Transport Assessment

Enderby Place, Greenwich

28 November 2023

Prepared for Maritime View Ltd





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1. Introduction

1.1 Overview

- 1.1.1 Markides Associates (MA) have been instructed by Maritime View Ltd ('the applicant') to prepare this Transport Assessment (TA) in support of an application for re-development of Enderby Place ('the site'), adjacent to Morden Wharf in the Royal Borough of Greenwich (RBG). RBG are both the planning and highways authority.
- 1.1.2 The proposals comprise up to 564 residential apartments (Class C3), light industrial (Class E(g)(iii)) and community / café use (Sui Generis), and associated highways, landscaping and public realm works. A site layout plan is included in **Appendix A.**

1.2 Site and Planning Context

- 1.2.1 The site is currently un-occupied brownfield site, formerly occupied by a now demolished Submarine Cable Works. As such it currently has no formal land use status but could otherwise be considered B2/B8 industrial.
- 1.2.1 The site has planning permission (planning ref: 15/0973/F) for the erection of a cruise liner terminal building, skills academy (Use Class D1), 477 residential units (increasing from 93) (Use Class C3), retail, restaurants and cafes and drinking establishments (Use Classes A1, A3 and A4), vehicular access with associated servicing facilities, car parking, landscaping, public realm (including improvements to the Thames Path), play spaces, infrastructure, and associated parking.
- 1.2.2 This scheme has been implemented and could be built out.
- 1.2.3 It is bound to the north by land which has planning permission for a development known as Morden Wharf, separated by a Historical Retaining Wall and light Industrial warehouses to the northeast. The river Thames bounds the site to the west along with the Thames Path walking and cycling route. The site is bound to the south by Telegraph Avenue and Telcon Way, which form the main access for all modes to the site.
- 1.2.4 South of Telegraph Avenue is a completed mixed-use development identified as Enderby Wharf, with the grade listed Enderby Public House retained and situated at the western end of Telegraph Avenue. Telegraph Avenue itself forms a non-vehicular cul-de-sac, providing pedestrian and cycle access to the Thames. The site context is shown diagrammatically in **Figure 1.1** overleaf.



Figure 1.1 Site Context Plan





1.2.5 As shown in the figure above, there are two relevant developments neighbouring the site which are summarised in **Table 1.1**.

Table 1.1 Local Planning Context

| Site | Description of development | Status |
|--|---|---|
| Morden Wharf GLA Ref: 2020/6043/S1 LPA Ref: 20/1730/O | Outline permission for demolition of most structure and phased mixed-use redevelopment comprising: up to 1,500 residential dwellings; up to 17,311sqm GIA commercial floorspace (Class A1/A2/A3/A4/B1/B1c/ B2/B8/D1/D2); Full planning permission for change of use of part of the Southern Warehouse from Class B1c/B2/B8 to B1c/B2/B8/A3/A4; refurbishment (including mezzanines) and external alterations to part of the Southern Warehouse; change of use of the Jetty to public realm and installation on the Jetty of Gloriana Boathouse (use class D1/D2); access; landscaping and public realm works including new river wall and upgraded Thames Path | Granted 16/12/2020, not implemented |
| Enderby Wharf 10/3063/F | Originally: Redevelopment of the site comprising a new jetty for cruise liners and the Thames Clipper, a Cruise Liner Terminal, a 251 room hotel with conference, restaurant ancillary facilities (Use Class C1); skills academy (Use Class D1); 770 residential units (Use Class C3); commercial (Use Class B1); a crèche (Use Class D1) a gymnasium (Use Class D2); conversion and extension of Enderby House to provide tourist, community and retail facilities (Use Classes A1, A3, A4, B1, D1 and D2); and associated works. | Originally Granted 30/04/2012 Built |

- 1.2.6 The Enderby Wharf proposals were originally a larger allocation that included the development site. Since that time, the site was disaggregated into two; Enderby Place (the development site) and Enderby Wharf (built and occupied development of some 400 flats).
- 1.2.7 The original proposal has gone through a long evolution, with the original 2012 planning application revised twice in 2014 (13/3025/NMA) and 2015 (15/0973/F), respectively. The changes comprised of reductions in parking, changes to the residential mix, and increasing the size of the cruise liner terminal building.
- 1.2.8 As stated above, the development site of Enderby Place has implemented planning permission for 477 residential units now entirely separate to what has been permitted, built, and occupied at Enderby Wharf.



Proposed Submission Site Allocations Plan 2021

- 1.2.9 The Proposed Submission Site Allocations Plan November 2021 is a Regulation 19 document for public consultation. It includes Enderby Place as 'GP1 Christchurch Way/Telegraph Avenue SE10 0AG' and cites a PTAL of 3. The draft site requirements include:
 - New riverside Public Open Space and walk, with publicly accessible and legible connections through the site to the open space/walk and on to the Thames Path.
 - Layout, scale, and massing of proposals must provide for regular gaps to ensure a visual and physical connection to the river.
 - Provision of pier for river bus services
 - Enhanced public transport via through routes for buses, in coordination with Site GP2.
- 1.2.10 RBG's Development Guidelines for GP1 include the following (our emphasis):
 - Ground floors across the site should provide active frontages. If small-scale retail/leisure/community uses are proposed, these should be orientated to face the new riverside Public Open Space and improved Thames Path and should be designed as flexible units capable of accommodating a variety of uses to animate the space and provide passive surveillance. The site is located in an area of Public Open Space deficiency, in relation to local parks. The new Public Open Space should be orientated to receive a high amount of sunlight throughout the year and be sufficiently sized to provide playable space for all ages as well as areas for sitting out, informal recreation and nature conservation.
 - It is particularly important that the layout integrates pedestrian and cycle routes with the movement network in adjacent residential development to the south and onwards to Westcombe Park and Maze Hill stations to moderate the constraints on pedestrian and cycle access via the SIL and the relatively isolated nature of the site.
 - Any tall buildings proposed should be appropriately located with sufficient gaps between buildings to create a legible cluster and to ensure good levels of daylight/sunlight at lower levels of accommodation and to public/amenity spaces.
 - The current permission includes provision for river bus services to the site. Revised proposals will be expected to incorporate provision of a pier suitable for Thames Clipper requirements, taking into account the development potential of the site and of Morden Wharf (site GP2) to the north. Proposals will need to ensure that the pier is appropriately integrated into the wider public realm of the site, and that the design of the pier supports a quality arrival experience for commuter and leisure passengers in all weather conditions.
 - There is also potential for this site, in coordination with site GP2, to accommodate bus standing which could facilitate the extension of one or more bus routes from North Greenwich Station and improve the PTAL of the site. Applicants will be expected to investigate the feasibility of the extension of bus services to improve the accessibility of the site, liaising with TfL and bus operators as appropriate.
 - Although the site has a mid-range PTAL, the site and surrounding developments include provision for walk-to services and amenities. Proposals should minimise car parking provision.



- 1.2.11 As set out above, it is recognised that the layout of any proposed development must fully integrate pedestrian and cycle routes within the design whilst also providing new public open space. Any proposals should also minimise car parking provision.
- 1.2.12 The document also confirms that applicants (in liaison with Morden wharf) will be required to investigate the feasibility of extending one or more bus routes from north Greenwich to improve the PTAL of the site. It should be noted that the policy does not set a requirement (nor does it state) that a bus route through the respective sites is a requirement of any development. Indeed, such a proposal has already been considered by the Morden Wharf applicant and was considered to be unviable at the time of that consent. The ability to reroute buses to improve the accessibility of the developments has however been explored in more detail and is set out later in this report.

1.3 Scope of the Transport Assessment

1.3.1 This TA has been prepared as a Healthy Streets TA using the best practice guidance provided by TfL dated June 2019. This has informed the structure of this document as well as the assessment methodologies which includes an Active Travel Zone (ATZ) assessment of the site and its surrounding area.

Planning Policy

- 1.3.2 This planning application has been prepared in consideration of national, regional, and local transport planning policies that are relevant to the development site including:
 - National Planning Policy Framework NPPF (2021);
 - The London Plan (2021);
 - The Mayor's Transport Strategy (2019);
 - Royal Greenwich Local Plan: Core Strategy
- 1.3.3 A summary of the relevant planning policies and standards for the proposed development site is provided in **Appendix C**.

1.4 Other Documents

- 1.4.1 In addition to this Healthy Streets TA, the following transport documents have also been prepared and should be read in conjunction with this report:
 - 22181-MA-DR-TP01 Framework Site Travel Plan
 - 22181-MA-DR-DSMP01 Framework Site Delivery and Servicing Management Plan
 - 22181-MA-DR-OWMP Framework Operational Waste Management Plan
 - 22181-MA-DR-SWMP01 Framework Construction Site Waste Management Plan
 - 22181-MA-DR-PMP01 Framework Parking Management Plan
- 1.4.2 In addition, Avison Young have prepared an EIA assessment.



1.5 Supporting Healthy Streets, Vision Zero & the MTS

1.5.1 The development has been designed to support the strategic priorities of the Mayor in terms of Healthy Streets, Vision Zero and the Mayor's Transport Strategy (MTS). **Table 1.2** provides a summary of the primary design components and considerations relevant to these strategic objectives.

| | | | Objectiv | es |
|---|---|-----|--------------------|----------------|
| Design Principle | Description | MTS | Healthy Streets | Vision Zero |
| Development within high PTAL area | The proposed development is in a low PTAL area at present, but extensive redevelopment in the immediate vicinity of the site and at the site itself will improve the PTAL score and ensure that the site benefits from good access by active modes to local facilities. In addition, the local plan has allocated this site for this type of development. | ~ | | |
| Car-free development | The development will meet the London Plan 2021 standards for car-free development | ~ | ✓ | ~ |
| Servicing Strategy | The development has been designed with limited servicing access, utilising the existing servicing strategy. | | ✓ | ~ |
| Active Frontages | A significant proportion of the ground floor of both buildings provide active frontage and spaces for people with things to see and do. | | ~ | |
| Reducing vehicle trips | The development will be car-free excepting blue badge parking and will support improvements to public transport. | ~ | ~ | ~ |
| Sustainable freight | The design has considered opportunities for encouraging sustainable freight, utilising existing provision for cargo bikes and e-delivery vehicles | | ~ | |

Table 1.2 Supporting Strategic Transport Objectives

1.6 Report Structure

- 1.6.1 The remainder of this Healthy Streets Transport Assessment, for which this chapter has provided an introduction, is structured as follows:
 - **Chapter 2** provides an overview of the Site and its surroundings.
 - **Chapter 3** covers information on transport planning for people,
 - **Chapter 4** outlines the Active Travel Zone (ATZ) in relation to the site.
 - Chapter 5 provides details of the London-wide network in relation to the site, including details of the trip generation characteristics of the development and design solutions.
 - **Chapter 6** provides a summary of the key transport impacts/issues and the solutions/mechanisms and concluding remarks.



2. Transport Planning for People

2.1 Overview

2.1.1 This section provides details of the proposed development, including details on who the development is for, when they will travel there and why. As mentioned, the proposals comprise 564 residential units and 1,453 sqm (gross internal area) of commercial floorspace with associated works including access, car and cycle parking, landscaping, amenity space and refuse storage.

2.2 New Development Users

- 2.2.1 The proposed development has the potential to influence how people choose to travel because the site is located within close proximity to public transport and local amenities, as described later in this report.
- 2.2.2 The development has been designed predominantly for residential (C3) use. The users will therefore be residents and visitors accessing the site. It is anticipated that the majority of site users will follow typical work patterns, travelling to and from the site on weekdays with a concentration of departure trips during AM peak periods (07:00-10:00) and arrivals during PM peak periods (16:00-19:00).
- 2.2.3 The commercial uses (light industrial and community use/café) are expected to follow similar travel patterns in terms of peak time travel, with the community and café uses expected to be ancillary to the development in the local area and generating pass-by or linked trips from residents of the new development or those living and/or working in the local area.
- 2.2.4 In order to identify the transport needs of the site's typical user, as well as of people already living in the area, the Transport Classification of Londoners (TCoL) demographic segments have been referenced in order to identify the TCoL segment users of the site would most likely fall into. Greenwich is characterised by high level of representation amongst the 'Suburban Moderation' and 'Detached Retirement' segments.
- 2.2.5 The suburban moderation segment is characterised by families with children, high car and some bus mode share and an average level of propensity to change. The detached retirement segment is characterised by retirees without children, high car usage and a low propensity to change.
- 2.2.6 However, given the location of the development with its proximity to public transport and the flatted nature of the dwellings, it is likely that other classifications such as Affordable Transitions, Educational Advantage, or Urban Mobility, become part of the demographic, which is ultimately the driver of many large-scale urban developments such as this. All of which generally have lower car ownership and also an above average propensity to change travel behaviour to more active modes.



