

J000508-HTN01b November 2024

Proposed New Residential Development

Land at Heol Dirion, Colwyn Bay, Conwy

Highways Technical Note

Prepared on behalf of:







CONTENTS

1.0	INTRODUCTION
2.0 2.1 2.2 2.3	EXISTING HIGHWAY NETWORK CONDITIONS Site Location & Development Proposals Description of Existing Local Network Connections Personal Injury Accident Records: Highway Safety
3.0 3.1 3.2 3.3 3.4	SITE ACCESSIBILTY AUDIT Introduction Access to Public Transport Accessibility to Local Facilities (Walking and Cycling) Accessibility Summary
4.0 4.1 4.2 4.3 4.4	DESCRIPTION OF THE PROPOSAL SCHEME Overview Highway Access Arrangements Car Parking Site Servicing
5.0 5.1 5.2 5.3	PREDICTED DEVELOPMENT TRAFFIC DEMAND Trip Generation Assignment of Development Traffic Movements Overview
5.0	SLIMMARY AND CONCLUSIONS

DRAWINGS

SAER ARCHITECT

HDC-SAL-01-ZZ-DR-A-0003_P4 Proposed Site Plan

FOCUS TP

J000508/SK101A Visibility Splays from Internal Private Drives J000508/ATR101A Swept Path Assessment - Refuse Vehicle

FIGURES

Figure HTN1	Site Location Plan - Strategic Context
Figure HTN2	Site Location Plan - Immediate Context
Figure HTN3	Personal Injury Accident Review Search Area
Figure HTN4	Available Local Bus Connections from The Application Site
Figure HTN5	2km Walk Catchment from The Application Site
Figure HTN6	5km Cycle Catchment from The Application Site

APPENDICES

Appendix HTN1 Residential TRICS Output

1.0 INTRODUCTION

- 1.1 This Highways Technical Note has been prepared by Focus Transport Planning Ltd (Focus TP) on behalf of Anwyl Homes & Wales and West Housing Association to provide a review of highways and transport matters associated with the proposed residential development at Heol Dirion, Colwyn Bay, Conwy. The proposals envisage the development of 28 residential dwellings served via an extension of the existing residential estate road of Heol Dirion. The delivery of the proposed new dwellings would represent the extension of an existing residential development area.
- 1.2 This Highways Technical Note (HTN) report has been prepared to apprise the local planning and highway authority (Conwy County Borough Council CCBC) of highways and transport matters associated with the development proposals and to outline the principles of the proposed site access arrangements.
- 1.3 Planning Policy Wales TAN18 "Transport" Annex D identifies that residential developments of under a suggested threshold of 100 dwellings do not trigger the need for the preparation of a detailed Transport Assessment report. Notwithstanding this general rule of thumb, in order to provide a review of the current proposed scheme, this HTN has been prepared.
- 1.3.1 The structure of the remainder of this report is therefore as follows:
 - ➤ An audit of the existing characteristics of the immediate highway layout to the site, including highway safety matters, a review of site accessibility via alternative travel modes to the private car;
 - ➤ A review of the key proposed development elements and proposed site access strategy;
 - ➤ An assessment of the future traffic levels anticipated to be generated by the development scheme;
 - > Summary and Conclusions.

November 2024

2.0 EXISTING HIGHWAY NETWORK CONDITIONS

2.1 Site Location & Development Proposals

- 2.1.1 The location of the proposal site is illustrated in **Figure HTN1** to this report. This plan identifies the location of the site on the southern outskirts of Colwyn Bay.
- 2.1.2 **Figure HTN2** to this report illustrates the immediate location of the site, and demonstrates that the site is located at the terminus of the Heol Dirion cul-de-sac.

2.2 Description of Existing Local Network Connections

- 2.2.1 Heol Dirion represents a cul-de-sac route with frontage residential properties and two small side roads. The route is 5.5m in width, with a speed cushion located approximately halfway along its length. Footways of 1.8m width are provided to both sides and the route is lit. Occasional on-street parking is noted to take place, although such parking is not observed to create any operational difficulties. Heol Dirion bends through 90degress, with forward visibility of at least 25m available throughout the bend, suitable for the prevailing 20mph speed limit.
- 2.2.2 Heol Dirion connects to Beal Avenue and Severn Road at a priority-controlled give-way T-junction (Heol Dirion representing the minor road approach). Both Beal Avenue and Severn Road are characterised by 7.0m carriageway widths with 1.8-3.0m footways to both sides. Beal Avenue continues north eastwards towards Groes Road, with Groes Road acting as the main local distributor road for frontage and surrounding residential development, providing direct connections to A547 Abergele Road to the north. Seven Road, which continues north westwards, also ultimately connects to Groes Road, via Glyn Avenue.
- 2.2.3 In the vicinity of its junctions with Beal Avenue and Glyn Avenue, Groes Road is of a minimum of 6.0m width and is lit with no traffic calming features on the main road carriageway.
- 2.2.4 Groes Road climbs in both approach directions to a localised crest at the junction with Glyn Avenue. The approach gradient is particularly steep on the southeastern

approach, where the combination of the local vertical profile and a sharp bend in the carriageway are such that forward visibility to the junction is limited. Forward visibility from the north-west however, is much more suitable, being of the order of 45-50m. Suitable standard footways are also available on both sides of the route, with street lighting also available for the full length of route section.

- 2.2.5 The section of Glyn Avenue to the north of its junction with Glyn Avenue is characterised by frontage development along the majority of the western road frontage. Typically, such development is residential in nature, although some commercial properties are noted towards the extreme northern end of the route, close to the terminal connection to A547 Abergele Road. The eastern road frontage serves a range of development uses including an Assisted Living residence, a limited number of residential properties and an access to a territorial army barracks.
- 2.2.6 Many of the residential properties to the western frontage of Groes Road do not provide in-curtilage parking and therefore on-street parking is noted to take place on some sections. This parking is noted to exclusively take place to the western side of the road, with no parking on the opposite side of the road. A lay-by parking facility was also noted close to the crest of the steeper section of route, removing on-street parking demand at this location.
- 2.2.7 The main impact of the on-street parking is noted to effectively reduce sections of the route to give-way shuttle working. Such operation is noted to assist in controlling vehicle speeds whilst not resulting in any obvious operational problems, such as safety issues or congestion. Double yellow line markings are noted to be in force to the front of the commercial properties near the mini-roundabout junction, ensuring two-way operation in this location and avoiding any potential for vehicles on Groes Road to block back onto Abergele Road.
- 2.2.8 The key physical feature of the section of Groes Road from Glyn Avenue is the steep downhill gradient northwards towards A547 Abergele Road. This steep section extends over approximately 125m and results in a crest feature with restricted forward visibility approximately 40m to the south of the army barracks entry. This restricted forward visibility results in reduced operating speeds on the link as drivers are noted to approach the crest with some care. The gradient also

November 2024

impacts on southbound speeds (uphill vehicle movements) but clearly increases stopping distances for northbound (downhill) traffic. Anti-skid surfacing is in evidence on the immediate downhill approach of Groes Road to the Abergele Road mini-roundabout.

