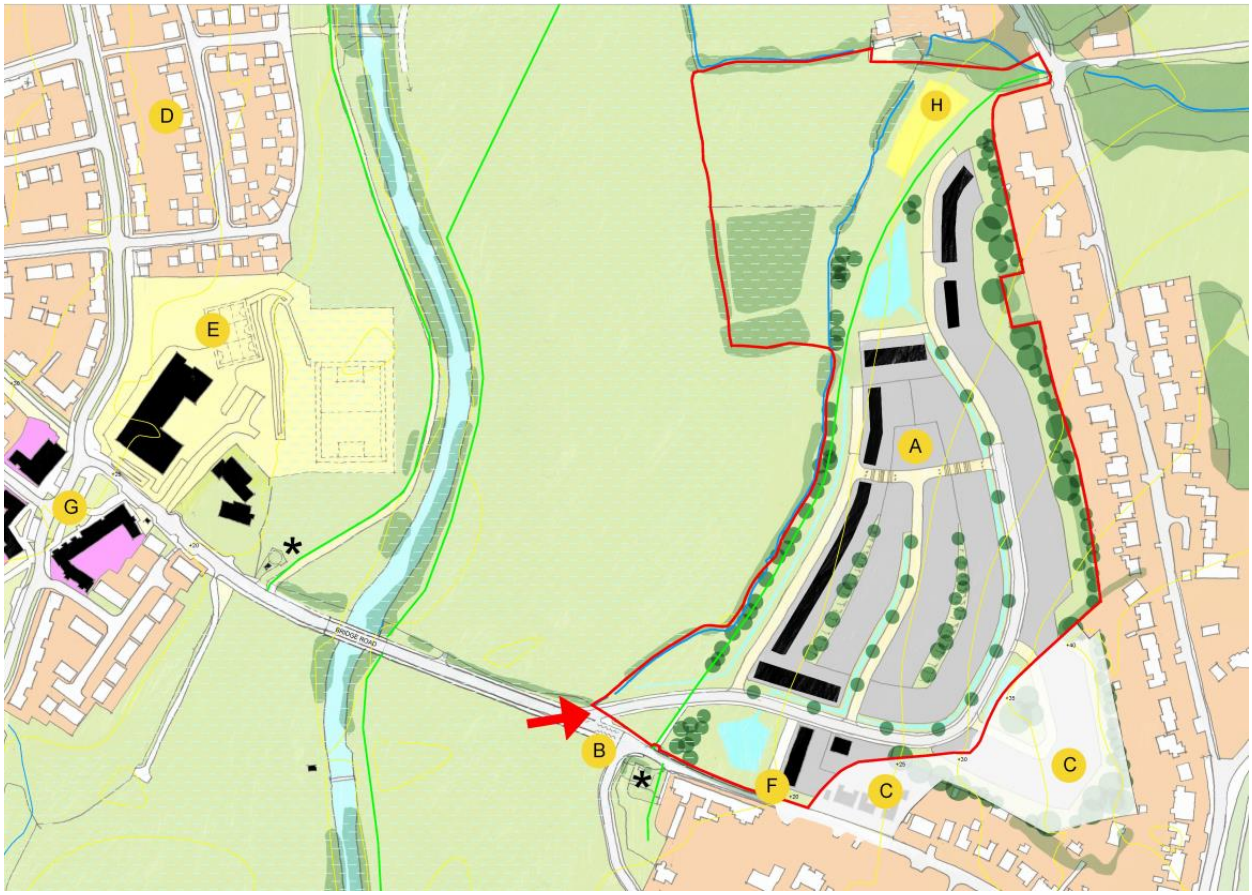
2.10. To the east of the site is a small undeveloped parcel of land as well as residential properties that are located on the western side of Began Road. The site has a small direct frontage with Began Road in its north-eastern corner.

3. Summary of the Potential Proposals

3.1. At a basic level, the proposal is to:

- Have the site allocated for housing for circa 135 homes; and
- Have the site included within Cardiff's settlement boundary.

3.2. A Block Plan (ref. BP01) for the site has been prepared for the site which is included as Appendix 2 and repeated below.



Block Plan (ref. BP01)

3.3. The Block Plan shows that the site can accommodate approximately 135 homes (shown as “A”). The mix of house types would be determined through the planning process (either through a full application or at reserved matters stage if an outline application is submitted). At this stage, it is anticipated that the site would accommodate a mix of two, three, four, and five bedroom homes and a mix of terrace, semi-detached and detached properties.

3.4. At present, a bus gate (which prevents access by cars but permits busses) is located to the west of the site between the site’s western boundary and St Edeyrns Village. The effect of this is that vehicles from St Edeyrns Village are unable to travel eastwards along Bridge Road towards Tyr Winch Road. The Block Plan shows that primary vehicular access into the site is to be from a new T-junction onto Bridge Road with the bus gates to be relocated further to the east of their current location to a new position immediately west of Ruperra Close (shown as “B”).

3.5. An emergency vehicular access is proposed to the east of the relocated bus gates (shown as “F”). This will ensure that emergency vehicles are also able to enter and exit the site via Tyr Winch Road into Old St Mellons via a route that is not subject to a risk of flooding.

3.6. Whilst not forming part of this candidate site, Persimmon is aware that land to the east adjoining the site was promoted as part of the preparation of the ALDP (and subject to a refused planning application and dismissed appeal). The Block Plan responds to this by showing potential for vehicular and pedestrian linkages (shown as “C”), but does not rely on the allocation or development of this land.

3.7. Internally, the site includes a mix of primary, secondary, and tertiary roads which provide vehicular and pedestrian access to individual houses. The principles for the street hierarchy have been prepared in accordance with the Manual for Streets. The streets connect to create a legible and permeable network with character and identity. The layout and arrangement of these internal road would be for consideration at planning application stage.

3.8. The Block Plan shows that a locally equipped area of play is proposed to be located in the northern part of the site (shown as “H”) with areas of undeveloped and open land throughout the site providing further opportunities for active use.

3.9. Extensive tree and buffer planting is proposed, both at the site’s entrance and with a particular focus on strengthening the site’s boundaries with residential properties at Began Road and on the western boundary of the site (separating the site from the adjoining fields). A series of trees are shown lining streets within the site.

3.10. With the western and north-western parts of the site subject to a flooding constraint (see later in the statement and its appendices), these areas are to remain undeveloped. As signalled above, the fourth field and adjoining area of vegetation will be undeveloped too.

3.11. Due to the site's topography (which slopes from Began Road westwards towards the River Rhymney) a series of SuDS attenuation features and ponds are shown. These include attenuation basins in the southern part of the site closest to Bridge Road and in the north-western portion of the site. A series of swales are shown through the development connecting to the two attenuation ponds.

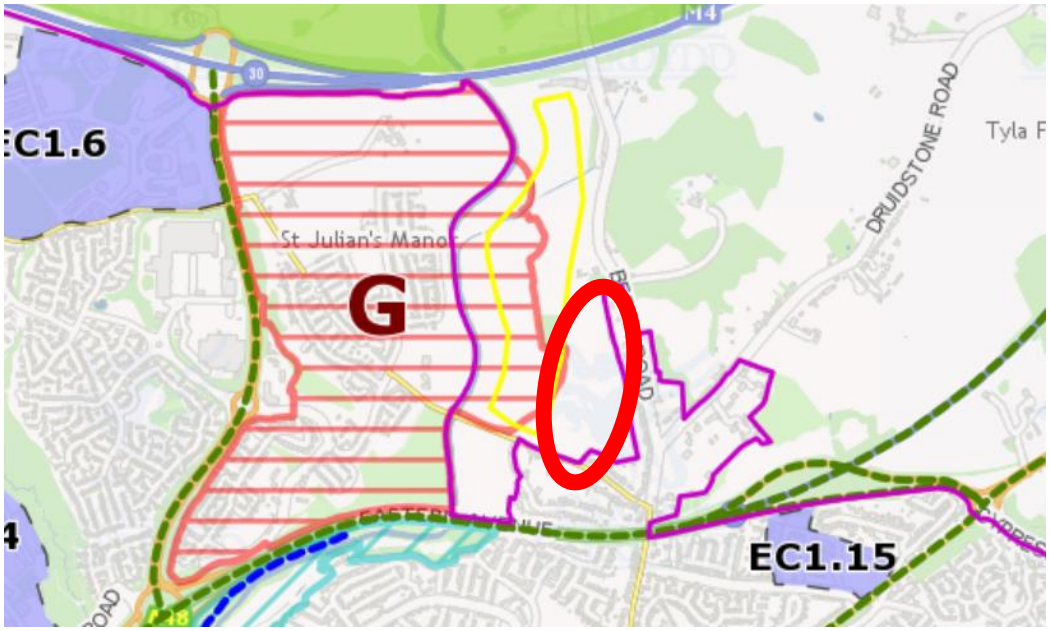
3.12. The PROW which runs along the site's western boundary is to be retained in situ and, where it meets Began Road and Bridge Road, will be incorporated and accommodated with the vehicular access arrangements for the site.

4. Commentary on Candidate Site Form Questions

4.1. This section of the Candidate Site Supporting Statement expands on the responses provided to a number of questions included in the Candidate Site Forms.

Section 4 – Planning Status

4.2. The current local planning policy context is formed of the Cardiff Council which was adopted in 2014 and covers the period up to 2021. The Proposals Map associated with the ALDP is replicated below:



Adopted LDP Proposals Map

4.3. The Proposals Map shows that the site is outside, but immediately adjoining to the south and east, Cardiff's settlement boundary (the purple line). It is otherwise subject to no designations or allocations that could preclude development with the site not subject to any landscape, heritage, or ecological designations.

4.4. A small portion to the northwest part of the site is within a Sand and Gravel Safeguarding area though, due to the modest size of this area and its proximity to existing and committed residential development, it is considered unsuitable for mineral extraction.

4.5. The Strategic Site G - East of Pontprennau Link Road (St Edeyrn's Village) is located to the west of the site (shown hatched red). As set out in Section 2 of this Statement, this was successfully promoted by Persimmon and is being delivered.

4.6. There is no meaningful planning history associated with the majority of the site albeit it should be noted that the land to the west of the northern field was included in the red line boundary of the Strategic Site G - East of Pontprennau Link Road outline planning application and shown on the masterplan as retained open space.

4.7. The undeveloped parcel of land immediately to the south east of the site has been subject to a refused planning application (ref. 14/01434/DCO) and appeal (ref. APP/Z6815/A/14/2229933) for up to 15 homes. The appeal was dismissed in 2015 principally because of the recent date of adoption of the ALDP (which did not allocate the land. The site and proposal was otherwise found to be technically suitable (and sustainably located) with Paragraph 14 of the Inspector's Report stating:

> *"As stated above, I consider that the proposed development is in a sustainable location with regard to access to facilities by modes other than the car. The proposal would provide much needed affordable housing, it is not at risk of flooding and the appellant has submitted reports which show that any environmental/ecological impacts can be satisfactorily mitigated. In my view, the proposal complies with development plan and national polices in all respects other than its location outside the settlement boundary and in the countryside."*

4.8. The Inspector's Report is clear in identifying that this is a sustainable and unconstrained location for growth.

Section 5 – Location and Accessibility

4.9. Lime Transport has been instructed by Persimmon to prepare a Transport Technical Note in support of the promotion of the site. This is included as Appendix 3. The proximity of the site to services is set out in greater detail in the Technical Note and is summarised in the table below:

Service	Distance	Commentary
Local Equipped Area of Play	50m	Block Plan incorporates the provision of a Locally Equipped Area of Play within the development.
Open Access Land	100m	Land immediately west of the site is open access and crossed by various formal and informal rights of way and paths .
Primary School	625m	Primary school to be delivered at St Edeyrn's Village. Main contractor to commence works in September 2021.
Retail / Community Facilities	625m	Retail (and potentially community) units delivered at St Edeyrn's Village and currently being actively marketed.

4.10. The above table shows that the site is within the acceptable walking distances from a range of facilities, many of which are either provided on or adjacent to the site or at the St Edeyrn's Village site that is currently being delivered by Persimmon (and accessed via foot along the existing Quiet Way).

Section 6 – Site Characteristics and Context

4.11. This section of the Candidate Site Form asks a series of questions with regards to whether there are any site characteristics that would preclude development. The sole question that warrants further commentary relates to whether there are any public rights of way (PROW) across the site.

4.12. Public Right of Way "St Mellons – 21" runs along the site's western boundary from the small section of the site's frontage with Began Road down to Bridge Road just to the east of Ruperra Close where it continues on the southern side of Bridge Road. The route runs around the edges of the three fields and does not consist of a formal hard surface.

4.13. The Block Plan prepared by Persimmon shows the retention of the PROW along the site's western boundary in its current location. It is incorporated into the layout a positive masterplanning feature, aligning with areas of public open space on the site's western boundary. The PROWs are shown as being well related to (and not prejudicing) the proposed vehicular access points onto Bridge Road and Began Road.

Section 7 – Accessibility and Highways Capacity

4.14. The Transport Technical Note included at Appendix 3 provides additional information with regards to accessibility and highways capacity.

4.15. The Block Plan shows that primary vehicular access into the site is to be from a new T-junction onto Bridge Road with the existing bus gates at Bridge Road to be relocated further to the east. The effect of this will be that vehicles leaving the site will only be able to go westwards along Bridge Road through St Edeyrns Village. Likewise, vehicles exiting Ruperra Close will only be able to turn right (and not left) onto Bridge Road. Built development is proposed to be offset from the vehicular access, providing an open and attractive gateway into the site.

4.16. The nearest bus stop to the site is located at Church Road within St Edeyrn's Village approximately 650m from the site. This bus stop is on the X59 route operated by Cardiff Bus which provides a link (on a half hourly basis) to Cardiff City Centre via Pentwyn, Llandeyrn, and Roath. The section of Bridge Road west of the bus gate is a "Quiet Way" which provides a safe pedestrian route to this bus stop.

4.17. Bus stops at Newport Road and Burnham Avenue (whilst further from than the Church Road stop) are served by the 30, 49, 65A, IF, and X45, which, as well as serving various parts of Cardiff, provide links to Newport and Barry.

Section 8 – Landscape and Environmental Impact

4.18. The scope of these questions relate to "soft environmental" considerations such as ecology, landscape, heritage, and agricultural land. Each of these are considered in turn below:

Ecology

4.19. Included at Appendix 4 is a Preliminary Ecological Assessment Report prepared by TerrAqua.

4.20. The Report starts by considering the site's proximity to designated sites and concludes that the site itself is not subject to any ecological designations and that the nearest site subject to an ecological designation is the River Rhymney which is some 300m from the site. A data review confirms no records on the site itself with records of badger, dormouse, otter, and bat within 1km of the site.

4.21. To inform the Report, a Phase 1 Ecological Assessment was undertaken in August 2021. This Assessment reports that the vast majority of the site is arable with broadleaf deciduous woodland located to the south of the fourth field and, in small sections, adjoining Began Road and the properties along the western side of Began Road. A small number of trees are located throughout the site but particularly along its boundaries. Areas of tall herb separate the two southern fields with hedgerows separating the northern and middle field and running along portions of some of the boundaries of fields within the site. A watercourse runs along the site's western boundary.

4.22. This, combined with an overview of data records confirms that, likely at planning stage, there will be a requirement for further bat, badger, dormouse, and reptile survey work.

4.23. The Report identifies that much of the site is of limited ecological value, reflecting that it is in active use for agricultural purposes and is therefore planted and mowed seasonally. The features of high ecological value are the hedgerows and mature trees that act to divide the various fields within the site and forms the site's boundaries.

4.24. The proposed Block Plan responds to the findings of the Preliminary Ecological Assessment Report by retaining the hedgerows in situ. Hedgerows around the site's boundaries are retained and buffered whilst (apart from the access into the northern field), the hedgerow separating the northern and central field is broadly retained. Likewise, the site is to be laid out with a series of green offsets and buffers with additional planting along the watercourse along the site's western boundary.

4.25. The approach taken in the Block Plan has been to minimise biodiversity loss with the proposals resulting in the removal of only 135m of hedgerow. There will be various opportunities for the translocation of this length of hedgerow elsewhere within the site. The various forms of woodland are to be retained whilst, as well as the loss of arable land which is considered to be of low ecological value, only modest areas of scrub and tall herb will be removed.

4.26. The Report identifies that the proposed Block Plan could deliver a biodiversity net gain by allowing for the creation of a 0.91ha of wildflower meadow and woodland planting in a portion of the site that is arable and of little biodiversity value. Further ecological measures (such as bird and bat boxes) could be incorporated on various trees throughout the site.

Heritage

4.27. There are no listed buildings on the site and the site is not within a Conservation Area. The nearest Conservation Area is located in St Mellons and the nearest listed building is the farmhouse at Bridge Farm. Given the distance from the site to these assets and the intervening landscapes, it is considered that the development of the site will have no impact on designated heritage assets.

Agricultural Land

4.28. Agricultural Land Classification provides a method for assessing the quality of farmland to enable informed choices to be made about its future use within the planning system. It is the only approved system for grading agricultural land quality in England and Wales and is set out in the Welsh Office Agriculture Department 1988 guidelines and criteria for grading the quality of agricultural land (1988), and is supported by the Predictive ALC Maps provided on the Welsh Government's geo-portal, Lle.

4.29. Agricultural land in England and Wales is graded between 1 and 5, depending on the extent to which physical or chemical characteristics impose long-term limitations on agricultural use. Best and most versatile (BMV) agricultural land is defined as Grades 1, 2 and 3a Planning Policy Wales (PPW) (Edition 11, February 2021) stating that the plan making and decision making process should seek to protect BMV.

4.30. Whilst detailed survey work has not been undertaken for all land in Wales, Welsh Government prepares and maintains maps which predict the agricultural land quality, the most recent version of which was released in 2020, the first major update since the launching of the interactive maps in 2017. The predictive agricultural maps show the site to be predominantly Grade 2 with portions closer to Began Road and Bridge Road being "Urban" (and thus those parts are ungradable).

4.31. The experience of Persimmon and Savills is that the predicted level of agricultural land quality is typically higher (and often by two grades) than the results of a site specific soil survey. Further, the indicative agricultural land quality is comparable to other undeveloped land on the edges of Cardiff.

Landscape

4.32. The site is not subject to any statutory or non-statutory landscape designations and is outside of a National Park, Area of Outstanding Natural Beauty, or Special Landscape Area. The site is also not within a Green Wedge and, due to its location south of the M4, is outside of the Green Belt – Areas of Consideration that are identified in Future Wales: The National Plan 2040.

4.33. LANDMAP is a Wales wide resource (maintained by Natural Resources Wales) that identifies and evaluates key landscape characteristics. The site is identified as falling within two LANDMAP landscape areas. Landscape quality is assessed against five criteria. These are then placed on a scale of 'Outstanding', 'High', 'Moderate', and 'Low'.

4.34. The nature of LANDMAP means that parcels of land are rated on the basis of the above five criteria rather than a single measure and so accordingly it is not possible to definitively compare the landscape value of different parcels of land. Likewise, it is not at a "site-level" and therefore does not allow clear comparison between individual parcels of land.

4.35. The evaluation of the site against the five criteria is set out in the table below:

Landscape Quality	Assessment
Geological Landscape	Moderate
Landscape Habitats	Moderate
Visual and Sensory	Moderate
Historic Landscape	Moderate
Cultural Landscape	Moderate

4.36. The parcel of land is identified as being of moderate value against all of the five criteria (which confirms that the land is not of a value that warrants a statutory or non-statutory designation). Instead, its performance against these criteria is comparable to other undeveloped parcels of land on the fringes of Cardiff.

4.37. The wider area that the site is located within is evidently characterised by built development. This includes the St Edeyrns Village scheme but also the M4 to the north and the lower density residential properties at Began Road and Bridge Road. The development of the site that is being promoted by Persimmon would therefore be seen in the context (and often against a back drop) of existing built development.

Section 9 – Flood Risk

4.38. A Flood Technical Note has been prepared by Think Urban to consider matters relating to flooding and drainage. This is included as Appendix 5.

4.39. Natural Resources Wales (NRW) prepares and manages Development Advice Maps (DAM) which zone land based on its risk of flooding. Draft Development Advice Maps have been prepared by Natural Resources Wales which show the use of a revised categorisation system.

4.40. In both the current and draft flood maps, the vast majority of the site is shown as being within Flood Zone A (in the current maps) and Flood Zone 1 (in the draft maps). Housing is considered to be a 'Highly Vulnerable Use' and the approach taken in both the current and emerging Technical Advice Note 15 is that the principle of housing is acceptable in this zone.

4.41. The Block Plan shows the vehicular access being located within an area of Flood Zone C2 (in the current maps) and Flood zone 3 (in the draft maps). The access point is required to be in this location as the section of Bridge Road narrows to the east and there is a requirement for the relocation of the bus gates to ensure that only vehicles coming eastwards through St Edeyrn's Village.

4.42. The Flood Technical Note prepared by Think Urban confirms that, whilst the principal access is within Flood Zone C2, further modelling work with regards to depths and velocity could demonstrate that the principal vehicular access could be acceptable for use during these extreme flooding conditions.

4.43. Further, an emergency vehicular access is proposed immediately east of the proposed relocated bus gates. The emergency access is entirely within Flood Zone A (in the current maps) and Flood Zone 1 (in the draft maps) and could be operated in emergencies where extreme flooding conditions may impact the ability to use the main access. The Flood Technical Note prepared by Think Urban confirms the in-principle acceptability of this approach.

Section 12 – Deliverability and Viability

4.44. These questions relate to the deliverability, viability, and ownership of the site that is being promoted.

4.45. Persimmon is the freehold owner of the site and is committed to its promotion and delivery and, as Cardiff Council would expect, has the funds to do so. With construction on the nearby St Edeyrn's Village being underway and at an advanced stage, Persimmon is well placed to deliver the site in a timely manner and there are inherent and obvious advantages associated with the proximity of the sites.

4.46. The Candidate Site Forms show the 135 homes being delivered between 2025 and 2027. This is based on a planning permission being submitted in early 2024 following consultation on the Deposit RLDP (and alongside its examination), the application being determined throughout 2024, and pre-commencement conditions being discharged in the first part of 2025 allowing for start on site in 2025. The delivery rates provided are informed by experience at St Edeyrn's Village.

4.47. In terms of viability and as a well-informed starting point, the site is greenfield and the abnormal costs can be predicted and forecast. Using Persimmon's experience of St Edeyrn's Village, it is clear that the delivery of the site (incorporating policy compliant affordable housing and anticipated Section 106 contributions) can be achieved. Persimmon will provide a High Level Viability Assessment at a later date during the promotion of the site.

5. Conclusion

5.1. This Statement has been prepared by Savills on behalf of Persimmon Homes (East Wales) Ltd to support the allocation of the site known as "Land at Bridge Road, Old St Mellons". The Statement has been prepared to support the Candidate Site Forms and provides further clarification with regards to a number of questions.

5.2. Persimmon's proposal is for 135 homes alongside a package of green and blue infrastructure, the retention of the PROW along the site's western boundary, and a package of access arrangements including a new primary vehicle access and emergency vehicle access.

5.3. The Statement (and completed Candidate Site Forms) demonstrate that:

- The site is in a sustainable location with a range of services close by (at the St Edeyrn's Village development and within Old St Mellons) and access to a range of modes of public transport. The sustainability of the site is demonstrated by the designation of the St Edeyrn's Village as a strategic site in the adopted LDP and the conclusions in the Inspector's Report for the adjoining land;
- No heritage, landscape, or ecological designations cover the site;
    - With regards to landscaping, the site is considered to have a moderate value that is comparable to other edge of settlement sites with housing seen in the context of other built development;
    - Whilst there is a requirement for further ecological survey work (likely at planning application), this would not preclude development and any mitigation and enhancement could be incorporated into more detailed plans for the site;
- Whilst western parts of the site are within Flood Zone C2 (in the current maps) and Flood Zone 3 (in the draft maps), no highly sensitive development is proposed in these parts of the site and an emergency access route is included in the proposals; and
- Given Persimmon's experience of delivering the St Edeyrn's Village site and their knowledge of the site, there is a high degree of confidence that the development of a high quality and policy compliant scheme is viable and achievable in the new plan period.

5.4. Persimmon is committed to the promotion of the site and working alongside Cardiff Council to secure its allocation. For the reasons above (and articulated through the Candidate Site Forms), the site is considered to perform strongly and Persimmon would welcome the opportunity to discuss this further.

Appendix 1 – Site Location Plan

Appendix 2 – Block Plan

Appendix 3 – Transport Technical Note

Appendix 4 – Preliminary Ecological Assessment Report

Appendix 5 – Flooding Technical Note

Appendix 4: Land at Bridge Road, Cardiff – Transport Technical Note

Project number:	21081		
Prepared by:	ABR		
Subject:	Candidate site submission - access appraisal		
Date:	7th April 2026	**File name:**	21081 d1d

1 Introduction

1.1 Background

1.1.1 Lime Transport has been commissioned by Persimmon Homes to prepare a Transport Technical Note in support of a candidate site submission for residential development on land at Bridge Road, Old St Mellons, Cardiff.

1.1.2 The site location is shown in **Figure 1.1** below.

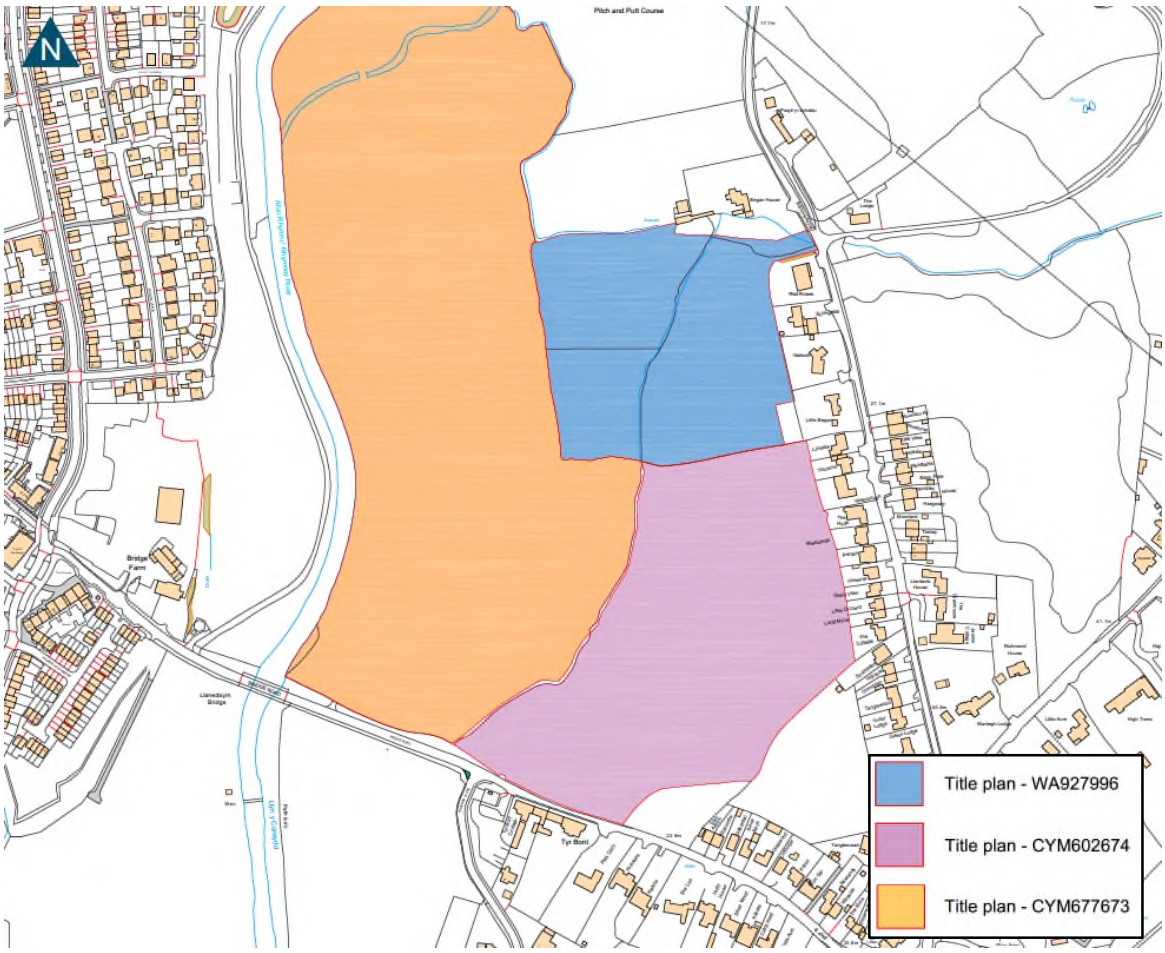


Figure 1.1 Site location

1.2 Likely development proposals

1.2.1 Based on a likely development density of 35 dwellings per hectare of net developmental area, it is anticipated that the development site, of approximately 5.0 hectares, could accommodate up to 130 residential dwellings.

1.2.2 The site is located approximately 600m east of the St Edeyrn's Village, which is currently under construction. This site is not currently allocated in the Cardiff Local Development Plan (LDP), and the purpose of this report is to promote the site through the emerging LDP.

1.3 Purpose of this report

1.3.1 The purpose of this report is to set out the connectivity of the site in terms of accessibility by walking, cycling and public transport to local facility and amenities, and sets out the most appropriate access arrangements to serve the candidate site, highlighting any highway improvement works or mitigation measures that may be required to support the development.