2.2.7 This TA will therefore demonstrate how the proposed development will ensure that these users will have their transport needs met and further encourage change of travel behaviours through development concepts and design measures.

2.3 Development Proposals in Detail

Use and Mix

- 2.3.1 The development proposals are for the erection of part-3, part-23, part-35 storey buildings, providing up to 564 residential apartments (Class C3), light industrial use (Class B1), and associated highways, landscaping and public realm works. The site layout is included in **Appendix A**.
- 2.3.2 The schedule of accommodation is summarised in **Table 2.1** below.

| Residential | | | | |
|----------------------|-----------|-----------------|--------------------|--|
| | Unit Size | Number of Units | Number of Bedrooms | |
| 1-bed | 1B2P | 282 | 282 | |
| 2-bed | 2B3P | 87 | 408 | |
| | 2B4P | 117 | | |
| 3-bed | 3B5P | 70 | 210 | |
| 4-bed | 4B6P | 8 | 32 | |
| Total | | 564 | 932 | |
| Commercial | | | | |
| Use Class Size (GIA) | | | | |
| B1 Light Industrial | | 1,4 | 145 sqm | |

Table 2.1 Schedule of Accommodation

Access

- 2.3.3 All vehicle access will be taken from Telcon Way, including all servicing and delivery movements. Speeds and movements are expected to be limited therefore to operational demand only and 10mph. Swept path of the proposed parking area has been undertaken and is included as Drawing 22181-MA-XX-XX-DR-C-7051 and 22181-MA-XX-XX-DR-C-7052.
- 2.3.4 Active travel access will be taken from numerous points via footways and cycling along Telcon Way, with cycle access to the podium cycle parking areas (more detail given below), and to/from the Thames Path, which forms the western boundary of the site. A pedestrian/cycle link has also been designed into the development to connect to Morden Wharf to the north as that site comes forward in due course. It is also expected that the Morden Wharf development will deliver improvements and widening to the Thames Path at its boundary, allowing improved access to the north of the peninsula.



Parking

- 2.3.5 The site will be car free as per the local plan allocation, and as per pre-application consultation with the relevant authorities. It will provide 3% disabled parking provision for the residential only, plus a maximum of 2 disabled parking bays for the commercial uses. All vehicle parking will be located at lower ground/podium level, accessed from Telcon Way. A total of 20 blue badge spaces will be provided.
- 2.3.6 Long-stay cycle parking will also be accommodated at lower/ground podium level within a number of separate stores. Visitor cycle parking will be within allocated locations within the podium or within the public realm. The total proposed cycle parking is as per the London Plan 2021 requirements as follows:

Residential:

- 987 long-stay (of which 49 adapted cycle parking spaces)
- 27 visitor spaces

Commercial:

- 10 long-stay
- 2 visitor spaces

Public Transport Interventions

2.3.7 As per the local plan allocation:

Applicants will be expected to investigate the feasibility of the extension of bus services to improve the accessibility of the site, liaising with TfL and bus operators as appropriate.

- 2.3.8 This has, through consultation with stakeholders, established a range of options. Morden Wharf's S106 sets out commitments to the delivery of a turning head and bus standing at an early phase of implementation, to allow the diversion/extension of a bus service of a regular frequency of not less than 2 per hour.
- 2.3.9 TfL have not confirmed which bus services may be diverted, although the Morden Wharf documents have assumed loadings onto the 108 service in all assessment as the nearest bus route existing to the development.
- 2.3.10 The consultation with stakeholders to date has assumed that a service frequency of 4 per hour should be sought, served by double-decker buses connecting from North Greenwich. As summarised above, all work published to date by Morden Wharf in respect of transport assessment states that due to the significant change in levels, the provision of a through access to Enderby Place was discounted. This conclusion was revisited as part of the design development for these proposals and the same conclusion was reached.
- 2.3.11 In consultation with stakeholders and to accord with the aspirations of GP1, MA have set out bus rerouting options utilising Telcon Way, which can be delivered along existing



infrastructure and which could be supported by the proposed Silvertown Tunnel amendments to Tunnel Avenue, avoiding the necessity for buses to route along Blackwall Lane.

- 2.3.12 In all options, buses would route along Christchurch Avenue, which although private in some sections, TfL have confirmed would be acceptable to the land owner and would allow for improved bus access to Enderby Wharf.
- 2.3.13 Technical Notes relating to bus access and the extensive optioneering work undertaken are included as **Appendix B**.
- 2.3.14 The development will also safeguard and make proportionate contribution to the delivery of the new Thames Clipper pier, which will sit at the northern boundary of the site, but primarily within land owned by Morden Wharf.

Waste Storage

2.3.15 Waste stores are segregated and provided at lower ground/podium level, near to cores for ease of access for residents and employees. A separate Delivery and Servicing Management Plan and an Operational Waste Management Plan have also been prepared, which provide the details of waste management for the development.



3. Existing Conditions

3.1 Overview

3.1.1 This section of the report provides details of the site as existing, access arrangement and accessibility by all modes.

3.2 Active Travel Environment

Pedestrian

3.2.1 The local pedestrian environment is of good quality and offers access to many local amenities, as well as various modes of public transport. Facilitating and encouraging access to and from the site by walking as a primary mode to and from local amenities is a fundamental aspect of the accompanying Travel Plan.

Cycle

- 3.2.2 The site benefits from proximity to the Strategic Cycle Network, which is located a short distance to the south, and which bisects the Greenwich peninsula.
- 3.2.3 Locally, there is an evolving network of other cycle paths, including the Olympian Way foot and cycle link along the bank of the Thames via Enderby Wharf, providing an off-road cycle connection from Cutty Sark up to the O2 Arena, and proceeding east as far as Erith via other Thames-side cycle connections.
- 3.2.4 Further details of the pedestrian and cycle accessibility of the local area are given in Section4. A plan showing the extent of the active travel network is included overleaf as Figure 3.1.



Figure 3.1 Active Travel Network





3.3 Public Transport Accessibility Level (PTAL)

3.3.1 Public Transport Accessibility Level (PTAL) provides a measure of accessibility of a given point to the public transport network, considering walking time to a public transport node, service accessibility, service quality and frequency. The PTAL measure ranges between 0 and 6b, with 0 indicating the areas with the lowest accessibility to public transport and 6b the areas with the highest accessibility to public transport. The PTAL reports are included as **Appendix D** and show overall low PTALs. These notwithstanding, the site is an allocation within the Local Plan and it has been agreed that it should adopt the principles of car-free sustainable development.

Limitations of the PTAL Assessment

- 3.3.2 The PTAL calculation assumes that people will walk up to 640m (approximately 8-minutes) to a bus service and up to 960m (12-minutes) to a rail or Tube service (assuming 4.8km/h). Public transport notes beyond the threshold, even by a matter of centimetre, are assumed by the algorithm not to exist. It also maps walking routes upon the road network only, and pedestrian links such as footpaths or cycle connections are usually omitted.
- 3.3.3 PTAL scores are shown in WebCAT as a grid of squares where each side of each square is 100m, and the PTAL score shown is calculated from the point in the centre of the square, regardless of other variables such as where accesses are situated. The PTAL score is based on the average frequency of services between 08:15 and 09:15 during the morning weekday peak and only the nearest node is included in the assessment for each unique public transport service available. Factoring in scheduled and average waiting times, the Access Index (AI) is calculated for each grid and converted to PTAL using the bands shown in **Figure 3.2**.



| PTAL | Access Index range | Map colour |
|-----------|--------------------|------------|
| 0 (worst) | 0 | |
| la | 0.01 – 2.50 | |
| lb | 2.51 – 5.0 | |
| 2 | 5.01 – 10.0 | |
| 3 | 10.01 – 15.0 | |
| 4 | 15.01 – 20.0 | |
| 5 | 20.01 – 25.0 | |
| 6a | 25.01 - 40.0 | |
| 6b (best) | 40.01+ | |

Figure 3.2 Conversion of AI to PTAL¹

Source: TfL

3.3.4 The numeric scores are subsequently also graded qualitatively as follows:

- 0 = No PTAL
- 1a = Very Poor
- 1b = Very Poor
- 2 = Poor
- 3 = Moderate
- 4 = Good
- 5 = Very Good
- 6a = Excellent
- 6b = Excellent

Existing WebCAT Outputs – Base Year

3.3.5 The existing WebCAT PTAL scores across the three sites in the base year scenario are illustrated in **Figure 3.3** below, with the full output report for each grid included in **Appendix D**.

¹ Source: <u>https://content.tfl.gov.uk/connectivity-assessment-guide.pdf</u> (Table 2.2)





Figure 3.3 WebCAT Output – Base Year

Source: TfL WebCAT² & MA QGIS

3.3.6 **Figure 3.3** demonstrates that the Enderby Place and Enderby Wharf sites have a combination of scores of 1a and 2 and the Morden Wharf site has a range from 0 (no score) to 2 in the base year. Overall, the TfL WebCAT PTAL shows a very poor to poor score.

Existing WebCAT Outputs – 2031

3.3.7 The PTAL scores for the sites in the WebCAT 2031 forecast scenario, in which bus services are based on a 3% uplift in frequencies from the base year network, are illustrated in **Figure 3.4**.

² <u>https://tfl.gov.uk/info-for/urban-planning-and-construction/planning-with-webcat/webcat</u>





Figure 3.4 WebCAT Output – 2031 Forecast

Source: TfL WebCAT & MA QGIS

3.3.8 **Figure 3.4** demonstrates that the WebCAT tool predicts no improvement to the PTAL scores in the 2031 forecast year on the basis of a small uplift in bus services (i.e., without implementation of schemes such as the Morden Wharf and Enderby Place developments).

Manual Calculation of Existing PTAL (Validation)

- 3.3.9 TfL WebCAT PTAL algorithms (including those for future years) can include inaccuracies as the data sets from which it draws are not always reflective of on-site conditions. Bus stops may have been moved or closed, services have recently been amended which may not be reflected yet in the database, and most commonly, routes to public transport nodes are based on the vehicle road network only, excluding walking routes to services which could shorten walk distances and affect the PTAL score. Therefore, a validation has been run of the calculations of the existing situation which can be found in **Appendix E.**
- 3.3.10 Therefore, the manual calculation of the PTAL rating for the three sites based on the existing operational bus stops and services within 640m walking distance (as per **Table 3.1**) has been localised. It includes the network of new footpaths through the Enderby Wharf site and the assumed principal pedestrian connections through the Enderby Place and Morden Wharf sites which are shown in **Figure 3.5**.





Figure 3.5 Network of Footpaths Through Sites

Source: MA QGIS

3.3.11 Furthermore, rather than calculating the walking distances from the centre point of each square in the grid, the walking distances for the manual PTAL calculation have been taken from a central point within the site boundary within the grid, to reflect a more representative walking distance for the site users. This is illustrated in **Figure 3.6** below.





Figure 3.6 Baseline Manual PTAL Calculation

Source: MA QGIS

3.3.12 **Figure 3.6** demonstrates that the baseline PTAL score manually calculated for each site is higher that the TfL WebCAT score in a number of grids, particularly within the Morden Wharf site. The only grid with the lowest score of 1a is within the south-eastern side Morden Wharf site as the walking distance has been calculated assuming no through-route into the Enderby Place site to the south.

3.4 Bus Network

3.4.1 The existing TfL bus stops and local bus routes that operate in the vicinity of the sites are illustrated in **Figure 3.7** below. These services are all captured within the PTAL walk distance. It should be noted that bus stops and routeing are subject to change and the details below are given as available via TfL's journey planning tool as of October 2023; however, this includes some temporary diversions and bus stop closures due to the Silvertown Tunnel and other adjacent development works. These are expected to be reinstated in due course.