- 2.2.9 Groes Road terminates at a mini-roundabout connection to the A547 Abergele Road. This junction is of a 4-arm roundabout design, with the other side road arm being made up of an entrance to Erias Park (also serving Colwyn Bay Leisure Centre and Erias High School). The junction layout was implemented in mid-2003 as an accident remedial scheme to replace the previous 'give way' arrangements.
- 2.2.10 The mini-roundabout junction is established by white-line markings on all approaches. The main A547 Abergele Road approach arms are further reinforced by pedestrian crossing islands set back from the main junction stoplines. No crossing islands or deflection islands are provided on the side road connections from Groes Road / Erias Park. A signalised crossing facility is available at the A547 Abergele Road circa 100m east of Groes Road.
- 2.2.11 A547 Abergele Road acts as the main district distributor road between the settlements of Old Colwyn and Llandullas to the east and Colwyn Bay town centre to the west. A range of local shops and services provide frontage development to the route approximately 300m to the west of the mini-roundabout junction.

2.3 Personal Injury Accident Records: Highway Safety

- 2.3.1 Personal Injury Accident (PIA) data for the immediate local highway network to the proposal site has been obtained by Focus TP using Crashmap.co.uk, which provides details of all PIA events attended by the police. The data is approved by the National Statistics Authority and reported on by the Department for Transport (DfT) each year. Data has been obtained for the most recently available ten-year search period in line with standard practice, covering January 2013 December 2022.
- 2.3.2 PIA data has been obtained for key sections of Heol Dirion, Beal Avenue, and Groes Road (including the Groes Road junction with the A547 Abergele Road). A location plan of the search area is included as Figure HTN3 to this report.

- 2.3.3 Review of the most recently available ten-year accident information identifies that no accident incidents have been recorded in the study area. Further review of historic data identifies that no incidents have been recorded at the Glyn Avenue / Groes Road junction in the last 10 years.
- 2.3.4 Given that no incidents have occurred across the search area in the last ten-years, it is not considered that there are any prevailing road safety issues that would bring the proposed development into question or require the developer to fund any off-site highway improvements.

3.0 SITE ACCESSIBILTY AUDIT

3.1 Introduction

- 3.1.1 Development of the application site for residential land use would need to satisfy the key planning and transport related sustainability objectives of:
 - > Reducing the need to travel, especially by private car;
 - Ensuring accessibility to a range of sustainable travel options.
- 3.1.2 The nature of local sustainable transport connections available within the immediate catchment of the application site are summarised in the paragraphs below.

3.2 Access to Public Transport

Bus Links

- 3.2.1 The closest bus stop to the site is located on Beal Avenue at its junction with Heol Dirion, within a 160m walk from the application site and therefore within the maximum walking distance of 300m for access to a less frequent route as per the national guidance (as defined in *Buses in Urban Developments, January 2018, Charted Institute of Highways and Transportation*). This bus stop features a simple flagpost stop and can be access via footways to both sides of Heol Dirion. Further stops are available throughout the Glyn Estate including at the Glyn Estate Flats and adjacent to the playground, all of which are served by the 27 service.
- 3.2.2 In addition to the Glyn Estate bus stops mentioned above, further bus stops are located on the A547 Abergele Road corridor, the closest of which are located circa 80m west of the mini-roundabout, within a 900m walk from the centre of the application site. The eastbound stop consists of a bus lay-by with a local raised bus boarder style kerb feature, covered bus stop with seating and information panel on a flagpost. The westbound stop features a bus lay-by with a local raised bus boarder style kerb feature and simple flagpost with information panel. The

stops can be accessed from the application site via footways to both sides of Heol Dirion, Beal Avenue and Groes Road, or via the 27 service.

3.2.3 The local bus stops to the application site are served by a range of regular frequency bus routes, as identified in **Table HTN3.1** below. A plan of these available local bus route connections is also illustrated in **Figure HTN4** to this report.

Table HTN3.1: Bus Services Available from Local Stops

Bus Stop on Beal Avenue						
Service	Route	Mon-Fri / Sat / Sun Daytime Frequency				
27	Tan Lan to Conwy Railway Station / Old Colwyn St David's Rd via Mochdre and Llandudno Junction	1 per hr / 1 per hr / No service				
	Bus Stops on A547 Abergele R	oad				
Service	Route	Mon-Fri / Sat / Sun Daytime Frequency				
12 / X12	Rhyl to Llandudno via Abergele, Old Colwyn, Colwyn Bay and Penrhyn Bay	5 per hr / 4 per hr / 3 per hr				
13	Llandudno to Prestatyn via Llandudno Junction, Old Colwyn, Abergele and Bodelwyddan	1 per hr / 1 per hr / 7 per day				
14	Llysfaen to Conwy via Old Colwyn and Colwyn Bay	8 per day / 7 per day / No service				
15	Conwy - Llandudno - Rhos-On-Sea - Old Colwyn - Mynnydd Marian / Llysfaen	1 per hr / 1 per hr / No service				
21	Colwyn Bay Railway Station to Bay View Road, Colwyn Bay	4 per day / 3 per day / No service				
23	Tan Lan to Colwyn Bay via Colwyn Heights	1 per hr / 1 per hr / No service				

3.2.4 Review of this bus service information identifies that the local bus stops offer regular frequency connections to local destinations such as Colwyn Bay town centre (9 per hour), Colwyn Bay Railway Station (2-3 per hour), Old Colwyn (10 per hour), Rhos-on-Sea (2 per hour) and other wider connections to Llandudno (4 per hour), Rhyl (5 per hour) and Conwy (8 per day).