1.4 Structure of this report

1.4.1 Following this introductory section, this report is structured as follows:

- Section 2 considers the sustainability of the site in terms of its location and access to local facilities and amenities;
- Section 3 predicts the likely travel characteristics for the candidate site, and describes the distribution of traffic across the highway network;
- Section 4 considers the potential access arrangements; and,
- Section 5 summaries the report.

2 Existing situation

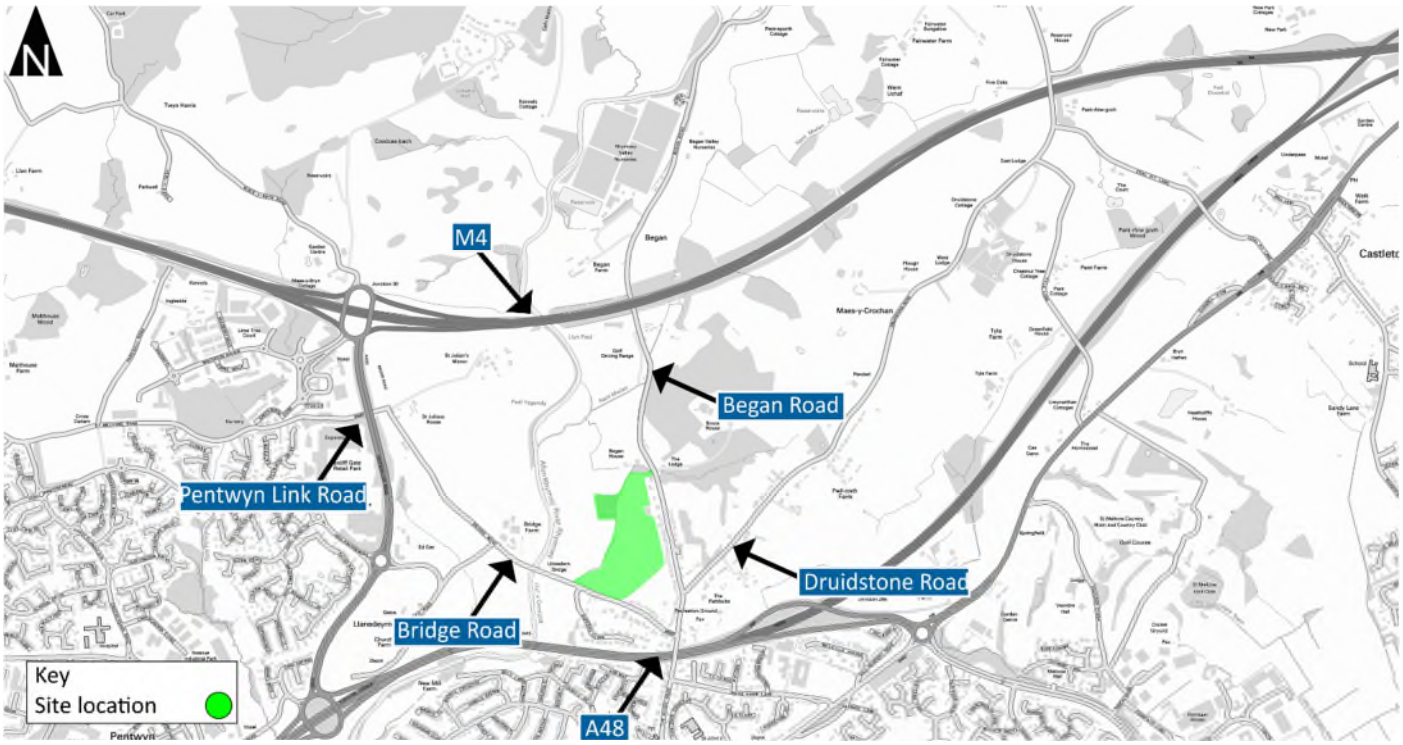
2.1 Site location

2.1.1 The section of the report describes the site location, existing travel characteristics and access to facilities and amenities surrounding the development site.

2.1.2 The site is bounded by:

- Agricultural land/open land to the north;
- Began Road and properties fronting Began Road to the east;
- Bridge Road and properties fronting Bridge Road to the south; and,
- Agricultural land/open land to the west.

2.1.3 The location of the development site together with the local highway network is shown in **Figure 2.1** below.



Contains Ordnance Survey data © Crown Copyright and database right (2021)

Figure 2.1 Local highway network

2.2 Travel characteristics

2.2.1 Census data has been reviewed, to establish the travel characteristics of the existing population surrounding the site, including travel to work and car ownership data.

Travel to work

2.2.2 Travel to Work data from the 2011[1] Census has been used to establish the mode of travel to work for existing residents in the area. Lower super output areas are geographical areas built from contiguous output areas, which are consistent in population size. Between four to six output areas make up Lower Super Output Areas (LSOA), and between four to six LSOA areas make up Middle Super Output Areas (MSOA).

2.2.3 **Table 2.1** below sets out the travel to work data for people that live within St Mellons and the surrounding area. This data sets out the travel to work mode split for those that live within the LSOA in which the site is located, the MSOA and Cardiff as a whole. This data excludes those that work from home and those that are not in employment.

Table 2.1 Mode split for journey to work (2021 Census)

	Mode split (%)		
	003C (LSOA)	003 (MSOA)	Cardiff
Train	2	2	3
Bus, minibus or coach	5	6	11
Driving a car or van	82	79	59
Passenger in a car or van	5	5	5
Bicycle	1	1	4
On foot	3	4	16
Other	2	1	2
Total	**100**	**100**	**100**

2.2.4 It can be seen from the table above that 82% of existing residents that live within the lower super output area, in which the site is located, travel to work by car (as driver), with a further 5% travelling as a passenger. It can also be seen that 11% of residents travel to work by sustainable modes, including walking, cycling and public transport.

Car ownership

2.2.5 **Table 2.2** over the page outlines the car or van availability from the 2021 Census, which has been used to establish local car ownership rates for existing residents. It should be noted that the site is split between the Cardiff 003E and Cardiff 003F LSOAs.

Table 2.2 Car or van availability (2021 Census)

Area	2021
Car ownership for all dwelling types	
LSOA 003E	1.48
LSOA 003F	1.31
MSOA 003	1.41
Cardiff (as a whole)	1.05
Car ownership for flats	
LSOA 003E	0.84

[1] It should be noted that whilst 2021 Census 'Method of Travel to Work' data is available, the Office for National Statistics (ONS) has issued a warning that care should be taken when interpreting the results. This is because the 2021 Census was undertaken during the Covid-19 pandemic, when a large proportion of population worked from home and people were discouraged from using public transport.

LSOA 003F	0.91
MSOA 003	0.86
Cardiff (as a whole)	0.60
Card ownership for all affordable dwellings (houses and flats)	
LSOA 003E	0.54
LSOA 003F	0.60
MSOA 003	0.66
Cardiff (as a whole)	0.48
Car ownership for all private dwellings types (houses and flats)	
LSOA 003E	1.05
LSOA 003F	1.12
MSOA 003	1.16
Cardiff (as a whole)	1.08

2.2.6 It can be seen from the table above that the average car or van availability for all dwelling types/tenures across the two Lower Super Output Areas (LSOAs) in which the site is located is 1.40 cars or vans per household, which is marginally lower than the Middle Layer Super Output Area (MSOA) at 1.41, and higher than Cardiff as a whole (1.05).

2.2.7 Flats across the two LSOAs tend to have a lower car ownership, at an average of 0.88 cars or vans per household, which is slightly higher than the MSOA at 0.86, but higher than Cardiff as a whole (0.60).

2.2.8 Census data also indicates that average car or van availability for all social rented properties within the Lower Super Output Areas (LSOA), in which the site is located, is 0.57 cars or vans per household, which is almost half that for all private dwellings (1.09 cars or vans per dwelling).

2.3 Connectivity

Walking

2.3.1 St Edeyrns Village is located approximately 600m west of the site, which offers access to primary schools, sport pitches, retail/community facilities, play areas and public transport facilities that form part of the St. Edeyrns development.

2.3.2 The existing footway provision within the vicinity of the site include:

- A small section of footway, approximately 50m long, at the western end of Druidstone Road;
- A footway of varying width on both sides of the B4256 Tyr Winch Road (north of the bridge across the A48); and,
- a footway on the western side of Tyr Winch Road, south of the bridge across the A48.

2.3.3 There is no footway along Began Road (north of the junction with Druidstone Road).

2.3.4 It should also be noted that, as part of the St Edeyrn's Village development (to the west of the site), Bridge Road has been closed to through traffic. The road is designated as a 'Quiet Lane' that is suitable for use by pedestrians and cyclists, and provides vehicular access to a small number of existing properties along Bridge Road and Ruperra Close.

2.3.5 The Chartered Institution of Highways and Transportation (CIHT) guidelines *'Providing for Journeys on Foot'* indicates that the desirable walking distance for commuting and school journeys is 500m, the acceptable walking distance is 1km and 2km is the preferred maximum.

2.3.6 The CIHT guidelines indicate that the desirable walking distance for '*Elsewhere'*, including local amenities, is 400m, the acceptable walking distance is 800m and 1.2km is the preferred maximum.

2.3.7 The walk distance to the majority of the facilities and local amenities is outlined in below, with the local amenities within the vicinity within walking and cycling distance of the site shown in **Figure 2.2**.

St Edeyrns Village	(600m)	Pharmacist	(2.1km)
Employment	(1.9km)	Retail	(2.7km)
Leisure and entertainment	(1.0km)	Education	(2.4km)
Post office	(2.7km)	Recreation grounds	(1.2km)
Community services	(2.1km)	Places of worship	(1.8km)
Food store	(2.7km)	Library	(2.7km)

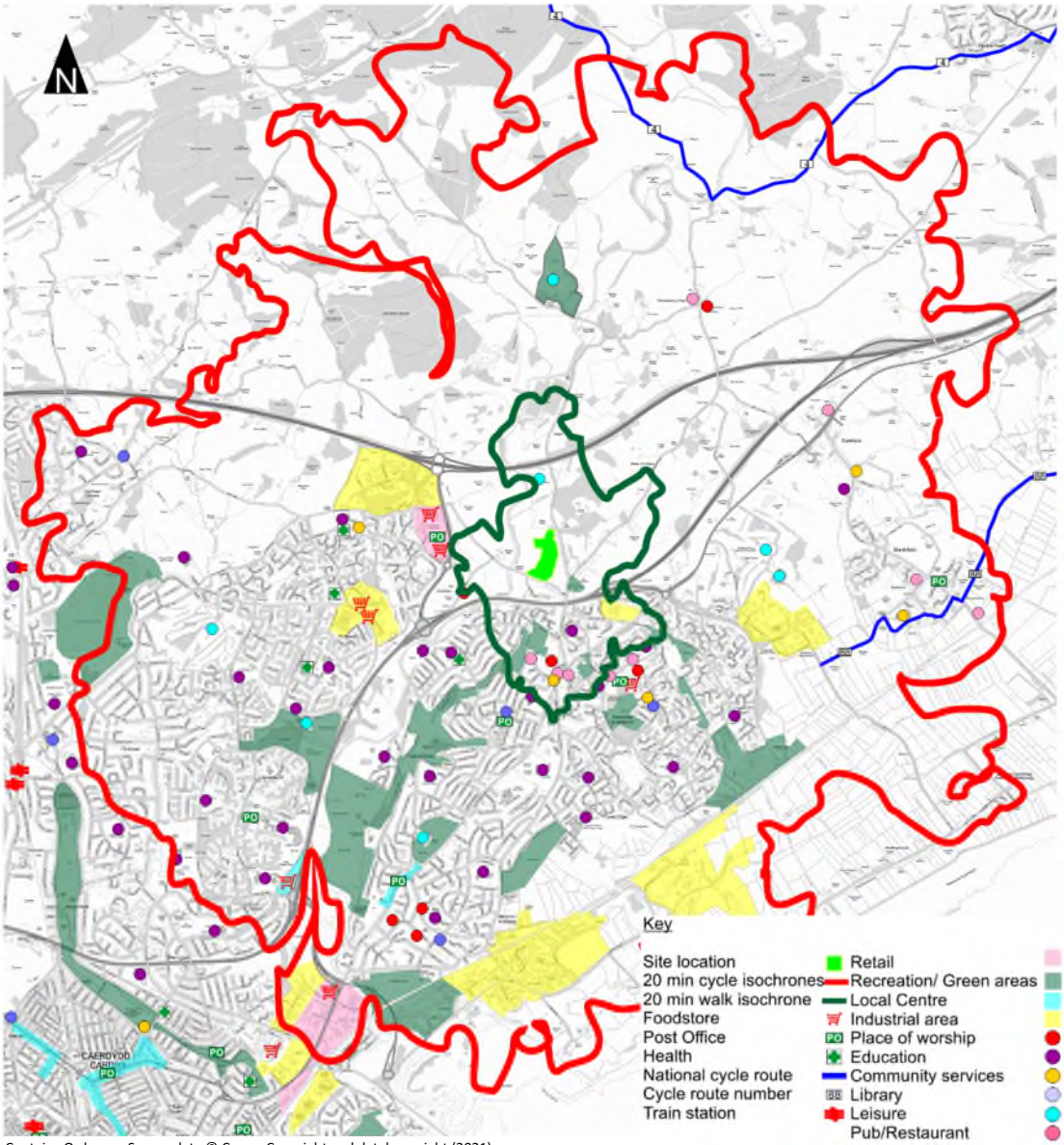


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Figure 2.2 Location of facilities and amenities within a 20 minute walk and cycle distance

2.3.8 As part of the St Edeyrns Village, the candidate site will benefit from being within walking and cycling distance of a range of facilities and amenities to the west of the site, which is further encouraged by a designated 'Quiet Lane', which limits vehicle trips along Bridge Road.

2.3.9 The location of the candidate site in relation to the St Edeyrns Village is shown in **Figure 2.3** below.

Figure 2.3 Location of candidate and St Ederyn's masterplan

Cycling

2.3.10 The closest cycle routes to the site are shown in **Figure 2.4** below.

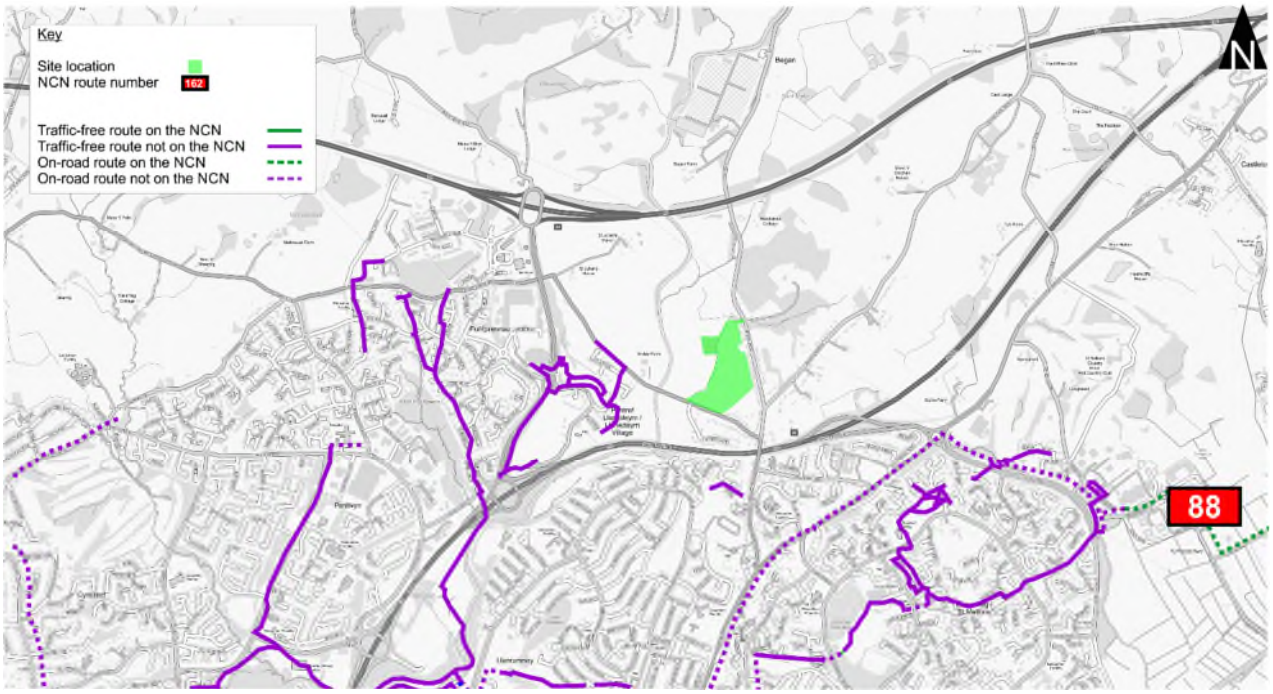

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Figure 2.4 Local cycle network

2.3.11 It can be seen from the Figure 2.3 above that there are a number of local cycle routes within the vicinity of the site, that are a mix of both on-road and traffic-free routes.

2.3.12 The site is also within 2.0km (easy cycling distance) of the proposed Cycle Superhighway (CW2) along the B4487 Newport Road, which connects the St Mellons Business Park with Cardiff City Centre. A short section of the route, within Cardiff City Centre has been completed, and it is anticipated that the remainder of the route (which forms part of Cardiff's integrated Network Map), will be completed within 15 years.

2.3.13 In addition to the local routes, National Cycle Network (NCN) Route 88 is located approximately 2km south of the site. NCN Route 88 is a proposed coastal route between Newport, Cardiff, Bridgend and Margam Country Park. Currently only short sections of the route have been completed, including the section between NCN Route 4 at Dyffryn (Newport) and the St Mellons Business Park, where it will connect with CW2.

2.4 Accessibility by public transport

Bus services

2.4.1 The existing closest bus stops to the site are located along:

- Church Road (within St Edeyrn's Village) - approximately 600m west from the centre of the site;
- Along the Burnham Drive - approximately 1.5km south-west from the centre of the site; and,
- Along the B4487 Newport Road - approximately 1.5km south-east from the centre of the site.

2.4.2 The location of the closest bus stops to the site, together with the routes serving these stops is presented in **Figure 2.5** below.

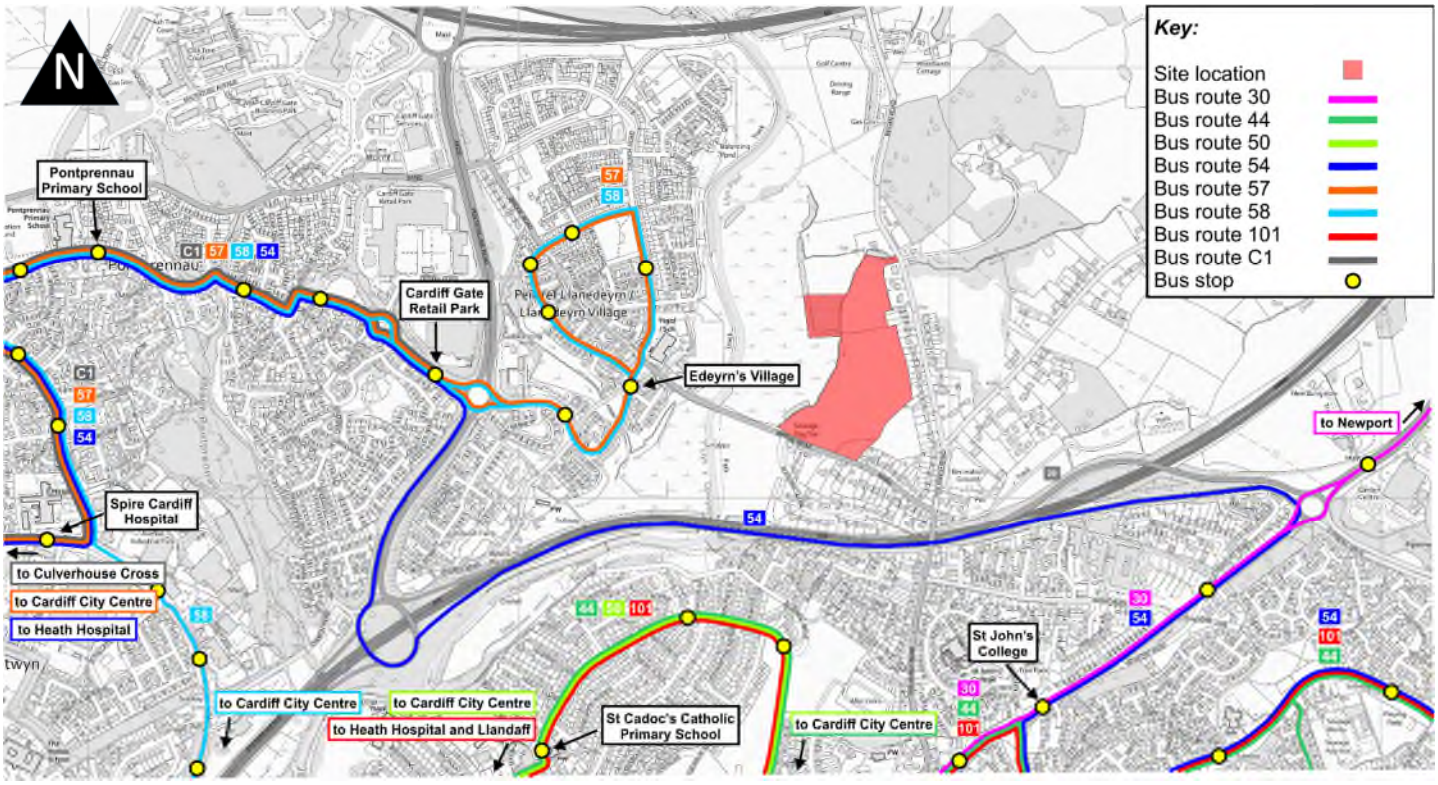

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Figure 2.5 Bus routes in the vicinity of the site

2.4.3 **Table 2.2** below provides a breakdown of routes and frequencies of services that call at the closest stops to the site.

Table 2.2 Bus routes and service frequencies

Route No.	Nearest bus stop (m)	Route	Frequency
Edeyrn's Village			
57	1000	St Edeyrn's Village – Cardiff via Pentwyn (Glyn Coed Road), Llanedeyrn, Penylan, Albany Road, City Road	3 per hour
58	1000	St Edeyrn's Village – Cardiff via Pentwyn (Pentwyn Road), Llanedeyrn, Penylan, Albany Road, City Road	3 per hour
Bliuebell Inn			
30	1500	Cardiff – Newport via Newport Road, Rumney, St Mellons, Castleton, Maesglas	2 per hour
44	1500	Cardiff – St Mellons via Newport Road, Rumney, Trowbridge	4 per hour
101	1500	Cardiff – St Mellons via Fairwater, Llandaff, Whitchurch, Heath Hospital, Cyncoed, Pentwyn, Penylan, Rumney, Llanrumney	6 per day

Cardiff Gate Retail Park			
C1	1600	Pontprennau – Culverhouse Cross via Pentwyn, Llanedeyrn, Penylan, Albany Road, City Road, Cardiff city centre, Cowbridge Road, Ely	3 per hour
54	1600	Rumney – Heath Hospital via St Mellons, Pontprennau, Llanedyrn, Cyncoed, Pentwyn	1 per day

Rail services

2.4.4 The closest railway stations are Heath High Level and Heath Low Level, located approximately 6km west of the site. The service pattern at these stations is as follows:

- Heath High Level:
  - Cardiff Central (every 10 minutes)
  - Barry (every 10/20 minutes)
  - Penarth (every 30 minutes)
  - Bridgend (every 60 minutes)
  - Caerphilly (every 10 minutes)
  - Bargoed (every 10/20 minutes)
  - Rhymney (every 30 minutes)
- Heath Low Level:
  - Penarth via Cardiff Central (every 30 minutes)
  - Coryton (every 30 minutes)

2.4.5 In addition to this, Cardiff Central Station is approximately 9km south-west of the site, and is accessible by bus (routes 30, 44, 57, 58), and Newport Railway Station is approximately 9km north-east of the site (also accessible by bus route 30).

2.4.6 In addition, planning permission has been granted for a new Cardiff Parkway Station to the south of the St Mellons Business Park, as part of a major employment development. The new station will be situated on the South Wales Mainline, and it is planned to have a journey time of approximately seven minutes to both Cardiff Central and Newport Rail stations. This station is planned to open as a condition for the completion of a business park to the south of St Mellons Road.

2.5 Local highway network

2.5.1 A description of the local highway network within the study area is contained in **Table 2.3** below and shown in Figure 2.1 above.

Table 2.3 Local highway network

	Description
B4562 Began Road	
Description	District distributor road providing a connection between the B4487 Newport Road (to the south) and Rudry and rural hinterland (to the north of the M4 Motorway). There are no footways on either side of the carriageway along Began Road (north of the junction with Druidstone Road), but there are footways on both sides of the carriageway along Tyr Winch Road (north of the bridge across the A48) and a footway on the west side of the road (to the south of the bridge)
Width	Varies in width (generally between 4.5m to 4.9m)
Speed limit	20mph
Street lighting	Yes, but not to current standards
Crossing facilities	No formal crossing facilities
Bus route	No
Character	Rural road with direct residential frontages on both sides fo the carriageway past the site
On-street parking	No parking restrictions
Druidstone Road	
Description	Local access road that provides a connection with Began Road (at it's western end) and again with Began Road, north of the M4 Motorway. There are short sections of footway along the southern edge of the carriageway
Width	Generally 5.0m wide
Speed limit	20mph
Street lighting	Yes, but not to adoptable standards
Crossing facilities	No formal crossing facilities
Bus route	No
Character	Rural road with direct residential frontages on both sides of the carriageway past the site
On-street parking	No parking restrictions
Bridge Road	
Description	A 'Quiet Lane' which provides access to the existing properties at the eastern end of the road, as well as providing access to residential properties along Ruperra Close. There are no footways on either side of the carriageway
Width	Approximately 4.7m to 5.0m wide
Speed limit	20mph
Street lighting	Limited
Crossing facilities	No formal crossing facilities
Bus route	No
Character	Rural road with direct residential frontages on both sides of the carriageway past the site
On-street parking	No parking restrictions

2.6 Personal injury collision data

2.6.1 Personal injury collision data has been obtained for the period 2020 to 2024 (inclusive) for the area around the site. The study area, which includes key routes and junctions surrounding the site is shown in **Figure 2.6** below.

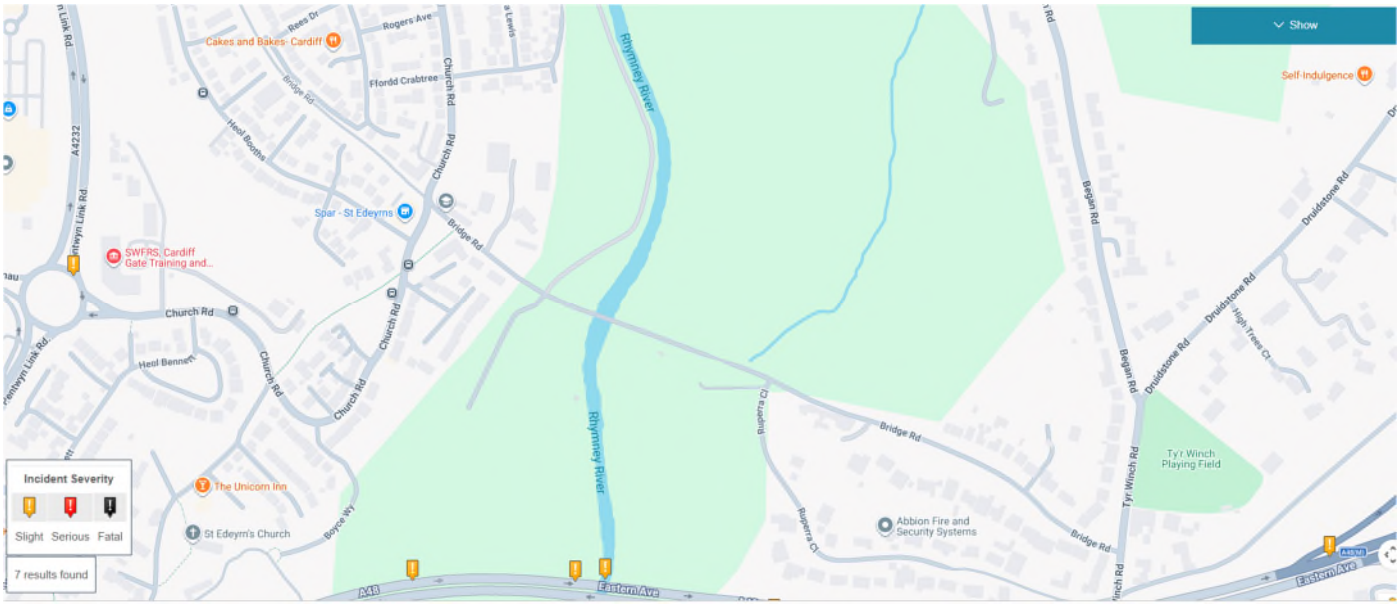

Figure 2.6 Location and severity of personal injury collisions

2.6.2 It can be seen from the figure above that there have been no collisions, resulting in person injury, within the study area within the most recent five-year period.

3 Travel characteristics

3.1 Introduction

3.1.1 In order to assess the impact of a development of up to 130 dwellings on the existing transport infrastructure, it is necessary to assess the number of person trips (by mode) generated by the proposals. This section of the Transport Statement, therefore, outlines the methodology used to predict person trip generation.

3.2 Trip generation

3.2.1 The TRICS (v.8.26.3) trip generation database has been reviewed in order to predict the likely level of trips generated by the candidate site.