3.4.2 Bus Stops Morden Wharf Road and Blackwall Lane Stop MU on Tunnel Avenue are temporarily out of service. The frequency and route for the associated local bus routes is otherwise given in **Table 3.1** below.



| Douto | Divertieve | Pea | k Hour Frequer | псу | Weekday Services | |
|-------|---|-----------|----------------|--------------|------------------|---------|
| Route | Direction | Weekday | Saturday | Sunday | First | Last |
| 108 | Stratford International (Stop MU) | 7-11 mins | 9-12 mins | 2-4 per hour | 24-hour | service |
| | Lewisham (Stop MW) | 9-12 mins | 8-12 mins | 2-4 per hour | | |
| | Russell Square (Stop MP) | 8-12 mins | 8-12 mins | 9-13 mins | 24-hour service | |
| 188 | North Greenwich (Stop MQ) | 8-12 mins | 9-13 mins | 10-14 mins | | |
| | North Greenwich (Stop MQ) | 9-12 mins | 9-12 mins | 10-13 mins | 04:42 | 00:50 |
| 422 | North Greenwich (Stop MN) | 9-12 mins | 9-12 mins | 11-13 mins | 05:02 | 01:12 |

Table 3.1Local Bus Services

- 3.4.3 The 108 service is restricted to a single-decker bus due to routeing through the Blackwall Tunnel, which is too low for double-decker vehicles.
- 3.4.4 Additional services are also available from North Greenwich Station to the wider area, including the 129, 132, 161, 180, 335, 472 and 486 bus services, with destinations including Tottenham Court Road, Lewisham, and Stratford International.

3.5 Rail & Underground Services

- 3.5.1 The nearest railway station is located at North Greenwich, approximately 2.5km to the northeast, or a 7-minute cycle ride. The station is also accessible via bus using the 188 service from Tunnel Avenue Stop MQ northbound. Bus stop Tunnel Avenue (Stop MP) in the southbound direction is temporarily closed at the time of writing; it is understood that this is likely to be due to the age of the bus stop facility and the closure of the adjacent building, which is a committed development site with planning permission for redevelopment expected to be implemented shortly. It is expected that this bus stop will be reinstated in due course. In the interim, southbound passengers can alight at Christ Church Primary School (Stop MR).
- 3.5.2 North Greenwich Station is a London Underground Line station served by the Jubilee Line, which benefits from frequent peak hour services between Stanmore and Stratford via central London, as well as Night tube services.



- 3.5.3 Some of the key stations on the jubilee line, and the length of time it takes to reach them are listed below:
 - Stanmore (far western station) 53 minutes
 - Waterloo 12 minutes
 - London Bridge 9 minutes
 - Canary Wharf 2 minutes
 - Stratford (far eastern station) 9 minutes
- 3.5.4 Both Maze Hill and Westcombe Park stations are located approximately 1.5km south of the site (20 minute walk or 10 minute cycle). The bus journey to Trafalgar Road/Maze Hill bus stop using the 188 service takes 5 minutes, followed by a 250m walk to reach the station. The 422 service can be used to access Westcombe Park via the Westcombe Park Station Stop B bus stop followed by a 200m walk.
- 3.5.5 Both stations are served by Southeastern Rail and Thameslink trains and benefit from cycle parking. Each station is served by:
 - 2 trains per hour to London Cannon Street
 - 2 trains per hour to Luton
 - 2 trains per hour to Barnehurst, returning to London Cannon Street via Bexleyheath and Lewisham
 - 2 trains per hour to Rainham via Chatham
- 3.5.6 During the peak hours, the station is served by an additional half-hourly circular service to and from London Cannon Street via Sidcup and Lewisham in the clockwise direction and direct to London Bridge anticlockwise, for a total of 10 trains at peak hour.
- 3.5.7 The locations of all stations and piers are included in **Figure 3.7** above.

3.6 Local Facilities

- 3.6.1 The site is well located in terms of access to existing and future facilities, with the proposals for the site also comprising a mix of uses, including employment and leisure.
- 3.6.2 A plan showing a 15-minute walking isochrone and facilities within reach of the site is included as **Figure 3.8**.







3.7 Highway Network

- 3.7.1 At the local level, the site is bound to the south by Telegraph Avenue, a private road with no general access to vehicles, which forms a pedestrian and cycle connection from the public highway to the Thames Path via the northern edge of the Enderby Wharf development. The built form of Enderby Wharf over sails Telegraph Avenue in some locations, precluding tall vehicle access, excepting some emergency vehicles.
- 3.7.2 Telegraph avenue junctions with Christchurch Way and Telcon Way at a simple priority junction. Christchurch Way functionally forms a continuation of Telcon Way connecting south to the A206. Christchurch Way is a single-carriageway road, primarily residential, which for most of its length is adopted public highway subject to on-street parking in marked bays on each side of the road. This parking falls within Permit Holder Zone EG, operational Monday-Sunday between 09:00 and 20:00, with some Pay & Display spaces with a maximum stay of 2 hours. Between Attwood Lane and Telcon Way, Christchurch Road is a narrow, private access road.
- 3.7.3 Telcon Way is a single-carriageway two-way street connecting the site to the east to Blackwall Lane/Tunnel Avenue. It is subject to parking controls in the form of double yellow lining and forms the northern boundary of Enderby Wharf and the eastern boundary of the site. Footways are wide and in good condition, and the road is subject to a 10mph speed limit.



- 3.7.4 The junction of Telcon Way/Blackwall Lane forms a priority box junction, with a dedicated right hand turn lane into Telcon Way from Blackwall Lane southbound. The junction is approximately 50m south of the complex box signal junction of Blackwall Lane/Tunnel Avenue/A102 slipway.
- 3.7.5 Tunnel Avenue is a single-carriageway road connecting Blackwall Lane and Drawdock Road, and which runs parallel to the northbound carriageway of Blackwall Lane for its entire length. The footway on the western side of Tunnel Avenue is wide at some 5-6m and supports a shared foot-cycle connection and two bus stops with shelters, which until recently were served by the 108-bus route. At the time of writing there are works along Tunnel Avenue, particularly at the northern end, which are associated with adjacent development and/or the Silvertown Tunnel. Tunnel Avenue is not continuous for vehicle traffic, with as section of some 150m requiring diversion onto the A102; however, this is expected to be connected as part of the Silvertown Tunnel works.



4. Active Travel Zone Assessment

4.1 Preamble

- 4.1.1 This section of the report outlines the accessibility of the site in terms of walking and cycling, as well as assessing the key routes between the site and the most likely trip generators by active modes. It also examines the site in the context of the local area and its access to services, including local greenspace, and the permeability of local road.
- 4.1.2 This assessment has been undertaken in accordance with the latest TfL Transport Assessment guidance dated June 2019.

4.2 The Active Travel Zone

- 4.2.1 The Active Travel Zone (ATZ) represents an area that is inclusive of all destination which can be reached within a 20-minute cycle from the site, including public transport access points, cycle infrastructure and key land uses such as schools, health centres and places of worship.
- 4.2.2 **Figure 4.1** illustrates the ATZ which is based on a 20-minute cycle from the site and indicates the location of London Underground and railway stations, bus stops and cycle routes within with the ATZ.

Figure 4.1 Extent of Active Travel Zone





4.3 **Potential Key Active Travel Destinations**

- 4.3.1 The site benefits from being located within close proximity to a range of social infrastructure that act as typical trip attractors for residential use, including education, food retail, leisure and health land uses, ensuring residents would not be wholly reliant on travel by private car to access essential goods and services.
- 4.3.2 **Table 4.1** classifies the key destinations from low to high priority in terms of active travel and the likelihood of users of the proposed development travelling to other key destinations from the development.

| Key Destination | Priority | Justification |
|--------------------------|----------|--|
| Rail Station | High | The travel mode share for people travelling to and from the proposed development is high (45% London Underground and National Rail combined) and therefore rail stations would be key destinations and are therefore classified as high priority. |
| Bus Stops | High | High bus mode share for people travelling to and from the proposed development (20%). Therefore, bus stops would be key destinations and are classified with high priority. |
| Town Centre | High | Given the proximity of the town centre to the site, and the range of services and amenities offered there, the town centre has been considered a high priority destination as it is likely to attract a significant number of trips from the development. |
| Supermarkets | High | Local supermarkets and other food stores will be a necessity for residents of the proposed development, thereby justifying their high priority classification. |
| Schools | Medium | The development is comprised of 564 residential dwellings of mixed sizes, including larger 5-person family units. It is likely therefore that some of these units will be occupied by residents with school-age children. The medium priority has been awarded to schools as not all flats may have children that need to travel to school. |
| Parks and Open Spaces | Medium | As the development does not offer a significant amenity space for residents, they may wish to go to a nearby park or open space on a nice day, particularly if they have children. Parks or open spaces have therefore been classified as a medium priority. |

Table 4.1 Classification of Key Destinations in the ATZ



| Key Destination | Priority | Justification |
|-----------------------------------|----------|---|
| Medical Centres | Medium | Over time, it is likely that residents at the development will need to visit a medical centre, be it a GP surgery or pharmacy. Given the anticipated demographics thought to inhabit the development (young - middle-aged couples, possibly with children), it is not envisioned that medical centres will be a daily requirement for most residents, so they have been classified as a medium priority |
| Leisure Centres | Low | Some residents at the development may wish to join a leisure centre, but this facility is unlikely to be a necessity for most residents. Therefore, leisure centres have been classified as a low priority. |
| Places of Worship | Low | Some residents at the development may wish to visit a place of worship, but this facility is unlikely to be a necessity for most residents. Therefore, places of worship have been classified as a low priority. |
| Higher Education Facilities | Low | Some residents at the development may attend higher education facilities but given the demographic of people thought to be living in the development, it is not thought that higher education facilities would comprise a significant share of residential trips. Therefore, higher education facilities have been classified as a low priority. |

4.3.3 As outlined above, considering the proposed use of the site, this assessment has excluded the destinations considered as low priority unless otherwise justified as they are not deemed relevant or likely destinations for the users of the development.

4.4 Neighbourhood Active Travel Destinations

4.4.1 This section identifies what are considered to be the most important routes from the proposed development site within the immediate development. In the case of the proposed development the prioritised routes are described in **Table 4.2**.



Table 4.2Prioritised Routes

| Destination | Justification |
|---|---|
| Blackwall Lane Bus Stops | This is the nearest bus stops to the site which provide bus connection to Underground services. |
| North Greenwich London Underground Station | This station provides key connections to the wider area, including central London. |
| Christ Church C of E Primary School | This is the nearest primary school to the site. |
| Southern Park | This is one of the nearby public open green spaces. |
| Trafalgar Road Retail Area | The is nearest area of retail amenities to the site, including supermarkets e.g., Tesco Express, via connection to the Strategic Cycle Network. |

- 4.4.2 An active travel zone assessment was conducted on Tuesday 24 October 2023 along with five pre-determined routes within the neighbourhood area. These routes linked the site with the key destination identified earlier in this report and include the following:
 - Route 1 Site to Blackwall Lane Bus Stops
 - Route 2 Site to North Greenwich Station
 - Route 3 Site to Millenium Primary School
 - Route 4 Site to Southern Park
 - Route 5 Site to Trafalgar Road Retail Area (via Strategic Cycle Network)
- 4.4.3 The results of each Key Route Assessment are described further in this chapter. For each Key Route, a photographic survey has been undertaken with key points of note identified alongside an assessment of these elements against the Healthy Streets indicators. The assessor has walked each route, taking a photograph every 150m or where relevant. The worst part of each journey has been identified for both routes, which also provides a brief description as to why the area shown in the related photograph does not meet each of the Healthy Street indicators 3-10, along with measures that could be adopted to improve this situation.
- 4.4.4 **Figure 4.2** illustrates the five routes to the facilities outlined above.





Figure 4.2 Neighbourhood Active Travel Zone



4.5 Vision Zero Analysis

- 4.5.1 The Mayor's Transport Strategy is committed to Vision Zero to end deaths and serious injury on London roads and transport networks. The strategy sets out the goal that, by 2041, all deaths and serious injuries would be eliminated from London's roads and transport network.
- 4.5.2 Within the vicinity of the site, casualty data obtained from TfL's London Collision Map for the 5-year period 2014-2018 has been obtained. A review of those casualties has been undertaken to determine the number of incidents which has resulted in people being killed or seriously injured (KSI) on the important walking and cycling routes illustrated in **Figure 4.3**.
- 4.5.3 This review also aims to identify whether there are any routes where there appears to be a clustering of KSI casualties. A cluster is defined as two or more serious casualties, or one or more fatal casualties.
- 4.5.4 Of the KSI casualties within proximity to the site, the figure demonstrates that there have been no fatal crashes within the vicinity of the site in the past 5 years. Therefore, there have only been serious crashes.
- 4.5.5 **Figure 4.3** highlights that there is only one cluster of KSI's located along Blackwall Lane at the junction with Tunnel Avenue.