Rail links

3.2.5 Colwyn Bay railway station is located circa 2km walk (or via local bus connection) to the northwest of the application site, adjacent to the alignment of the A55 trunk road. Colwyn Bay station is served by trains on the North Wales coastal line

(Chester - Llandudno Junction - Holyhead) and offers access to the following services (weekday daytime frequencies):

- ➤ Hourly Birmingham to Holyhead service (Crewe / Chester / Llandudno Junction)
- ➤ Hourly Manchester Airport to Llandudno service (Manchester / Runcorn / Chester / Llandudno Junction).
- ➤ Hourly Holyhead to Cardiff service (Llandudno Junction / Chester / Shrewsbury / Hereford / Newport).
- Limited frequency Holyhead London service (Llandudno Junction / Chester / Crewe).

3.3 Accessibility to Local Facilities (Walking and Cycling)

- 3.3.1 National planning guidance notes that walking is the most important mode of travel at the local scale, offering the greatest potential to replace short distance car trips of under 2km. Guidance produced by CIHT also notes that 800m represents an 'acceptable' walking distance to community facilities and shops, with 1.2km representing a 'preferred maximum'. 2km has been identified as a suitable walk distance for regular commuting trips and journeys to / from school. The Wales Active Travel Act Guidance reinforces such thresholds, referencing 'active neighbourhoods', which are characterised as having a range of facilities available within a 20-minute walking distance (20 minutes walking equating to approximately 1mile / 1.6km).
- 3.3.2 As noted above, footways on immediate sections of the local highway are of good quality (generally a minimum 1.8m width). **Figure HTN5** to this report illustrates a 2km walking catchment and shows that a variety of local services destinations lie within a convenient and practical walking distance from the application site, including:
 - > Ysgol Bod Alaw primary school;
 - > Ysgol Eirias secondary school;
 - > Colwyn Leisure Centre; and
 - ➤ A small business park at the corner of Groes Road and A547 Abergele Road.

3.3.3 National planning guidance also notes that cycling has the potential to substitute for short car trips - particularly those journeys of 5km or less or which could form part of a longer journey by public transport. The location of the application site allows for practical cycling access to a range of local areas, including all of the built-up area of Colwyn Bay and Old Colwyn, as well as Rhos-on-Sea and the outskirts of Llysfaen (Figure HTN6). Longer distance cycle journeys from the application site to destinations such as Llandudno and Llandullas are also considered likely to be practical, via connections offered by the National Cycle Route 5 which passes within 2km of the site, and which offers segregated cycle connections between the North Wales coastal towns.

3.4 Accessibility Summary

- 3.4.1 Overall, it is considered that the application site represents a suitable location for residential development, effectively representing the extension of an existing residential development area and within a practical walking distance of regular frequency public transport services and everyday facilities such a primary & secondary school and community leisure centre. Footways on immediate sections of the local highway are of good quality with tactile crossing points available at larger junctions.
- 3.4.2 Such locational characteristics will deliver the potential for residents of the application site to utilise sustainable transport for a range of 'everyday' journeys and therefore meet the core planning objectives of promoting opportunities for the use of alternative travel modes to the private car and managing the overall traffic impact associated with new development.

4.0 DESCRIPTION OF THE PROPOSAL SCHEME

4.1 Overview

- 4.1.1 The proposal scheme comprises the development of 28 affordable residential dwellings, at Heol Dirion, Colwyn Bay, Conwy.
- 4.1.2 A masterplan of the proposal scheme provided in **Saer Architect's Drawing HDC-SAL-01-ZZ-DR-A-0003_P4**.

4.2 Highway Access Arrangements

4.2.1 It is proposed that access to the new residential development would be via an extension to the existing Heol Dirion cul-de-sac. The extended route would be designed to appropriate local design standards (5.5m carriageway width), with turning head provided at its terminus. Private driveways located off the extended cul-de-sac would serve some properties. The proposed access route incorporates 1.8m footways to both sides. Appropriate visibility splays are provided from proposed internal private driveway connections (i.e. 2.4m x 25m), as illustrated in Focus TP Drawing J000508-SK101A.

4.3 Car Parking

- 4.3.1 The site plan includes 2 spaces per dwelling, with 3 spaces available for a 4-bed dwelling. All spaces have minimum 2.6m x 4.8m dimensions.
- 4.3.2 Such parking provision is considered to be entirely appropriate for the application scheme, noting that all dwellings are affordable, and would be available for rent only. Indeed, review of census statistics identifies that 37% of rental households within the local area do not own a car or van, with 42% of households owning 1 car or van (2021 super output area (middle layer) W02000034: Conwy 008), with just 21% of households have 2 or more cars or vans. Due to the proportion of dwellings with 0 or 1 cars or vans, it is considered highly unlikely that dwellings would have more than 2 vehicles, and accordingly the provision of 2 spaces for every dwelling is considered ample to accommodate anticipated demand.

November 2024

4.4 Site Servicing

- 4.4.1 The proposal site masterplan includes for a turning head suitable to accommodate typical large vehicle types that could be reasonably be expected to need to access the site such as refuse collection vehicles.
- 4.4.2 It is proposed that all refuse collection would take place on street, with refuse vehicles using the available turning head.
- 4.4.3 A swept path assessment of a refuse vehicle servicing the site is provided in **Drawing J000508/ATR101A**.

5.0 PREDICTED DEVELOPMENT TRAFFIC DEMAND

5.1 Trip Generation

- 5.1.1 Anticipated levels of traffic generated to / from the Heol Dirion proposal site have been estimated using trip rates taken from the TRICS traffic generation database. TRICS is a widely accepted national database of historical trip demand data and contains observed traffic data for a large number of development-type sites and, as such, can be considered to produce reliable base trip rate data.
- 5.1.2 Trip rate estimates have been calculated through reference to typical small private residential sites held within the TRICS database. Predicted peak hour average 'per dwelling' trip rates and 'worst case' 85th percentile trip rates from interrogation of the database are outlined in **Table HTN5.1** below (detailed TRICS related output is provided in **Appendix HTN5** to this report). In order to provide a robust assessment, trips are provided for private dwellings, however it should be noted that the dwellings would be rented.