3.2.2 Sites have been selected based on the following parameters:

- Land use: Residential; Mixed private/affordable housing;
- Survey type: Multi-modal;
- Survey days: Monday-Friday;
- Number of dwellings selected: 9 to 500 (units);
- Regions selected: Edge of town, Suburban area, Neighbourhood centre; and,
- Locations: All, excluding Central London, Northern Ireland and Republic of Ireland

Table 3.1 Trip generation

Time period	Arrival trip rate	No. of arrivals	Depart trip rate	No. of departs	Total trip rate	Total movements
Total people						
8am–9am	0.375	49	1.094	142	1.469	191
5pm-6pm	0.766	100	0.302	39	1.068	139
7am-7pm	4.612	600	4.723	614	9.335	1214
Pedestrians						
8am–9am	0.087	11	0.348	45	0.435	57
5pm-6pm	0.126	16	0.103	13	0.229	30
7am-7pm	1.000	130	1.008	131	2.008	261
Cyclists						
8am–9am	0.009	1	0.028	4	0.037	5
5pm-6pm	0.03	4	0.007	1	0.037	5
7am-7pm	0.096	12	0.173	22	0.269	35
Public transport users						
8am–9am	0	0	0.065	8	0.065	8
5pm-6pm	0.043	6	0.014	2	0.057	7
7am-7pm	0.191	25	0.191	25	0.382	50
Vehicles						
8am–9am	0.185	24	0.504	66	0.689	90
5pm-6pm	0.391	51	0.217	28	0.608	79
7am-7pm	2.49	324	2.716	353	5.206	677

3.2.3 It can be seen from the table above that the development could generate up to 90 vehicle movements in the am peak, a total of 79 vehicle movements in the pm peak, and up to 677 vehicle movements throughout the day 7am-7pm).

3.2.4 It can also be seen from the table that driving is likely to be the preferred method of travel, contributing to 56% of all trips, with walking likely to be the second most popular method of trave (with 22% of all trips likely to be undertaken on foot).

3.3 Working from Home

3.3.1 It should be noted that in September 2020, the Welsh Government announced it's long- term ambition to see 30% of Welsh workers working from home or near to home, including after the threat of Covid-19 lessens.

3.3.2 The WG stated that working from home would provide the choice to work in a way that benefits productivity and work/life balance, whilst reducing road congestion, pollution and the private car, and potentially driving regeneration and economic activity in communities. Based on this, the trips (by mode), outlined in Table 3.1 above, are anticipated to reduce by 30% to reflect the target for people working from home.

3.4 Assignment and distribution of development generated traffic

3.4.1 The distribution of development generated trips has been based on the 'Journey to Work' datasets form the 2011 Census for the existing residential areas to the south of the site.

3.4.2 The likely distribution is outlined in **Table 3.2** over the page. It should be noted that this data excludes those working from home and those not currently in employment.

Table 3.4 Likely distribution of development generated trips

Destination	% of commuters
Cardiff	81%
Newport	8%
Rhondda Cynon Taf	4%
Vale of Glamorgan	3%
Merthyr Tydfil	1%
Monmouth	1%

3.4.3 It can be seen from the table above that a large proportion of those who live within the vicinity of the site work in Cardiff (81%). It is also anticipated that the majority of trips to from the site will be via the B4562 to the south of the site, with a very small percentage travelling via Druidstone Road (to the east).

4 Access strategy

4.1.1 As outlined above, it is anticipated that, based on an average density of 35 dwellings per hectare, the candidate site is capable of accommodating up to 130 dwellings. This section of the report outlines the proposed access strategy.

4.1.2 An outline block plan of the candidate site is shown in **Figure 4.1** below.

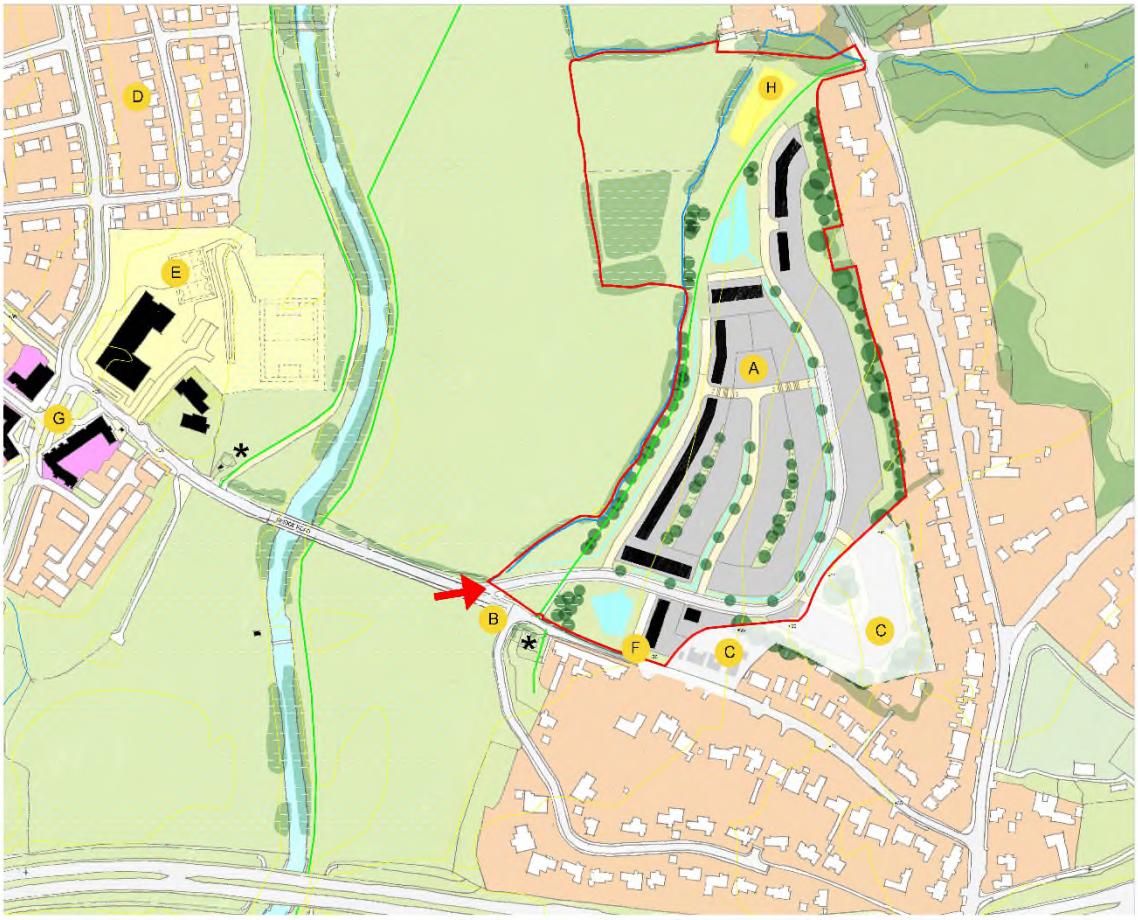

Figure 4.1 Outline block plan of the candidate site and St Ederyn's Village (to the west)

4.1.3 It can be seen from the figure above that the candidate site is located on the southeast corner of the St Edeyrns Village, and therefore, benefits from being located within very close proximity to a range of local facilities and amenities, employment uses and recreational activities.

4.2 Access arrangements

4.2.1 As part of the candidate site submission, it is proposed that access to the development will be provided from Bridge Road, through the existing St Edeyrn's housing development (to the west of the site), which itself is accessed off the A423, south of J30 of the M4.

4.2.2 The proposed access, which is shown in **Figure 4.2** below, is located immediately west of the junction of Bridge Road/Ruperra Close. In order to accommodate the new access, it will be necessary to:

- Relocate the existing bus gate between the site access and Ruperra Close; and,
- Amend the western kerb-line of Ruperra Close (at the junction bell-mouth).

4.2.3 These changes are necessary to ensure that no traffic can travel westbound (along Bridge Road) from Ruperra Close, and the rest of Old St Mellons, and to ensure that no traffic from the candidate site can travel eastbound along Bridge Road towards Old St Mellons.

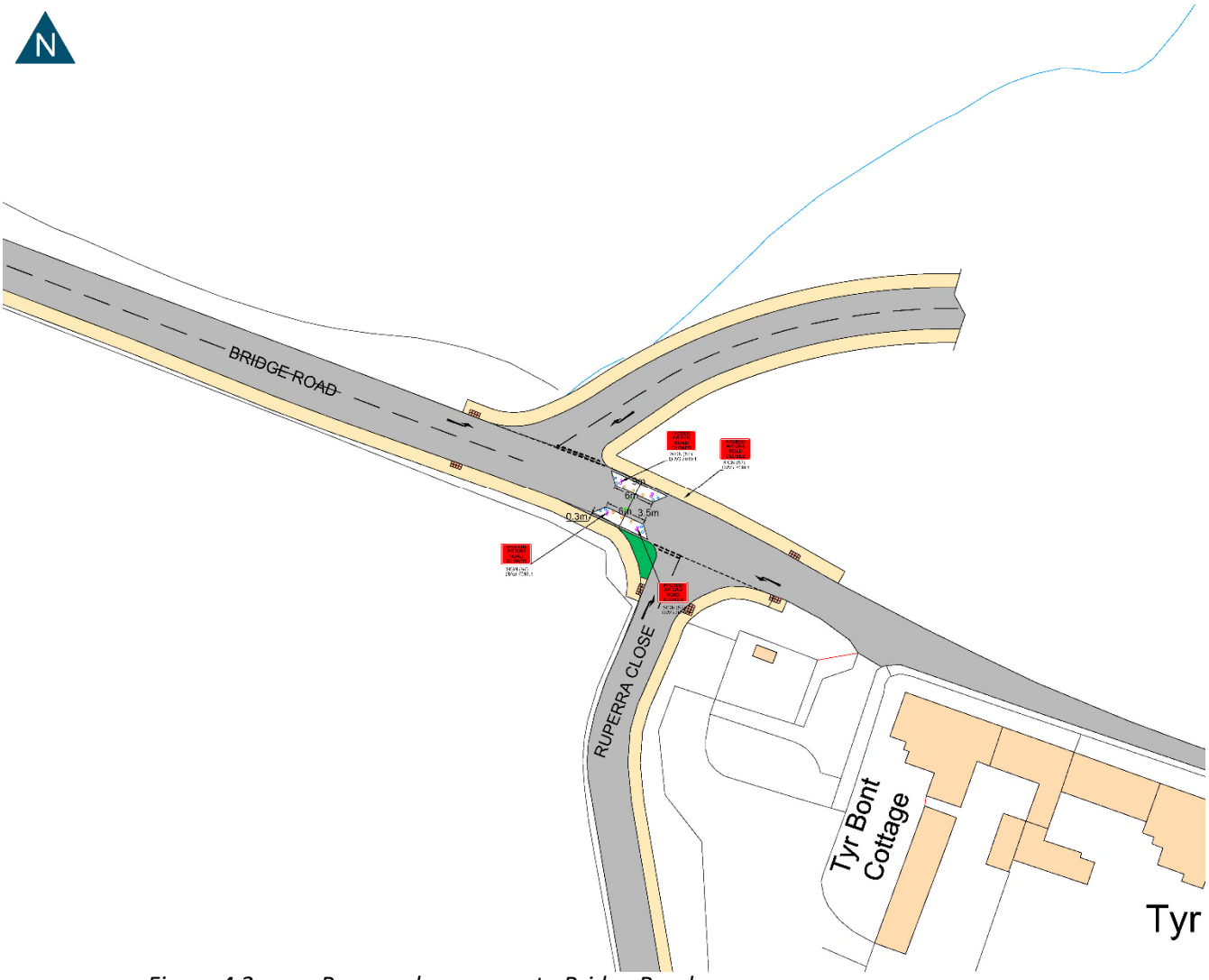

Figure 4.2 Proposed access on to Bridge Road

4.2.4 A swept-path analysis of a large refuse vehicle passing a car at the access is included in **Appendix B**.

Pedestrians

4.2.5 There are a number of key pedestrian desire lines for residents of the development site, including St Edeyrn's Village (approximately 1km west of the development). It is, therefore, proposed to connect to St Edeyrn's Village to the west and provide access to primary schools, sport pitches, retail/community facilities, play areas and public transport facilities that form part of the St. Edeyrn's development.

5 Summary and conclusions

5.1.1 Lime Transport has been commissioned by Persimmon Homes to prepare a Transport Technical Note in support of a candidate site submission for residential development on land at Bridge Road, Old St Mellons, Cardiff.

5.2 Likely travel characteristics

5.2.1 It is anticipated that the candidate site could accommodate up to 130 residential dwellings, which could generate up to 90 vehicle movements in the morning peak period, up to 79 vehicle movements in the evening peak period, and up to 677 vehicle movements throughout the day (7am-7pm).

5.3 Access strategy

5.3.1 As part of the candidate site submission, it is proposed that access to the development will be provided from Bridge Road, through the existing St Edeyrn's housing development (to the west of the site), which itself is accessed off the A423, south of J30 of the M4.

5.3.2 It is proposed to provide connections to St Edeyrn's Village, located to the west of the site, which will provide access to a range of local facilities and amenities within close proximity of the site. Furthermore, the volume of vehicles using Bridge Road (to the west of the bus gate) is extremely low, creating a 'Quiet Lane' that is suitable for use by pedestrians and cyclists.

5.4 Conclusions

5.4.1 It is considered that due to the site's close proximity to the proposed St Edeyrn's Village, that the site is very well located, with access on foot to a range of new local amenities and public transport facilities.

5.4.2 Due to the size of the development, it is considered that the vehicle trip generation, associated with the proposed use can be accommodated on the surrounding highway network.

5.4.3 It is considered that the candidate site does not have an unacceptable impact on highway safety and can be accommodated on the local transport network and the residual cumulative impacts are not severe. National Planning Policy Framework (NPPF) December 2024 (modified in February 2025) states (para. 116) that:

> *'Development should only be prevented or refused on highways grounds if there would be an unacceptable impact on highway safety, or the residual cumulative impacts on the road network would be severe.'*

Appendices

Appendix A

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use: 03 - RESIDENTIAL

Category: M - MIXED PRIVATE/NON-PRIVATE HOUSING

Selected Vehicle Type: Total People

Selected regions and areas:

02	**SOUTH EAST**		
	CT	CENTRAL BEDFORDSHIRE	2 days
	ES	EAST SUSSEX	11 days
	HC	HAMPSHIRE	10 days
	HF	HERTFORDSHIRE	2 days
	KC	KENT	1 day
	MW	MEDWAY	1 day
	OX	OXFORDSHIRE	1 day
	SC	SURREY	8 days
	WS	WEST SUSSEX	16 days
03	**SOUTH WEST**		
	DV	DEVON	1 day
	SM	SOMERSET	1 day
	WL	WILTSHIRE	1 day
04	**EAST ANGLIA**		
	CA	CAMBRIDGESHIRE	3 days
	NF	NORFOLK	13 days
08	**NORTH WEST**		
	GM	GREATER MANCHESTER	1 day
10	**WALES**		
	CM	CARMARTHENSHIRE	1 day
11	**SCOTLAND**		
	HI	HIGHLAND	1 day
17	**ULSTER (NORTHERN IRELAND)**		
	DE	DERRY	1 day

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

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Primary Filtering Selection:

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

Parameter:	DWELLS
Actual Range:	9 to 500 (units:DWELLS)
Range Selected by User:	9 to 500 (units:DWELLS)
Parking Spaces Range:	11 - 1368

Public Transport Provision:

Selection by:	All Surveys Included
Date Range:	01/01/01 to 01/01/01

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

Selected survey days:

Thursday	21 days
Tuesday	19 days
Wednesday	35 days

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

Selected survey types:

Manual count	75
Direction ATC Count	0

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

Selected Locations:

Edge of Town	40 days
Neighbourhood Centre	22 days
Suburban Area	13 days

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

Selected Location Sub Categories:

Out of Town	2 days
Residential Zone	52 days
Village	21 days

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

Inclusion of Servicing Vehicle Counts:

Servicing vehicles Excluded	5 days
Servicing vehicles Included	16 days
Servicing vehicles Unknown	54 days

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Secondary Filtering Selection:

Use Class:

C3	75 surveys

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order (England) 2020 has been used for this purpose, which can be found within the Library module of TRICS®.

Population within 500m Range:

10 - 5900

Population within 1 mile:

1,000 or Less	2 surveys
1,001 to 5,000	19 surveys
10,001 to 15,000	21 surveys
15,001 to 20,000	4 surveys
20,001 to 25,000	3 surveys
25,001 to 50,000	5 surveys
5,001 to 10,000	21 surveys

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

Population within 5 miles:

100,001 to 125,000	6 surveys
125,001 to 250,000	22 surveys
25,001 to 50,000	14 surveys
5,001 to 25,000	9 surveys
50,001 to 75,000	11 surveys
75,001 to 100,000	13 surveys

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

Car ownership within 5 miles:

0.6 to 1.0	7 surveys
1.1 to 1.5	57 surveys
1.6 to 2.0	11 surveys

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

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Petrol filling station:

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

Travel Plan:

No	10 surveys
Yes	65 surveys

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

PTAL Rating:

No PTAL Present	75 surveys

This data displays the number of surveys within the selected set that include petrol filling station activity, and the number of surveys that do not.

COVID-19 Restrictions:

Yes - At least one survey within the selected data set was undertaken at a time of Covid-19 restrictions

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LIST OF SITES relevant to selection parameters:

Site 1:	CA-03-M-01	**Number of dwellings:**	52.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	WATERBEACH		
Postcode:	CB25 9GJ		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 2:	CA-03-M-02	**Number of dwellings:**	87.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	SOHAM		
Postcode:	CB7 5AH		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 3:	CA-03-M-03	**Number of dwellings:**	194.00 DWELLS
Development Name:	DETACHED & SEMI-DETACHED		
Location:	SAWTRY		
Postcode:	PE28 5WE		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 4:	CM-03-M-02	**Number of dwellings:**	49.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	CARMARTHEN		
Postcode:	SA31 3EH		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 5:	CT-03-M-01	**Number of dwellings:**	75.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	SHEFFORD		
Postcode:	SG17 5FA		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 6:	CT-03-M-02	**Number of dwellings:**	150.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	SHEFFORD		
Postcode:	SG17 5FA		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 7:	DE-03-M-01	**Number of dwellings:**	21.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	COLERAINE		
Postcode:	BT52 1XR		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 8:	DV-03-M-01	**Number of dwellings:**	61.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	EXETER		
Postcode:	EX2 4SJ		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		

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Site 9:	ES-03-M-01	**Number of dwellings:**	74.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	NEAR UCKFIELD		
Postcode:	TN22 3AP		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 10:	ES-03-M-07	**Number of dwellings:**	188.00 DWELLS
Development Name:	MIXED HOUSING		
Location:	PEACEHAVEN		
Postcode:	BN10 8SA		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 11:	ES-03-M-09	**Number of dwellings:**	16.00 DWELLS
Development Name:	DETACHED/SEMI-DETACHED		
Location:	NORTHIAM		
Postcode:	TN31 6QQ		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 12:	ES-03-M-11	**Number of dwellings:**	354.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	HAILSHAM		
Postcode:	BN27 3UB		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 13:	ES-03-M-14	**Number of dwellings:**	119.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	EASTBOURNE		
Postcode:	BN21 2BH		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 14:	ES-03-M-15	**Number of dwellings:**	80.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	MARESFIELD		
Postcode:	TN22 2DJ		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 15:	ES-03-M-16	**Number of dwellings:**	119.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	BEXHILL		
Postcode:	TN39 4JX		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 16:	ES-03-M-18	**Number of dwellings:**	75.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	WIVELSFIELD GREEN		
Postcode:	RH17 7EW		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		

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Site 17:	ES-03-M-19	**Number of dwellings:**	149.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	HAILSHAM		
Postcode:	BN27 1PA		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 18:	ES-03-M-20	**Number of dwellings:**	47.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	HORAM		
Postcode:	TN21 9DZ		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 19:	ES-03-M-23	**Number of dwellings:**	66.00 DWELLS
Development Name:	DETACHED & SEMI-DETACHED		
Location:	HAILSHAM		
Postcode:	BN27 2RE		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 20:	GM-03-M-01	**Number of dwellings:**	9.00 DWELLS
Development Name:	TERRACED & FLATS		
Location:	ROCHDALE		
Postcode:	OL12 9BX		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 21:	HC-03-M-06	**Number of dwellings:**	328.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	NEAR FAREHAM		
Postcode:	PO14 4PB		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 22:	HC-03-M-13	**Number of dwellings:**	106.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	YATELEY		
Postcode:	GU46 7AU		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 23:	HC-03-M-14	**Number of dwellings:**	200.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	WINCHESTER		
Postcode:	SO22 5QN		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 24:	HC-03-M-17	**Number of dwellings:**	275.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	ALTON		
Postcode:	GU34 2FR		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		

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Site 25:	HC-03-M-19	**Number of dwellings:**	286.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	BASINGSTOKE		
Postcode:	RG23 7GJ		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 26:	HC-03-M-21	**Number of dwellings:**	115.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	BASINGSTOKE		
Postcode:	RG23 7PZ		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 27:	HC-03-M-24	**Number of dwellings:**	314.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	ANDOVER		
Postcode:	SP11 6ZQ		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 28:	HC-03-M-25	**Number of dwellings:**	215.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	FLEET		
Postcode:	GU51 5EN		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 29:	HC-03-M-26	**Number of dwellings:**	150.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	YATELEY		
Postcode:	GU46 7AU		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 30:	HC-03-M-28	**Number of dwellings:**	136.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	FLEET		
Postcode:	GU52 0AF		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 31:	HF-03-M-06	**Number of dwellings:**	208.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	HERTFORD		
Postcode:	SG14 2FZ		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 32:	HF-03-M-07	**Number of dwellings:**	191.00 DWELLS
Development Name:	TERRACED & DETACHED		
Location:	SAWBRIDGEWORTH		
Postcode:	CM21 0DW		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		

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Site 33:	HI-03-M-06	**Number of dwellings:**	117.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	NEAR FORT WILLIAM		
Postcode:	PH33 7FA		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 34:	KC-03-M-03	**Number of dwellings:**	140.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	MAIDSTONE		
Postcode:	ME16 0FQ		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 35:	MW-03-M-01	**Number of dwellings:**	128.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	RAINHAM		
Postcode:	ME8 8XU		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 36:	NF-03-M-02	**Number of dwellings:**	250.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	AYLSHAM		
Postcode:	NR11 6FA		
Main Location Type:	Edge of Town		
Sub Location Type:	Out of Town		
PTAL:	n/a		
Site 37:	NF-03-M-03	**Number of dwellings:**	70.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	NORTH WALSHAM		
Postcode:	NR28 0FW		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 38:	NF-03-M-04	**Number of dwellings:**	70.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	HUNSTANTON		
Postcode:	PE36 5PS		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 39:	NF-03-M-14	**Number of dwellings:**	321.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	WYMONDHAM		
Postcode:	NR18 0UE		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 40:	NF-03-M-39	**Number of dwellings:**	61.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	ATTLEBOROUGH		
Postcode:	NR17 1FF		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		

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Site 41:	NF-03-M-42	**Number of dwellings:**	120.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	HOVETON		
Postcode:	NR12 8GP		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 42:	NF-03-M-43	**Number of dwellings:**	100.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	NEAR NORWICH		
Postcode:	NR14 7UP		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 43:	NF-03-M-51	**Number of dwellings:**	120.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	HARLESTON		
Postcode:	IP20 9GE		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 44:	NF-03-M-55	**Number of dwellings:**	150.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	NEAR NORWICH		
Postcode:	NR14 7TS		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 45:	NF-03-M-59	**Number of dwellings:**	153.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	WYMONDHAM		
Postcode:	NR18 0GB		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 46:	NF-03-M-61	**Number of dwellings:**	180.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	NEAR NORWICH		
Postcode:	NR14 8FQ		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 47:	NF-03-M-62	**Number of dwellings:**	250.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	AYLSHAM		
Postcode:	NR11 6FA		
Main Location Type:	Edge of Town		
Sub Location Type:	Out of Town		
PTAL:	n/a		
Site 48:	NF-03-M-63	**Number of dwellings:**	100.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	NORTH WALSHAM		
Postcode:	NR28 0FW		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		

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Site 49:	OX-03-M-02	**Number of dwellings:**	117.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	OXFORD		
Postcode:	OX2 8FF		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 50:	SC-03-M-02	**Number of dwellings:**	342.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	NEAR FRIMLEY		
Postcode:	GU16 6GN		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 51:	SC-03-M-06	**Number of dwellings:**	500.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	REDHILL		
Postcode:	RH1 1AU		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 52:	SC-03-M-07	**Number of dwellings:**	199.00 DWELLS
Development Name:	HOUSES/FLATS		
Location:	GUILDFORD		
Postcode:	GU1 2LP		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 53:	SC-03-M-10	**Number of dwellings:**	108.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	GODALMING		
Postcode:	GU7 2FL		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 54:	SC-03-M-13	**Number of dwellings:**	168.00 DWELLS
Development Name:	DETACHED HOUSES & FLATS		
Location:	OXTED		
Postcode:	RH8 9BF		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 55:	SC-03-M-14	**Number of dwellings:**	179.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	LONGCROSS		
Postcode:	KT16 0BZ		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 56:	SC-03-M-16	**Number of dwellings:**	120.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	CRANLEIGH		
Postcode:	GU6 8LW		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		

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Site 57:	SC-03-M-17	**Number of dwellings:**	131.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	HASLEMERE		
Postcode:	GU27 3SE		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 58:	SM-03-M-01	**Number of dwellings:**	135.00 DWELLS
Development Name:	DETACHED & TERRACED HOUSES		
Location:	TAUNTON		
Postcode:	TA2 8XB		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 59:	WL-03-M-03	**Number of dwellings:**	260.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	NEAR SALISBURY		
Postcode:	SP4 6BW		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 60:	WS-03-M-04	**Number of dwellings:**	214.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	CHICHESTER		
Postcode:	PO19 6PQ		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 61:	WS-03-M-05	**Number of dwellings:**	92.00 DWELLS
Development Name:	MIXED HOUSING		
Location:	WEST HORSHAM		
Postcode:	RH12 3LN		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 62:	WS-03-M-06	**Number of dwellings:**	67.00 DWELLS
Development Name:	SEMI DETACHED/DETACHED		
Location:	CHICHESTER		
Postcode:	PO19 8SR		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 63:	WS-03-M-07	**Number of dwellings:**	90.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	BOGNOR REGIS		
Postcode:	PO21 3DN		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 64:	WS-03-M-12	**Number of dwellings:**	192.00 DWELLS
Development Name:	HOUSES & FLATS		
Location:	SHOREHAM BY SEA		
Postcode:	BN43 6TQ		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		

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Site 65:	WS-03-M-13	**Number of dwellings:**	23.00 DWELLS
Development Name:	TERRACED & FLATS		
Location:	WORTHING		
Postcode:	BN15 9NY		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 66:	WS-03-M-16	**Number of dwellings:**	252.00 DWELLS
Development Name:	MIXED FLATS & HOUSES		
Location:	CHICHESTER		
Postcode:	PO19 6BU		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 67:	WS-03-M-18	**Number of dwellings:**	86.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	BOGNOR REGIS		
Postcode:	PO21 5GB		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 68:	WS-03-M-19	**Number of dwellings:**	32.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	BOGNOR REGIS		
Postcode:	PO21 5GA		
Main Location Type:	Suburban Area		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 69:	WS-03-M-20	**Number of dwellings:**	121.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	HORSHAM		
Postcode:	RH12 3XE		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 70:	WS-03-M-23	**Number of dwellings:**	99.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	CHICHESTER		
Postcode:	PO18 0PB		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 71:	WS-03-M-27	**Number of dwellings:**	292.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	NEAR CRAWLEY		
Postcode:	RH10 3YR		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 72:	WS-03-M-28	**Number of dwellings:**	99.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	CHICHESTER		
Postcode:	PO18 0PB		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		

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Site 73:	WS-03-M-29	**Number of dwellings:**	193.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	SOUTHWATER		
Postcode:	RH13 9FZ		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		
Site 74:	WS-03-M-30	**Number of dwellings:**	110.00 DWELLS
Development Name:	MIXED HOUSES		
Location:	BRACKLESHAM BAY		
Postcode:	PO20 8FN		
Main Location Type:	Edge of Town		
Sub Location Type:	Residential Zone		
PTAL:	n/a		
Site 75:	WS-03-M-31	**Number of dwellings:**	165.00 DWELLS
Development Name:	MIXED HOUSES & FLATS		
Location:	HASSOCKS		
Postcode:	BN6 9NA		
Main Location Type:	Neighbourhood Centre		
Sub Location Type:	Village		
PTAL:	n/a		

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Total People

Ranking Type: **TOTALS** | Time Range: 08:00-09:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | HF-03-M-07 | Totals: 0.738
85th Percentile = No. **12** | WS-03-M-19 | Totals: 1.469

Median Values		Mean Values	
Arrivals:	0.092	Arrivals:	0.226
Departures:	0.956	Departures:	0.841
Totals:	1.048	Totals:	1.068

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.535	1.744	2.279
2	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	0.478	1.565	2.043
3	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	0.289	1.304	1.593
4	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.239	1.343	1.582
5	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.333	1.241	1.575
6	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.490	1.075	1.565
7	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.294	1.218	1.513
8	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.308	1.192	1.500
9	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.436	1.061	1.497
10	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.373	1.107	1.480
11	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.248	1.228	1.477
12	**WS-03-M-19**	**MIXED HOUSES & FLATS**	**BOGNOR REGIS**	**32**	**Thu**	**10/17/19**	**0.375**	**1.094**	**1.469**
13	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.353	1.067	1.420
14	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.306	1.107	1.413
15	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.283	1.117	1.400
16	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.267	1.100	1.367
17	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.294	1.059	1.353
18	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.306	1.041	1.347
19	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.225	1.113	1.338
20	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.130	1.207	1.337
21	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	0.333	1.000	1.333
22	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.386	0.935	1.321
23	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.300	1.009	1.309
24	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.340	0.830	1.170
25	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.155	1.012	1.167