Figure 4.3 KSI by Severity





- 4.5.6 The Blackwall Lane / Tunnel Avenue is a priority junction whereby Blackwall Lane is the major arm and Tunnel Avenue the minor arm. There are 'Keep Clear' white line road markings on Blackwall Lane. The 'cluster' of two collisions at this location have the following characteristics:
 - Collisions occurred in 2020 and 2021.
 - The collision in 2020 involved one casualty driving a powered 2-wheeler.
 - The collision in 2021 involved one casualty driving a powered 2-wheeler.
- 4.5.7 There is no evident cause for the cluster beyond rider error, although there is some potential for conflict with vehicles pulling into / out of the junction while traffic is queuing at the pedestrian crossings to the north and south alongside powered 2-wheelers trying to jump ahead of the queues. This is unavoidable as the signals are called when pedestrians press the button.

4.6 Assessment of ATZ Routes

Route 1 – Site to Blackwall Lane Bus Stops



1. Telcon Way

2. Blackwall Lane

Table 4.3Worst Part of Route 1 (Photo 2)

| Healthy Streets Indicator | Comments |
|------------------------------|---|
| Easy to Cross | There are signalised pedestrian crossings <100m to the north and <30m south of the bus stops, aiding pedestrians crossings Blackwall Lane which is a moderately trafficked road. |
| People Feel Safe | This area supports active frontages from the apartments along Blackwall Lane, and the area is well lit and there are bus stops, which improve the sense of surveillance. |
| Things to See and Do | Is it predominantly residential apartments along Blackwall Lane, however, there is the Meantime Brewery and Visitor Centre just to the south of the bus stops, a gym <500m south of the bus stops and it is a short walk to Trafalgar Road where there is a host of retail opportunities. |
| Places to Stop and Rest | There are no formal places to stop and rest along the Telcon Way, although, the bus stops on Blackwall Lane have benches that people can rest on. |


| Healthy Streets Indicator | Comments | | | | | |
|------------------------------|--|--|--|--|--|--|
| People Feel Relaxed | The route is largely residential, lit, and subject to passive surveillance. There is soft landscaping and no signs of vandalism. | | | | | |
| Not Too Noisy | The A2203 is a busy road along which are buses which generates a degree of road noise that is difficult to mitigate. However, TfL bus fleet is increasingly electric or hybrid, which cuts engine noise. | | | | | |
| Clean Air | The area benefits from green landscaping, including some mature trees and shrubs; however, the A2203 remains a busy road which impacts on air quality. | | | | | |
| Shade and Shelter | The route benefits from soft landscaping including trees which provide intermittent shade and shelter. | | | | | |

Route 2 – Site to North Greenwich Station



1. Telcon Way



2. Blackwall Lane (north of Salutation Road)



3. Blackwall Lane (south of roundabout)



4. Millenium Way (north of roundabout)





5. Millenium Way (south of Old School Close)



6. Millenium Way (at Bond Street)



7. Millenium Way (alongside the O2 Car Park 1)



8. Millenium Way (alongside the O2 Car Park 1)



9. Edmund Halley Way



11. North Greenwich Station



10. Millenium Way (north of Edmund Halley Way)



Table 4.4Worst Part of Route 2 (Photo 6)

| Healthy Streets Indicator | Comments |
|------------------------------|--|
| Easy to Cross | There are signalised and dropped kerb crossings at appropriate locations following desire lines along Route 2 at Blackwall Lane and Millenium Way which are moderately trafficked roads. |
| People Feel Safe | There is minimal active frontage along Millenium Way at present as the area is currently undergoing extensive redevelopment. This will therefore be improved in the future once the development is completed. The A102 underpass may make some people uncomfortable, particularly in hours of darkness. |
| Things to See and Do | At present as the area is undergoing extensive redevelopment, therefore, currently there is little to see or do but this is expected to change in the near future. |
| Places to Stop and Rest | There are no formal spaces to stop and rest at the point of Photo 6 but there are concrete blocks, bus stops with benches nearby and walls against which a person could stop and lean or pause. |
| People Feel Relaxed | The route is well lit with soft landscaping and appropriately wide footways contributing to a relatively pleasant environment. Whilst the area is undergoing redevelopment, there is a lot of hoarding along Millenium Way which can be subject to vandalism, such as at the location of Photo 6. |
| Not Too Noisy | Millenium Way is moderately trafficked with two lanes of traffic in each direction and somewhat noisy as a result. |
| Clean Air | The area benefits from green landscaping, including mature trees and shrubs; however, Millenium Way is moderately trafficked which impacts on air quality. |
| Shade and Shelter | The route benefits from soft landscaping including trees, and intermitted bus stops which provide intermittent shade and shelter. |

Route 3 – Site to Millenium Primary School



1. Telcon Way

2. Blackwall Lane (at bus stops)





3. Blackwall Lane (at Azof Street)

4. Blackwall Lane (at primary school)

Table 4.5Worst Part of Route 3 (Photo 3)

| Healthy Streets Indicator | Comments |
|------------------------------|--|
| Easy to Cross | There is signalised pedestrian crossings <100m to the north and south of the primary school respectively, aiding pedestrians crossings Blackwall Lane which is a moderately trafficked road. |
| People Feel Safe | This area supports active frontages from the apartments along Blackwall Lane, and the area is well lit and there are bus stops, which improve the sense of surveillance. |
| Things to See and Do | Is it predominantly residential apartments along Blackwall Lane, however, there is the Meantime Brewery and Visitor Centre just to the south of the bus stops, a gym <200m south of the bus stops and it is a short walk to Trafalgar Road where there is a host of retail opportunities. |
| Places to Stop and Rest | There are no formal places to stop and rest along the Telcon Way, although, the bus stops on Blackwall Lane have benches that people can rest on. |
| People Feel Relaxed | The route is largely residential, lit, and subject to passive surveillance. There is soft landscaping and no signs of vandalism. |
| Not Too Noisy | The A2203 is a busy road along which are buses which generates a degree of road noise that is difficult to mitigate. However, TfL bus fleet is increasingly electric or hybrid, which cuts engine noise. |
| Clean Air | The area benefits from green landscaping, including some mature trees and shrubs; however, the A2203 remains a busy road which impacts on air quality. |
| Shade and Shelter | The route benefits from soft landscaping including trees which provide intermittent shade and shelter. |



Route 4 – Site to Southern Park







2. Blackwall Lane (north of Salutation Road)



3. Blackwall Lane (at A102)



4. Bugsbuy's Way



5. Schoolbank Road (west of Moseley Row)



6. Schoolbank Road (at School Square)





7. West Parkside

Table 4.6Worst Part of Route 4 (Photo 2)

| Healthy Streets Indicator | Comments |
|------------------------------|--|
| Easy to Cross | There are signalised pedestrian crossings on each arm of the Blackwall Lane / Tunnel Avenue junction at the A102 underpass, including the on and off-slips to the A102 and at Bugsby's Way. |
| People Feel Safe | There is minimal active frontage along this route as it follows heavily trafficked routes and junctions which are lined by shrubs and mature trees, with the exception of Schoolbank Road. The A102 underpass may make some people uncomfortable, particularly in hours of darkness. |
| Things to See and Do | This route as it follows heavily trafficked routes and junctions which has limited active frontages and amenities, with the exception of School Square along Schoolbank Road which has a pedestrianised plaza space. |
| Places to Stop and Rest | There are no formal places to stop and rest along Blackwall Lane and Bugsbuy's Way, however, at School Square there are seating opportunities on low walls and steps and shade from trees. |
| People Feel Relaxed | At the A102 underpass it is dark and prone to vandalism. However, Along Schoolbank Road, the route is largely residential, lit, and subject to passive surveillance. There is soft landscaping and no signs of vandalism. |
| Not Too Noisy | The Blackwall Lane / Tunnel Avenue junction at the A102 is busy and prone to congestion, however, the remainder of the route is low-moderately trafficked and not too noisy, especially Schoolbank Road which is residential and part-pedestrianised. |
| Clean Air | The area benefits from green landscaping, including some mature trees and shrubs; however, the A2203 remains a busy road which impacts on air quality. |
| Shade and Shelter | The route benefits from soft landscaping including trees which provide intermittent shade and shelter. Furthermore, the A102 underpass provides both shade and shelter. |



Route 5 – Site to Trafalgar Road Retail Area (via Strategic Cycle Network)







2. Christchurch Way (north of Derwent Street)



3. Christchurch Way (at Pelton Road)



4. Christchurch Way (north of Trafalgar Road)

Table 4.7 Worst Part of Route 5 (Photo 1)

| Healthy Streets Indicator | Comments |
|------------------------------|--|
| Easy to Cross | There is traffic calming in place which reduces vehicle speeds. Christchurch Way has been subject to upgrading works between Telcon Way and Manilla Walk as part of the Enderby Wharf Development. However, the road surface is uneven in areas further south and poor drainage has caused water / mud and leaves to pool, as seen in Photo 1. |
| People Feel Safe | It is a quiet residential neighbourhood with natural surveillance from the overlooking properties and street lighting. |
| Things to See and Do | This route is within a residential neighbourhood, but it is a short walk to Trafalgar Road (<650m) where there is a host of retail opportunities. There is also a Sainsbury's Local between Banning Street and Derwent Street. |



| Healthy Streets Indicator | Comments |
|------------------------------|---|
| Places to Stop and Rest | There are no formal spaces to stop and rest along this route, but there are benches within the Enderby Wharf development that the route passes and walls against which a person could stop and lean or pause. |
| People Feel Relaxed | The route is residential in nature, therefore, there is not heavy vehicular traffic, has well maintained greenery and street lighting which contributes to a relaxing environment. |
| Not Too Noisy | The route is in a residential area, therefore, lightly trafficked and there is minimal noise. |
| Clean Air | The area benefits from green landscaping, including some mature trees and shrubs; however, the A2203 remains a busy road which impacts on air quality. |
| Shade and Shelter | There are trees along this route which overhang the footway, providing a level of shade and shelter for pedestrians. |

4.7 Summary and Conclusions

- 4.7.1 Five routes have been assessed in accordance with ATZ guidance, to key destinations relevant to the site, and suggestions have been made for each as per the TfL Healthy Streets assessment categories.
- 4.7.2 It should be noted that the findings of the ATZ are suggestions only, as these are, by their nature, off-site and outside of the direct control of the Developer. The development proposals are also below the usual threshold for ATZ assessment. The applicant agrees to the proposed Mayoral CIL contribution and tariff per unit in principle (subject to further discussions with RBG); these are a robust contribution in proportion to the development for off-site works. The improvements suggested by the ATZ are therefore not necessary to the development and are not considered additional to the CIL or any other contribution agreed in principle.
- 4.7.3 Paragraph 56 of the NPPF relates to the use of obligations and states that:

Paragraph 56 - NPPF

Planning obligations must only be sought where they meet all of the following tests:

- a) necessary to make the development acceptable in planning terms;
- b) directly related to the development; and
- c) fairly and reasonably related in scale and kind to the development
- 4.7.4 The above is additionally set out in Regulation 122(2) of the Community Infrastructure Levy Regulations 2010.
- 4.7.5 The implementation of the suggestions of the ATZ are welcomed; however, they do not meet the above tests, as the level of pedestrian and cycle traffic to be generated by the development is negligible and would have no significant impact on these routes.



5. Impact on the London-wide Network

5.1 Overview

- 5.1.1 This section of the TA assesses how people of all abilities will travel from the development onto London's public transport and highway networks.
- 5.1.2 This has been carried out by undertaking a multimodal trip generation assessment using national standard Trip Rate Information Computer System (TRICS), a comprehensive database of traffic and multi-modal transport surveys covering a wide range of development types. TRICS provides a trip rate which is then used to quantify the number of trips generated by the proposed land use.

5.2 Existing Use/Permitted Use

5.2.1 The site is vacant with no historic data available. The site has planning permission for some 400 homes, a cruise line terminal with commercial floorspace, retail uses and associated works. This scheme has been implemented and could theoretically be built out. An existing transport assessment exists for this work and will be referred to for the assessment of the permitted use.