Table HTN5.1: Predicted peak hour average and 'worst case' 85th percentile 'per dwelling' trip rates

Trip Rates (per dwelling)	Arrivals	Departures	Total
Residential - Average			
AM Peak (08:00-09:00)	0.181	0.385	0.566
PM Peak (17:00-18:00)	0.340	0.196	0.536
Residential - 85 th %'ile			
AM Peak (08:00-09:00)	0.296	0.539	0.909
PM Peak (17:00-18:00)	0.443	0.334	0.745

5.1.3 Application of these trip rates to the proposed development size of 28 private residential units provides the following estimate of trip demand:

Trip Total	Arrivals	Departures	Total
Residential - Average			
AM Peak (08:00-09:00)	5	11	16
PM Peak (17:00-18:00)	10	5	15
Residential - 85 th %'ile			
AM Peak (08:00-09:00)	8	15	25
PM Peak (17:00-18:00)	12	9	21

November 2024

5.2 Assignment of Development Traffic Movements

5.2.1 It is anticipated that all development traffic movements associated with the Heol Dirion application scheme will seek to access the main public highway network via Beal Avenue and Groes Road to the A547 Abergele Road.

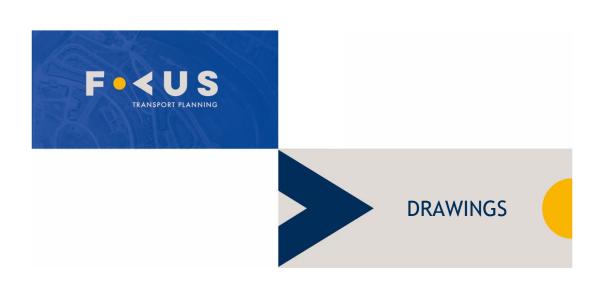
5.3 Overview

5.3.1 The proposed development is forecast to generate just 25 two-way vehicle movements in the AM and PM peak hour (85th percentile trip rate). The level of trip generation is equivalent to less than one vehicle movement every 2 minutes, which is not considered to be significant.

6.0 SUMMARY AND CONCLUSIONS

- 6.1 This Highways Technical Note has been prepared by Focus TP to consider highways and transport matters associated with the delivery of residential properties at land at Heol Dirion, Colwyn Bay, Conwy. The proposals envisage the development of 28 dwellings served via a cul-de-sac access from the existing estate road of Heol Dirion, and effectively represents the extension of an existing residential development area. The report has been prepared to inform the Local Planning & Highway Authority of the design and nature of the proposed site access arrangements and any highway network operational impacts associated with the residential development proposals.
- 6.2 This report has demonstrated that the application scheme would represent appropriate and sustainable development when considered in highways and transport terms. The site is located adjacent to a mature residential area and offers the potential to encourage access by alternative sustainable travel modes to the private car for some day-to-day journeys. The proposals incorporate a suitable level of car parking, and appropriate servicing arrangements are available for refuse collection and delivery vehicles.
- 6.3 There is no evidence to suggest that the application scheme would give rise to a severe detrimental impact on local highway network operation. Development traffic increases would be of a strictly limited scale, with the level of trip generation being equivalent to less than one vehicle movement every 2 minutes (85th percentile trip generation), which is not considered to be significant.
- 6.4 Given the above, it is concluded that there are no material highway grounds for refusing the development proposals.

November 2024







Revision:

A Updated site plan

25.11.24

Anwyl Homes & Wales and West Housing Association

Land at Heol Dirion Colwyn Bay, Conwy

Drawing Title: Private Driveway Visibility Splay 2.4m × 25m

Drawing Number: J000508/SK101 08.09.2024 Checked By:
KG Scale: 1:500@A3 ⊳

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Information

E O > G



Revision:

A Updated site plan

25.11.24

Phoenix 2 Duo Recycler (P2-15W Williams)

Queral Wight

Queral Body Height

Am Body Ground Clearance

Track Wight

Lock to lock time

Kerb to Kerb Turning Radius

11

W with Elite 6x4 chassis)
ISZDM
GLESOM
GLESOM
0.3056M
4.005
11.550m

Anwyl Homes & Wales and West Housing Association

Land at Heol Dirion Colwyn Bay, Conwy

Swept Path Assessment Refuse Vehicle

Drawing Title:

Drawing Number: J000508/ATR101 >

08.09.2024 Checked By:
KG Scale: 1:500@A3

Drawn By:

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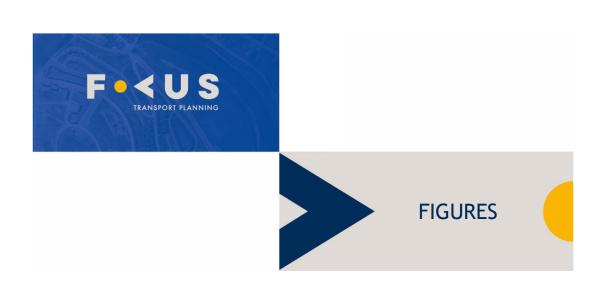
This drawing has been prepared for feasibility purposes and does not represent a construction plan. All design aspects to be confirmed at the appropriate detailed design stage. E O > G