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
26	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.227	0.924	1.152
27	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.330	0.820	1.150
28	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.404	0.740	1.144
29	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.279	0.857	1.136
30	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.225	0.900	1.125
31	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.344	0.772	1.117
32	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.283	0.828	1.111
33	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.196	0.892	1.088
34	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.237	0.835	1.072
35	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.253	0.813	1.067
36	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.303	0.761	1.064
37	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.204	0.851	1.055
38	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.092	0.956	1.048
39	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.164	0.876	1.040
40	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.182	0.849	1.031
41	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.168	0.855	1.023
42	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.120	0.902	1.022
43	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.296	0.648	0.944
44	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.140	0.800	0.940
45	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.155	0.769	0.924
46	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.151	0.765	0.916
47	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.214	0.687	0.901
48	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.231	0.661	0.892
49	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.111	0.778	0.889
50	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.133	0.750	0.883
51	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.179	0.684	0.863
52	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.168	0.682	0.850
53	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.196	0.650	0.846
54	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.323	0.515	0.838
55	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.264	0.567	0.832
56	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.000	0.812	0.812
57	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.305	0.500	0.805
58	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.164	0.639	0.803
59	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.162	0.641	0.803
60	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.213	0.587	0.800

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
61	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.108	0.688	0.796
62	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.136	0.616	0.752
63	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.096	0.654	0.750
64	**HF-03-M-07**	**TERRACED & DETACHED**	**SAWBRIDGEWORTH**	**191**	**Thu**	**11/28/24**	**0.168**	**0.571**	**0.738**
65	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.051	0.684	0.735
66	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.135	0.568	0.703
67	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.157	0.500	0.657
68	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.060	0.558	0.618
69	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.085	0.511	0.596
70	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.183	0.409	0.591
71	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.079	0.497	0.576
72	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.071	0.471	0.543
73	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.075	0.453	0.528
74	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	0.025	0.319	0.345
75	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.066	0.262	0.328

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Total People

Ranking Type: **TOTALS** | Time Range: 17:00-18:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | HF-03-M-06 | Totals: 0.538
85th Percentile = No. **12** | WS-03-M-12 | Totals: 1.068

Median Values		Mean Values	
Arrivals:	0.582	Arrivals:	0.532
Departures:	0.224	Departures:	0.279
Totals:	0.806	Totals:	0.811

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	1.000	0.750	1.750
2	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	1.130	0.565	1.696
3	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	1.000	0.619	1.619
4	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.906	0.594	1.500
5	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.879	0.380	1.259
6	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.780	0.310	1.090
7	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.678	0.411	1.089
8	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	0.807	0.274	1.081
9	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.683	0.392	1.075
10	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.653	0.421	1.074
11	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.626	0.444	1.071
12	**WS-03-M-12**	**HOUSES & FLATS**	**SHOREHAM BY SEA**	**192**	**Wed**	**04/27/16**	**0.766**	**0.302**	**1.068**
13	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.685	0.362	1.047
14	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.654	0.356	1.011
15	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.575	0.400	0.975
16	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.767	0.207	0.974
17	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.598	0.368	0.966
18	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.707	0.257	0.964
19	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.493	0.447	0.940
20	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.563	0.336	0.899
21	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.624	0.271	0.895
22	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.510	0.386	0.895
23	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.554	0.328	0.881
24	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.530	0.348	0.879
25	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.545	0.333	0.879

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
26	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.594	0.267	0.861
27	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.531	0.329	0.860
28	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.663	0.196	0.859
29	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.512	0.344	0.856
30	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.500	0.346	0.846
31	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.571	0.273	0.844
32	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.500	0.337	0.837
33	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.486	0.346	0.832
34	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.447	0.383	0.830
35	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.419	0.410	0.829
36	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.498	0.316	0.814
37	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.571	0.242	0.813
38	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.582	0.224	0.806
39	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.500	0.300	0.800
40	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.429	0.367	0.796
41	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.636	0.148	0.784
42	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.667	0.111	0.778
43	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.500	0.273	0.773
44	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.486	0.286	0.771
45	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.453	0.307	0.760
46	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.533	0.208	0.742
47	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.496	0.238	0.735
48	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.480	0.246	0.725
49	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.507	0.213	0.720
50	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.581	0.135	0.716
51	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.523	0.164	0.688
52	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.389	0.290	0.679
53	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.390	0.270	0.660
54	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.412	0.238	0.650
55	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.365	0.280	0.645
56	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.418	0.186	0.603
57	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.462	0.135	0.596
58	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.464	0.125	0.589
59	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.328	0.246	0.574
60	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.307	0.267	0.573

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
61	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.329	0.243	0.571
62	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.413	0.145	0.559
63	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.390	0.162	0.552
64	**HF-03-M-06**	**MIXED HOUSES & FLATS**	**HERTFORD**	**208**	**Tue**	**03/12/24**	**0.312**	**0.226**	**0.538**
65	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.333	0.194	0.528
66	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.436	0.085	0.521
67	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	0.387	0.118	0.504
68	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.382	0.079	0.461
69	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.287	0.157	0.443
70	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.337	0.106	0.442
71	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.283	0.142	0.425
72	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.334	0.060	0.394
73	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.279	0.096	0.375
74	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.246	0.115	0.361
75	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.262	0.089	0.351

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Total People

Ranking Type: **TOTALS** | Time Range: 07:00-19:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | HC-03-M-28 | Totals: 5.949
85th Percentile = No. **12** | ES-03-M-07 | Totals: 9.335

Median Values		Mean Values	
Arrivals:	3.68	Arrivals:	3.770
Departures:	3.907	Departures:	3.892
Totals:	7.587	Totals:	7.661

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	7.000	7.000	14.000
2	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	5.875	5.656	11.531
3	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	5.256	5.567	10.822
4	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	5.238	5.476	10.714
5	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	5.222	5.363	10.585
6	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	5.012	5.512	10.523
7	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	4.959	5.204	10.163
8	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	4.973	5.013	9.987
9	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	4.836	5.043	9.879
10	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	4.694	4.876	9.570
11	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	4.412	5.076	9.487
12	**ES-03-M-07**	**MIXED HOUSING**	**PEACEHAVEN**	**188**	**Thu**	**11/12/15**	**4.612**	**4.723**	**9.335**
13	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	4.621	4.529	9.149
14	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	4.529	4.567	9.096
15	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	4.340	4.699	9.039
16	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	4.730	4.280	9.010
17	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	4.625	4.375	9.000
18	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	4.224	4.746	8.970
19	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	4.333	4.576	8.909
20	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	4.350	4.433	8.783
21	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	4.214	4.443	8.657
22	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	4.374	4.131	8.505
23	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	4.120	4.285	8.405
24	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	4.098	4.247	8.345
25	ES-03-M-23	DETACHED & SEMI-	HAILSHAM	66	Tue	09/24/24	4.030	4.258	8.288

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
		DETACHED							
26	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	4.173	4.109	8.282
27	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	4.099	4.139	8.238
28	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	4.052	4.181	8.233
29	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	4.043	4.114	8.157
30	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	4.007	4.140	8.147
31	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	3.800	4.127	7.927
32	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	3.974	3.948	7.922
33	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	3.800	4.042	7.842
34	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	3.875	3.942	7.817
35	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	3.787	3.984	7.770
36	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	3.788	3.892	7.680
37	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	3.634	3.997	7.630
38	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	3.680	3.907	7.587
39	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	3.568	3.955	7.523
40	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	3.684	3.838	7.521
41	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	3.770	3.730	7.500
42	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	3.779	3.710	7.489
43	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	3.549	3.828	7.377
44	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	3.630	3.700	7.330
45	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	3.326	4.000	7.326
46	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	3.519	3.763	7.282
47	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	3.500	3.775	7.275
48	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	3.594	3.661	7.256
49	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	3.492	3.620	7.112
50	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	3.360	3.640	7.000
51	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	3.319	3.619	6.938
52	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	3.556	3.333	6.889
53	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	3.353	3.444	6.797
54	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	3.257	3.444	6.701
55	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	3.325	3.366	6.691
56	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	3.404	3.021	6.426
57	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	3.079	3.292	6.371
58	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	3.065	3.296	6.361
59	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	3.205	3.068	6.274
60	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	3.027	3.232	6.259
61	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	3.055	3.180	6.234

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
62	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	3.060	3.095	6.155
63	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	3.245	2.798	6.043
64	**HC-03-M-28**	**MIXED HOUSES & FLATS**	**FLEET**	**136**	**Thu**	**05/01/25**	**3.000**	**2.949**	**5.949**
65	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	2.774	2.887	5.661
66	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	2.635	2.846	5.481
67	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	2.693	2.709	5.402
68	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	2.640	2.747	5.387
69	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	2.500	2.613	5.113
70	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	2.410	2.557	4.967
71	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	2.152	2.291	4.442
72	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	2.147	2.246	4.393
73	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	2.101	2.166	4.266
74	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	2.100	2.134	4.234
75	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	1.471	1.714	3.185

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Pedestrians

Ranking Type: **TOTALS** | Time Range: 08:00-09:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | NF-03-M-14 | Totals: 0.028
85th Percentile = No. **12** | WS-03-M-13 | Totals: 0.435

Median Values		Mean Values	
Arrivals:	0.060	Arrivals:	0.055
Departures:	0.135	Departures:	0.184
Totals:	0.195	Totals:	0.239

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.326	0.860	1.186
2	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.215	0.595	0.810
3	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.122	0.653	0.776
4	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.150	0.567	0.717
5	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.069	0.483	0.552
6	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.058	0.433	0.492
7	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.130	0.360	0.490
8	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.150	0.338	0.488
9	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.133	0.344	0.478
10	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.000	0.444	0.444
11	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.106	0.333	0.439
12	**WS-03-M-13**	**TERRACED & FLATS**	**WORTHING**	**23**	**Tue**	**06/21/16**	**0.087**	**0.348**	**0.435**
13	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.185	0.245	0.430
14	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	0.052	0.378	0.430
15	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.062	0.367	0.429
16	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.076	0.336	0.412
17	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.125	0.281	0.406
18	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.068	0.302	0.370
19	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.160	0.190	0.350
20	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.033	0.311	0.344
21	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.093	0.240	0.333
22	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.121	0.212	0.333
23	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.111	0.213	0.324
24	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.054	0.268	0.322
25	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.088	0.232	0.320

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
26	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.107	0.213	0.320
27	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	0.000	0.286	0.286
28	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.030	0.254	0.284
29	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.091	0.191	0.282
30	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.056	0.190	0.246
31	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.060	0.179	0.239
32	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.028	0.209	0.237
33	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.036	0.188	0.224
34	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.037	0.178	0.215
35	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.091	0.121	0.212
36	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.078	0.133	0.211
37	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.025	0.182	0.207
38	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.060	0.135	0.195
39	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.040	0.147	0.187
40	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.030	0.149	0.179
41	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.015	0.145	0.160
42	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.000	0.148	0.148
43	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.043	0.101	0.144
44	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.100	0.036	0.136
45	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.057	0.071	0.129
46	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.010	0.116	0.126
47	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.050	0.067	0.117
48	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.016	0.100	0.116
49	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.011	0.098	0.109
50	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.016	0.086	0.102
51	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.019	0.077	0.096
52	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.027	0.067	0.093
53	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.013	0.072	0.085
54	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.012	0.067	0.079
55	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.014	0.058	0.072
56	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.010	0.052	0.062
57	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.012	0.048	0.061
58	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.015	0.032	0.047
59	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.017	0.026	0.043
60	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.014	0.029	0.043
61	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.000	0.042	0.042

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
62	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.027	0.014	0.041
63	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.000	0.033	0.033
64	**NF-03-M-14**	**MIXED HOUSES & FLATS**	**WYMONDHAM**	**321**	**Thu**	**09/19/19**	**0.019**	**0.009**	**0.028**
65	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.007	0.020	0.027
66	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.017	0.009	0.026
67	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.007	0.017	0.024
68	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.000	0.022	0.022
69	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.009	0.009	0.019
70	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.003	0.014	0.017
71	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.000	0.006	0.006
72	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.000	0.004	0.004
73	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.000	0.000	0.000
74	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	0.000	0.000	0.000
75	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.000	0.000	0.000

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Pedestrians

Ranking Type: **TOTALS** | Time Range: 17:00-18:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **65** | HI-03-M-06 | Totals: 0.026
85th Percentile = No. **12** | WS-03-M-04 | Totals: 0.229

Median Values		Mean Values	
Arrivals:	0.058	Arrivals:	0.068
Departures:	0.033	Departures:	0.057
Totals:	0.091	Totals:	0.125

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.188	0.562	0.750
2	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	0.391	0.174	0.565
3	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.152	0.182	0.333
4	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.222	0.111	0.333
5	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.250	0.062	0.312
6	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.080	0.180	0.260
7	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.161	0.099	0.260
8	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.180	0.070	0.250
9	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.150	0.092	0.242
10	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.152	0.087	0.239
11	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.135	0.096	0.231
12	**WS-03-M-04**	**HOUSES & FLATS**	**CHICHESTER**	**214**	**Thu**	**05/08/14**	**0.126**	**0.103**	**0.229**
13	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.127	0.100	0.227
14	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.104	0.112	0.216
15	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	0.163	0.052	0.215
16	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.105	0.105	0.209
17	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.108	0.100	0.208
18	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.144	0.064	0.207
19	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	0.095	0.095	0.190
20	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.119	0.044	0.163
21	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.092	0.067	0.158
22	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.085	0.064	0.149
23	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.029	0.114	0.143
24	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.102	0.040	0.142
25	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.089	0.044	0.133

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
26	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.075	0.055	0.130
27	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.075	0.045	0.119
28	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.061	0.051	0.111
29	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.040	0.071	0.111
30	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.073	0.035	0.108
31	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.051	0.054	0.105
32	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.041	0.061	0.102
33	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.067	0.034	0.101
34	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.049	0.052	0.101
35	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.036	0.064	0.100
36	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.013	0.080	0.093
37	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.056	0.037	0.093
38	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.058	0.033	0.091
39	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.027	0.053	0.080
40	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.046	0.033	0.078
41	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.068	0.009	0.077
42	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.036	0.042	0.077
43	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.028	0.048	0.076
44	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.041	0.035	0.076
45	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.050	0.025	0.075
46	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.023	0.046	0.069
47	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.057	0.010	0.067
48	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.016	0.049	0.066
49	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.033	0.033	0.066
50	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.023	0.038	0.061
51	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.020	0.040	0.060
52	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.031	0.026	0.057
53	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.019	0.037	0.056
54	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.013	0.040	0.053
55	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.042	0.006	0.048
56	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.000	0.047	0.047
57	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.000	0.043	0.043
58	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.020	0.020	0.040
59	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.030	0.010	0.040
60	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.039	0.000	0.039

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
61	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.027	0.009	0.037
62	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.022	0.011	0.033
63	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.022	0.006	0.028
64	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.026	0.000	0.026
65	**HI-03-M-06**	**MIXED HOUSES & FLATS**	**NEAR FORT WILLIAM**	**117**	**Wed**	**10/09/24**	**0.009**	**0.017**	**0.026**
66	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.016	0.006	0.022
67	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.016	0.005	0.021
68	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.004	0.015	0.019
69	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	0.008	0.008	0.017
70	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.015	0.000	0.015
71	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.013	0.000	0.013
72	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.007	0.000	0.007
73	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.006	0.000	0.006
74	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.000	0.000	0.000
75	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.000	0.000	0.000

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Pedestrians

Ranking Type: **TOTALS** | Time Range: 07:00-19:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | SC-03-M-02 | Totals: 0.453
85th Percentile = No. **12** | NF-03-M-42 | Totals: 2.008

Median Values		Mean Values	
Arrivals:	0.604	Arrivals:	0.653
Departures:	0.636	Departures:	0.659
Totals:	1.240	Totals:	1.312

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	2.000	1.696	3.696
2	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	1.714	1.857	3.571
3	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	1.556	1.667	3.222
4	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	1.535	1.686	3.221
5	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	1.750	1.219	2.969
6	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	1.475	1.483	2.958
7	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	1.519	1.370	2.889
8	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	1.255	1.245	2.500
9	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	1.240	1.230	2.470
10	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	1.224	1.135	2.359
11	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	1.053	1.060	2.113
12	**NF-03-M-42**	**MIXED HOUSES**	**HOVETON**	**120**	**Thu**	**09/16/21**	**1.000**	**1.008**	**2.008**
13	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.950	1.025	1.975
14	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	1.017	0.922	1.939
15	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.960	0.956	1.917
16	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.985	0.894	1.879
17	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.931	0.920	1.851
18	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.931	0.904	1.835
19	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.892	0.901	1.793
20	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.855	0.818	1.673
21	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.800	0.867	1.667
22	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.838	0.818	1.657
23	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.796	0.855	1.651
24	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.827	0.818	1.645
25	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.824	0.807	1.630
26	WS-03-M-06	SEMI DETACHED/	CHICHESTER	67	Tue	01/27/15	0.791	0.746	1.537

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
		DETACHED							
27	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.750	0.769	1.519
28	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.753	0.733	1.487
29	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.641	0.793	1.435
30	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.758	0.638	1.396
31	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.685	0.704	1.389
32	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	0.524	0.857	1.381
33	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.710	0.670	1.380
34	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.625	0.750	1.375
35	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.646	0.657	1.303
36	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.657	0.643	1.300
37	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.667	0.632	1.299
38	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.604	0.636	1.240
39	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.626	0.603	1.229
40	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.546	0.572	1.119
41	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.496	0.595	1.091
42	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.533	0.550	1.083
43	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.542	0.536	1.077
44	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.508	0.475	0.984
45	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.440	0.520	0.960
46	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.412	0.540	0.952
47	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.400	0.533	0.933
48	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.414	0.516	0.930
49	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.373	0.520	0.893
50	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.437	0.414	0.851
51	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.373	0.444	0.817
52	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.357	0.429	0.786
53	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.383	0.362	0.745
54	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.329	0.343	0.671
55	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.359	0.291	0.650
56	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.311	0.332	0.642
57	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.297	0.338	0.635
58	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.283	0.321	0.604
59	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.296	0.307	0.603
60	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.262	0.311	0.574

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
61	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.269	0.276	0.545
62	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.268	0.266	0.534
63	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.268	0.232	0.500
64	**SC-03-M-02**	**HOUSES & FLATS**	**NEAR FRIMLEY**	**342**	**Wed**	**02/10/10**	**0.225**	**0.228**	**0.453**
65	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.164	0.182	0.345
66	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.173	0.144	0.317
67	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.148	0.122	0.270
68	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.113	0.120	0.233
69	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.125	0.103	0.228
70	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.112	0.115	0.227
71	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.099	0.099	0.199
72	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	0.092	0.092	0.185
73	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.086	0.079	0.164
74	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.085	0.077	0.162
75	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.050	0.050	0.101

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Public Transport Users

Ranking Type: **TOTALS** | Time Range: 08:00-09:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **62** | SM-03-M-01 | Totals: 0
85th Percentile = No. **9** | SC-03-M-07 | Totals: 0.065

Median Values		Mean Values	
Arrivals:	0	Arrivals:	0.002
Departures:	0.018	Departures:	0.026
Totals:	0.018	Totals:	0.028

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.004	0.110	0.114
2	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.014	0.079	0.093
3	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.004	0.069	0.073
4	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.000	0.071	0.071
5	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.000	0.071	0.071
6	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.009	0.060	0.068
7	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.010	0.057	0.067
8	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.000	0.067	0.067
9	**SC-03-M-07**	**HOUSES/FLATS**	**GUILDFORD**	**199**	**Thu**	**10/24/13**	**0.000**	**0.065**	**0.065**
10	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.014	0.051	0.065
11	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.000	0.062	0.062
12	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.000	0.061	0.061
13	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.003	0.053	0.056
14	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.000	0.054	0.054
15	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.000	0.053	0.053
16	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.000	0.046	0.046
17	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.010	0.034	0.045
18	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	0.000	0.043	0.043
19	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.000	0.040	0.040
20	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.016	0.024	0.040
21	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.000	0.040	0.040
22	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.000	0.040	0.040
23	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.000	0.038	0.038
24	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.000	0.032	0.032
25	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.008	0.023	0.031
26	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.000	0.031	0.031

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
27	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.000	0.030	0.030
28	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.000	0.025	0.025
29	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.000	0.025	0.025
30	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.000	0.024	0.024
31	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.000	0.023	0.023
32	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.000	0.020	0.020
33	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.000	0.019	0.019
34	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.000	0.018	0.018
35	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.000	0.017	0.017
36	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.000	0.016	0.016
37	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.015	0.000	0.015
38	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.005	0.010	0.015
39	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.000	0.015	0.015
40	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.000	0.014	0.014
41	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.000	0.013	0.013
42	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.000	0.012	0.012
43	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.000	0.010	0.010
44	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.000	0.010	0.010
45	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.000	0.009	0.009
46	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.000	0.009	0.009
47	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.000	0.008	0.008
48	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.000	0.007	0.007
49	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.000	0.007	0.007
50	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.000	0.006	0.006
51	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.000	0.005	0.005
52	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.000	0.003	0.003
53	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.000	0.000	0.000
54	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.000	0.000	0.000
55	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.000	0.000	0.000
56	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.000	0.000	0.000
57	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.000	0.000	0.000
58	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.000	0.000	0.000
59	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.000	0.000	0.000
60	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.000	0.000	0.000
61	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.000	0.000	0.000

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
62	**SM-03-M-01**	**DETACHED & TERRACED HOUSES**	**TAUNTON**	**135**	**Wed**	**09/26/18**	**0.000**	**0.000**	**0.000**
63	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.000	0.000	0.000
64	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.000	0.000	0.000
65	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.000	0.000	0.000
66	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.000	0.000	0.000

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Public Transport Users

Ranking Type: **TOTALS** | Time Range: 17:00-18:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **54** | GM-03-M-01 | Totals: 0
85th Percentile = No. **10** | NF-03-M-03 | Totals: 0.057

Median Values		Mean Values	
Arrivals:	0.009	Arrivals:	0.017
Departures:	0	Departures:	0.003
Totals:	0.009	Totals:	0.020

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.078	0.016	0.094
2	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.089	0.000	0.089
3	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.067	0.011	0.078
4	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.077	0.000	0.077
5	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.050	0.021	0.071
6	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.070	0.000	0.070
7	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.043	0.017	0.060
8	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.050	0.009	0.059
9	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.046	0.012	0.058
10	**NF-03-M-03**	**MIXED HOUSES**	**NORTH WALSHAM**	**70**	**Wed**	**09/18/19**	**0.043**	**0.014**	**0.057**
11	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.034	0.017	0.050
12	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.048	0.000	0.048
13	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.035	0.006	0.041
14	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.041	0.000	0.041
15	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.030	0.010	0.040
16	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.035	0.000	0.035
17	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.025	0.008	0.033
18	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.020	0.012	0.032
19	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.016	0.011	0.027
20	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.021	0.005	0.026
21	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.024	0.000	0.024
22	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.022	0.000	0.022
23	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.019	0.000	0.019
24	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.014	0.000	0.014
25	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.011	0.000	0.011
26	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.011	0.000	0.011
27	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.010	0.000	0.010

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
28	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.010	0.000	0.010
29	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.010	0.000	0.010
30	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.010	0.000	0.010
31	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.009	0.000	0.009
32	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.009	0.000	0.009
33	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.009	0.000	0.009
34	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.009	0.000	0.009
35	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.008	0.000	0.008
36	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.008	0.000	0.008
37	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.000	0.008	0.008
38	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.007	0.000	0.007
39	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.007	0.000	0.007
40	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.007	0.000	0.007
41	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.003	0.003	0.006
42	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.006	0.000	0.006
43	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.006	0.000	0.006
44	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.004	0.000	0.004
45	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.000	0.000	0.000
46	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.000	0.000	0.000
47	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.000	0.000	0.000
48	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.000	0.000	0.000
49	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.000	0.000	0.000
50	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.000	0.000	0.000
51	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.000	0.000	0.000
52	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.000	0.000	0.000
53	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.000	0.000	0.000
54	**GM-03-M-01**	**TERRACED & FLATS**	**ROCHDALE**	**9**	**Tue**	**11/25/14**	**0.000**	**0.000**	**0.000**
55	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.000	0.000	0.000
56	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.000	0.000	0.000
57	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.000	0.000	0.000
58	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.000	0.000	0.000
59	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.000	0.000	0.000
60	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	0.000	0.000	0.000
61	WS-03-M-06	SEMI DETACHED/	CHICHESTER	67	Tue	01/27/15	0.000	0.000	0.000

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
		DETACHED							
62	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	0.000	0.000	0.000
63	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.000	0.000	0.000
64	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.000	0.000	0.000
65	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.000	0.000	0.000
66	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.000	0.000	0.000

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Public Transport Users

Ranking Type: **TOTALS** | Time Range: 07:00-19:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **57** | NF-03-M-51 | Totals: 0.050
85th Percentile = No. **10** | HC-03-M-24 | Totals: 0.382

Median Values		Mean Values	
Arrivals:	0.072	Arrivals:	0.100
Departures:	0.072	Departures:	0.109
Totals:	0.144	Totals:	0.208

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.421	0.421	0.843
2	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.393	0.368	0.761
3	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.274	0.274	0.547
4	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.257	0.257	0.514
5	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.262	0.238	0.500
6	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.185	0.294	0.479
7	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.269	0.192	0.462
8	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.232	0.220	0.452
9	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.210	0.234	0.444
10	**HC-03-M-24**	**MIXED HOUSES & FLATS**	**ANDOVER**	**314**	**Tue**	**11/26/24**	**0.191**	**0.191**	**0.382**
11	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.185	0.196	0.381
12	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.178	0.200	0.378
13	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.164	0.213	0.377
14	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.161	0.209	0.370
15	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.164	0.164	0.328
16	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.172	0.141	0.313
17	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.125	0.188	0.312
18	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.122	0.162	0.284
19	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.135	0.140	0.275
20	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.134	0.140	0.274
21	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.136	0.136	0.271
22	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.117	0.138	0.255
23	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.121	0.112	0.234
24	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.111	0.111	0.222
25	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.105	0.111	0.216
26	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.081	0.116	0.198

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
27	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.068	0.125	0.193
28	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.102	0.082	0.184
29	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.090	0.090	0.180
30	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.083	0.092	0.175
31	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.076	0.087	0.163
32	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.075	0.088	0.162
33	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.070	0.075	0.145
34	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.072	0.072	0.144
35	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.082	0.055	0.136
36	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	0.043	0.087	0.130
37	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.031	0.092	0.122
38	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.051	0.071	0.121
39	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.046	0.074	0.120
40	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.052	0.066	0.119
41	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.047	0.067	0.113
42	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.056	0.053	0.108
43	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.053	0.047	0.100
44	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.048	0.052	0.100
45	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.040	0.056	0.096
46	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.045	0.045	0.091
47	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.030	0.060	0.090
48	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.036	0.042	0.079
49	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.037	0.034	0.070
50	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.013	0.053	0.067
51	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.047	0.020	0.067
52	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.031	0.031	0.062
53	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.023	0.034	0.057
54	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.025	0.029	0.055
55	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.026	0.026	0.052
56	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.009	0.043	0.051
57	**NF-03-M-51**	**MIXED HOUSES**	**HARLESTON**	**120**	**Wed**	**09/29/21**	**0.025**	**0.025**	**0.050**
58	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.017	0.025	0.042
59	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.020	0.020	0.040
60	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.026	0.010	0.036
61	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.016	0.016	0.031

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
62	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	0.022	0.007	0.030
63	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.009	0.019	0.028
64	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.013	0.013	0.027
65	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.011	0.011	0.022
66	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.000	0.013	0.013

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Total Vehicles

Ranking Type: **TOTALS** | Time Range: 08:00-09:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | NF-03-M-51 | Totals: 0.383
85th Percentile = No. **12** | SM-03-M-01 | Totals: 0.689

Median Values		Mean Values	
Arrivals:	0.056	Arrivals:	0.144
Departures:	0.444	Departures:	0.373
Totals:	0.500	Totals:	0.517

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	0.333	0.571	0.905
2	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	0.348	0.522	0.870
3	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.240	0.613	0.853
4	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.248	0.516	0.765
5	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.231	0.529	0.760
6	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.250	0.500	0.750
7	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.288	0.462	0.750
8	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.194	0.552	0.746
9	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.174	0.550	0.725
10	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.242	0.451	0.693
11	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.247	0.447	0.693
12	**SM-03-M-01**	**DETACHED & TERRACED HOUSES**	**TAUNTON**	**135**	**Wed**	**09/26/18**	**0.185**	**0.504**	**0.689**
13	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.088	0.554	0.642
14	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.151	0.488	0.640
15	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.120	0.513	0.633
16	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.182	0.436	0.618
17	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.132	0.485	0.617
18	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.184	0.414	0.598
19	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.134	0.464	0.598
20	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.185	0.412	0.597
21	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.149	0.445	0.595
22	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.135	0.455	0.589
23	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.192	0.392	0.583
24	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.167	0.411	0.578
25	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.196	0.374	0.570