5.3 Residential Use

- 5.3.1 The proposed residential uses have been assessed using the TRICS database. Sites have been extracted using the following criteria:
 - Land use C3 Residential Flats Privately Owned
 - Greater London only
 - Multi-modal Weekday surveys
 - Trip rate per unit
 - Edge of town centre, edge of town or suburban location
 - PTAL 1-3
 - Surveys dating 2021 during covid restrictions discounted from the results
- 5.3.2 A total of eight sites were identified and have been used to derive a total person trip rate and servicing trip rates as given in **Table 5.1** along with the calculated trips by mode. The full TRICS outputs are included in **Appendix F.**



| Trip Rate | | AM Peak (08:00-09:00 | D) | PM Peak (17:00-18:00) | | |
|------------------------------|------|--------------------------|-------|--------------------------|------|-------|
| | In | Out | Total | In | Out | Total |
| OGV | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 |
| LGV | 0.00 | 0.00 | 0.01 | 0.01 | 0.01 | 0.02 |
| Total servicing (LGV+OGV) | 0.00 | 0.01 | 0.01 | 0.01 | 0.01 | 0.02 |
| Total Person | 0.09 | 0.47 | 0.56 | 0.32 | 0.16 | 0.48 |
| Trip | | AM Peak (08:00-09:00) | | PM Peak (17:00-18:00) | | |
| Generation | In | Out | Total | In | Out | Total |
| OGV | 0 | 0 | 0 | 0 | 0 | 0 |
| LGV | 0 | 1 | 1 | 2 | 1 | 3 |
| Total servicing (LGV+OGV) | 0 | 1 | 1 | 2 | 1 | 3 |
| Total Person | 13 | 67 | 80 | 45 | 23 | 69 |

Table 5.1 Residential Trip Rates

- 5.3.3 As shown in the above, servicing trips account for some 4% of total person trips.
- 5.3.4 The above have also been compared to the trip rates approved for the Morden Wharf Development (as the most recent planning approval) within the associated Transport Assessment dated June 2020. Criteria used to extract TRICS sites is comparable; however, several of the sites used in that analysis have since been aged out of the TRICS database, and on that basis, the newer sites and trip rates given above have been used.

Residential Modal Split

- 5.3.5 The modal split of trips has been calculated using the 2011 Census data for the Method of Travel to Work for those living in the Greenwich 036B Lower Super Output Area (LSOA) Layer. This dataset provides 2011 estimates that classify usual residents aged 16 to 74 in England and Wales by their method of travel to work.
- 5.3.6 The 2021 Census data has not been used as it was collected during the Coronavirus (COVID-19) pandemic, a period of unparalleled and rapid change when the national lockdown, associated guidance and furlough measures will have affected people's travel to work habits.
- 5.3.7 The Census 2011 mode shares are summarised in **Table 5.2** below. To account for the carfree nature of the proposed development, with only disabled parking provided on-site and to incorporate servicing vehicle trips, the modal share above has been adjusted pro-rata. The adjusted modal split is also shown in **Table 5.2**.



| Method of Travel | LSOA Greenwich 036B | % Mode Share | Adjusted % Mode Share |
|-------------------|------------------------|--------------|--------------------------|
| Underground | 220 | 35% | 38% |
| Rail | 76 | 12% | 13% |
| Bus | 133 | 21% | 23% |
| Taxi | 1 | 0% | 0% |
| Powered 2-wheeler | 6 | 1% | 1% |
| Car | 104 | 16% | 4% |
| Car share | 9 | 1% | 2% |
| Bicycle | 19 | 3% | 3% |
| On foot | 60 | 9% | 10% |
| Other | 7 | 1% | 1% |
| Servicing | NA | NA | 4% |
| Total | 635 | 100% | 100% |

Table 5.2Census and Adjusted Mode Share

- 5.3.8 As shown in the table above, the most popular method of travel to the local area purposes is London Underground with 38% of the (adjusted) mode share, followed by bus with 23%. Active travel modes account for 12% of the mode share and vehicle trips (including car share) for 11% of the mode share.
- 5.3.9 The adjusted mode split in **Table 5.2** above has been applied to the total person trips given in **Table 5.1** and the results are summarised in **Table 5.3**.

| Trin Data | Adjusted | AM Peak | | | PM Peak | | |
|--------------|------------|---------|-----|-------|---------|-----|-------|
| i rip kate | Mode Split | In | Out | Total | In | Out | Total |
| Underground | 38% | 20 | 101 | 121 | 69 | 35 | 104 |
| Train | 13% | 7 | 35 | 42 | 24 | 12 | 36 |
| Bus | 23% | 12 | 61 | 73 | 42 | 21 | 63 |
| Тахі | 0% | 0 | 0 | 1 | 0 | 0 | 0 |
| Motorcycle | 1% | 1 | 3 | 3 | 2 | 1 | 3 |
| Car | 4% | 2 | 11 | 13 | 7 | 4 | 11 |
| Car Share | 2% | 1 | 4 | 5 | 3 | 1 | 4 |
| Bicycle | 3% | 2 | 9 | 10 | 6 | 3 | 9 |
| On foot | 10% | 5 | 28 | 33 | 19 | 10 | 28 |
| Other | 1% | 1 | 3 | 4 | 2 | 1 | 3 |
| Servicing | 4% | 2 | 11 | 13 | 7 | 4 | 11 |
| Total Person | 100% | 52 | 265 | 318 | 180 | 92 | 273 |

Table 5.3Proposed Multi-modal Residential Trips

5.3.10 As shown in **Table 5.3**, the residential element of the development would generate an estimated total of 33 two-way vehicle trips in the AM peak and 29 in the PM peak, with most trips being undertaken by active modes and public transport.



5.4 Commercial

- 5.4.1 The proposed commercial is for light industrial use and for a small community/café space. The latter is considered to be for the purpose of serving the future residents and not considered a trip destination in its own right, generating only internalised trips and pass by trips, excepting for servicing. On that basis, only servicing for the community space has been considered on a first principles basis, which has assumed a total of 3 deliveries per day as a maximum (based on professional knowledge of other café uses, and assuming 1 x milk, 1 x food and 1 x other beverage/supply delivery per day. This is comparable to most Starbuck and Costa Coffee operations in London and would be considered the maximum, with other chains and more local businesses typically operating on fewer or more consolidated deliveries.).
- 5.4.2 The TRICS database has been examined for proxy sites for the B1c Light Industrial uses, as follows:
 - Land use 02/DEmployment/Industrial Estate
 - Weekday multimodal survey
 - Edge of town or suburban location
 - Greater London Sites only
 - Trip rates per 100sqm
- 5.4.3 The search identified a total of 5 proxy sites and the full outputs are included as **Appendix G**.
- 5.4.4 Due to the type of land use, the mode split as per the TRICS output has been calculated for all modes. The trip rates and resulting mode splits are summarised in



| | | AM Peak | | | PM Peak | | Mode |
|---------------------------|------|---------|-------|------|---------|-------|----------------|
| Trip Rate | In | Out | Total | In | Out | Total | TRICS BASIS |
| Total Person | 1.29 | 0.80 | 2.09 | 0.42 | 0.85 | 1.27 | 100% |
| Of which total Vehicle | 0.88 | 0.58 | 1.47 | 0.30 | 0.55 | 0.85 | 72% |
| Of which taxi | 0.00 | 0.00 | 0.00 | 0.00 | 0.00 | 0.01 | 0% |
| Of which OGVs | 0.06 | 0.05 | 0.11 | 0.01 | 0.01 | 0.02 | 4% |
| Of which LGVs | 0.35 | 0.34 | 0.70 | 0.10 | 0.14 | 0.24 | 30% |
| Of which cars | 0.46 | 0.19 | 0.65 | 0.19 | 0.39 | 0.58 | 37% |
| Of which motorbikes | 0.01 | 0.00 | 0.01 | 0.00 | 0.01 | 0.01 | 0% |
| Of which Vehicle Occ | 1.11 | 0.74 | 1.86 | 0.38 | 0.68 | 1.06 | 15% |
| of which cyclists | 0.00 | 0.01 | 0.01 | 0.00 | 0.02 | 0.02 | 1% |
| of which pedestrians | 0.04 | 0.02 | 0.06 | 0.02 | 0.04 | 0.06 | 5% |
| of which bus | 0.09 | 0.02 | 0.11 | 0.01 | 0.06 | 0.07 | 4% |
| of which rail | 0.04 | 0.01 | 0.05 | 0.01 | 0.06 | 0.07 | 2% |

Table 5.4 Commercial Light Industrial Trip Rates and Mode Split

5.4.5 As shown in the table above, the TRICS proxy sites have a high car trip rate at 37%, and it should be noted that the proxy sites also provide general car parking (or it is otherwise available on street nearby at no charge), which will not be the case of the proposed development. Public transport use is also low; however, it is expected that the site will deliver improved bus connections and therefore the split above is not considered fully representative of the development. On that basis, the mode split has been adjusted pro-rata, retaining all operational trips and total person trips, and the results are given in **Table 5.5**.



| Mode | TRICS MODE SPLIT | Adjusted Pro Rata |
|---------------|------------------|-------------------|
| Taxi | 0% | 1% |
| OGV | 4% | 4% |
| LGV | 30% | 30% |
| Car | 37% | 3% |
| P2W | 0% | 0% |
| Car Share | 15% | 11% |
| Cyclist | 1% | 6% |
| Pedestrian | 5% | 10% |
| Bus | 4% | 15% |
| Total Rail | 2% | 20% |
| Total Person | 100% | 100% |
| Total Vehicle | 72% | 38% |

Table 5.5 Adjusted Commercial Mode Split

5.4.6 The adjusted mode split above has been applied to the total person trips calculated as per the total person trip rate in **Table 5.4** and the results are given in

| Table 5.6 | Proposed | Commercial | Trips |
|-----------|----------|------------|-------|
|-----------|----------|------------|-------|

| Trip Rate | | AM Peak | | PM Peak | | | | |
|--------------|----|---------|-------|---------|-----|-------|--|--|
| | In | Out | Total | In | Out | Total | | |
| Underground | 2 | 1 | 3 | 1 | 1 | 2 | | |
| Train | 1 | 0 | 1 | 0 | 0 | 1 | | |
| Bus | 2 | 1 | 3 | 1 | 1 | 2 | | |
| Taxi | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Motorcycle | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Car | 0 | 0 | 1 | 0 | 0 | 0 | | |
| Car Share | 1 | 1 | 2 | 0 | 1 | 1 | | |
| Bicycle | 1 | 0 | 1 | 0 | 0 | 1 | | |
| On foot | 1 | 1 | 2 | 0 | 1 | 1 | | |
| Other | 0 | 0 | 0 | 0 | 0 | 0 | | |
| OGV | 0 | 0 | 1 | 0 | 0 | 0 | | |
| LGV | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Total Person | 11 | 7 | 19 | 4 | 8 | 11 | | |
| Total Veh | 4 | 3 | 7 | 1 | 3 | 4 | | |

5.4.7 As shown in the table above, the commercial element would generate a total of 7 two-wavy vehicle trips in the AM peak and 4 in the PM peak.