Pentland House Village Way, Wilmslow SK9 2GH











Site Location: Wider Context

J000508

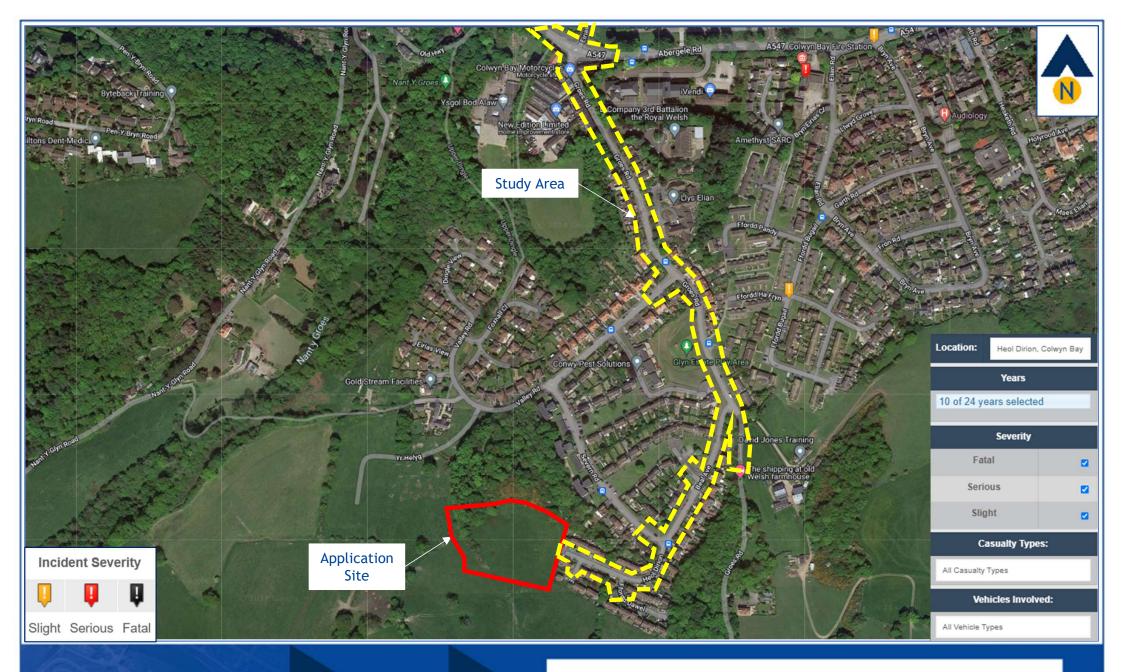
Land off Heol Dirion, Colwyn Bay





Figure HTN2 Site Location: Local Context

J000508 Land off Heol Dirion, Colwyn Bay

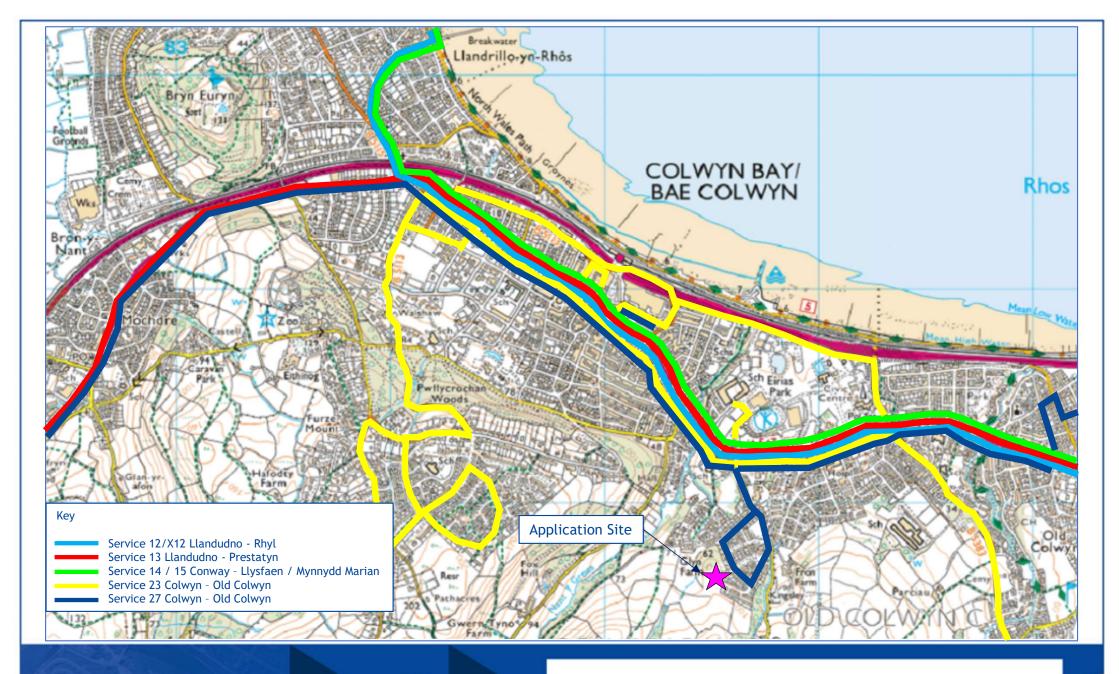




Recorded Personal Injury Accident Incidents (2013 - 2022)