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
26	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.170	0.400	0.570
27	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.098	0.467	0.565
28	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.164	0.391	0.555
29	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.101	0.452	0.554
30	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.132	0.412	0.544
31	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.197	0.346	0.543
32	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.100	0.436	0.536
33	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.160	0.370	0.530
34	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.173	0.353	0.527
35	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.212	0.308	0.519
36	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.212	0.303	0.515
37	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.137	0.366	0.504
38	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.000	0.500	0.500
39	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.056	0.444	0.500
40	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.144	0.351	0.495
41	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.160	0.333	0.493
42	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.157	0.330	0.487
43	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.113	0.364	0.477
44	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.131	0.333	0.465
45	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.172	0.289	0.461
46	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.185	0.275	0.460
47	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.096	0.358	0.454
48	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.103	0.350	0.453
49	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.165	0.287	0.452
50	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.112	0.336	0.449
51	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.074	0.368	0.441
52	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.099	0.333	0.432
53	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.075	0.350	0.425
54	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.131	0.294	0.425
55	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.111	0.308	0.419
56	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.108	0.297	0.405
57	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.106	0.298	0.404
58	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.107	0.294	0.401
59	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.091	0.303	0.394

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
60	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.115	0.279	0.393
61	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.172	0.219	0.391
62	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.184	0.204	0.388
63	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.096	0.288	0.385
64	**NF-03-M-51**	**MIXED HOUSES**	**HARLESTON**	**120**	**Wed**	**09/29/21**	**0.100**	**0.283**	**0.383**
65	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.100	0.280	0.380
66	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.120	0.259	0.380
67	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.042	0.317	0.358
68	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.111	0.222	0.333
69	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.079	0.255	0.333
70	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.057	0.264	0.321
71	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.057	0.257	0.314
72	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.045	0.261	0.307
73	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.071	0.214	0.286
74	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.066	0.164	0.230
75	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	0.025	0.168	0.193

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Total Vehicles

Ranking Type: **TOTALS** | Time Range: 17:00-18:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | ES-03-M-16 | Totals: 0.319
85th Percentile = No. **12** | WS-03-M-13 | Totals: 0.609

Median Values		Mean Values	
Arrivals:	0.364	Arrivals:	0.317
Departures:	0.114	Departures:	0.159
Totals:	0.479	Totals:	0.476

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	0.714	0.381	1.095
2	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.562	0.375	0.938
3	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.625	0.188	0.812
4	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.434	0.303	0.737
5	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.405	0.281	0.686
6	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.450	0.228	0.678
7	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.400	0.244	0.644
8	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.402	0.230	0.632
9	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.325	0.299	0.624
10	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.410	0.213	0.622
11	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.450	0.160	0.610
12	**WS-03-M-13**	**TERRACED & FLATS**	**WORTHING**	**23**	**Tue**	**06/21/16**	**0.391**	**0.217**	**0.609**
13	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.336	0.250	0.586
14	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.386	0.190	0.576
15	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.306	0.265	0.571
16	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.403	0.164	0.567
17	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	0.385	0.178	0.563
18	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.320	0.229	0.549
19	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.372	0.172	0.544
20	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.371	0.167	0.538
21	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.404	0.130	0.534
22	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.347	0.187	0.533
23	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.360	0.173	0.533
24	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.345	0.181	0.526
25	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.333	0.192	0.525

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
26	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.333	0.184	0.517
27	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.347	0.166	0.513
28	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.255	0.255	0.511
29	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.359	0.151	0.510
30	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.342	0.167	0.508
31	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.290	0.213	0.503
32	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.350	0.150	0.500
33	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.353	0.140	0.493
34	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.302	0.186	0.488
35	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.327	0.160	0.487
36	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.365	0.122	0.486
37	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.283	0.200	0.483
38	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.364	0.114	0.479
39	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.336	0.134	0.471
40	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.312	0.150	0.462
41	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.292	0.168	0.460
42	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.314	0.129	0.443
43	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.318	0.121	0.439
44	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.267	0.168	0.435
45	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.240	0.192	0.433
46	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.260	0.170	0.430
47	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.302	0.128	0.430
48	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.302	0.127	0.429
49	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.282	0.136	0.418
50	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.271	0.143	0.414
51	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.280	0.133	0.413
52	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.290	0.113	0.402
53	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.326	0.065	0.391
54	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.312	0.068	0.380
55	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.238	0.140	0.379
56	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.230	0.148	0.377
57	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.273	0.102	0.375
58	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.292	0.083	0.375
59	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.190	0.175	0.365
60	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.222	0.139	0.361
61	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.217	0.130	0.348

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
62	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.222	0.111	0.333
63	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.240	0.089	0.330
64	**ES-03-M-16**	**MIXED HOUSES & FLATS**	**BEXHILL**	**119**	**Wed**	**07/10/19**	**0.227**	**0.092**	**0.319**
65	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.216	0.095	0.312
66	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	0.250	0.054	0.304
67	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.248	0.055	0.303
68	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.226	0.075	0.302
69	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.184	0.096	0.279
70	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.157	0.114	0.271
71	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.192	0.058	0.250
72	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.180	0.066	0.246
73	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.178	0.068	0.246
74	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.186	0.052	0.238
75	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.179	0.051	0.231

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Total Vehicles

Ranking Type: **TOTALS**	Time Range: 07:00-19:00	CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64**	OX-03-M-02	Totals: 3.410
85th Percentile = No. **12**	WS-03-M-27	Totals: 5.205

Median Values		Mean Values	
Arrivals:	2.248	Arrivals:	2.183
Departures:	2.245	Departures:	2.226
Totals:	4.493	Totals:	4.409

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	3.619	3.476	7.095
2	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	3.304	3.435	6.739
3	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	3.312	3.281	6.594
4	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	3.058	3.041	6.099
5	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	2.926	3.000	5.926
6	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	2.778	2.837	5.614
7	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	2.722	2.856	5.578
8	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	2.625	2.750	5.375
9	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	2.667	2.667	5.333
10	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	2.667	2.586	5.253
11	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	2.654	2.590	5.245
12	**WS-03-M-27**	**MIXED HOUSES**	**NEAR CRAWLEY**	**292**	**Wed**	**11/22/23**	**2.490**	**2.716**	**5.205**
13	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	2.511	2.644	5.156
14	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	2.573	2.547	5.120
15	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	2.592	2.429	5.020
16	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	2.437	2.546	4.983
17	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	2.477	2.500	4.977
18	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	2.455	2.515	4.970
19	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	2.462	2.469	4.931
20	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	2.490	2.440	4.930
21	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	2.418	2.493	4.910
22	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	2.371	2.443	4.814
23	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	2.336	2.464	4.800
24	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	2.371	2.429	4.800
25	ES-03-M-23	DETACHED & SEMI-	HAILSHAM	66	Tue	09/24/24	2.318	2.379	4.697

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
		DETACHED							
26	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	2.251	2.442	4.693
27	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	2.273	2.392	4.665
28	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	2.295	2.358	4.653
29	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	2.316	2.333	4.650
30	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	2.287	2.320	4.607
31	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	2.297	2.284	4.581
32	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	2.291	2.282	4.573
33	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	2.261	2.280	4.541
34	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	2.227	2.307	4.533
35	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	2.340	2.191	4.532
36	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	2.201	2.302	4.503
37	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	2.137	2.357	4.494
38	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	2.248	2.245	4.493
39	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	2.148	2.295	4.443
40	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	2.180	2.213	4.393
41	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	2.200	2.175	4.375
42	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	2.113	2.235	4.348
43	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	2.231	2.091	4.322
44	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	2.190	2.120	4.310
45	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	2.011	2.283	4.293
46	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	2.076	2.186	4.262
47	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	2.080	2.156	4.236
48	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	2.039	2.172	4.211
49	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	2.113	2.093	4.206
50	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	2.017	2.167	4.183
51	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	2.052	2.040	4.091
52	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	2.044	2.044	4.088
53	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	2.050	2.012	4.062
54	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	2.010	2.045	4.055
55	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	1.924	2.000	3.924
56	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	1.896	2.016	3.911
57	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	1.933	1.967	3.900
58	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	1.940	1.920	3.860
59	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	1.917	1.933	3.850
60	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	1.833	1.920	3.753
61	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	1.741	1.870	3.611

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
62	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	1.760	1.771	3.531
63	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	1.695	1.719	3.414
64	**OX-03-M-02**	**MIXED HOUSES & FLATS**	**OXFORD**	**117**	**Wed**	**10/20/21**	**1.718**	**1.692**	**3.410**
65	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	1.598	1.776	3.374
66	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	1.632	1.670	3.302
67	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	1.607	1.541	3.148
68	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	1.542	1.548	3.089
69	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	1.513	1.550	3.063
70	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	1.385	1.481	2.865
71	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	1.400	1.448	2.848
72	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	1.444	1.333	2.778
73	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	1.296	1.352	2.648
74	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	1.272	1.310	2.582
75	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	1.034	1.193	2.227

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Vehicle Occupants

Ranking Type: **TOTALS** | Time Range: 08:00-09:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | WS-03-M-04 | Totals: 0.528
85th Percentile = No. **12** | NF-03-M-55 | Totals: 1.053

Median Values		Mean Values	
Arrivals:	0.143	Arrivals:	0.168
Departures:	0.589	Departures:	0.616
Totals:	0.732	Totals:	0.784

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	0.391	1.130	1.522
2	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.209	1.045	1.254
3	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.119	1.104	1.223
4	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.281	0.935	1.216
5	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.281	0.917	1.198
6	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.195	0.960	1.154
7	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.326	0.795	1.121
8	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.267	0.853	1.120
9	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	0.222	0.889	1.111
10	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.390	0.692	1.082
11	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.250	0.812	1.062
12	**NF-03-M-55**	**MIXED HOUSES**	**NEAR NORWICH**	**150**	**Wed**	**09/28/22**	**0.260**	**0.793**	**1.053**
13	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	0.333	0.714	1.048
14	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.210	0.832	1.042
15	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.209	0.818	1.027
16	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.186	0.837	1.023
17	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.233	0.789	1.022
18	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.264	0.736	1.000
19	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.236	0.713	0.949
20	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.242	0.700	0.942
21	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.189	0.744	0.933
22	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.064	0.852	0.916
23	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.133	0.773	0.907
24	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.164	0.743	0.907
25	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.109	0.793	0.902
26	SC-03-M-13	DETACHED HOUSES &	OXTED	168	Tue	11/22/22	0.125	0.768	0.893

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
		FLATS							
27	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.164	0.720	0.884
28	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.250	0.628	0.878
29	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.140	0.722	0.863
30	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.213	0.647	0.860
31	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.153	0.695	0.847
32	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.224	0.619	0.843
33	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.151	0.682	0.832
34	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.180	0.630	0.810
35	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.160	0.644	0.804
36	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.136	0.661	0.797
37	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.000	0.750	0.750
38	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.143	0.589	0.732
39	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.265	0.465	0.730
40	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.152	0.576	0.727
41	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.067	0.650	0.717
42	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.104	0.612	0.715
43	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.106	0.591	0.697
44	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.149	0.546	0.696
45	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.250	0.438	0.688
46	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.187	0.493	0.680
47	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.168	0.492	0.660
48	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.164	0.492	0.656
49	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.137	0.496	0.632
50	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.200	0.430	0.630
51	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.109	0.521	0.630
52	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.051	0.574	0.625
53	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.125	0.492	0.617
54	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.108	0.500	0.608
55	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.075	0.525	0.600
56	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.085	0.511	0.596
57	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.194	0.400	0.594
58	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.120	0.470	0.590
59	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.176	0.407	0.583
60	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.131	0.437	0.567

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
61	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.222	0.333	0.556
62	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.165	0.383	0.548
63	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.211	0.320	0.531
64	**WS-03-M-04**	**HOUSES & FLATS**	**CHICHESTER**	**214**	**Thu**	**05/08/14**	**0.136**	**0.393**	**0.528**
65	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.114	0.408	0.522
66	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.077	0.442	0.519
67	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.184	0.327	0.510
68	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.057	0.429	0.486
69	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.057	0.415	0.472
70	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.100	0.357	0.457
71	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.111	0.333	0.444
72	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.067	0.345	0.412
73	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.050	0.347	0.397
74	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	0.025	0.319	0.345
75	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.066	0.230	0.295

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Vehicle Occupants

Ranking Type: **TOTALS** | Time Range: 17:00-18:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | SC-03-M-13 | Totals: 0.440
85th Percentile = No. **12** | SM-03-M-01 | Totals: 0.830

Median Values		Mean Values	
Arrivals:	0.44	Arrivals:	0.438
Departures:	0.227	Departures:	0.215
Totals:	0.667	Totals:	0.652

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	0.905	0.524	1.429
2	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	0.656	0.531	1.188
3	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	0.785	0.358	1.143
4	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	0.696	0.391	1.087
5	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	0.812	0.188	1.000
6	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	0.664	0.322	0.987
7	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	0.595	0.380	0.975
8	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	0.578	0.389	0.967
9	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	0.556	0.374	0.929
10	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	0.552	0.322	0.874
11	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	0.653	0.197	0.850
12	**SM-03-M-01**	**DETACHED & TERRACED HOUSES**	**TAUNTON**	**135**	**Wed**	**09/26/18**	**0.615**	**0.215**	**0.830**
13	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	0.500	0.329	0.829
14	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	0.580	0.240	0.820
15	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	0.533	0.283	0.817
16	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	0.621	0.171	0.793
17	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	0.438	0.346	0.784
18	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	0.402	0.368	0.769
19	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	0.484	0.271	0.755
20	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	0.562	0.193	0.755
21	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	0.483	0.260	0.743
22	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	0.454	0.277	0.731
23	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	0.490	0.223	0.713
24	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	0.433	0.279	0.712
25	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	0.489	0.222	0.711

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
26	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	0.475	0.232	0.707
27	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	0.416	0.290	0.706
28	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	0.568	0.135	0.703
29	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	0.487	0.213	0.700
30	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	0.453	0.240	0.693
31	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	0.458	0.229	0.687
32	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	0.596	0.088	0.684
33	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	0.392	0.292	0.683
34	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	0.362	0.319	0.681
35	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	0.388	0.286	0.673
36	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	0.407	0.267	0.673
37	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	0.493	0.179	0.672
38	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	0.440	0.227	0.667
39	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	0.443	0.214	0.657
40	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	0.442	0.208	0.650
41	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	0.427	0.208	0.635
42	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	0.366	0.244	0.611
43	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	0.350	0.250	0.600
44	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	0.380	0.216	0.596
45	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	0.360	0.221	0.581
46	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	0.350	0.212	0.562
47	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	0.393	0.167	0.560
48	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	0.398	0.148	0.547
49	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	0.379	0.167	0.545
50	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	0.373	0.173	0.545
51	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	0.457	0.087	0.543
52	WS-03-M-04	HOUSES & FLATS	CHICHESTER	214	Thu	05/08/14	0.327	0.210	0.537
53	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	0.371	0.160	0.531
54	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	0.293	0.227	0.520
55	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	0.408	0.108	0.517
56	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	0.288	0.226	0.514
57	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	0.295	0.213	0.508
58	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	0.275	0.220	0.495
59	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	0.378	0.109	0.487
60	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	0.332	0.149	0.482

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
61	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	0.296	0.157	0.454
62	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	0.370	0.079	0.448
63	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	0.444	0.000	0.444
64	**SC-03-M-13**	**DETACHED HOUSES & FLATS**	**OXTED**	**168**	**Tue**	**11/22/22**	**0.357**	**0.083**	**0.440**
65	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	0.296	0.134	0.430
66	NF-03-M-04	MIXED HOUSES & FLATS	HUNSTANTON	70	Thu	09/19/19	0.300	0.114	0.414
67	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	0.252	0.157	0.409
68	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	0.283	0.094	0.377
69	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	0.265	0.096	0.360
70	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	0.261	0.095	0.357
71	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	0.246	0.084	0.330
72	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	0.230	0.066	0.295
73	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	0.231	0.060	0.291
74	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	0.218	0.054	0.272
75	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	0.231	0.038	0.269

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RANK ORDER for Land Use 03 - RESIDENTIAL/M - MIXED PRIVATE/NON-PRIVATE HOUSING:
Vehicle Occupants

Ranking Type: **TOTALS** | Time Range: 07:00-19:00 | CALCULATION FACTOR: DWELLS DWELLS
15th Percentile = No. **64** | WS-03-M-04 | Totals: 4.612
85th Percentile = No. **12** | NF-03-M-04 | Totals: 7.286

Median Values		Mean Values	
Arrivals:	2.947	Arrivals:	2.965
Departures:	3.067	Departures:	3.068
Totals:	6.013	Totals:	6.033

Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
1	WS-03-M-13	TERRACED & FLATS	WORTHING	23	Tue	06/21/16	4.826	5.130	9.957
2	DE-03-M-01	MIXED HOUSES & FLATS	COLERAINE	21	Wed	10/12/16	4.714	4.619	9.333
3	WS-03-M-07	HOUSES & FLATS	BOGNOR REGIS	90	Wed	03/05/14	4.233	4.467	8.700
4	ES-03-M-19	MIXED HOUSES & FLATS	HAILSHAM	149	Thu	06/17/21	4.154	4.349	8.503
5	WS-03-M-20	MIXED HOUSES & FLATS	HORSHAM	121	Thu	10/24/19	4.132	4.215	8.347
6	WS-03-M-19	MIXED HOUSES & FLATS	BOGNOR REGIS	32	Thu	10/17/19	4.031	4.312	8.344
7	NF-03-M-59	MIXED HOUSES	WYMONDHAM	153	Thu	09/29/22	3.791	4.059	7.850
8	KC-03-M-03	MIXED HOUSES & FLATS	MAIDSTONE	140	Tue	05/22/18	3.757	3.979	7.736
9	SM-03-M-01	DETACHED & TERRACED HOUSES	TAUNTON	135	Wed	09/26/18	3.511	3.815	7.326
10	ES-03-M-09	DETACHED/SEMI-DETACHED	NORTHIAM	16	Wed	05/17/17	3.875	3.438	7.312
11	NF-03-M-03	MIXED HOUSES	NORTH WALSHAM	70	Wed	09/18/19	3.571	3.729	7.300
12	**NF-03-M-04**	**MIXED HOUSES & FLATS**	**HUNSTANTON**	**70**	**Thu**	**09/19/19**	**3.614**	**3.671**	**7.286**
13	WS-03-M-06	SEMI DETACHED/ DETACHED	CHICHESTER	67	Tue	01/27/15	3.373	3.851	7.224
14	WS-03-M-29	MIXED HOUSES & FLATS	SOUTHWATER	193	Tue	03/05/24	3.528	3.632	7.161
15	CA-03-M-02	MIXED HOUSES & FLATS	SOHAM	87	Wed	05/26/21	3.621	3.517	7.138
16	WS-03-M-27	MIXED HOUSES	NEAR CRAWLEY	292	Wed	11/22/23	3.384	3.695	7.079
17	ES-03-M-07	MIXED HOUSING	PEACEHAVEN	188	Thu	11/12/15	3.468	3.590	7.059
18	ES-03-M-14	MIXED HOUSES & FLATS	EASTBOURNE	119	Thu	11/15/18	3.235	3.815	7.050
19	WS-03-M-23	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/13/21	3.374	3.596	6.970
20	WS-03-M-18	MIXED HOUSES & FLATS	BOGNOR REGIS	86	Thu	10/17/19	3.279	3.570	6.849
21	NF-03-M-14	MIXED HOUSES & FLATS	WYMONDHAM	321	Thu	09/19/19	3.408	3.336	6.745
22	WS-03-M-28	MIXED HOUSES & FLATS	CHICHESTER	99	Wed	10/11/23	3.475	3.222	6.697
23	HC-03-M-24	MIXED HOUSES & FLATS	ANDOVER	314	Tue	11/26/24	3.325	3.350	6.675
24	NF-03-M-39	MIXED HOUSES	ATTLEBOROUGH	61	Wed	10/14/20	3.213	3.443	6.656
25	NF-03-M-02	MIXED HOUSES	AYLSHAM	250	Tue	09/17/19	3.300	3.328	6.628

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
26	HC-03-M-17	MIXED HOUSES & FLATS	ALTON	275	Wed	10/12/22	3.251	3.342	6.593
27	ES-03-M-18	MIXED HOUSES	WIVELSFIELD GREEN	75	Tue	06/15/21	3.267	3.320	6.587
28	ES-03-M-01	HOUSES & FLATS	NEAR UCKFIELD	74	Wed	06/20/12	3.324	3.203	6.527
29	CT-03-M-02	MIXED HOUSES & FLATS	SHEFFORD	150	Tue	06/10/25	3.147	3.293	6.440
30	HC-03-M-25	MIXED HOUSES & FLATS	FLEET	215	Thu	03/27/25	3.060	3.372	6.433
31	ES-03-M-11	MIXED HOUSES & FLATS	HAILSHAM	354	Wed	07/13/16	3.093	3.331	6.424
32	WS-03-M-30	MIXED HOUSES	BRACKLESHAM BAY	110	Wed	11/06/24	3.182	3.209	6.391
33	CM-03-M-02	HOUSES & FLATS	CARMARTHEN	49	Tue	10/14/14	3.122	3.245	6.367
34	NF-03-M-43	MIXED HOUSES	NEAR NORWICH	100	Tue	09/21/21	3.390	2.940	6.330
35	SC-03-M-16	MIXED HOUSES & FLATS	CRANLEIGH	120	Thu	10/10/24	3.142	3.183	6.325
36	ES-03-M-23	DETACHED & SEMI-DETACHED	HAILSHAM	66	Tue	09/24/24	2.985	3.318	6.303
37	WL-03-M-03	MIXED HOUSES & FLATS	NEAR SALISBURY	260	Tue	10/09/18	2.946	3.269	6.215
38	CT-03-M-01	MIXED HOUSES & FLATS	SHEFFORD	75	Wed	06/28/23	2.947	3.067	6.013
39	HC-03-M-19	MIXED HOUSES & FLATS	BASINGSTOKE	286	Tue	06/27/23	2.972	3.035	6.007
40	HI-03-M-06	MIXED HOUSES & FLATS	NEAR FORT WILLIAM	117	Wed	10/09/24	2.897	3.043	5.940
41	SC-03-M-17	MIXED HOUSES & FLATS	HASLEMERE	131	Tue	04/29/25	2.855	3.061	5.916
42	SC-03-M-02	HOUSES & FLATS	NEAR FRIMLEY	342	Wed	02/10/10	2.757	2.974	5.731
43	NF-03-M-63	MIXED HOUSES	NORTH WALSHAM	100	Wed	09/21/22	2.820	2.900	5.720
44	HC-03-M-14	MIXED HOUSES & FLATS	WINCHESTER	200	Wed	05/26/21	2.760	2.910	5.670
45	ES-03-M-20	MIXED HOUSES & FLATS	HORAM	47	Tue	10/05/21	3.021	2.638	5.660
46	NF-03-M-55	MIXED HOUSES	NEAR NORWICH	150	Wed	09/28/22	2.653	2.947	5.600
47	NF-03-M-42	MIXED HOUSES	HOVETON	120	Thu	09/16/21	2.658	2.900	5.558
48	NF-03-M-62	MIXED HOUSES	AYLSHAM	250	Wed	09/21/22	2.716	2.828	5.544
49	HF-03-M-06	MIXED HOUSES & FLATS	HERTFORD	208	Tue	03/12/24	2.976	2.558	5.534
50	HC-03-M-28	MIXED HOUSES & FLATS	FLEET	136	Thu	05/01/25	2.779	2.750	5.529
51	HC-03-M-06	HOUSES & FLATS	NEAR FAREHAM	328	Wed	11/04/15	2.640	2.869	5.509
52	WS-03-M-05	MIXED HOUSING	WEST HORSHAM	92	Thu	10/23/14	2.500	3.000	5.500
53	WS-03-M-16	MIXED FLATS & HOUSES	CHICHESTER	252	Wed	03/21/18	2.687	2.714	5.401
54	CA-03-M-03	DETACHED & SEMI-DETACHED	SAWTRY	194	Wed	10/02/24	2.686	2.706	5.392
55	NF-03-M-51	MIXED HOUSES	HARLESTON	120	Wed	09/29/21	2.625	2.725	5.350
56	HC-03-M-21	MIXED HOUSES & FLATS	BASINGSTOKE	115	Thu	11/02/23	2.600	2.722	5.322
57	NF-03-M-61	MIXED HOUSES & FLATS	NEAR NORWICH	180	Wed	09/28/22	2.539	2.694	5.233
58	WS-03-M-12	HOUSES & FLATS	SHOREHAM BY SEA	192	Wed	04/27/16	2.583	2.589	5.172
59	ES-03-M-15	MIXED HOUSES	MARESFIELD	80	Wed	03/13/19	2.450	2.638	5.088
60	HC-03-M-26	MIXED HOUSES & FLATS	YATELEY	150	Thu	05/01/25	2.493	2.593	5.087
61	MW-03-M-01	MIXED HOUSES	RAINHAM	128	Wed	06/21/23	2.375	2.398	4.773

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Rank	Site-Ref	Description	Town/City	DWELLS	Day	Date	Trip Rate (Sorted by totals)		
							Arrivals	Departures	Totals
62	SC-03-M-10	MIXED HOUSES & FLATS	GODALMING	108	Thu	06/09/22	2.269	2.444	4.713
63	SC-03-M-14	MIXED HOUSES & FLATS	LONGCROSS	179	Wed	11/16/22	2.346	2.363	4.709
64	**WS-03-M-04**	**HOUSES & FLATS**	**CHICHESTER**	**214**	**Thu**	**05/08/14**	**2.210**	**2.402**	**4.612**
65	SC-03-M-13	DETACHED HOUSES & FLATS	OXTED	168	Tue	11/22/22	2.274	2.304	4.577
66	HC-03-M-13	MIXED HOUSES & FLATS	YATELEY	106	Tue	06/08/21	2.189	2.226	4.415
67	OX-03-M-02	MIXED HOUSES & FLATS	OXFORD	117	Wed	10/20/21	2.171	2.137	4.308
68	HF-03-M-07	TERRACED & DETACHED	SAWBRIDGEWORTH	191	Thu	11/28/24	1.995	2.094	4.089
69	DV-03-M-01	HOUSES & FLATS	EXETER	61	Thu	10/06/11	1.967	2.000	3.967
70	WS-03-M-31	MIXED HOUSES & FLATS	HASSOCKS	165	Wed	05/07/25	1.861	1.970	3.830
71	GM-03-M-01	TERRACED & FLATS	ROCHDALE	9	Tue	11/25/14	1.889	1.556	3.444
72	SC-03-M-07	HOUSES/FLATS	GUILDFORD	199	Thu	10/24/13	1.623	1.673	3.296
73	CA-03-M-01	MIXED HOUSES & FLATS	WATERBEACH	52	Wed	06/20/18	1.519	1.712	3.231
74	SC-03-M-06	HOUSES & FLATS	REDHILL	500	Wed	12/11/13	1.570	1.620	3.190
75	ES-03-M-16	MIXED HOUSES & FLATS	BEXHILL	119	Wed	07/10/19	1.378	1.622	3.000

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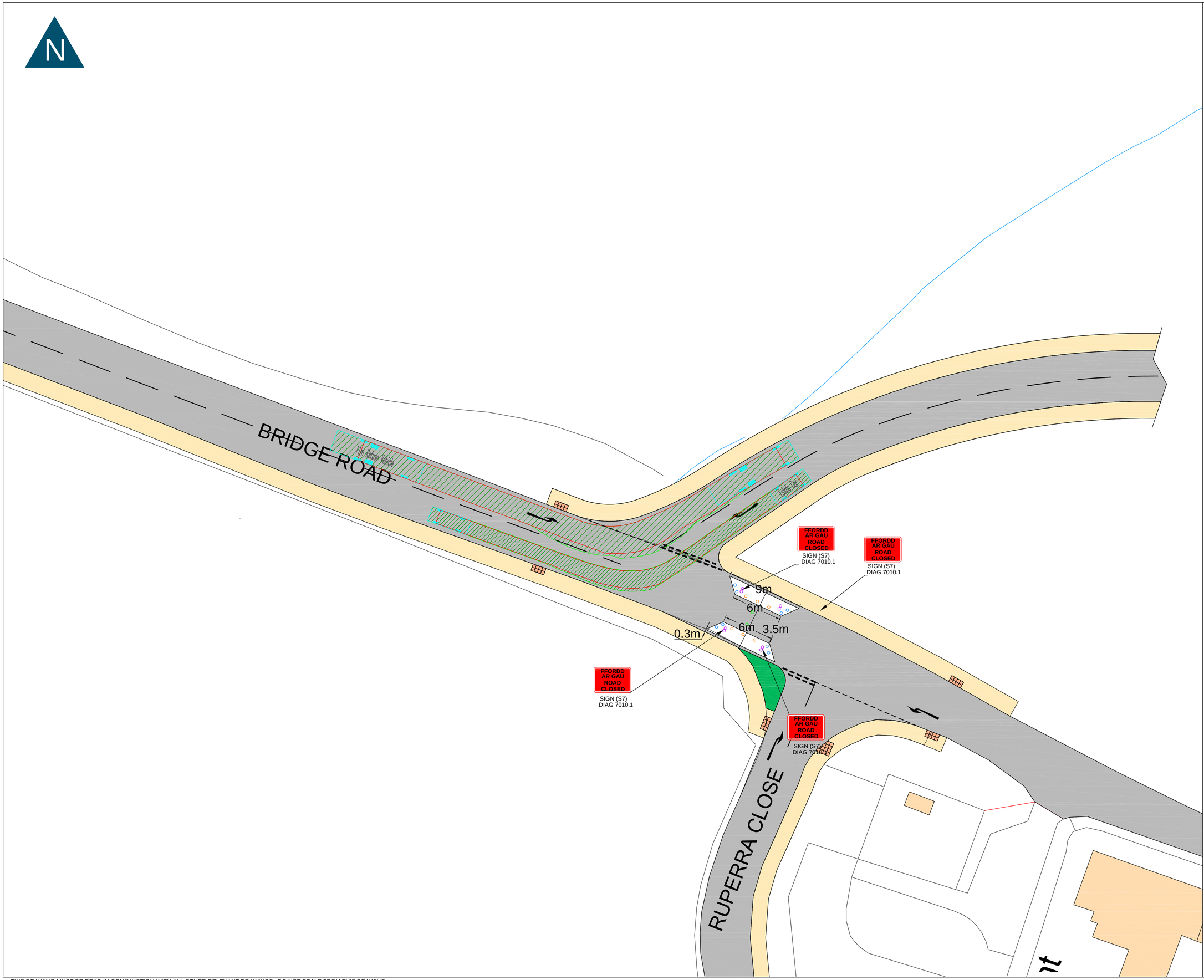
Appendix B



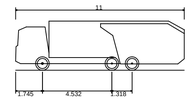
GENERAL NOTES

1. This drawing to be read in conjunction with all relevant civil engineering drawings.

LEGEND

Estate Car

Overall Length	4.845m
Overall Width	1.750m
Overall Body Height	1.424m
Min Body Ground Clearance	0.189m
Max Track Width	1.655m
Lock to Lock Time	4.00s
Kerb to Kerb Turning Radius	4.950m



11m Refuse Vehicle

Overall Length	11.000m
Overall Width	2.530m
Overall Body Height	3.211m
Min Body Ground Clearance	0.416m
Track Width	2.530m
Lock to Lock Time	4.00s
Kerb to Kerb Turning Radius	7.500m

NOT FOR CONSTRUCTION

Rev	Date	Description	Drawn	Check

lime TRANSPORT

Avon House,
Stanwell Road
Penarth, CF64 2EZ
Tel 029 2070 0924

mail@limetransport.com
www.limetransport.com

Drawing Status
PRELIMINARY

Project
Bridge Road, Old St Mellons, Cardiff

Title
Proposed access arrangements Swept path analysis 4.8m estate car and 11m refuse vehicle

Drawing No
21081.OS.102.03

Date 25/03/2026
Scale 1:200@A1
Drawn DT
Checked HLJ
Project No **21081**
Client Project No
Revision

THIS DRAWING MUST BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS. DO NOT SCALE FROM THIS DRAWING

Appendix 5: Land at Bridge Road, Cardiff – Preliminary Ecological Assessment Report

Bryn Began Farm
Began Road
Old St Mellons
Cardiff Gate

Preliminary Ecological Assessment Report

For Persimmon Homes

August 2021

TerrAqua Ecological Services Ltd

SE Wales Office
36 Somerset Road East
Barry
Vale of Glamorgan
CF63 1BE
[redacted]

W Wales Office
Swyn **yr** Awel,
Bwlch y Groes,
Llandysul
Ceredigion
SA44 5JX
[redacted]

Survey Undertaken By:

Carmen Jones MSc MCIEEM and Dyfrig Jones BSc

Report Written By:

Carmen Jones

Report Verified By:

Dyfrig Jones

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1 Introduction

1.1 Survey Brief

TerrAqua Ecological Services Ltd was commissioned by Persimmon Homes to undertake a Preliminary Ecological Assessment/Extended Phase I Habitat Survey/Ecological Assessment of a parcel of land at Bryn Began Farm, Old St Mellons, Cardiff, Glamorgan. Approximate central grid reference ST22780 82527. The survey boundary was taken as that supplied by Mr Morgan Williams of Persimmon Homes.