5.5 Total Development

5.5.1 The total development trips have been summed and are given in **Table 5.7**.

| | | AM Peak | | PM Peak | | | | |
|--------------|----|---------|-------|---------|-----|-------|--|--|
| | In | Out | Total | In | Out | Total | | |
| Underground | 22 | 102 | 124 | 69 | 36 | 106 | | |
| Train | 8 | 35 | 43 | 24 | 13 | 37 | | |
| Bus | 14 | 62 | 76 | 42 | 22 | 65 | | |
| Тахі | 0 | 1 | 1 | 0 | 0 | 1 | | |
| Motorcycle | 1 | 3 | 3 | 2 | 1 | 3 | | |
| Car | 2 | 11 | 13 | 7 | 4 | 11 | | |
| Car Share | 2 | 5 | 7 | 3 | 2 | 6 | | |
| Bicycle | 2 | 9 | 12 | 6 4 | | 10 | | |
| On foot | 7 | 28 | 35 | 19 10 | | 30 | | |
| Other | 1 | 3 | 4 | 2 | 1 | 3 | | |
| Servicing | 3 | 11 | 14 | 8 4 | | 12 | | |
| Total Person | 64 | 272 | 336 | 184 | 284 | | | |

Table 5.7Total Development Trips

5.5.2 As shown, the total development would generate 40 two-way vehicle trips in the AM peak and 33 in the PM peak.

5.6 Comparison to Consented Scheme

5.6.1 As mentioned above, the site has planning permission which could be implemented. This is for 477 residential units with parking, and without public transport interventions. Assessed on the same basis as the above (mode split adjusted only to include servicing in this case), the site would generate the following trips as set out in **Table 5.8**.



| | Adjusted | | AM Peak | | PM Peak | | | | | |
|--------------|---------------|----|---------|-------|---------|-----|-------|--|--|--|
| Trip Rate | Mode Split | In | Out | Total | In | Out | Total | | | |
| Underground | 33% | 15 | 75 | 89 | 51 | 26 | 77 | | | |
| Train | 12% | 5 | 26 | 31 | 18 | 9 | 27 | | | |
| Bus | 20% | 9 | 45 | 54 | 31 | 16 | 46 | | | |
| Тахі | 0% | 0 | 0 | 0 | 0 | 0 | 0 | | | |
| Motorcycle | 1% | 0 | 2 | 2 | 1 | 1 | 2 | | | |
| Car | 16% | 7 | 35 | 42 | 24 | 12 | 36 | | | |
| Car Share | 1% | 1 | 3 | 4 | 2 | 1 | 3 | | | |
| Bicycle | 3% | 1 | 6 | 8 | 4 | 2 | 7 | | | |
| On foot | 9% | 4 | 20 | 24 | 14 | 7 | 21 | | | |
| Other | 1% | 0 | 2 | 3 | 2 | 1 | 2 | | | |
| Servicing | 4% | 2 | 9 | 11 | 6 | 3 | 9 | | | |
| Total Person | 100% | 44 | 224 | 269 | 153 | 78 | 231 | | | |

Table 5.8 Consented Residential Scheme – 477 Units

5.6.2 The net difference to the proposed has also been calculated and is given in **Table 5.9.**

Table 5.9Net Difference Proposed and Consented

| Trin Data | | AM Peak | | PM Peak | | | | |
|---------------|----|---------|-------|---------|-----|-------|--|--|
| Г гір кате | In | Out | Total | In | Out | Total | | |
| Underground | 5 | 26 | 32 | 18 | 9 | 27 | | |
| Train | 2 | 9 | 11 | 6 | 3 | 9 | | |
| Bus | 3 | 16 | 19 | 11 | 6 | 16 | | |
| Тахі | 0 | 0 | 0 | 0 | 0 | 0 | | |
| Motorcycle | 0 | 1 | 1 | 0 | 0 | 1 | | |
| Car | -5 | -25 | -30 | -17 | -9 | -25 | | |
| Car Share | 0 | 1 | 1 | 1 | 0 | 1 | | |
| Bicycle | 0 | 2 | 3 | 2 | 1 | 2 | | |
| On foot | 1 | 7 | 9 | 5 | 3 | 7 | | |
| Other | 0 | 1 | 1 | 1 | 0 | 1 | | |
| Servicing | 0 | 2 | 2 | 1 | 1 | 2 | | |
| Total Person | 8 | 41 | 49 | 28 | 14 | 42 | | |
| Total Vehicle | -4 | -21 | -26 | -15 | -7 | -22 | | |

5.6.3 As shown in the table above, when compared to the consented scheme, the proposed development generates more total person trips and more trips by public transport but a reduction of 26 fewer vehicle trips in the AM peak and 22 fewer in the PM peak.



5.6.4 It should also be noted that the site was previously used as open air storage/ motor uses and industrial use. Should no development come forward as per the allocation, then reversion to this type of use would generate a higher number of vehicle trips than either scheme.

5.7 Impact on Public Transport

- 5.7.1 The development is committed to the delivery of a quality bus service near to the site, in conjunction with Morden Wharf. Various options have been discussed throughout the pre-application process.
- 5.7.2 It has been agreed in principle that the development will be served by a diverted route from North Greenwich Station, with a minimum frequency of 2 buses per hour and an ideal frequency of 4 per hour. TfL to date have not been able to identify which of their existing services would be diverted, although contrary to Morden Wharf's assessment it is stated that it is unlikely to be the 108 bus service.
- 5.7.3 Locations in respect of improvement to the site PTAL have been identified for buses, and an on-road option has been presented which delivers almost all of the benefits sought from the ramp option without reliance on Morden Wharf and without detriment to other considerations required by the site allocation Local Plan policy.
- 5.7.4 Whist the water boat services are not included within PTAL assessment and are considered a 'luxury' service, nevertheless, Census data does show a consistent level of travel upon them as a mode, which is presumed to be diverted from bus travel.
- 5.7.5 Frequency of the river boat service is not identified but in the worst-case is assumed to be 1 per hour. The 'Other' mode trips identified within the assessment have therefore been assigned to the new river boat service.
- 5.7.6 The public transport trips given in **Table 5.7** above have been allocated to destinations on the assumption that the majority of trips by rail will be towards Central London (75%) and the remainder to the east. Similarly, it is assumed that the majority of bus trips will be connecting to/from rail stations and has been split 50-50 north/south on that basis. A majority (90%) of rail trips have been double assigned to buses to capture bus mode towards the stations in the first instance.
- 5.7.7 The resulting loadings on public transport are summarised in **Table 5.10**.



| Tuin Data | | AM Peak | | PM Peak | | | | |
|---|----|---------|-------|---------|-----|-------|--|--|
| Trip Kate | In | Out | Total | In | Out | Total | | |
| Jubilee Line east | 5 | 26 | 31 | 17 | 9 | 26 | | |
| Jubilee Line west | 16 | 77 | 93 | 52 | 27 | 79 | | |
| National Rail East | 2 | 9 | 11 | 6 | 3 | 9 | | |
| National Rail West | 6 | 26 | 32 | 18 | 9 | 27 | | |
| Bus to/from North Greenwich Station/Central London | 29 | 133 | 162 | 91 | 48 | 138 | | |
| Bus to/from Other Stations/Other Destinations | 14 | 66 | 81 | 45 | 24 | 69 | | |
| Riverboat Services | 1 | 3 | 4 | 2 | 1 | 3 | | |

Table 5.10 Impact on Public Transport

- 5.7.8 As shown in the table above, the morning peak would generate a total of 162 bus trips to and from the north, of which some 124 would continue by rail services from North Greenwich Station or originate from rail travelling to the site. There would be 81 trips to and from the south of which 43 would continue by rail from Maze Hill and Westcombe Park or travel from those station to the site. In the PM peak there would be 138 bus trips to and from the north of which 105 would interchange with North Greenwich station, and 69 bus trips to and from the south of which 36 would interchange with Maze Hill or Westcombe Park.
- 5.7.9 Assuming a single bus route with a frequency of 4 per hour in each direction, there would be loadings of 40 passengers per bus north of the site, and 20 per bus south of the site in the AM peak. In the PM peak there would be 35 passengers per bus north of the site and 17 passengers per bus south of the site.
- 5.7.10 There are some 30 trains per hour at peak times on the Jubilee Line, equating to passenger loadings of 2 additional passengers per train east of North Greenwich and 6 additional passengers per train west. in the AM peak. In the PM peak, this would equate to 2 additional passengers per train east of North Greenwich. and 5 additional passengers per train west.
- 5.7.11 Loadings at Westcombe Park and Maze Hill are assumed to be 50-50 and are therefore around 22 passengers in either peak hour per station.
- 5.7.12 There are 10 trains per hour at peak at each station, and therefore when distributed across the network, passenger loadings at peak hour equate to just 1 or 2 additional passengers per train. This level of increase is considered negligible.

5.8 Impact on Active Travel

5.8.1 The site will generate a number of new trips by foot and by bicycle. To assess the potential impact on local routes, these have been broadly distributed on a first principles basis, using our professional judgement of desire lines, local trip generators, and choice making based on quality of the route and the potential mitigation implemented upon that route which may encourage its use. The distribution and assumptions are set out in **Table 5.11**.



| | | | AM Peak | PM Peak | | | Daily Flows | | | |
|----------------------|--|---------|---------|---------|----|-----|-------------|----|-----|-------|
| Trip Rate | Assumptions/Comments | In | Out | Total | In | Out | Total | In | Out | Total |
| | | Cycle | | | | | | | | |
| Thames Path North | 0% due to interim condition of path making it almost impassible for cyclists. Route not explicitly assessed as part of ATZ though given consideration within it. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Thames Path South | 40% due to quality of route and forward connections to Greenwich or Island Gardens via SCN. Route not explicitly assessed as part of ATZ though given consideration within it. | 4 | 5 | 2 | 1 | 4 | 23 | 23 | 46 | 51 |
| Other Route North | 0% due to poor quality of routes making them unattractive to cyclists compared to other provision. | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other Route South | 10% via SCN and NCN, local cycle paths and residential roads to Maze Hill, Blackheath, Westcombe Park. Route 5 within the ATZ | 1 | 1 | 1 | 0 | 1 | 6 | 6 | 12 | 13 |
| Other Route East | 50% crossing at Tunnel Avenue bridge to Parkside. Routes 3 and 4 within the ATZ | 5 | 6 | 3 | 2 | 5 | 29 | 29 | 58 | 63 |
| | | On Foot | | | | | | | | |
| Thames Path North | 5% due to strong desire line north but interim quality of footpath being poor | 1 | 2 | 1 | 1 | 1 | 9 | 9 | 17 | 19 |
| Thames Path South | 25% due to desire lines south and good quality path | 7 | 9 | 5 | 3 | 7 | 44 | 43 | 86 | 95 |
| Other Route North | 25% due to strong desire lines North and availability of pedestrian crossings despite otherwise low-quality walking environment compared to other routes | 7 | 9 | 5 | 3 | 7 | 44 | 43 | 86 | 95 |
| Other Route South | 25% due to desire lines south and generally good pedestrian connections to Maze Hill, Westcombe Park etc. Route 5 within the ATZ. | 7 | 9 | 5 | 3 | 7 | 44 | 43 | 86 | 95 |
| Other Route East | 20% due to desire lines north but this option being a deviation; access to schools and leisure. Routes 3 and 4 within the ATZ | 6 | 7 | 4 | 2 | 6 | 35 | 34 | 69 | 76 |

Table 5.11 Impact on the Active Travel Network

5.8.2 As shown in the table above, this is a high-level distribution but indicates that most active travel will seek to go east (prior to diverting north) and south from the site in the first instance. This may change following improvements implemented as part of Greenwich Peninsula and the Silvertown Tunnel progress, and following Morden Wharf's completion, a larger number of trips are expected to go north along the improved Thames Path. Key links in the interim are therefore the bridge



6. Summary and Conclusions

- 6.1.1 This TA has been prepared by Markides Associates on behalf of Maritime View Ltd in support of a planning application for the re-development of Enderby Place adjacent to Morden Wharf in the Royal Borough of Greenwich (RBG). RBG are both the planning and highways authority.
- 6.1.2 The development proposals are for the erection of part-3, part-23, part-35 storey buildings, providing up to 564 residential apartments (Class C3), light industrial (Class E(g)(iii)) and community / café use (Sui Generis), and associated highways, landscaping and public realm works.
- 6.1.3 This TA has demonstrated that the site is accessible in terms of its proximity to existing social and sustainable transport infrastructure. The assessments have also demonstrated that the impact of the development proposals upon the wider transport network can be accommodated without resulting in a severe impact and therefore deemed acceptable in accordance with the NPPF and London Plan 2021 policy.
- 6.1.4 The overall impact of the development upon the London wide transport networks is not considered to be negligible. The development is car-free and supported by a Travel Plan Statement to support and encourage users to travel sustainably to and from the site.
- 6.1.5 The proposals will result in increases to the number of trips on the local public transport networks, however given the wide range of services and destinations which can be accessed from the site, once these trips have been distributed across the wide range of services and destinations the overall impact of the development is not considered to be significant.
- 6.1.6 The site benefits from access to a range of sustainable transport modes that can be accessed through a generally comprehensive walking and cycling network, and impact on these networks as a result of development is also considered to be negligible.
- 6.1.7 In summary, this TA outlines how the proposed development will not result in any material impact to the public transport and road networks within the vicinity of the site. Accordingly, the development proposals are considered to be acceptable, and compliant with policy.