J000508

Land off Heol Dirion, Colwyn Bay

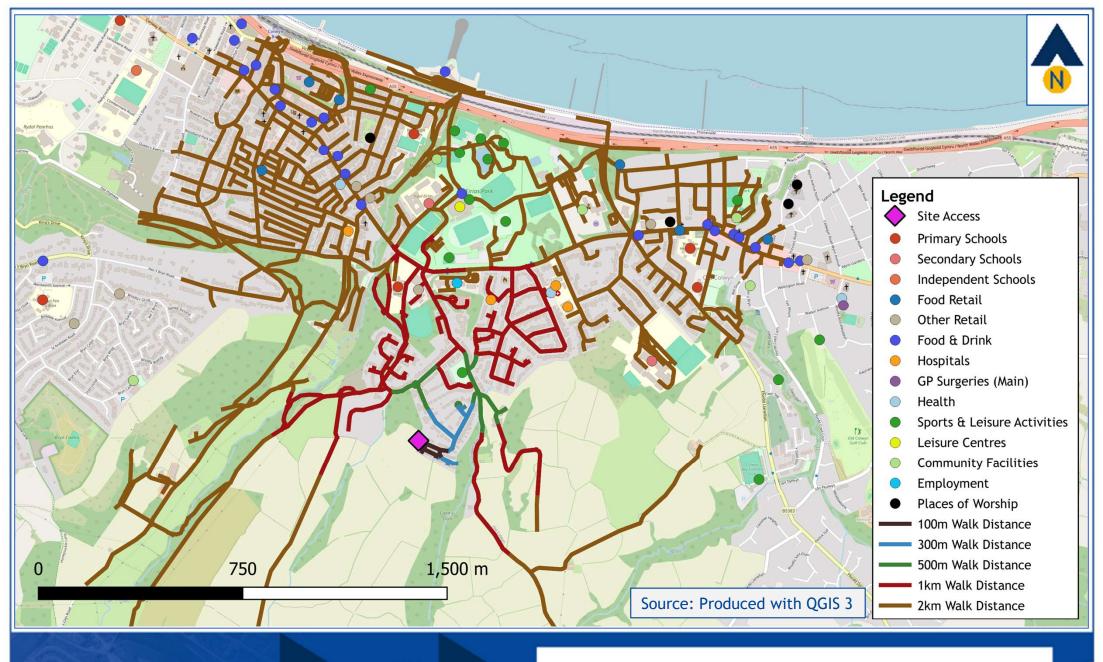




Available Local Bus Connections from the Application Site

J000508

Land off Heol Dirion, Colwyn Bay





2km Walk Catchment from the Application Site

J000508

Land off Heol Dirion, Colwyn Bay

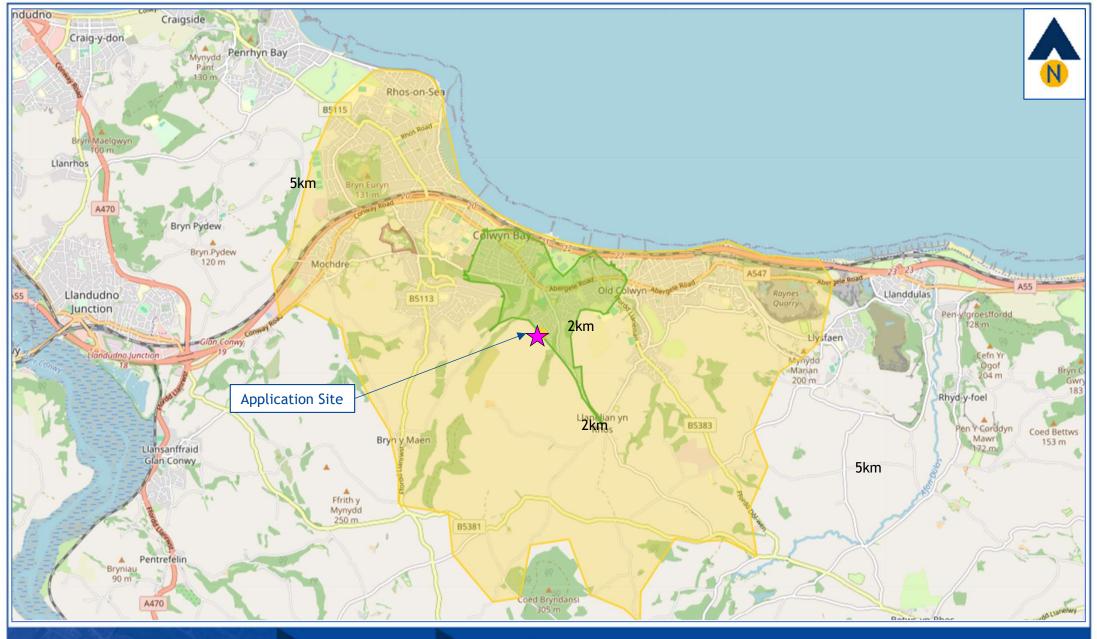
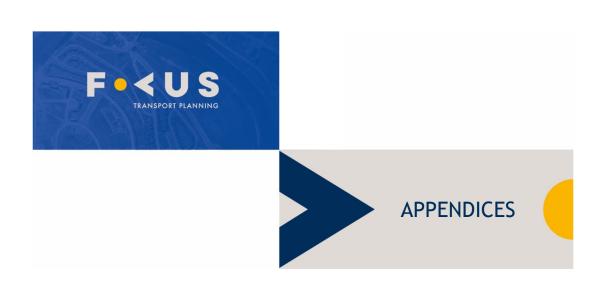




Figure HTN6 2km & 5km Cycle Catchments from the Application Site

J000508 Land off Heol Dirion, Colwyn Bay





Focus Transport Planning Village Way Wilmslow Licence No: 506501

Calculation Reference: AUDIT-506501-240507-0525

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use

: 03 - RESIDENTIAL : A - HOUSES PRIVATELY OWNED

Category : A - HOUTOTAL VEHICLES

Selected regions and areas:

		HUITS AITU AI EAS.	
02	SOUT	H EAST	
	CT	CENTRAL BEDFORDSHIRE	1 days
	ES	EAST SUSSEX	1 days
	HC	HAMPSHIRE	4 days
	HF	HERTFORDSHIRE	1 days
	MW	MEDWAY	1 days
	SC	SURREY	1 days
03	SOUT	H WEST	
	DC	DORSET	2 days
	SD	SWINDON	1 days
04	EAST	ANGLI A	
	NF	NORFOLK	4 days
	PB	PETERBOROUGH	1 days
05	EAST	MIDLANDS	
	NT	NOTTINGHAMSHIRE	1 days
06	WEST	MIDLANDS	
	ST	STAFFORDSHIRE	1 days
	WK	WARWICKSHIRE	2 days
07	YORK	SHIRE & NORTH LINCOLNSHIRE	
	NY	NORTH YORKSHIRE	3 days
80	NORT	H WEST	
	AC	CHESHIRE WEST & CHESTER	1 days
	LC	LANCASHIRE	1 days
09	NORT	TH .	
	DH	DURHAM	1 days
	FU	WESTMORLAND & FURNESS	1 days
10	WALE		
	VG	VALE OF GLAMORGAN	1 days
11	SCOT	LAND	
	HI	HIGHLAND	1 days
17	ULST	ER (NORTHERN I RELAND)	
	DE	DERRY	1 days

Focus Transport Planning Village Way Wilmslow Licence No: 506501

Primary Filtering selection:

Parameter: No of Dwellings Actual Range: 8 to 50 (units:) Range Selected by User: 5 to 50 (units:)

Parking Spaces Range: All Surveys Included

Parking Spaces per Dwelling Range: All Surveys Included

Bedrooms per Dwelling Range: All Surveys Included

Percentage of dwellings privately owned: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/16 to 05/06/23

Selected survey days:

Monday 6 days
Tuesday 6 days
Wednesday 10 days
Thursday 4 days
Friday 5 days

Selected survey types:

Manual count 30 days
Directional ATC Count 1 days

Selected Locations:

Edge of Town Centre 3
Suburban Area (PPS6 Out of Centre) 8
Edge of Town 20

Selected Location Sub Categories:

Residential Zone 30 No Sub Category 1

Inclusion of Servicing Vehicles Counts:

Servicing vehicles Included 8 days - Selected Servicing vehicles Excluded 27 days - Selected

Secondary Filtering selection:

Use Class:

C3 31 days

Population within 500m Range:

All Surveys Included

Population within 1 mile:

 1,001 to 5,000
 2 days

 5,001 to 10,000
 10 days

 10,001 to 15,000
 9 days

 15,001 to 20,000
 5 days

 20,001 to 25,000
 4 days

 25,001 to 50,000
 1 days

Population within 5 miles:

5,001 to 25,000 6 days
25,001 to 50,000 3 days
50,001 to 75,000 5 days
75,001 to 100,000 2 days
100,001 to 125,000 1 days
125,001 to 250,000 11 days
250,001 to 500,000 3 days

TRICS 7.11.1 120424 B22.0606524128 Database right of TRICS Consortium Ltd, 2024. All rights reserved

Tuesday 07/05/24 Page 3

Licence No: 506501 Focus Transport Planning Village Way Wilmslow

Secondary Filtering selection (Cont.):

<u>Car ownership within 5 miles:</u> 0.6 to 1.0 9 days 21 days 1 days 1.1 to 1.5 1.6 to 2.0

<u>Travel Plan:</u> Yes 14 days 17 days No

PTAL Rating:

No PTAL Present 31 days

CHESHIRE WEST & CHESTER

Survey Type: MANUAL

Survey Type: MANUAL

DORSET

CENTRAL BEDFORDSHIRE

Focus Transport Planning Village Way Wilmslow Licence No: 506501

24

46

06/06/19

LIST OF SITES relevant to selection parameters

AC-03-A-04 LONDON ROAD NORTHWICH

LEFTWICH

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total No of Dwellings:

Survey date: THURSDAY CT-03-A-01 MI XED HOUSES

ARLESEY ROAD STOTFOLD

> Edge of Town Residential Zone

Total No of Dwellings:

Survey date: WEDNESDAY 22/06/22

TOWN HOUSES

3 DC-03-A-09 MIXED HOUSES

A350

SHAFTESBURY

Edge of Town No Sub Category

Total No of Dwellings: 50

Survey date: FRIDAY 19/11/21 Survey Type: MANUAL **DORSET**

DC-03-A-10 MIXED HOUSES

ADDISON CLOSE **GILLINGHAM**

Edge of Town Residential Zone

Total No of Dwellings: 26

Survey date: WEDNESDAY 09/11/22 Survey Type: MANUAL

5 DE-03-A-04 SEMI-DETACHED & TERRACED **DERRY**

GREENHALL HIGHWAY

COLERAINE

Edge of Town Residential Zone

Total No of Dwellings: 38

Survey date: THURSDAY 19/05/22 Survey Type: MANUAL

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

GREENFIELDS ROAD BISHOP AUCKLAND

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total No of Dwellings: 50

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

DETACHED & SEMI-DETACHED EAST SUSSEX ES-03-A-09

THE FAIRWAY NEWHAVEN

Edge of Town Residential Zone

Total No of Dwellings: 47

Survey date: MONDAY 13/03/23 Survey Type: MANUAL

Focus Transport Planning Village Way Wilmslow Licence No: 506501

LIST OF SITES relevant to selection parameters (Cont.)

8 FU-03-A-02 DETACHED/TERRACED HOUSING WESTMORLAND & FURNESS

MACADAM WAY PENRITH

Edge of Town Centre Residential Zone

Total No of Dwellings: 50

Survey date: TUESDAY 21/06/16 Survey Type: MANUAL

9 HC-03-A-21 TERRACED & SEMI-DETACHED HAMPSHIRE

PRIESTLEY ROAD BASINGSTOKE HOUNDMILLS Edge of Town Residential Zone

Total No of Dwellings: 39

Survey date: TUESDAY 13/11/18 Survey Type: MANUAL

10 HC-03-A-22 MI XED HOUSES HAMPSHI RE

BOW LAKE GARDENS NEAR EASTLEIGH BISHOPSTOKE Edge of Town Residential Zone

Total No of Dwellings: 40

Survey date: WEDNESDAY 31/10/18 Survey Type: MANUAL

11 HC-03-A-30 TERRACED HOUSES HAMPSHIRE

MEUDON AVENUE FARNBOROUGH

Edge of Town Centre Residential Zone Total No. of Dwellings:

Total No of Dwellings: 31

Survey date: FRIDAY 14/10/22 Survey Type: MANUAL

12 HC-03-A-31 MI XED HOUSES & FLATS HAMPSHI RE

KILN ROAD LIPHOOK

Edge of Town Residential Zone Total No of Dwellings:

Total No of Dwellings: 44

Survey date: FRIDAY 07/10/22 Survey Type: MANUAL

13 HF-03-A-05 TERRACED HOUSES HERTFORDSHIRE

HOLMSIDE RISE WATFORD SOUTH OXHEY Edge of Town Residential Zone

Total No of Dwellings: 8

Survey date: MONDAY 05/06/23 Survey Type: MANUAL

14 HI-03-A-14 SEMI-DETACHED & TERRACED HIGHLAND

KING BRUDE ROAD INVERNESS SCORGUIE

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total No of Dwellings: 40

Survey date: WEDNESDAY 23/03/16 Survey Type: MANUAL
5 LC-03-A-31 DETACHED HOUSES LANCASHIRE

15 LC-03-A-31 DETACHED HOUSES GREENSIDE

PRESTON
COTTAM
Edge of Town
Residential Zone
Total No of Dwellings:

Total No of Dwellings: 32

Survey date: FRIDAY 17/11/17 Survey Type: MANUAL

Focus Transport Planning Village Way Wilmslow Licence No: 506501

LIST OF SITES relevant to selection parameters (Cont.)