The survey was undertaken in August 2021 in order to understand any ecological issues that may be present within the site and allow for any ecological constraints to be considered during its submission for inclusion within the Cardiff LDP and any future use of the site.

1.2 Client Details

The survey was undertaken on behalf of Persimmon Homes, Persimmon House, Llantrisant Business Park, Rhondda Cynon Taf, CF72 8YP, following instructions to proceed by Mr Morgan Williams acting for Persimmon Homes.

2 Background

2.1 Rational

The survey was undertaken prior to the submission of an application for the inclusion of the site into the Cardiff Local Development Plan and subsequent development of the site for residential purposes. This Extended Phase I Survey/Preliminary Ecological Appraisal will ascertain the ecological value of the site and identify any further ecological survey work required to complete a full appraisal of its ecological value and to ensure compliance with current legislation. All conclusions and recommendations made within this report are based solely on the information collected during the Phase I survey/Preliminary Ecological Assessment and associated data search results.

2.2 Site Description

The site is located within a rural landscape and forms part of a larger area of agricultural land, part of Bryn Began farm. The survey area includes three large, cultivated fields. The site has a westerly aspect and slopes in a westerly direction. The fields are separated by mature hedgerows and a small watercourse. The eastern boundary lies adjacent to residential properties located off Began road.

2.3 National Designations

The site, or any part of, is not covered by any statutory national or international conservation designation such as SAC, SPA or SSSI.

2.4 Local Designations

No part of the site is covered by a local designation such as a Site of Interest to Nature Conservation (SINCs). A number of SINCs are located within a 1.5km radius of the site boundary including:

River Rhymney 300m West
Druidstone Road 750m East
St Julians Forge Fields 1km North West
Nant Mwlan Woods 1km North
Cath Cobb Wood 1.5km South
Pontprennau Wood 1km West
Tyla Farm Wood 1.5km East

3 Methodologies

The survey methodologies as used to assess the site are outlined below. These are accepted by both local authority and conservation bodies as the standard ecological assessment methodologies.

The survey was undertaken within the site boundaries as supplied by Mr Morgan Williams acting for Persimmon Homes

3.1 Survey Dates and Personnel

The survey was undertaken in August 2021 by Carmen Jones MSc MCIEEM Senior Ecological Consultant and Dyfrig Jones BSc Senior Ecological Consultant. Both highly experienced ecologists with extensive experience in both ecological assessment and species-specific issues.

3.2 Extended Phase I Ecological Assessment

The walkover survey consists of an assessment of the habitats present and was undertaken following the methodology as set out in the Handbook for Phase I Habitat Survey and extended to cover faunal species and their habitats according to the Guidelines for Ecological Assessment, identified habitats were mapped using MapInfo Professional Software and target notes (TN) taken where appropriate for any additional features noted. The habitats mapped and target note locations are shown in Appendix II.

In addition, as part of the extended phase I survey, a record was made of all mammals, birds, amphibian, reptile and invertebrate fauna for which a sighting or evidence of activity was observed as well as the identification of habitats present considered suitable to support both internationally and nationally protected species, or any species considered to be rare or of local significance.

3.3 Data Search

A desk top data search was undertaken for any records of species and/or habitats within the survey boundary. The data search was also extended to include a search for records within a 1 km radius of the survey centre of species or habitats, including protected and designated sites, which could be affected by the proposals for the site (Appendix III).

The data search included a search of records as held by the National Biodiversity Network online Gateway and a full data search undertaken by the South East Wales Biodiversity Record Centre (SEWBReC) and supplied by Aderyn **Reference** 0212-414

3.4 Survey Limitations

The Phase I methodology is not intended to produce comprehensive species lists of fauna and flora and therefore the species lists should be considered representative but not totally inclusive. In particular mammal, invertebrate and bird species are likely to be under recorded during a single walkover survey.

The Phase I Survey/Preliminary Ecological Assessment was undertaken in August when grassland species are generally still in flower and are easy to identify. All areas of the site were fully accessible. Therefore, the results of the extended Phase I survey is considered an accurate reflection of habitat types present within the site boundary.

The Phase I Habitat Survey does not set out to identify all non-native or native invasive plant species such as Japanese Knotweed. These species may be recorded during the course of the survey; however the absence of records for such species should not be taken as a statement that such species are not present within the survey area. If the presence of such species is of primary significance for any future use of the site then further detailed vegetation surveys to identify and map any such plants should be undertaken.

4 Results Extended Phase I Survey

4.1 Habitats

4.1.1 Arable F1- F3

The site is dominated by three large, enclosed fields currently cultivated with a recently harvested wheat crop and subsequent replanting. All three fields are subject to the same agricultural management.

F1
Short monoculture sward some 5cm in height, and recently harvested. The field has a westerly aspect. The crop has been densely planted and field margins are generally very narrow, in some instances planting occurs right to the base of the hedgerows. Where margins do occur within field F1 these have a maximum width of 1m and have been colonised by species common to arable field margins and disturbed ground and includes some grassland species common in adjacent pastures. These include Yorkshire fog (*Holcus lanatus*), meadow buttercup (*Ranunculus acris*), broad leaved dock (*Rumex obtusifolius*), common cleavers (*Galium aparine*), annual meadow (*Poa annua*), perennial rye (*Lolium perenne*), common ragwort (*Jacobaea vulgaris*), greater plantain (*Plantago major*), germander speedwell (*Veronica chamaedrys*), common cats ear (*Hypochaeris radicata*), stinging nettle (*Urtica dioica*), meadow thistle (*Cirsium dissectum*), creeping thistle (*Cirsium, arvense*) redshank (*Persicaria maculosa*), pineapple mayweed (*Maticaria discoidea*). Red clover (*Trifolium*

pratense), common mouse ear (*Cerastium fontanum*), Himalayan balsam (*Impatiens glandulifera*) and low growing bramble (*Rubus sp*).

Plate 1 arable field F1

F2

Large field with monoculture short sward some 10cm in height .and recently harvested. The field has a similar floristic community within the narrow margins with yorkshire fog, perennial rye, common cleavers, broadleaved dock, common ragwort, greater plantain, stinging nettle, creeping thistle, meadow thistle, pineapple mayweed, common mouse ear, meadow buttercup, common bent (*Agrostis tenuis*), cut leaved cranesbill (*Geranium dissectum*), scarlet pimpernel (*Anagallis arvensis*), red dead nettle (*Lamium purpureum*), daisy (*Bellis perennis*), greater willowherb (*Epilobium hirsutum*) and red campion (*Silene dioica*) also present.

Plate 2 arable field F2

F3

Large field with monoculture short sward some 10cm in height .and recently harvested. The field has a similar floristic community within the narrow margins with yorkshire fog, perennial rye, common cleavers, broadleaved dock, common ragwort, greater plantain, stinging nettle, creeping thistle, meadow thistle, pineapple mayweed, common mouse ear, meadow buttercup, common bent (*Agrostis tenuis*), cut leaved cranesbill, scarlet pimpernel, red dead nettle, daisy, greater willowherb, and red campion (*Silene dioica*) also present.

Plate 3 arable field F3

4.1.2 Broadleaf Deciduous Woodland

Three areas of deciduous woodland are located within the site boundary. The largest areas (W1 and W2) are located towards the south west corner of the site

W1

This woodland block comprises a broadleaf plantation dominated by alder (*Alnus glutinosa*) with a height of some 4-5m with a thin mixed species understorey which includes blackthorn (*Prunus spinosa*), hawthorn (*Crataegus monogyna*), hazel (*Corylus avellana*), elder (*Sambucus nigra*), field maple (*Acer campestre*) and oak (*Quercus rober*) saplings. The field and ground layer is dominated bey dense stands of non-native Himalayan balsam, shading out many native species. Where the balsam becomes less dense species such as stinging nettle, broad leaved dock, ivy (*Hedera helix*), bluebell (*Hyacinthoides non-scripta*), common cleavers, red campion, herb bennet (*Geum urbanum*), male fern (*Dryopteris filix-mas*), herb robert (*Geranium robertianum*), arum (*Arum maculatum*), dogs mercury (*Mercurialis perennis*) wood anemone (*Anemone nemerosa*) and low growing bramble occur.

Plate 4 broadleaf plantation woodland W1

W2

Narrow strip of broadleaf woodland between hedgerow H7 and woodland W1. The woodland is dominated by mature alder with a thin understorey of mixed species including haze, hawthorn and low growing bramble. The ground flora is similar to that of W1 although balsam is less dense within this woodland strop.

Plate 5 woodland W2

W3

Small area of mature mixed broadleaf and non-native conifer woodland occurring just inside the gateway of field F1 and extending to gardens outside the survey area. Species present include non-native conifer, sycamore (*Acer pseudoplatanus*), ash (*Fraxinus excelsior*), elder and dense bramble.

Plate 6 woodland W3

4.1.3 Hedgerows

A total of eleven hedgerows are located within or form part of the site boundary.

H1
Hedgerow between F1 and adjacent gardens. The hedgerow is tall some 3m in height, with standard trees and set on hedge bank. The hedge is currently unmanaged.

Dominant woody species present include sycamore, hawthorn, silver birch (*Betula pendula*), oak and willow species (*Salix sp*). The ground and field layers are poor due to shading by overhanging boughs and the effects of cultivation to within 1m of the hedge base. Species recorded include low bramble, ivy, stinging nettle, broad buckler fern, bracken (*Pteridium aqualinum*), red campion, herb robert, herb bennet, primrose (*Primula vulgaris*) and occasional Himalayan balsam.

Plate 7 hedgerow H1

H2
Tall, lank and un-managed hedgerow reaching some 3m in height with associated bank. Dominant woody species include hazel, hawthorn, elder, blackthorn, holly, field maple and ash. Field and ground layers poor due to close planting of crop. Species recorded include nettle, greater willowherb, foxglove (*Digitalis purpurea*), bluebell, red campion, meadow buttercup, common ragwort, bracken (*Pteridium aqualinum*), lungwort (*Pulmonaria officinalis*), ivy, greater stichwort (*Stellaria holostea*), herb bennet, herb robert, brad leaved dock, creeping thistle, and Himalayan balsam.

Plate 8 hedgerow H2

H3

Defunct, tall and unmanaged hedgerow with associated remnant bank and ditch, separating field F1 and F2. Two mature horse chestnut (*Aesculus hippocastanum*) trees are present within the hedge as standards. Woody species include hazel, hawthorn, elder, holly, sycamore, and blackthorn. The field and ground layer is general poor due to the ploughing and planting of crops close to the hedge base. Species recorded include herb robert, common cleavers, hedge bedstraw (*Galium album*), nettle, broad leaved dock, common bent, Yorkshire fog, false oat (*Arrhenatherum elatis*), meadow buttercup, herb bennet, red campion, greater willowherb, creeping thistle, meadow thistle, hemp agrimony (*Eupatorium cannabinum*), rush (*Juncus sp*), and Himalayan balsam.

Plate 9 hedgerow H3

H4

Tall, lanky un-managed hedgerow with associated bank. Horse chestnut trees present as standards within the hedge. Woody species present include elder, hazel, blackthorn, oak, and hawthorn. Ground and field layers poor due to close crop planting to base of hedge. Species present include stinging nettle, common ragwort, pineapple mayweed, ox eye, creeping thistle, common cleavers, ivy, dogs mercury (*Mercurialis perennis*), bluebell, lesser celandine (*Ranunculus ficaria*), red campion, herb robert, bracken, scarlet pimpernel, hedge woundwort (*Stachys sylvatica*), common vetch (*Vicia sativa*), tufted vetch (*Vicia cracca*), hedge bedstraw, red nettle, meadow vetchling (*Lathyrus pratensis*), bracken and greater willowherb. Bramble outgrowths extend into the base of the hedge and field.

Plate 10 hedgerow H4

H5

Tall, lanky and un-managed hedgerow with associated bank. The hedgerow has large areas where woody material is absent, but hedge bank is retained and these areas are dominated by tall herbs. Woody species include hazel, blackthorn, field maple (*Acer campestre*), and elder. The hedgerow base has extensive bramble outgrowths. Ground and field layers are poor due to close crop planting to base of hedge. Species present include, common cleavers, ivy, dogs mercury (*Mercurialis perennis*), bluebell, lesser celandine (*Ranunculus ficaria*), red campion, herb robert, bracken, nettle, himalayan balsam, common vetch, hedge bedstraw, greater willowherb, common dock, creeping thistle and occasional meadowsweet (*Filipendula ulmaria*).

Plate 11 hedgerow H5

H6

Tall mature and unmanaged hedgerow set on hedge bank. The hedgerow forms a boundary with woodland W1. Dominant woody species include elder, hazel, hawthorn, crab apple, blackthorn and holly with extensive stands of bramble. The ground and field layers are representative of the adjacent woodland and include enchanters nightshade, dogs mercury, ivy, herb robert, herb bennet, lesser celandine, primrose, red campion, arum and hartstongue fern.

Plate 12 hedgerow H6

H7

Tall unmanaged hedgerow set on a hedge bank with a remnant ditch. The hedgerow forms a boundary with woodland W2. Woody species present include dense hazel, holly, hawthorn, elder and dog rose. Ground and field layers are typical of the adjacent woodland and include enchanters nightshade, dogs mercury, ivy, herb robert, herb bennet, lesser celandine, broad buckler fern, primrose, red campion, arum and hartstongue fern.

Plate 13 hedgerow H7

H8

Tall mature and unmanaged hedgerow set on hedge bank with adjacent ditch/watercourse. A large section of the hedge is devoid of woody species with the hedge bank dominated by tall herbs, grass and bramble. Woody species present include hawthorn, hazel, blackthorn, elder, sycamore, and alder. Field and ground layers are variable according to presence of woody species or open bank and include enchanters nightshade, dogs mercury, ivy, herb robert, herb bennet, lesser celandine, primrose, red campion, arum, greater willowherb, creeping thistle, meadow thistle, hedge bindweed (*Calystegia sepium*), hedge parsley (*Anthriscus sylvestris*), horse tail (*Equisetum sp*), common dock, ox eye, with phragmites within the ditch area.

Plate 14 hedgerow H8

Plate 15 hedgerow H8 remnant bank

H9

Manged roadside hedge 2m in height and set on hedge bank. Dominant woody species include hazel, hawthorn, ash, field maple, elm, and blackthorn. Ground and field layers are poor due to close planting of crop and include bramble, greater willowherb, broadleaved willowherb (*Epilobium montanum*), hedge bindweed, field bindweed, pineapple mayweed, arum, bracken, and occasional meadowsweet.

Plate 16 hedgerow H9

H10

Tall unmanaged hedgerow with standard trees set on hedge bank. Dominant woody species include elder, hazel, ash, holly, hawthorn, willow, field maple and extensive bramble. Ground and field layers are poor due to close planting of crop and include bracken, greater willowherb, broad leaved willowherb, stinging nettle, common dock, arum and grass species.

Plate 17 hedgerow H10

H11

Mature hedge forming boundary with adjacent gardens. The hedgerow is a mix of native hedgerow species and cultivated non native species. Native species include hawthorn, oak, holly, hazel and hawthorn. Non native species include cultivated privet, plum, and garden shrubs. The ground and field layers are poor with low growing bramble, bracken, greater willowherb, herb robert, herb bennet, red campion, chervil, hedge parsley, common cleavers, nettle, primrose, cultivated cranesbill species, and field bindweed present.

Plate 18 hedgerow H11

4.1.4 Watercourse

A narrow watercourse forms the boundary between fields F1 and F2 and continues along hedgerow H8. The watercourse is located within a deep channel although water levels are low with a maximum depth of 5cm recorded during the survey with some areas remining dry. The banks of the watercourse are dominated by a mix of hedgerow species and tall herb including stands of greater willowherb, hemp agrimony, Himalayan balsam and nettle. Towards its southern end the ditch widens and becomes part of a small wetland/tall herb area . Here species such as hemlock water dropwort (*Oenanthe crocata*), flag iris (*Iris pseudacorus*), soft rush, and marsh marigold (*Caltha palustris*) are relatively common. Along H8 open areas are dominated by phragmites.

Plate 19 watercourse/ditch hedge at H3

Plate 20 watercourse/ditch at H8

4.1.5 Tall Herb

Stands of tall herb are common within the woodland blocks located towards the south western corner of the site and are extensive within W1. Non-native Himalayan balsam has become the dominant field layer within this woodland. Tall herbs are also present along lengths of all hedgerows and along the top of the banks dividing fields F1 and F2 and hedgerow H8. Around the woodland area and watercourse/ditch the tall herb community is dominated by Himalayan balsam, hemlock water dropwort, hemlock (*Conium macultum*), hemp agrimony, greater willowherb, hogweed, nettle, burdock (*Arctium lappa*), common ragwort, rough chervil (*Chaerophyllum temulum*) and alder saplings. Grater willowherb is common along all hedgerows. A large expanse of tall herb dominated by Himalayan balsam separates woodland W1 and W2.

Plate 21 tall herb between woodlands W1 and W2

4.1.6 Mature Trees

Mature trees are a common feature within the hedgerow system. Common species include horse chestnut, ash and oak. A single large mature oak is located within field F2.

Table 1 Showing Target Ecological Features as shown on Phase I Map (Appendix II)

Target Note	Description
TN1	Mature oak within H3 potential for use by bats (plate 22)
TN2	Large horse chestnut within H3 potential for use by bats
TN3	Mature horse chestnut within H3 some potential for use by bats
TN4	Mature horse chestnut within H3 potential for use by bats
TN5	Mature horse chestnut within H4 potential for use by bats
TN6	Mature horse chestnut within H4 potential for use by bats
TN7	Area of tall herb set on hedge bank at site of missing hedge section with potential for use by reptiles (plate 23)
TN8	Mature oak within field F2 potential for use by bats (plate 24)
TN9	Area of young trees and tall herb mosaic just outside survey area adjacent to H5 and H6. Planted area some 8m wide created as part of Persimmon Homes dormouse mitigation (NRW Licence) planting for St Edeyrns Village development (plate 24)
TN10	Area of non-native tall herb dominated by Himalayan balsam between W1 and W2
TN11	Old remnant hedge bank/defunct hedge dominated by tall herb and grass species. (plate 25)
TN12	Large ash just outside survey area with potential for use by bats
TN13	Remnant of old hedge line dominated by low bank with common grass and occasional tall herb species.

Plate 22 TN1 potential bat tree

Plate 23 TN7 old hedge bank potential reptiles

Plate 24 TN8 potential bat tree

Plate 25 TN11 mitigation planting

Plate 26 TN13 old hedge line F3

4.2 Data Search Results

4.2.1 Protected Sites

No part of the site is covered by a National or International designation for its conservation importance.

A total of seven (7) local wildlife sites (SINCs) are located within a 1.5km radius of the site with nearest located some 300m west of the site boundary.

4.2.2 Protected Species

A single record was found relating directly to the area within 100m the site boundary, the identification of a partially used badger (*Meles meles*) set.

Records for the fully protected hazel dormouse (*Muscardinus avellanarius*) were found relating to a number of suites within 300m of the survey a rea and with direct links to the hedgerows within the survey area. Dormice have been recorded within W1 and adjacent hedgerow during monitoring undertaken as part of the St Edeyrns Dormouse licence conditions.

Records show that a number of bat species are active within 500m of the site with common pipistrelle (*Pipistrellus pipistrellus*), soprano pipistrelle (*Pipistrellus pygmaeus*), noctule (*Nyctalus noctula*), daubentons (*Myotis daubentonii*), serotine (*Eptesicus serotinus*) and brown long eared (*Plecotus auritus*) all recorded within 500m of the site. No records for actual bat roosts were found within a 500m radius of the site. The nearest recorded bat roosts being some 650m from the survey area.

A record was also found confirming the presence of otter (*Lutra lutra*) within 700m of the site boundary.

Other WCA protected species recorded within a 1.5km radius include barn owl (*Tyto alba*), lapwing (*Vanellus vanellus*) and hobby (*Falco subbuteo*).

5 Ecological Evaluation

5.1 Habitats

For reporting purposes, the ecological value of a habitat/site is based upon the following criteria:

- Currently supports, or has the potential to support protected, nationally or locally scarce species
- Supports a species listed in the Environment (Wales) Act 2016 as a Species of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales (Interim List)
- Is listed in the Environment (Wales) Act 2016 as a Habitat of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales
- Habitat has a high intrinsic value supporting a diverse range of species
- Is a UK BAP Habitat
- Local BAP Habitats with an ecological interest or cover a significant area of the site
- Natural habitats located within built up and/or urban areas

Habitats recorded within the survey area and extent of each is shown in table 2:

Table 2 Showing Extent of Habitats Present (Ha)

Habitat	Phase I Nomenclature	Area Ha (approx.)
Arable	J1.1	6.610
Plantation Broadleaf Woodland	A1.1.2	0.4366
Broadleaf Woodland	A1.1.1	0.0911
Hedgerows Intact Hedgerows Defunct	J2.1 J2.2	1213m 187m
Scrub	A2	0.0996
Tall Herb	C3	1.1312
Watercourse	G2	462m

5.1.1 Arable

Arable fields form the dominant habitat type across the site. The main planted areas are a monoculture of crops which effectively dominate and shade out any less vigorous native plant species. The arable crop does provide potential feeding opportunities for birds and small mammals such as potentially harvest mouse although the cropping regime restricts the value of the site to such species.

Arable field margins can be ecologically valuable areas often containing plant communities that have disappeared or become increasingly rare as a result of agricultural intensification. As a result, cereal field margins are a UK Biodiversity Action Plan Habitat and are recognised as Habitats of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales. Such field margins can also provide opportunities for a very wide range of invertebrate species, mammals such as brown hare and opportunities for ground nesting birds.

The planting regime within the site boundary includes the planting of crops close to the field boundaries and in many sections immediately adjacent to the base of the hedgerows. As a result these margins are dominated by rank grasses, and common tall herbs such as willowherb, ragwort, bracken and occasional foxglove. No field margins containing diverse communities of any value remain. Occasional lengths of margin do exist where crops have failed or where machinery has flattened the crop but these areas have very limited value for wildlife.

As a result of the close planting, monoculture, and lack of field margins the three arable fields are considered to have a low ecological value at a site and local level.

5.1.2 Broadleaf Woodland

Broadleaf semi natural woodland is a Habitat of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales habitat and is recognised as having significant value to a wide range of invertebrate and small mammal species. All trees have a value to both feeding and nesting birds as well as a wide range of invertebrate species and potential provide roosting sites for bats. No woodland within the site is included within the Ancient Woodland Inventory 2011.

Aerial photographs of the site indicate that historically the woodland extent was greater than the present and has previously extended into a large part of the site before being felled. This is highlighted in the fact that the fields are still shown as mixed coniferous woodland within the Forestry Commissions National Forest Inventory of the UK. The current woodland remaining within the site appear to be plantation woodlands with a mix of broadleaf trees. The extent of each woodland block is small and all appear to be of similar age. A small number of mature individual trees are present within or in close proximity to these plantation blocks.

The woodlands taken as a single habitat has high ecological value and as an overall habitat can be considered the most ecologically valuable area of the site and is likely to support a very wide range of fauna and flora. Some areas of the woodland have features suitable for use by roosting bats although further work will be required in order to ascertain the full value of the woodlands, if any, to these specific protected species .

In addition, woodlands W1 and W2 contain dormouse boxes used to monitor the population of the species as a condition of the NRW licence granted to Persimmon homes relating to works at the St Edeyrns Village development. Monitoring has confirmed the presence of dormice within these woodland blocks.

In common with all broadleaf woodlands the woodlands have an intrinsically high ecological value at a site, local and district level.

5.1.3 Hedgerows

Hedgerows are recognised as being important wildlife habitats in their own right providing suitable habitats for over 47 species of conservation concern within the UK. Hedgerows are particularly recognised as being of importance to birds, butterflies, moths, bats, dormouse and both amphibian and reptile species. Hedgerows also form important wildlife corridors allowing species to disperse and move throughout the countryside to other favourable habitats.

In order to protect the hedgerow system and in acknowledgement of the importance of hedgerows to both wildlife and the general landscape the retention or removal of hedgerows is a material consideration during the planning process.

Hedgerows are classed as Priority Habitats within the UK Biodiversity Action Plan. In Wales hedgerows are listed as a Habitat of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales This places a duty on both government departments and local authorities to have regard for the conservation of hedgerow habitats.

A total of eleven (11) hedgerows form the site boundaries and divide the site into three distinct fields. All are species rich, un-managed with standard trees a common feature of a number of the hedges. All hedgerows are dominated by native species affording potential feeding opportunities for birds, invertebrates and small mammals. The hedges also provide potential nest sites for a wide range of bird species.

The ground flora of all the hedgerows is generally poor due to the effects of ploughing and close planting up to the hedgerow base of the arable crop although some narrow areas with a more diverse flora are present though scarce.

Records were found indicating that hazel dormouse are present within the general locality and all the hedgerows within the site have the potential to be used by dormouse and contain species often favoured by the species as a food source. *The presence of dormice has been confirmed by the ongoing monitoring of dormouse boxes set within hedgerow H5, H6 and H7 required as condition of the NRW lice for works undertaken by Persimmon Homes on the St Edeyrns Village development.*

In common with their listing as a UK BAP Habitat and a habitat of conservation concern and their potential for use by dormouse (confirmed in some) all of the hedgerows forming the site boundary and dividing individual fields are considered to be of a high ecological value at both a site, local and district level.

5.1.4 Watercourse

All open watercourses can be considered to be of high ecological value affording habitats for a very wide range of species both terrestrial and aquatic in addition to those with both aquatic and terrestrial life stages. The un-named watercourse forming a boundary between fields F1 and F2 is generally shallow and often dry with a mixed substrate of silt and gravel providing a variety of aquatic habitats. The banks associated with some sections of the watercourse and ditch also provide potential nesting areas for birds such as grey wagtail (*Motacilla cinerea*). The watercourse also provides potential commuting routes for a wide range of species linking the site to area of countryside outside the survey boundary including bats and other small mammals. In common with almost all open watercourses the ecological value of the watercourse is considered to be high at a site level and moderate at a local level.