FIGURES

- Figure 1.1 Site Context Plan Figure 3.1 **Active Travel Network** Figure 3.2 Conversion of AI to PTAL Figure 3.3 WebCAT Output - Base Year Figure 3.4 WebCAT Output – 2031 Forecast Figure 3.5 Network of Footpaths Through Sites Figure 3.6 **Baseline Manual PTAL Calculation** Figure 3.7 Public Transport Plan Figure 3.8 **Local Facilities** Figure 4.1 Extent of Active Travel Zone Figure 4.2 Neighbourhood Active Travel Zone
- Figure 4.3 KSI by Severity



DRAWINGS

22181-MA-XX-XX-DR-C-7051 SPA Refuse Vehicle

22181-MA-XX-XX-DR-C-7052 SPA Ground Level Plan



APPENDIX A – SITE LAYOUT PLAN



APPENDIX B – TECHNICAL CORRESPONDENCE – BUS OPTIONS



APPENDIX C – POLICY REVIEW

A1 The National Planning Policy Framework (NPPF) (July 2021)

The NPPF as of July 2021 sets out Government planning policy, provides a framework within which local planning policies should be produced, and is a material consideration in planning decisions.

With regards to transport, the NPPF states 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."

Paragraph 112 continues those applications for development should:

- Give priority first to pedestrian and cycle movements, both within the scheme and with neighbouring areas; and second- so far as possible – to facilitate access to high quality public transport, with layouts that maximise the catchment area for bus or other public transport services, and appropriate facilities that encourage public transport use;
- Address the needs of people with disabilities and reduced mobility in relation to all modes of transport;
- Create places that are safe, secure, and attractive which minimise the scope for conflicts between pedestrians, cyclists, and vehicles, avoid unnecessary street clutter, and respond to local character and design standards;
- Allow for the efficient delivery of goods, and access by service and emergency vehicles; and
- Be designed to enable charging of plug-in and ultra-low emission vehicles in safe, accessible, and convenient locations.

Paragraph 113 states that: "All developments that will generate significant amounts of movement should be required to provide a travel plan and should be supported by a transport statement or transport assessment."

A2 The London Plan 2021

The new London plan was published on 2nd March 2021.

Chapter 10 of this document deals with transport and Policy T1 sets the overarching approach to transport strategy for the city. Policy T1 states that development Plans and development proposals should support the delivery of the Mayor's strategic target of 80 per cent of all trips in London to be made by foot, cycle, or public transport by 2041, and the proposed transport schemes set out in Table 10.1.



Policy T1 continues, "All development should make the most effective use of land, reflecting its connectivity and accessibility by existing and future public transport, walking and cycling routes, and ensure that any impacts on London's transport networks and supporting infrastructure are mitigated."

The London Plan 2021 additionally includes a new concept; 'Healthy Streets'. These are defined by 10 indicators as follows:

- Pedestrians from all walks of life;
- Easy to cross;
- Shade and shelter;
- Places to stop and rest;
- Not too noisy;
- People choose to walk, cycle, and use public transport;
- People feel safe;
- Things to see and do;
- People feel relaxed; and
- Clean air.

Policy T2 states that development proposals should demonstrate how they will deliver improvements that support the ten Healthy Streets Indicators in line with Transport for London guidance; reduce the dominance of vehicles on London's streets whether stationary or moving; and be permeable by foot and cycle and connect to local walking and cycling networks as well as public transport.

A2.1 Car Parking Standards

With regards to residential car parking, the Plan outlines a maximum parking provision standards for Outer London Opportunity Areas of up to 0.25 spaces per dwelling.

The Plan states that all residential car parking spaces must provide infrastructure for electric or Ultra-Low Emission vehicles. At least 20% of spaces should have active charging facilities, with passive provision for all remaining spaces.

Residential development proposals delivering ten or more units must, as a minimum, ensure that for three per cent of dwellings, at least one designated disabled persons parking bay per dwelling is available from the outset. Furthermore, developments must demonstrate, how an additional seven per cent of dwellings could be provided with one designated disabled persons parking space per dwelling in future.

A3 Royal Greenwich Local Plan: Core Strategy

Car and cycle parking policy is given within Greenwich's Local Plan 2018. Policy DM30: Car and cycle parking in new development states:



Developments must provide the minimum level of car parking provision necessary, for people with disabilities, as set out in the London Plan, and ensure provision for servicing, safe pick-up, drop-off and waiting areas for vehicles such as taxis and coaches, where that activity is likely to be associated with the development.

Developments supported by a high level of public transport accessibility and within Controlled Parking Zones should be car free. Development in areas of on-street parking stress should be 'car-capped.' For car capped developments, the Royal Borough will:

- *limit on-site car parking to spaces designated for disabled people, any operational*
- or servicing needs, and spaces designated for the occupiers of development;
- not issue on-street parking permits; and
- use a condition / legal agreement to ensure that future occupants are aware they
- *are not entitled to on-street parking permits.*
- The Royal Borough will also strongly encourage contributions to car clubs and pool car schemes in place of private parking in new developments across Royal Greenwich and seek the provision of electric charging points as part of any car parking provision, following the minimum standards set out in the London Plan.

Developments must meet, as a minimum, the standards for cycle parking as set out in the London Plan.

A4 Greenwich Waste Guidance Notes

This document (latest revision May 2018) sets out the Council's requirements for its waste and recycling collection services and should be used by architects and developers when designing waste storage and collection strategies.

With regards to the accessibility for collection vehicles and operatives, the guidance states the following:

Walking distance for refuse operatives from the container storage area to the refuse collection vehicle is no more than 15 metres. The vehicle stopping point should be clearly indicated on submitted drawings.

A safe collection area for operatives, such as a lay-by, is required if access to the chambers is on a dual carriageway, main fast flowing, or busy road.

Roads should be laid out to ensure reasonable convenience for the collection vehicle and should be a minimum of 5.5m wide. The collection vehicle should be able to proceed in a forward direction around the development, developers must not plan for refuse vehicles to reverse in a public area and the vehicle should not be expected to reverse for more than two vehicle lengths (20m).



Adequate space for turning must be provided and demonstrated in vehicle tracking drawings.



APPENDIX D – WEBCAT PTAL OUTPUTS



APPENDIX E – MANUAL PTAL CALCULATION WORKINGS



APPENDIX F – TRICS OUTPUT – RESIDENTIAL



APPENDIX G – TRICS OUTPUT – COMMERCIAL LIGHT INDUSTRIAL



APPENDIX A – SITE LAYOUT PLAN







APPENDIX B – TECHNICAL CORRESPONDENCE – BUS OPTIONS


Enderby Place, Greenwich

Review of bus access options

Project Number: 22181-01 Doc Number: TN02b

24 November 2022

| Rev | Issue Purpose | Author | Checked | Reviewed | Approved | Date |
|-----|---------------|--------|---------|----------|----------|---------|
| А | Draft | DJT | SEC | DJT | DJT | 22/9/22 |

1. Introduction

1.1 This note has been prepared on behalf of Criterion Capital in relation to development proposals at Enderby Place. It considers the opportunities and constraints in respect of future bus access and in particular, the aspiration to deliver a through route between Tunnel Avenue and Telcon Way by connecting Morden Wharf and Enderby Place.

2. Context

2.1 Whilst it is understood that no definitive bus route has as yet been agreed, the approved proposals for the adjacent Morden Wharf allow for a single decker bus to access the development, providing a link from the site to North Greenwich and the wider tube and rail network. Coupled with the proposed Mobility Hub, new cycle and walking routes and a Thames Clipper service, it was concluded that the provision of this bus route would be sufficient to support access to and from that site by a variety of transport modes. Any development proposals for Enderby Place would also place residents within an approximate 100-150m walk distance of the new bus facility. A schematic of the future bus route that formed part of the Morden Wharf approval is shown in **Figure 2.1**.





Figure 2.1 Future bus route map

3. Enderby Place – Topography

- 3.1 A review of the topographical survey confirms that the Morden Wharf Site sits significantly higher than the Enderby Place site, meaning that any bus connection linking the two sites would effectively be via a ramp.
- 3.2 It is understood that when developing the potential bus route strategy for Morden Wharf, consideration was also given to the potential of providing a through route connecting through Enderby Place to Christchurch Way; however, this was discounted at the time due to the significant level differences (greater than 2m) between the two sites. An indicative cross section is shown in **Figure 3.1** overleaf.







4. Connection to Telegraph Avenue

- 4.1 Aside from the level differences, to accommodate two-way single-decker buses plus pedestrian and cycle movements, the available width and environment along Telegraph Avenue has also been reviewed for suitability as these forms the southern boundary of the Enderby Place site.
- 4.2 Telegraph Avenue is an effective pedestrian and cycle link connecting Telcon Way to Olympian Way and the river. It also provides access to a number of residential dwellings in Enderby Wharf. Telegraph Avenue measures between 4m and 4.5m in width along its length. As shown in Photo 4.1, parts of the Enderby Wharf scheme also oversail parts of Telegraph Avenue making it unsuitable for bus access in its current form.





Photo 4.1 Photo looking along Telegraph Avenue

4.3 Typically, a minimum 6.4m carriageway width (straight) would be required to accommodate two-way bus movement, as well as footways of at least 2.4m on either side of the carriageway. Along Telegraph Avenue, it is assumed that this would mean that the existing street layout would remain in situ and a strip measuring a minimum 6.4m in width would be required from the Enderby Place site. In reality, the extent of the site that would be sterilised would be greater, as any new building would unlikely be hard up against the edge of the bus corridor. For this reason and in initial discussion with TfL, any proposal to connect a bus route into Telegraph Avenue have been discounted.

5. Connection to Telcon Way

5.1 Telcon Way is in excess of 6.4m wide, has footways on both sides of the carriageway and is therefore sufficiently wide to accommodate a bus route. However, the only point at which the site connects with Telcon Way is at the junction of Telcon Way / Telegraph Avenue /



Christchurch Road. This is also the most suitable location to ramp down to basement level to access proposed car parking and refuse collection.

- 5.2 To assess the potential for forming a connection suitable for both basement access and bus connection at this point, a number of options were considered, with two options progressed in more detail.
- 5.3 **Drawing 22181-MA-XX-XX-DR-C-7045-P02** and **Drawing 22181-MA-XX-XX-DR-C-7047-P02** show the proposed layout and associated tracking of Option A and Option C, respectively. Both options show a single decker bus passing inside the structure of the proposed building. The vehicle used to undertake the tracking measures 2.55m in width and is 11.6m in length. It is assumed that each vehicle will be offset from the structure by a minimum of 500mm.
- 5.4 Whilst the ramp will allow for 2-way operation, a one-way operational width is proposed, with bus access onto the ramp controlled via priority signals. The exact location of the signal heads would be developed in due course. The level of bus service expected is hourly to half-hourly and no other vehicle would use this ramp; the effective one-way working is therefore considered likely to be practical. The potential for two buses travelling in opposite directions to reach the ramp at the same time is small.
- 5.5 It is proposed that the revised access point at Telcon Way also provides access to the basement parking and servicing area. The basement will accommodate refuse collection, general servicing, and disabled parking only and is therefore not expected to generate a high number of vehicle movements. It is not considered appropriate to move vehicle access farther into the site due to the constraints along Telegraph Avenue already discussed and to reduce the impact on pedestrian and cycle movements. This is in line with pre-application consultation already undertaken with TfL.

6. Ramp gradients

- 6.1 As shown in **Drawing 22181-MA-XX-XX-DR-C-0171** and **Drawing 22181-MA-XX-XX-DR-C-0172-S,** some initial design and geometric work has been undertaken to assess the gradient of the two options proposed. The gradient of the two options is between 1:16 and 1:19 respectively, which is generally in accordance with acceptable standards set out in DMRB.
- 6.2 Given the gradient and location of the ramps; however, it is assumed that no footway or bus stops will be required, with passengers either walking to Morden Wharf or Christchurch Way to access services.
- 6.3 Both options proposed tie into the existing levels at the site entrance where the ramp down to basement level is proposed for car and service access.

7. Summary

7.1 It is evident that the delivery of a bus route through the Enderby Place site would have significant challenges to overcome, not least as a result of the significant level differences and the difficultly in tying any route back into the public highway.