MIXED HOUSES **MEDWAY** MW-03-A-02

OTTERHAM QUAY LANE

RAINHAM

Edge of Town Residential Zone

Total No of Dwellings: 19

Survey date: MONDAY 06/06/22 Survey Type: MANUAL

NF-03-A-05 MI XED HOUSES NORFOLK

HEATH DRIVE

HOLT

Edge of Town Residential Zone

Total No of Dwellings: 40

Survey date: THURSDAY 19/09/19 Survey Type: MANUAL

18 NF-03-A-10 MIXED HOUSES & FLATS NORFOLK

HUNSTANTON ROAD

HUNSTANTON

Edge of Town Residential Zone

Total No of Dwellings: 17

Survey date: WEDNESDAY 12/09/18 Survey Type: DIRECTIONAL ATC COUNT

NF-03-A-37 NORFOLK MI XED HOUSES

GREENFIELDS ROAD

DEREHAM

Edge of Town Residential Zone

Total No of Dwellings: 44

Survey Type: MANUAL Survey date: TUESDAY 27/09/22

20 NF-03-A-51 SEMI-DETACHED NORFOLK

CITY ROAD **NORWICH** LAKENHAM

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total No of Dwellings: 34

Survey date: TUESDAY 13/09/22 Survey Type: MANUAL NT-03-A-08 **DETACHED HOUSES NOTTI NGHAMSHI RE**

21 WIGHAY ROAD

HUCKNALL

Edge of Town Residential Zone

Total No of Dwellings: 36

Survey date: MONDAY 18/10/21 Survey Type: MANUAL NORTH YORKSHIRE

22 NY-03-A-12 **TOWN HOUSES**

RACECOURSE LANE NORTHALLERTON

Edge of Town Centre Residential Zone

Total No of Dwellings: 47

Survey date: TUESDAY Survey Type: MANUAL 27/09/16

NORTH YORKSHIRE NY-03-A-13 **TERRACED HOUSES** 23

CATTERICK ROAD CATTERICK GARRISON OLD HOSPITAL COMPOUND

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total No of Dwellings: 10

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

Focus Transport Planning Village Way Wilmslow Licence No: 506501

LIST OF SITES relevant to selection parameters (Cont.)

24 NY-03-A-14 DETACHED & BUNGALOWS NORTH YORKSHIRE

PALACE ROAD RIPON

Edge of Town
Residential Zone

Total No of Dwellings: 45

Survey date: WEDNESDAY 18/05/22 Survey Type: MANUAL

25 PB-03-A-04 DETACHED HOUSES PETERBOROUGH

EASTFIELD ROAD PETERBOROUGH

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total No of Dwellings: 28

Survey date: MONDAY 17/10/16 Survey Type: MANUAL

26 SC-03-A-07 MI XED HOUSES SURREY

FOLLY HILL FARNHAM

Edge of Town Residential Zone

Total No of Dwellings: 41

Survey date: WEDNESDAY 11/05/22 Survey Type: MANUAL

27 SD-03-A-01 SEMI DETACHED SWINDON

HEADLANDS GROVE

SWINDON

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total No of Dwellings: 27

Survey date: THURSDAY 22/09/16 Survey Type: MANUAL

28 ST-03-A-08 DETACHED HOUSES STAFFORDSHIRE

SILKMORE CRESCENT

STAFFORD

MEADOWCROFT PARK

Edge of Town Residential Zone

Total No of Dwellings: 26

Survey date: WEDNESDAY 22/11/17 Survey Type: MANUAL
29 VG-03-A-01 SEMI-DETACHED & TERRACED VALE OF GLAMORGAN

ARTHUR STREET

BARRY

Edge of Town Residential Zone

Total No of Dwellings: 12

Survey date: MONDAY 08/05/17 Survey Type: MANUAL

30 WK-03-A-03 DETACHED HOUSES WARWI ČKSHI RE

BRESE AVENUE WARWICK

GUYS CLIFFE

Suburban Area (PPS6 Out of Centre)

Residential Zone

Total No of Dwellings: 23

Survey date: WEDNESDAY 25/09/19 Survey Type: MANUAL

31 WK-03-A-04 DETACHED HOUSES WARWICKSHIRE

DALEHOUSE LANE

KENILWORTH

Edge of Town Residential Zone

Total No of Dwellings: 49

Survey date: FRIDAY 27/09/19 Survey Type: MANUAL

MANUALLY DESELECTED SURVEYS

Site Ref	Survey Date	Reason for Deselection
BO-03-A-01	15/10/20	covid restrictions
KC-03-A-09	09/06/21	covid restrictions
WO-03-A-07	01/10/20	covid restrictions

Licence No: 506501

Focus Transport Planning Village Way Wilmslow

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

TOTAL VEHICLES

Calculation factor: 1 DWELLS

BOLD print indicates peak (busiest) period

	ARRIVALS		DEPARTURES			TOTALS			
No. Av		Ave.	Trip	No.	Ave.	Trip	No.	Ave.	Trip
Time Range	Days	DWELLS	Rate	Days	DWELLS	Rate	Days	DWELLS	Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	31	34	0.088	31	34	0.272	31	34	0.360
08:00 - 09:00	31	34	0.181	31	34	0.385	31	34	0.566
09:00 - 10:00	31	34	0.173	31	34	0.213	31	34	0.386
10:00 - 11:00	31	34	0.141	31	34	0.178	31	34	0.319
11:00 - 12:00	31	34	0.172	31	34	0.170	31	34	0.342
12:00 - 13:00	31	34	0.192	31	34	0.214	31	34	0.406
13:00 - 14:00	31	34	0.183	31	34	0.159	31	34	0.342
14:00 - 15:00	31	34	0.181	31	34	0.220	31	34	0.401
15:00 - 16:00	31	34	0.306	31	34	0.227	31	34	0.533
16:00 - 17:00	31	34	0.300	31	34	0.182	31	34	0.482
17:00 - 18:00	31	34	0.340	31	34	0.196	31	34	0.536
18:00 - 19:00	31	34	0.263	31	34	0.168	31	34	0.431
19:00 - 20:00									
20:00 - 21:00									
21:00 - 22:00				·					·
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			2.520			2.584			5.104

Parameter summary

Trip rate parameter range selected: 8 - 50 (units:)
Survey date date range: 01/01/16 - 05/06/23

Number of weekdays (Monday-Friday): 34
Number of Saturdays: 0
Number of Sundays: 0
Surveys automatically removed from selection: 4
Surveys manually removed from selection: 0