5.1.5 Tall Herb

Stands of tall herbs are common around the woodland blocks towards the south west corner of the site and along some disturbed margins. These areas provide excellent feeding areas for a wide range of invertebrates, birds and small mammals as well as providing potential nesting areas for birds and cover for reptiles. The floristic diversity of the stands is not high and in some area the stands are dominated by non-native and invasive Himalayan balsam. However the presence of balsam does not preclude the value of these areas for invertebrates such as bees. Overall, the native tall herb stands are considered to be of high ecological value within the context of the site and a moderate value at a local level. However, the tall herb (Himalayan balsam) dominated stands within W1 and adjacent areas is having a detrimental affect on native ground and field layers and has a negative ecological value.

5.1.6 Scrub

Areas of scrub occur adjacent to hedgerows and along the top of defunct hedgerow banks. These afford areas suitable for feeding and nesting birds and refuge areas for small mammals and reptiles. The extent of the scrub is relatively small and therefore the habitat is considered to be of low to moderate value at a site level.

5.2 Fauna

5.2.1 Mammals

5.2.1.1 General

The arable fields, hedgerows, ditch and tall herb are all likely to support populations of common small mammals including wood mice (*Apodemus sylvaticus*), field vole (*Microtus agrestis*), bank vole (*Myodes glareolus*) and some shrew species (*Sorex sp*). The hedgerows also provide suitable habitats for hedgehog (*Erinaceus europaeus*) a UK BAP Priority species evidence of which was recorded during the walkover assessment. Evidence of the use of the site by fox (*Vulpes vulpes*) and mole (*Talpa europaea*) was also recorded during the survey.

5.2.1.2 Badger

No obvious activity attributable to badger was recorded during the phase I survey. A number of mammal runs were recorded towards the south and western side of the site leading into the dense tall herb and woodland areas although none were conclusively attributable to badger. The data search results show that badger are known to be present within the general area around the site and a single record was found relating to badger within the survey boundary. As a result further survey work will be required in order to fully ascertain the use being made of the site, if any, by badger.

5.2.1.3 Bats

No buildings are located within the site boundary suitable for use by roosting bats. The data search results show that a number of bat species are known to be present within 500m of the site. A number of mature trees are located within the hedgerow system and woodland areas which on initial inspection contain potential roosting features suitable for use by bats. These trees have yet to be formerly assessed to Bat Conservation Trust Guidelines as to their potential for use by bats and further work is required to fully assess the value, if any, of the trees to bats. The lanky un-managed hedgerows and ditch have the potential to be used as a commuting and/or feeding areas for bats. Further work in the form of an activity survey along the hedgerow system will be required to ascertain the importance, if any, of the site to bat species.

5.2.1.4 Dormouse

The hedgerow system and woodland affords potential habitat for the hazel dormouse (*Muscardinus avellanarius*). Data search results show that dormouse are have been recorded within a 280m radius of the survey area. The hedgerow system within the site has direct unbroken links with sites for which these historic records apply. Hedgerows H5, H6 and H7 and woodlands W1/W2 form part of an ongoing monitoring programme for dormice being undertaken by Persimmon Homes as a Condition of licences granted by NRW relating to the St Edeyrns Village development. This monitoring programme has confirmed the presence of dormice within W1 and hedgerows H5, H6 and H7. Dormice are afforded full protection under

the Wildlife and Countryside Act 1981. Due to the very close proximity of known dormouse records it can be assumed that dormouse are highly likely to be present within all hedgerows within and adjacent to the site boundary. Depending on the proposals for the site such as the loss and retention of hedgerows it is probable that a licence to disturb a protected species (Dormouse) from Natural Resources Wales will be required and an appropriate mitigation method statement and strategy produced prior to any works on the hedgerow system being undertaken.

5.3 Reptiles

The arable fields have limited potential for use by reptiles. The nature of the cropping regime is such that it is subject to regular cutting and disturbance and unsuitable for colonisation by reptile species. The hedgerows do afford potential refuge, basking and hunting areas for common reptiles such as slow worm. The tall herb and woodland area also provide potential refuge and feeding areas for reptiles. The overall value of the site to reptiles is perceived to be moderate to low. Further survey work will be required in order to ascertain the use being made of suitable habitats within the site by reptiles.

5.4 Amphibian

The wet ditch/watercourse associated is likely to be used periodically by amphibian species in particular frogs and toads and where standing water accumulates is suitable for use as a breeding site by these species. No other still water bodies are located within the site boundary. The terrestrial habitats including the adjacent tall herb, woodland and hedgerows all provide potential habitat for feeding and refuge areas for adult toads and frogs.

The absence of suitable water bodies within the site or within a 500m radius of the site means that the site is highly unlikely to be of value to rare amphibian species such as great crested newt (*Triturus cristatus*).

Therefore the overall value of the site to amphibian species is considered low with the wet ditch/stream being of moderate value at a site level.

5.4 Birds

The hedgerows, scrub and woodland afford excellent feeding opportunities for resident, summer migrant and winter migrant species. The site also offers potential nest sites for a wide range of bird species including those recorded during the walkover survey such as blackbird (*Turdus merula*), great tit (*Parus major*), long tailed tit (*Aegithalos caudatus*), blue tit (*Parus caeruleus*), willow warbler (*Phylloscopus trochilus*), chaffinch (*Fringilla coelebs*), wren (*Troglodytes troglodytes*), robin (*Erithacus rubecula*), song thrush (*Turdus philomelos*), wood pigeon (*Columba palumbus*), wren (*Troglodytes troglodytes*), bullfinch (*Pyrrhula pyrrhula*), linnet (*Carduelis cannabina*), and carrion crow.

The arable fields are likely to afford feeding areas for species such as wood pigeon, pheasant and red legged partridge as well as providing feeding opportunities for small finches following harvesting of the crop. Warblers are also likely to be attracted to the arable fields as nesting areas.

The stream corridor affords opportunities for species such as grey wagtail (*Motacilla cinerea*).

The nature of the site is such that it is unlikely that any WCA schedule 1 species breed within the site boundary although the open fields do afford potential feeding areas for owl species including potentially barn own (*Tyto alba*) records for which were found for sites within 1.5km.

A number of the birds observed during the walkover survey and those migrants yet to arrive are likely to include some species of Principle Importance for maintaining and enhancing Biodiversity in relation to Wales.

5.5 Invertebrates

The hedgerows and trees all have an intrinsic value to a very wide range of common invertebrate species affording potential feeding, and breeding areas. The structural diversity of these habitats afford excellent habitats for common invertebrate species. The arable fields are unlikely to support rare or uncommon species and depending upon the management regime may be unsuitable for most invertebrates due to chemical pest control. Field margins are uncommon and provide only limited potential for invertebrates although in some areas floristic diversity does increase offering some potential nectar gathering opportunities for bees and butterfly species. The hedge banks offer potential habitats for beetle species.

The habitats present would suggest that the site is unlikely to support protected, rare or endangered invertebrate species. Overall, the site is considered to be of moderate value to invertebrates at a site and local level and low at a district level. The mature trees and hedgerows are considered to be of high ecological value at a site and local level and moderate at a county level.

6 Conclusions

The site is not covered by any National or International designation with regard to its importance for wildlife conservation.

No part of the site is covered by a local designation for its value or importance to wildlife, and no site of interest to nature conservation (SINC) abuts any part of the site. A total of seven (7) SINCS are located within a 1.5-kilometre radius of the site and these include grasslands, woodland and water habitats.

The data search results show that protected species have been recorded within and in close proximity to the site. Dormouse have been confirmed confirmed as present within the woodlands W1/W2 and hedgerows along the western and south western boundary during ongoing monitoring as apart of the NRW licence conditions relating to the St Edeyrns development (Persimmon Homes). Due to the nature of the hedgerows present it can be assumed that the species is also present within hedgerows across the survey area.

The presence of dormouse means that a licence will be required as issued by Natural Resources Wales for the disturbance of a European protected species. This will be required before any works on the hedgerow system can be undertaken. A supporting mitigation strategy will be required outlining the proposed methods by which dormouse and dormouse habitats are protected during and after the development of the site.

Extensive young broadleaf planting has been completed adjacent to hedgerows H5 and H6 (TN9). This lies immediately outside the survey and has direct connectivity to habitats within the site. This strategic planting forms part of the dormouse habitat loss mitigation strategy for the NRW licensed works within the St Edeyrns Village development.

The data search results indicate that badger are present within the general locality and therefore a survey of the site and surrounding area is required in order to identify the use being made of the site by badger and to ensure that badger are not negatively impacted on by any future use of the site and that all appropriate licences and consents have been obtained.

The hedgerow system has been identified as being of high ecological value. The hedgerow system appears to be of some age, with evidence of historic management and the remnants of banks visible along some sections. Most of the hedgerows have been identified as species rich and have links to the wider countryside providing potentially important wildlife corridors and probable dormouse habitat. As such the hedgerows are considered to be one of the most ecologically valuable of the habitats and features present within the survey area. Consideration should be given to any future access routes into the site and where possible should be designed to avoid the most ecologically important sections of hedgerow and assist in retaining as far as possible the hedgerow system

The mature trees located within the hedgerow system and some within the broadleaf woodland have been provisionally identified as having some potential for use by roosting bats. Further work will be required in order to ascertain the importance , if any, of the trees for roosting bats No buildings are present within the site and therefore no building bat roosts are present. The site does afford potential foraging areas for bats while the hedgerows afford potential commuting routes. Activity surveys of the site will be required to ascertain the importance, if any, of the site to bat species and identify any roosting sites.

The tall herb and hedgerow system provides potential habitat suitable for reptiles and terrestrial life stages of common amphibian species. Further survey work will be required to ascertain areas of the site, if any, supporting reptile populations.

The loss of hedgerows, trees and other habitats will lead to the loss of feeding and nesting areas for birds. Nesting birds are protected by law. Any clearance work must be undertaken outside the bird breeding season March-August or ecological advice sought and areas to be removed checked for nesting birds by an ecologist no earlier than 48 hours before removal works commence. If nesting birds are found, then works must stop and no works on that area of hedgerow/habitat can be undertaken until all chicks have fledged and the nest abandoned. No habitats suitable for use as a breeding site by any WCA Schedule I bird species is present within the site. The site does afford potential feeding areas for species such as barn owl.

A number of SINCS are located within 1.5km. It is concluded that the distance between the proposed development site and the nearest SINC means that increased activities within these areas as a result of any development are likely to be very low and therefore the features of these sites are unlikely to be significantly affected by any development.

The nature of the habitats present within the site are such that the possibility that some protected species including dormouse, bat species and badger are present within the site is high or confirmed. Species specific survey work will be required before a full ecological evaluation of the site in relation to such species can be fully ascertained.

7 Recommendations

The extended phase I survey identified a number of features and habitats present that may support protected, rare or uncommon species or habitats and species that require consideration as part of any future planning application. In order that a full understanding of the ecological importance of the site can be fully understood further species specific survey work will be required along with an assessment of the importance of the hedgerow system.

Details of required surveys and optimal survey period are given in table 2 below.

Table 2 Survey Requirements Bryn Began Farm and Optimal Survey period and Constraints

Survey Required	Reason	Timing
Bats- An assessment of all standard trees should be undertaken to identify any features suitable for use by bats and identify any such trees with a high potential for use by roosting bats. Following the assessments all trees with high potential for bats should be surveyed to Bat Conservation Trust Guidelines	To ensure that any licences and permissions required can be obtained prior to any felling or tree works commence and all legal obligations with regard to bats are met	May-Sept Inclusive
Bats- The woodlands & hedgerows have the potential to be used by commuting and foraging bats. It is recommended that a bat activity survey is undertaken across the site.	This will allow for an understanding as to the importance of individual features and areas of the site with regard to bats and allow for appropriate landscaping, and lighting design to protect any important areas of bat activity.	May-Sept Inclusive
Reptiles- Habitats suitable for a number of different reptile species have been identified within the survey boundary. It is recommended that a survey of the site is undertaken using a recognised methodology in order to establish what use is being made of the site by reptile.	This will allow for an appropriate methodology to be produced where required, to ensure the protection of reptiles prior to, during and after construction.	April-October (weather dependant survey may be limited in August if temperatures are very high)
Dormouse-The hedgerows, scrub and woodland have been identified as being suitable for the hazel dormouse. The hazel dormouse is a fully protected species. Known to be present within site boundary	Assumed presence across the site licence required from NRW before any hedgerow works are undertaken. Appropriate mitigation strategy required	
Badger- It is. recommended that a survey of the site and any suitable area within 100m of the site boundary is undertaken to establish the use, if any, being made of the site by badger and the potential for the disturbance of any badger sets or runs immediately outside the survey boundary	Badger and badger sets are protected and can be disturbed and damaged by construction and pre construction activities. Identification of such sets and runs will that badger are protected and appropriate NRW licences obtained to allow development activities to commence	All year

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APPENDIX I

AERIAL VIEW SHOWING SITE LOCATION

Aerial view 1 showing site location and survey boundary (Image Google Earth 2021)

Appendix II

Map showing Habitats Present and Targeted Ecological Features

TerrAqua Ecological Services Ltd

Bryn Began Farm

for Persimmo Homes East Wales

Preliminary Ecological Assessment

SCALE : 1 : 1250 @ A2	DATE : 13/08/2021	N
MAP FILENAME : TQ/Pers. Beg. Farm PEA. 08/2021 v1		

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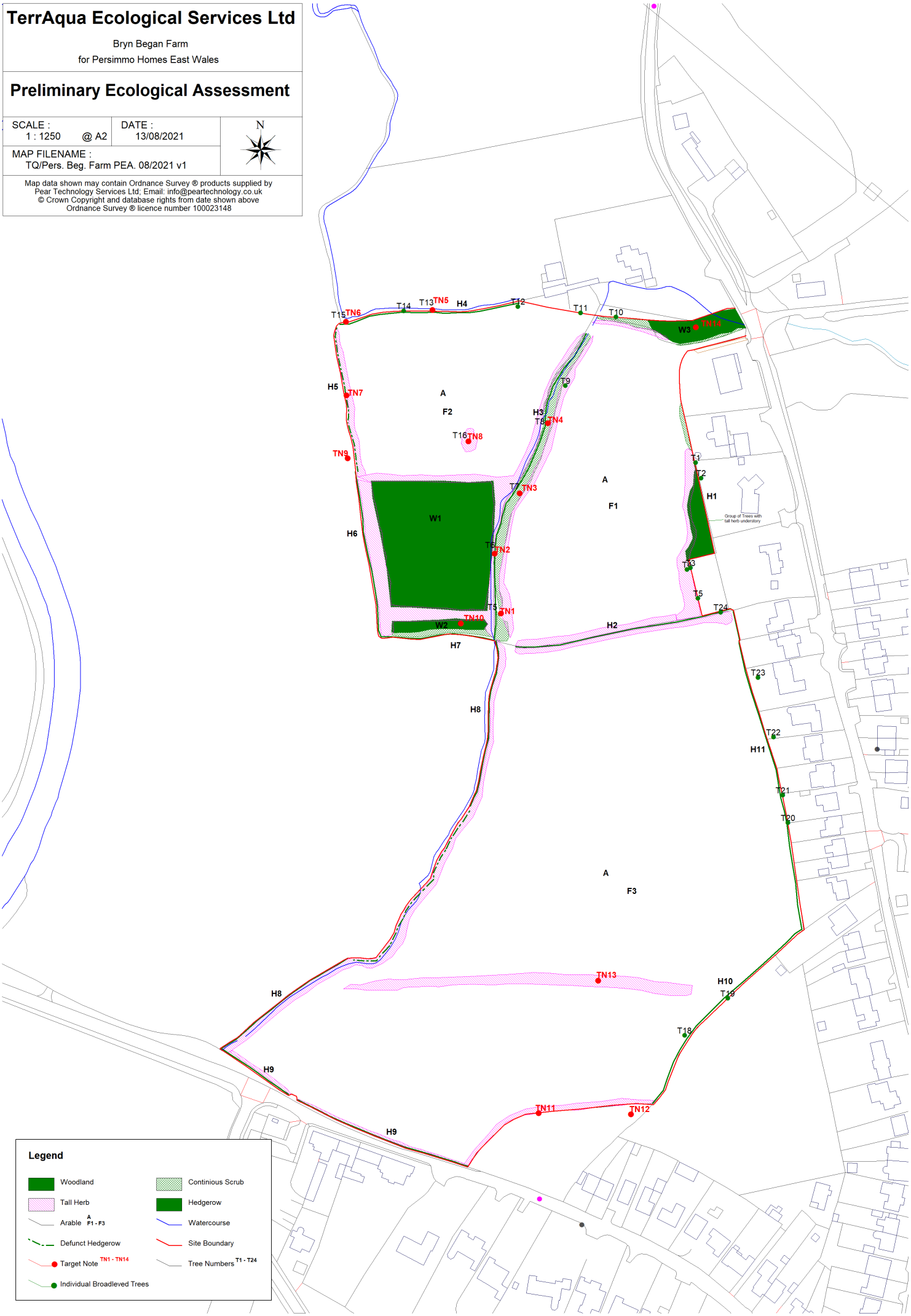

APPENDIX III

Data Search Results (SEWBReC Data) supplied through Aderyn

Adenyn

LPAC Wales: Biodiversity Information & Reporting Database

CONFIRM Reference: Brun Bisgen

Date: 10-Aug-2021 09:45

Date: 10-Aug-2021 09:45

Search Results Summary

Previous Protocols Used: Species Search, Species Search, Species Search,

6103801	1,100	Hirundo rustica (Barn Swallow)	2 records, between 1987 and 1988	1, Late (Breeding confirmed), 1	Barn, LBNP (BN), CLIN (CN), FCN (FCN), WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN), GWCN(GWCN), UNRAN(WBPN)	Cardiff Council - Cardiff Biodiversity Records; Mapmate Data	Unassessed
6103801	1,110	Hirundo rustica (Barn Swallow)	2 records, between 1987 and 1988	1, Late (Breeding confirmed), 1	Barn, LBNP (BN), CLIN (CN), FCN (FCN), WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Cardiff Council - Cardiff Biodiversity Records; MapMate Data	Unassessed
6103801	1,110	Delichon urbicum (House Martin)	02/05/1988	4	Barn, LBNP (BN), CLIN (CN), FCN (FCN), WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Motacilla cinerea (Grey Wagtail)	2 records, between 1987 and 1988	1, Pre-breeding (Breeding confirmed), 1	Barn, LBNP (BN), CLIN (CN), FCN (FCN), WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Anthus trivialis (Tree Pipit)	2 records, between 1987 and 1988	20, 1 (Breeding confirmed)	WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Sylvia atricapilla (Blackcap)	Summer 1982	1 (Breeding confirmed)	WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Phylloscopus trochilus (Willow Warbler)	Summer 1982	1 (Breeding confirmed)	WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Chamaepetes unicolor (Andean Guan)	Breeding plant	1949	FCN (Wales) - FE, FEDW, LBNP, CN, FCN, FCN, VCG, WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Sylvia borin (Garden Warbler)	Spring 1983		Barn, LBNP (BN), CLIN (CN), VCG, WBNA(WBPN), WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Rhyticeros plicatus (Blyth's Hornbill)	07/08/2002	6 (Adult)	Barn, LBNP (BN), CLIN (CN), FLU (SMP), FCN (FCN), VCG, WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Mapmate Data (1x5)	Verified correct
6103801	1,110	Hirundo rustica (Swallow)	07/08/2002	30 (Adult)	Barn, LBNP (BN), CLIN (CN), GWP (FCN), VCG, WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Mapmate Data (1x5)	Verified correct
6103801	1,110	Apus apus (Swift)	07/08/2002	10 (Adult)	Barn, LBNP (BN), FCN (FCN), VCG, WBNA(WBPN), WBNA(WBPN)	CEN (CEN), GWP (WG), CON (CN), FLU (SMP), LBNP (NN), FCN (FCN), WBNA(WBPN)	Mapmate Data (1x5)	Verified correct
6103801	1,110	Garrulus glandarius (Eurasian Jay)	Insect - beetle (Coleoptera)	2 records, both from 1984	HDBG (LN) - NB	Mitchell (Cardiff) Welsh Parliament and their Sapmark Incentivisers (just), Welsh Hymenoptera Database (WE)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Dorcatoma flavicornis (Dorcatoma flavicornis)	Insect - beetle (Coleoptera)	2 records, both from 1984	1, Present (Dead Estimate)	HDBG (LN) - NB	Mitchell (Cardiff) Welsh Parliament and their Sapmark Incentivisers (just), Welsh Hymenoptera Database (WE)	Unassessed
6103801	1,110	Ciphocaliidae (Ciphocaliidae)	Insect - beetle (Coleoptera)	2 records, both from 1984	HDBG (LN) - NL	Mitchell (Cardiff) Welsh Parliament and their Sapmark Incentivisers (just), Welsh Hymenoptera Database (WE)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103801	1,110	Cryptophagus dorsalis (Cryptophagus dorsalis)	Insect - beetle (Coleoptera)	2 records, both from 1984	HDBG (LN) - NL	Mitchell (Cardiff) Welsh Parliament and their Sapmark Incentivisers (just), Welsh Hymenoptera Database (WE)	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103802	200	Cerastes cerastes (Horned Viper)	Insect - lepidoptera (Lepidoptera)	2 records, both from 1984	1	LBXNP (WPB)	Mapmate Data (New)	Unassessed
6103802	200	Bombus cryptarum (Mountain Bumble Bee)	Breeding plant	04/05/1980	1	LBXNP(WBNA), LBCSG, LRS, UKBT1, LR, LBCSG, LR	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103802	200	Calyptorhynchus magnificus (Red-tailed Black Cockatoo)	Breeding plant	21/05/2001	1	LBXNP (CN), WPB, LBBS, LBXNP(WBNA)	Mapmate Data (New)	Unassessed
6103804	275	Aphodius prodromus (Common Feather moss)	moss	2 records, both from 2008	1 (EAFCR), 4 (EAFCR)	FCER1 (Wales) - LC, LBNP (CON)	Burgess Ecology	Unassessed
6103804	275	Hypnum cupressiforme (Blackening Fleecing)	Breeding plant	21/07/2000	1	LBNP (CON), WPB, LBBS, LBXNP(WBNA)	Burgess Ecology	Unassessed
6103802	311	Schoenus nigricans (Black Bulrush) Pollinia	moss	22/11/2010	Present	FCER1 (Wales) - LC, LBNP (CON), LBCSG, LSS, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBNNRC	Mapmate Data (New)	Unassessed
6103802	311	Dicranella rheostoma (Common Feather moss)	moss	22/11/2010	Present	FCER1 (Wales) - LC, LBNP (CON)	Mapmate Data (New)	Unassessed
6103805	378	Ephemerum sessilifolium (Ephemerum minutissimum)	moss	06/11/2016	Present	FCER1 (Wales) - LC, LBNP (CON), LBCSG	Mapmate Data (New)	Unassessed
6103805	434	Anthoceros agrestis (Field Hornwort)	Surface	11/11/2016	Present	FCER1 (Wales) - LC, LBNP (CON), LBCSG, LBCSG, LBCSG, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBCSG, LR, LBNNRC	Mapmate Data (New)	Unassessed
6103805	437	Amblystegium serpens (Common Feather moss)	moss	2 records, both from 2009	Occ (EAFCR), Occ (EAFCR)	FCER1 (Wales) - LC, LBNP (CON)	Burgess Ecology	Unassessed
6103816	235	Hypnum cupressiforme (Green Weeds)	Breeding plant	2 records, between 2005 and 2006	1	LBNP (CON), WPB	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103802	235	Ilex aquifolium (Shining Ivy)	Breeding plant	21/05/2001	Occasional	LBXNP(WBNA), LBCSG1, LS	Mapmate Data (New)	Unassessed
6103816	238	Hypnum cupressiforme (Cypressus Weeds)	Breeding plant	25/11/2006	1	LBNP (CON), WPB	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103816	238	Oxyrrhynchium pulchrum (Pand Weeds)	Breeding plant	2 records, between 2006 and 2008	1	LBNP (CON), WPB	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103816	238	Hypnum cupressiforme (Green Hoof)	Breeding plant	2 records, both from 2008	1	LBNP (CON), WPB	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103816	238	Hypnum cupressiforme (Blackening Fleecing)	Breeding plant	2 records, between 2006 and 2008	1	LBNP (CON), WPB	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103816	238	Hypnum cupressiforme (Green Hoof)	Breeding plant	29/10/2006	1	LBNP (CON), WPB	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103816	238	Hypnum cupressiforme var. cupressiforme (Green Hoof)	Breeding plant	02/11/2006	1	LBNP (CON), WPB	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103816	238	Hypnum cupressiforme (Blackening Fleecing)	Breeding plant	02/11/2006	1	LBNP (CON), WPB	Cardiff Council - Cardiff Biodiversity Records	Unassessed
6103802	239	Hypnum cupressiforme var. resupinatum (Green Hoof)	Breeding plant	2 records, between 2010 and 2012	Present, Present	FCER1 (Wales) - LC, LBNP (CON)	Mapmate Data (New)	Verified correct
6103819	849	Amblystegium serpens (Common Feather moss)	moss	2 records, between 2010 and 2012	Present, Present	FCER1 (Wales) - LC, LBNP (CON)	Mapmate Data (New)	Verified correct
6103819	849	Campylopus flexuosus (Flexuous Agnon)	Insect - beetle (Coleoptera)	25/06/2012	1	LBNP (CON), WPB, LBBS, LBXNP(WBNA)	Mapmate Data (New)	Unassessed
6103805	850	Amblystegium serpens (Common Feather moss)	moss	11/08/2006	1	FCER1 (Wales) - LC, LBNP (CON)	Cardiff Council - Greenkeeper Survey 2006	Unassessed
6103802	918	Cynodontium fallacinum (Long-winged Curve head)	Insect - silverfish	14/08/1988	rare	LBNP(WBNA), LBNP(WBNA), LBCAS, LS, LBCSG, LS, LBCSG, LS, LBCSG, LS	Burgess Ecology	Unassessed
6103802	918	Amblystegium serpens (Common Feather moss)	moss	11/08/2006	A (EAFCR)	FCER1 (Wales) - LC, LBNP (CON)	Burgess Ecology	Unassessed
6103802	920	Agrimonia procera (Fragrant Agrimony)	Breeding plant	1920 - 1989	1	LBNP (BN), WPB, LBNP(WBNA), LBCAS, LBCAS, LBCAS, LS, LBCAS, LS, LBCAS, LS, LBCAS, LS, LBCSG, LS, LBCSG, LS, LBCSG

Appendix IV

Table Showing Potential Habitat Loss/Gains based on current Block Plan

Habitat	Phase I Nomenclature	Existing Area Ha (approx.)	Potential Loss Ha (approx.)	Potential Biodiversity Gain Ha
Arable	J1.1	6.610	5.7	0.91Ha of Potential new habitat creation including creation wildflower meadow, and woodland planting within arable field F2. Potential for pond creation
Plantation Broadleaf Woodland	A1.1.2	0.4366	0	
Broadleaf Woodland	A1.1.1	0.0911	0	
Hedgerows Intact Hedgerows Defunct	J2.1 J2.2	1213m 187m	135m	
Scrub	A2	0.0996	0.014	
Tall Herb	C3	1.1312	0.254	
Watercourse	G2	462m	0	

- **The above calculation are preliminary figures based on Persimmon Homes Block layout Drawing- Land at Bridge Road, Old St Mellons, Cardiff Drawing No BP01 and are subject to change and refinement as planning works progress and should be taken as indicative.**

N

- SITE BOUNDARY (20.46 ACRES / 8.9 ACRES NET DEV AREA / 135 UNITS)
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Land at Bridge Road
Old St Mellons
Cardiff

Drawing Title
Block plan

Drawing No
BP01

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East Wales

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Appendix 6: Land at Bridge Road, Cardiff – Flooding Technical Note

Land at Bridge Road, Old St Mellons

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CONTENTS

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2.0 DEVELOPMENT DESCRIPTION

3.0 FLOOD RISK

4.0 PROPOSED DRAINAGE STRATEGY

5.0 CONCLUSION

APPENDICES

APPENDIX A Site Location Plan

APPENDIX B Proposed Site Plan-Block Plan

APPENDIX C Constraint and Opportunities Plan

APPENDIX D NRW Flood maps/DAM/DRAFT Flood Map for Planning

Issue	Prepared by	Checked by	NOTES	Date
-	SPS	LF	For clients review	Aug 21

1.0 Introduction

Think Urban design has been instructed to prepare a Technical Note in support of a Candidate Site (CS) Submission to Cardiff County Council. The CS is in respect of a proposed residential development at Bridge Road, Cardiff, CF3 6XJ.

This report has been prepared on behalf of Persimmon Homes East Wales and is intended to support a Candidate Site Stage 1 submission for a residential development as shown in **Appendix A**.

The purpose of this report is to assess the potential flood risk to the site, to describe the existing site and how the development will affect or will be affected by current and future flood risk.

A site block plan of the proposals is included in **Appendix B**. The postcode is CF3 6XJ with a national grid reference of ST227825.

2.0 Development Description

The proposed development includes residential development with public open space. All vehicular traffic will arrive from and leave the proposed development via the west and through the current Persimmon Homes St Edeyrn's development. The proposed site plan is included in **Appendix A.**

3.0 Flood Risk

Potential sources of flooding that require investigation are identified within the table below.

Flood Source	Presence	Notes
Fluvial (River)	✓	The River Rhymney is approx. 200m to the west of the site. Site within DAM zone A.
Tidal (Sea)	x	The Site is in DAM zone A.
Canals	x	N/A
Groundwater	x	No evidence on site
Sewers	x	No evidence of flooding
Reservoirs	x	N/A
Pluvial (surface water)	x	Negligible considering topography site location
Development Drainage	x	Not considered within this report

Fluvial

According to the indicative online flood map the development is predominately located within as Flood Zone A and it is outside any flood zones. The main access and egress is within flood zone/DAM zone C2. Any residential development is classified as Highly Vulnerable under TAN15. All dwellings will be located in a flood free area and entirely within DAM zone A. The main access and egress to site will be within DAM zone C2, however the site benefits from a secondary access as proposed and demonstrated within the Constraints and opportunities plan **Appendix C** which is entirely flood free and within DAM zone A. This secondary access and egress will be for emergency use and operated in extreme flooding conditions which may impact the main access. Furthermore, the main access could be proven to be acceptable for use during these extreme flooding conditions, if proven to be inline with the requirements of NRW's hazards data. This will consider flood depth and velocity's which may be proven to be acceptable for use for emergency vehicles.

The detailed view of the flood map confirms the flood zone as shown on the DAM, refer to **Figure 1**. This is also shown in ***APPENDIX D.***

The TAN 15 Development Advice Map (DAM) confirms the entirety of the site is located within Zone A (refer to Figure 1 below) is described as 'Considered to be at little or no risk of fluvial or tidal/coastal flooding'

This type of development is defined in TAN 15 as highly vulnerable development. Highly vulnerable developments are not subject to the justification test and that there is no need to consider flooding further. Therefore, the proposals are considered to be suitable for the area.

The acceptability criteria set out within Tan 15 are as follows:

- No increase in flooding elsewhere

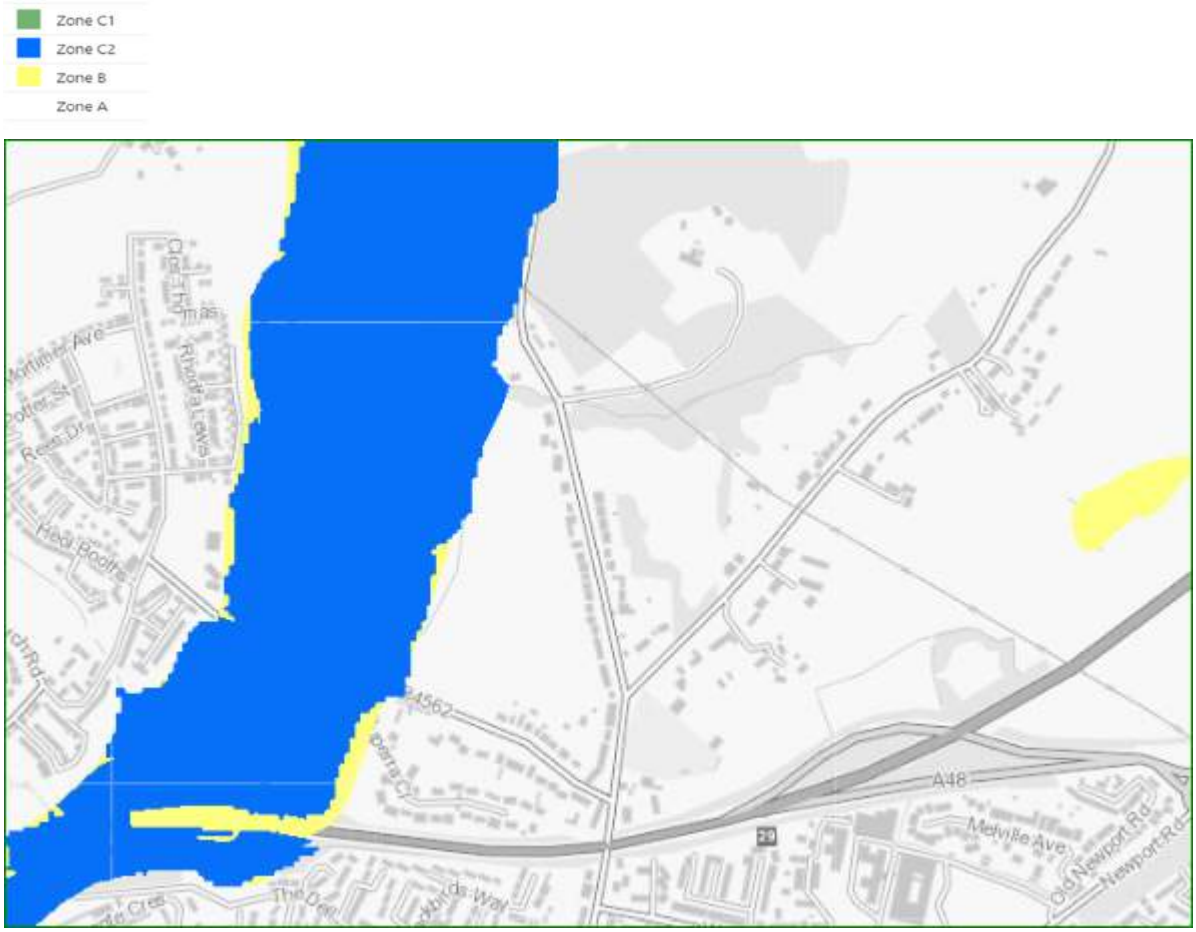


Figure 1 *–TAN 15 Development Advice Map (DAM)*

The development is located approximately 200 east of the River Rhymney.

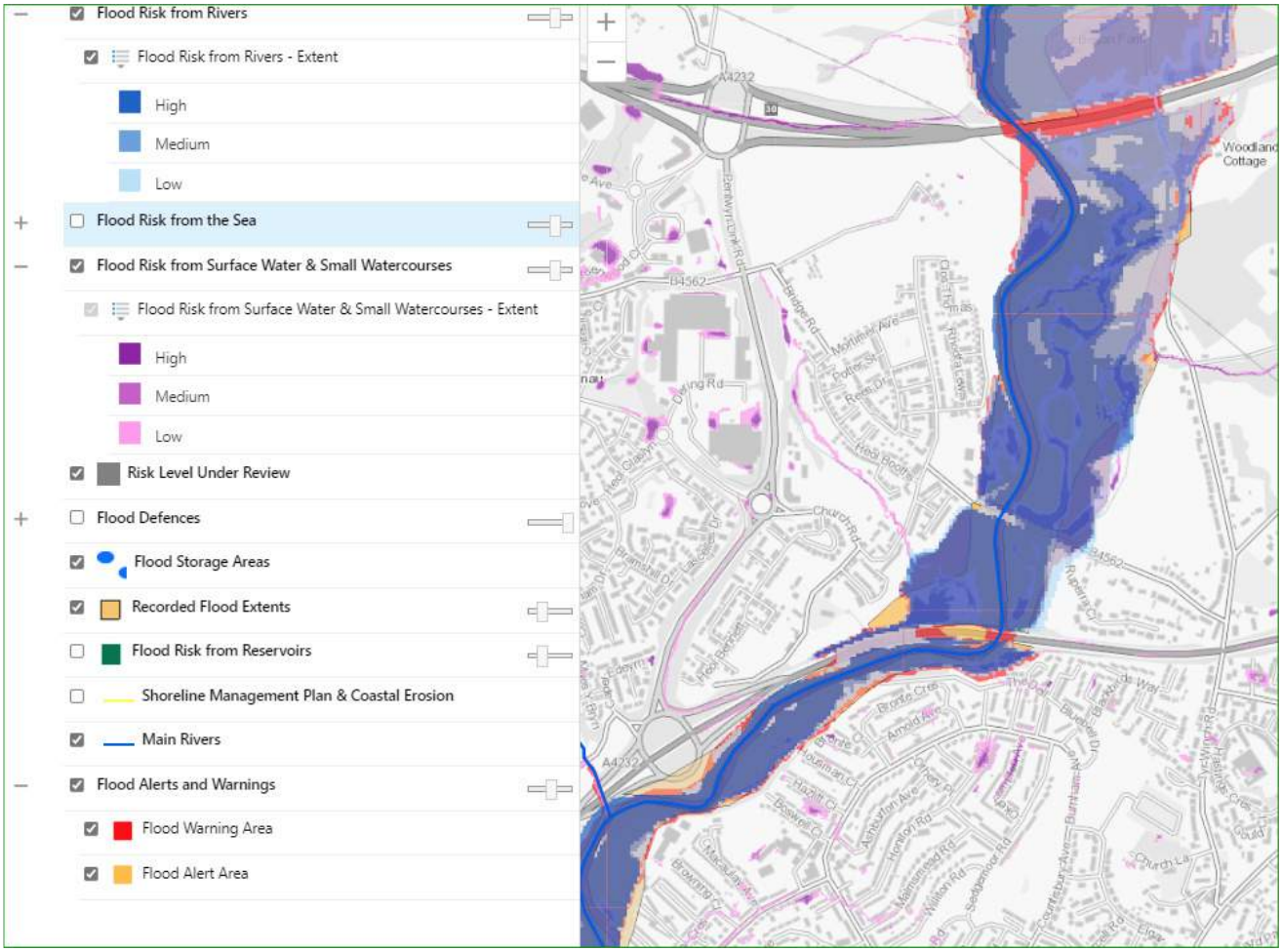


Figure 2 *– Indicative Online Flood Map*

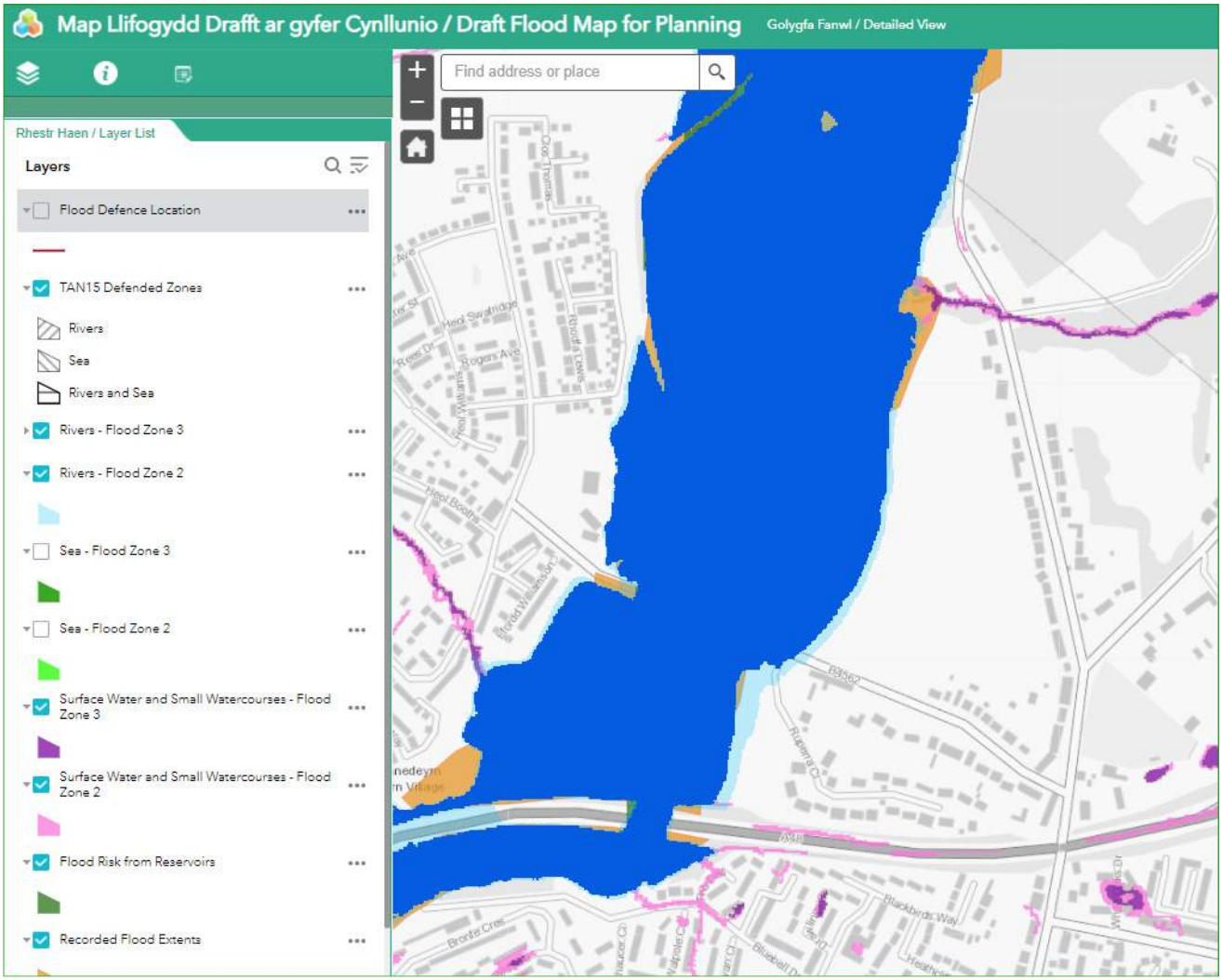


Figure 2a *– Indicative Online Flood Map*

The development at this location satisfies the requirement of TAN 15 for the development within Zone A (refer to Figure 2 and 2a above). There is no risk of flooding from fluvial sources. WE also included the mapping information which currently is in draft format. As it can been seen comparing the two flood maps there is no significant difference if any at all.

Groundwater

The existing development is 100% permeable, development proposals will increase permeable areas and therefore will increase surface water run-off rates. However, this will be dealt as part of the drainage strategy which will be in line with the requirements as set out by *The Flood and Water Management Act 2010 (Schedule 3)*. The online development advice map confirms the development is outside an area of groundwater flooding and considered as an area which doesn't have a history of flooding in the past from groundwater. Surface water from the development will be managed onsite via a sufficient drainage scheme. This will require the approval of the SuDS Approval Body (SAB) of Cardiff County Council. This is not being considered at this stage and as part of this instruction. It is considered that the risk of flooding from groundwater is considered negligible.

Pluvial

According to the online indicative flood map, the site is located in an area which is at no risk of surface water flooding. Refer to Figure 2 above.

4.0 Proposed Drainage Strategy

Foul Drainage

It is proposed that foul water from the development will discharge to the existing DCWW sewers. This will require approval from DCWW and a pre-development enquiry will be issued to confirm there is adequate capacity within the existing sewer to accommodate any potential additional foul flows from the proposed development. However, it should be noted that only the foul flows will be connected into the existing combined sewer or alternatively a foul only connection should be made or maintained.

As above, confirmation from DCWW to determine that sufficient capacity exists for the discharge of foul flows from the development to their existing foul system is required and will be provided in due course.

Surface Water Drainage

Surface water will be discharge in accordance the Flood and Water Management Act 2010 (Schedule 3) and the hierarchy of discharge options to deal with surface water drainage.

No soakaway testing has been undertaken at the time of writing this report.

Approvals will need to be sought after by the local authority and their SAB department in addition to the DCWW.

The existing site is considered a greenfield site and it is proposed for the same discharge rate to be maintained.

Sustainable Drainage Systems Standards

This development will be delivered in accordance with the Sustainable urban drainage Approval Body (SAB). As of January 2019, The Flood and Water Management Act 2010 (Schedule 3) came into effect. New development comprising more than one dwelling or an area exceeding 100 metres squared within Wales will now have to implement Sustainable Drainage Systems (SuDS) features to comply with national standards.

Developments within Wales meeting the criteria described above, require approval from the SAB and will need to demonstrate implementation of SuDS measures, maintenance and funding to ensure efficient operation for its design life. Justification where necessary should be provided where sustainable features are not feasible.

The principles set out within the Sustainable Drainage Systems Standards for Wales 2018 are as follows:

SuDS schemes should aim to:

- *manage water on or close to the surface and as close to the source of the runoff as possible;*
- *treat rainfall as a valuable natural resource;*
- *ensure pollution is prevented at source, rather than relying on the drainage system to treat or intercept it;*
- *manage rainfall to help protect people from increased flood risk, and the environment from morphological and associated ecological damage resulting from changes in flow rates, patterns and sediment movement caused by the development;*
- *take account of likely future pressures on flood risk, the environment and water resources such as climate change and urban creep;*
- *use the SuDS Management Train, using drainage components in series across a site to achieve a robust surface water management system (rather than using a single "end of pipe" feature, such as a pond, to serve the whole development);*
- *maximise the delivery of benefits for amenity and biodiversity;*
- *seek to make the best use of available land through multifunctional usage of public spaces and the public realm;*
- *perform safely, reliably and effectively over the design life of the development*
- *taking into account the need for reasonable levels of maintenance;*
- *avoid the need for pumping where possible; and*
- *be affordable, taking into account both construction and long-term maintenance costs and the additional environmental and social benefits afforded by the system.*

In addition, applications should be accompanied by proposals for a maintenance plan and the means of funding for the scheme for its design life.

Applicants seeking SAB Approval must demonstrate how they have complied with these principles or provide justification for any departure.

We have been advised that this development will not require a SAB.

Pollution Control and Water Quality

In keeping with S3 of the Sustainable Drainage Systems Standards for Wales 2018 and the principles above, consideration must be given to pollution control of surface water run-off. This will be considered further at detailed design stage.

It is proposed that the SuDS train will be implemented at the site to prevent. Potential measures include planting, permeable paving and oil interceptors in areas to help improve quality of surface water effluent.

The first 5mm of rainfall carries most of the pollution, such as silt and oil from road runoff, and is often known as the 'first flush'. The proposed rain garden system has been designed to capture and treat the 'first flush' runoff. Surface water from the site will receive adequate treatment before final discharging to the combined sewers. Surface water from roofed areas will first discharge into rain garden and then into pervious paving for attenuation before reaching the culvert.

Surface water from internal roads and car perking areas which are at higher risk of pollution will receive initial treatment from rain garden and secondary treatment from permeable paving areas.

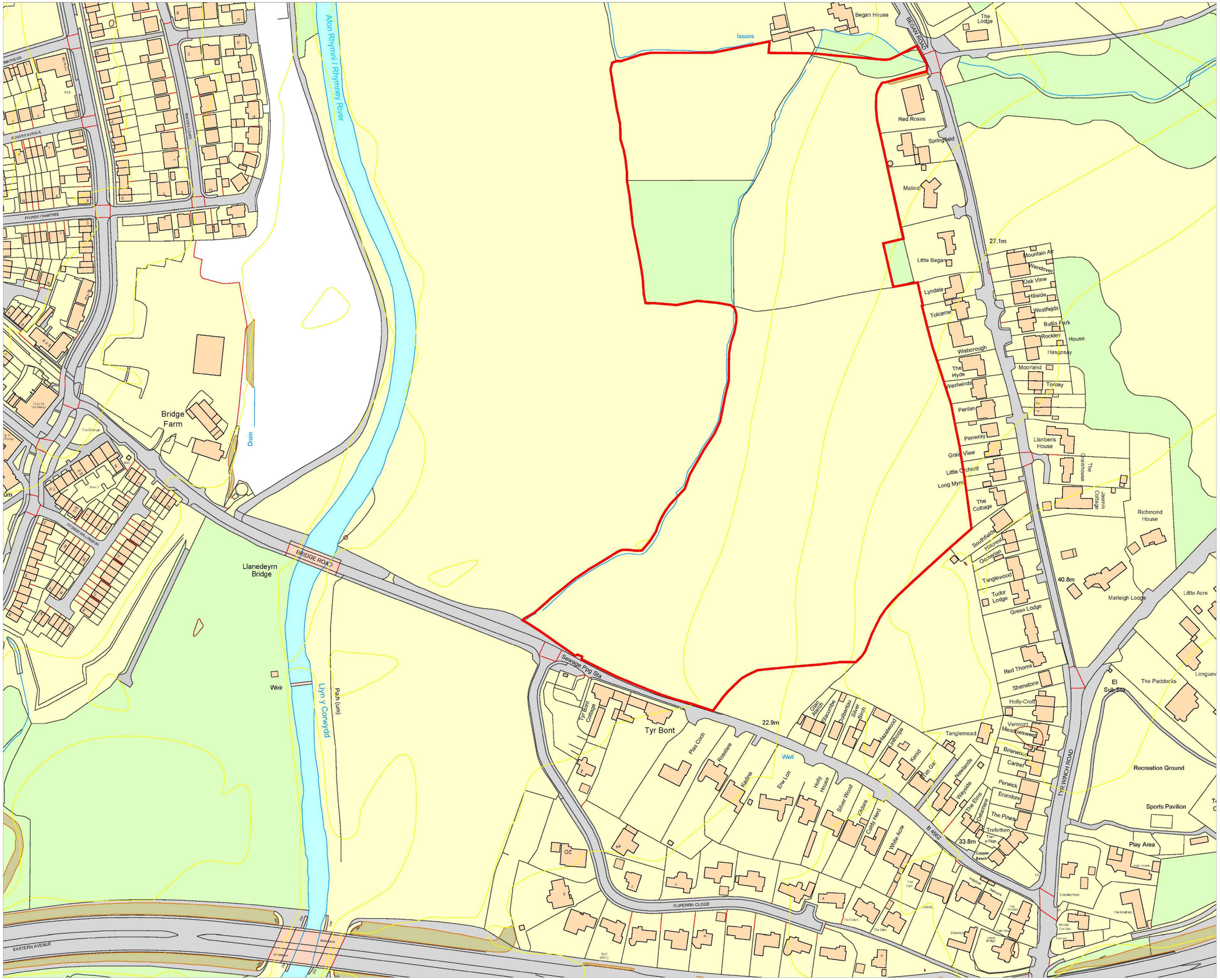
As part of the SAB process, following detailed design of proposed attenuation features a SuDS Management plan will be issued to assess the maintenance and operation of SuDS through its design life.

5.0 Conclusion

All potential sources of flood risk at the application site have been assessed, and the risks of flooding occurring have all been assessed as low. The main access and egress of the development has been considered and although it is within the flood plain an alternative access and egress has been proposed which at times of extreme flooding emergency vehicle could use. The extent of roads east of the site that emergency vehicles would use are also free from flood risk, In assessing the flood risk, the impacts of climate change will be considered for the lifetime of the proposed development in due course but these are likely to be considered to be acceptable since consideration of climate change has been made within the flood maps.

It is therefore considered that in terms of flooding and drainage the site meets all the criteria for a candidate site stage 1 submission.

APPENDIX A SITE LOCATION PLAN



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SITE BOUNDARY (TOTAL GROSS : 20.46 ACRES)

Land at Bridge Road
Old St Mellons
Cardiff

Drawing Title
Location plan

Drawing No.
LP01

Drawn by
AB

Scale
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Date
30 July 2021

Persimmon Homes
East Wales

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0 50 m

APPENDIX B - PROPOSED SITE PLAN-BLOCK PLAN

SITE BOUNDARY (20.46 ACRES / 8.9 ACRES NET DEV AREA / 135 UNITS)

NRW (NATURAL RESOURCES WALES) FLOOD RISK MAP ZONE C2

EXISTING PUBLIC RIGHT OF WAY

SITE ACCESS FROM WEST ONLY ALONG BRIDGE ROAD

EXISTING LEVELS / CONTOURS AT 5 METRE INTERVALS

EXISTING TREES / HEDGES

EXISTING WATER FEATURES / DRAINS

RIVER RHYMNEY

EXISTING RESIDENTIAL DEVELOPMENT

ST EDERYNS VILLAGE CENTRE (WITH RETAIL UNITS)

TYRWINCH ROAD PLAYING FIELDS

ST EDERYNS PRIMARY SCHOOL (TO BE CONSTRUCTED)

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PROPOSED DEVELOPMENT

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H EQUIPPED PLAY AREA

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0 50 m

APPENDIX C – Constraints and Opportunities Plan

N

- SITE BOUNDARY (GROSS AREA : 20.46 ACRES)
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- EXISTING PUBLIC RIGHT OF WAY
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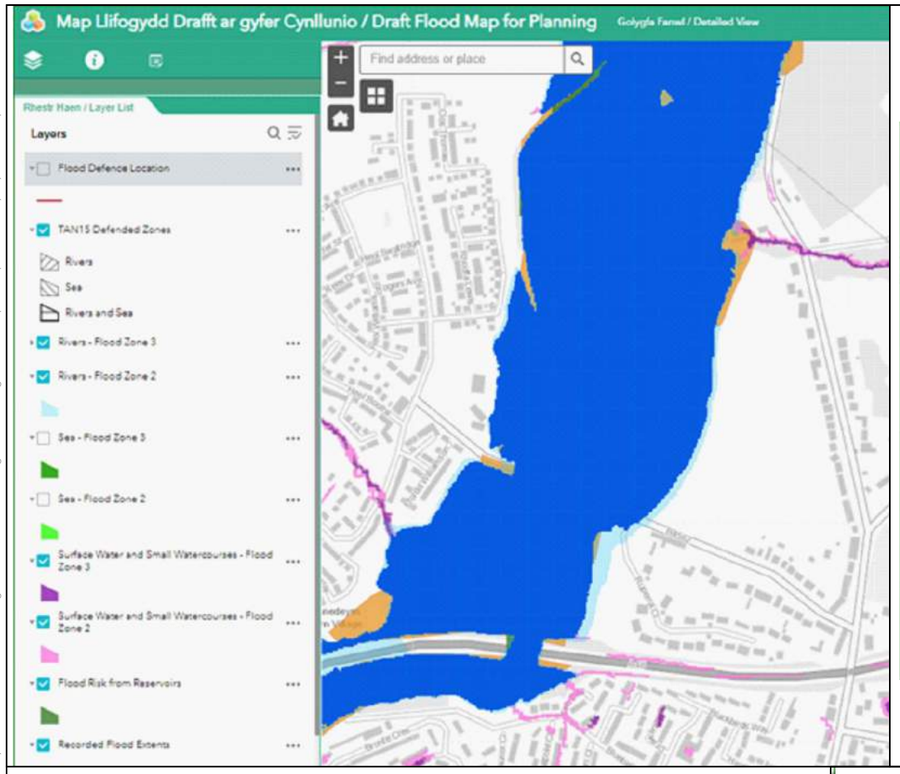
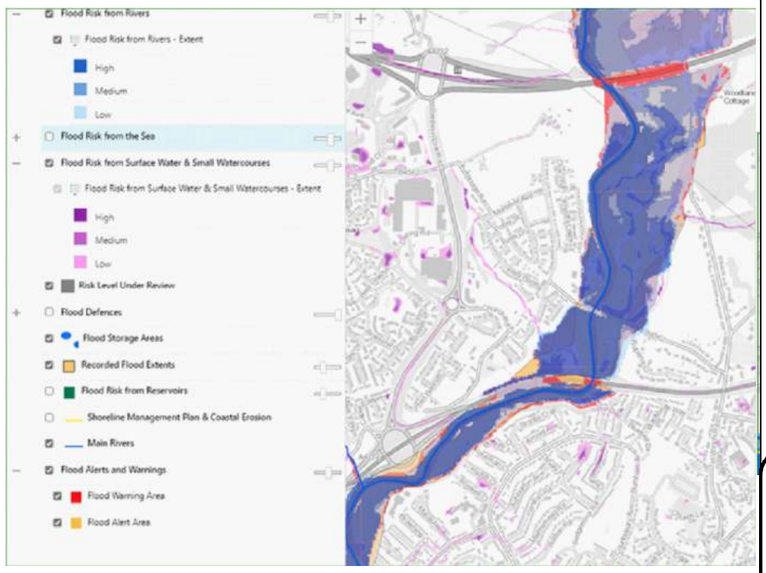
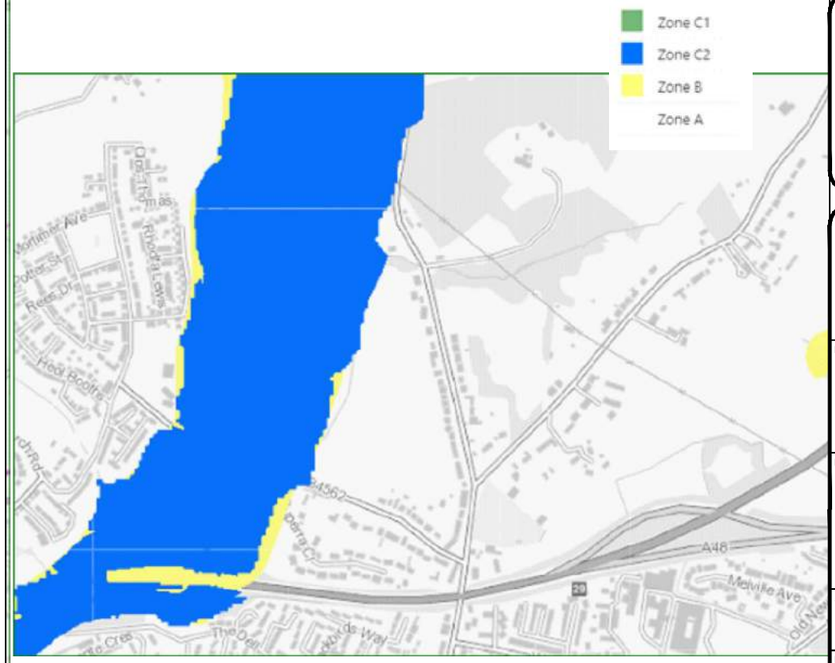
APPENDIX D – NRW Flood maps/DAM/DRAFT Flood Map for Planning







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thinkurban
Architecture & Civil Engineering

Quest House
St Mellons Business Park
Fortran Road
Cardiff
CF3 0EY

T: 02922 520 219

Client:
Persimmon Homes East Wales

Project:
Began Road

Drawing:
NRW Flood maps/DAM/DRAFT Flood Map for Plannign

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