- 7.2 It is not considered appropriate that any route connects into Telegraph Avenue nor that the bus route is across a new podium.
- 7.3 It is therefore considered that the options presented are the most viable options to consider further in respect of the viability of a future bus link through the site.



Technical Note

Alternate Bus Options

Enderby Place, Greenwich

| Project Number: | 22181 |
|-----------------|--------------------------|
| Doc Number: | TN03 |
| Prepared for: | Criterion Capital |

9 December 2022

| Rev | Issue Purpose | Author | Checked | Reviewed | Approved | Date |
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| Α | Draft for Comment | SEC | DJT | SEC | DJT | 7/12/2022 |
| В | First Issue | SEC | DJT | SEC | DJT | 9/12/2022 |

1. Introduction

- 1.1 Markides Associates have prepared this Technical Note (TN03) following pre-application consultation with TfL and RBG in relation to development proposals at Enderby Place. The discussion was supported by a Bus Options Technical Note (Ref: 22181-MA-DR-TN02) and a Transport Assessment Scoping Note (Ref: 22181-MA-DR-SN01).
- 1.2 This note summarises the headlines matters that were discussed at that meeting in relation to bus access; it provides further information on the viability of a bus route connection into the consented proposals for Morden Wharf and clarifies the policy position in respect of bus access through the two sites. It also considers an alternative and immediately deliverable bus route via Telcon Way.
- 1.3 TfL's pre application response has not been issued at the time of writing; it is therefore intended that the content of this Technical Note is considered so as to conclude the approach to bus routing and agree the most appropriate way forward.

Summary of Pre-Application Consultation

1.4 Several options for potential bus access were presented at the pre application meeting; these were based on a number of assumptions, some of which followed previous communications with TfL. These assumptions are set out in **Table 1.1** alongside the rationale at the time.

Table 1.1Early Assumptions

| Assumption | Rationale |
|---|---|
| Bus ramp to be located to the eastern edge of the site for easiest access onto Christchurch Way and to avoid impacting on Telegraph Avenue | This proposed to avoid impacting on valuable public realm provision through the centre of the proposed development and to broadly retain the massing as per the implemented extant planning permission. This arrangement ensured no day light sun light / rights to light issues would be exacerbated This approach also avoids any impact on the Olympian Way foot/cycle route and river frontage and Grade Listed Enderby House. |
| Ramp grades back to existing levels on Telcon Way approach to tie into basement access | The site is significantly lower than the approved Morden Wharf proposal and this is therefore a fixed constraint. The Enderby Place development also has to meet requirements for servicing and disabled parking access which can only reasonably be provided in the basement. Any bus ramp reduces the amount of available basement space. |
| Assumes a gradient of between 1:16 and 1:19 dependent on option | The gradients presented assumed that there may be potential to influence the consented levels in Morden Wharf. The levels are in accordance with MfS/DMRB standards |
| Assumes no pavement / footway is to be provided along the ramp | The achievable gradient is not DDA compliant and therefore footways were omitted. |
| Assumes the bus ramp is internal to the building | This is due to constraints on massing due to sunlight-daylight impacts and Rights to Light not allowing the building to be significantly moved to the east. |
| Assumes the head height clearance will be sufficient to allow for a single decker vehicle | This is due to the understanding that the route would be served by the nearest route diverted, provided by the 108, which is a single-decker. Additionally, bringing the ramp internal to the podium has structural constraints for which a double decker bus is not easily achievable. |
| Bus frequency of every 30 minutes. | Based on an understanding that the route would be served by the nearest route diverted, which was thought to run at this frequency. |
| Assumes the ramp will cater for 2-way bus movement but will have a one- way effective width. Bus access to the ramp controlled by signals at the top and bottom (details and locations to be considered further) | This is due to the significantly increased radius that would be required to provide an effective 2-way width. Providing a significantly larger ramp would provide an over dominating entrance to the development and to the views along Telcon Way. It also presents a number of impacts to the proposed building structure. |
| Assumes a minimum offset of 500mm from the vehicle tracking line to any building structure | This is to ensure vehicle and structural safety in regard to vehicle strike against columns etc. |
| Assumes that the car park / basement access is from the bottom of the ramp – no "through" route for any other vehicle | The potential location to ramp down to basement level is extremely limited and cannot be achieved from other locations. |

1.5 Based on the constraints identified in Table 1.1, Options A and C were developed as they were considered to be the most feasible design options; both are duplicated below in Figure 1.1.



Figure 1.1 Options A and C as Presented

Source: Drawing 22181-MA-XX-XX-DR-C-7047-P02

1.6 Following initial review, TfL responded to the designs, stating that they were not acceptable for a number of reasons and that revised options should be considered. The TfL comments are summarised in **Table 1.2**, along with the rationale for each.

Table 1.2 Proposed Assumptions

| Assumption | Rationale |
|---|---|
| Increased bus demand of a minimum of 4 buses per hour up to 6 buses per hour. | This to increase service provision to the area to accommodate the increase in residential development and associated demand. Bus services may be extended from those terminating at Greenwich station, which run at this frequency. |
| The route should accommodate double decker buses. | All routes on the Greenwich peninsula are double decker services, excepting the 108 which is only a single decker due to routeing through the Blackwall Tunnel. Even if a single decker bus is initially used, the route should be capable of upgrade to meet future demand. |
| Bus ramp to accommodate pedestrians and cyclists | Cyclists commonly use bus lanes. |
| Gradients – 5% if pedestrian access included 6% as the standard 8% as the practical minimum. | 5% would be DDA compliant. 6% complies with MfS and DMRB standards. |
| Shuttle working of the ramp would not be accepted. The route must be two-way. | In the event of mechanical failure of the system, appropriate forward visibility along the entire length of the ramp must be ensured. Given the bend in the ramp, there is a risk that the route would have to be closed. |

1.7 The proposed assumptions have been considered further and give rise to significant design issues that cannot be overcome.

2. Policy

- 2.1 Given the significant constraints identified, discussion at the pre-application meeting considered the current policy requirement for a bus connection to be provided and whether a suitable alternative would be sufficient; this has subsequently been reviewed.
- 2.2 The Site Allocations Local Plan is currently being prepared and will focus on sites that will deliver a significant amount of development and sites that support the delivery of specific Core Strategy objectives meeting the development needs identified in the Core Strategy and the London Plan.
- 2.3 Site Allocations Issues and Options were consulted on in Spring 2016 and the Preferred Approach in Autumn 2019. Consultation on the Site Allocations Proposed Submission took place from 8th November 2021 to 20th December 2021. The website states that there would be "further consultation early 2022 on the version of Site Allocations to be submitted to the Secretary of State for Examination in Public"; however, all publicly available documents date from November 2021, with no update relating to any 2022 consultation.

- 2.4 The Proposed Submission Site Allocations Plan November 2021 is a Regulation 19 document for public consultation. It includes Enderby Place as 'GP1 Christchurch Way/Telegraph Avenue SE10 0AG' and cites a PTAL of 3. The draft site requirements include:
 - New riverside Public Open Space and walk, with publicly accessible and legible connections through the site to the open space/walk and on to the Thames Path.
 - Layout, scale, and massing of proposals must provide for regular gaps to ensure a visual and physical connection to the river.
 - Provision of pier for river bus services
 - Enhanced public transport via through routes for buses, in coordination with Site GP2.
- 2.5 The Development Guidelines for GP1 include the following (our emphasis):
 - Ground floors across the site should provide active frontages. If small-scale retail/leisure/community uses are proposed, these should be orientated to face the new riverside Public Open Space and improved Thames Path and should be designed as flexible units capable of accommodating a variety of uses to animate the space and provide passive surveillance. The site is located in an area of Public Open Space deficiency, in relation to local parks. The new Public Open Space should be orientated to receive a high amount of sunlight throughout the year and be sufficiently sized to provide playable space for all ages as well as areas for sitting out, informal recreation and nature conservation.
 - It is particularly important that the layout integrates pedestrian and cycle routes with the movement network in adjacent residential development to the south and onwards to Westcombe Park and Maze Hill stations to moderate the constraints on pedestrian and cycle access via the SIL and the relatively isolated nature of the site.
 - Any tall buildings proposed should be appropriately located with sufficient gaps between buildings to create a legible cluster and to ensure good levels of daylight/sunlight at lower levels of accommodation and to public/amenity spaces.
 - The current permission includes provision for river bus services to the site. Revised proposals will be expected to **incorporate provision of a pier suitable for Thames Clipper requirements**, taking into account the development potential of the site and of Morden Wharf (site GP2) to the north. Proposals will need to ensure that the pier is appropriately integrated into the wider public realm of the site, and that the design of the pier supports a quality arrival experience for commuter and leisure passengers in all weather conditions.
 - There is also potential for this site, in coordination with site GP2, to accommodate bus standing which could facilitate the extension of one or more bus routes from North Greenwich Station and improve the PTAL of the site. Applicants will be expected to investigate the feasibility of the extension of bus services to improve the accessibility of the site, liaising with TfL and bus operators as appropriate.
 - Although the site has a mid-range PTAL, the site and surrounding developments include provision for walk-to services and amenities. **Proposals should minimise car parking provision.**

- 2.6 As set out above, the allocation document is currently in draft form and has not been formally adopted. Even assuming that the draft carries some weight, it does not provide an evidence base that confirms a bus route extension is deliverable, devolving that work to the applicant(s). The draft document does not therefore set an absolute requirement to deliver a bus route through the site as the primary consideration and the wording appears appreciative of the challenges to delivery.
- 2.7 Morden Wharf is set out as GP2 with similar comments.

3. Constraints

Constraints – Levels

- 3.1 As discussed, the topography across the site is challenging with limited scope for vehicle access. Telegraph Avenue at the southern edge of the site cannot be used for vehicle traffic without significant widening, impacting on the viability of the site and generating adverse impact on the pedestrian and cycle link that has been created as part of Enderby Wharf.
- 3.2 Telcon Way meets the eastern edge of the site and therefore forms the only existing vehicle access that can be delivered within the applicant's control. Providing access at this point also limits the potential for vehicle movements to conflict with other pedestrian and cycle accesses farther within the proposed development.
- 3.3 To provide disabled parking and servicing access to the site from Telcon Way, it must be at basement level (technically lower ground floor in relation to Telcon Way), and therefore a section of level access must be preserved at the junction of the new access/Telcon Way. This functionally limits the length of ramp that can be utilised to match the level of Morden Wharf to the north.
- 3.4 Morden Wharf also presents a fixed level which will be challenging to overcome as set out in the section below.

Constraints – Morden Wharf

3.5 Morden Wharf has detailed planning permission for:

"Change of use of part of the Southern Warehouse from Class B1c/B2/B8 to B1c/B2/B8/A3/A4; refurbishment (including mezzanines) and external alterations to part of the Southern Warehouse; change of use of the Jetty to public realm and installation on the Jetty of the Gloriana boathouse (use class D1/D2); access; landscaping and public realm works including new river wall and upgraded Thames Path."

3.6 It has outline planning permission for additional development. The approved site plan is replicated below as **Figure 3.1** with the extent of the detailed application shown in grey.



3.7 As shown, the outline area of Morden Wharf abuts the site at its northern edge. Subsequent to the planning approval for Morden Wharf, a revised landscape parameter plan was submitted to provide a bus turning loop. This is replicated below as **Figure 3.2**.



Figure 3.2 Revised Morden Wharf Parameter Plan with new Bus Loop

Source: Drawing Number: A_011 Revision: 01 – Office for Metropolitan Architecture

3.8 The planning statement accompanying the above, dated April 2021 (Lichfields) is as follows (our emphasis):

Comments from TfL note that the Public Transport Accessibility Level (PTAL) of the site is likely to remain low and the development should not rely on off-site bus stops (sic) provision along Tunnel Avenue. Following the Applicant's earlier commitment to provide a shuttle bus service between the site and North Greenwich, TfL registered an objection to the development and principle of introducing a shuttle bus services over that of a TfL bus service.

The accompanying Transport Assessment Addendum (TAA) explains that a through route to Enderby Place cannot be provided due to the significant height difference (greater than 2m). As an alternative, an in/out route is proposed via Sea Witch Lane.

The TAA outlines that traffic controls are proposed to enforce a short two-way controlled section for carriageway such that vehicles travelling in opposite directions must wait to be able to pass each other. This option is considered to be safe for pedestrians, cyclists and vehicles and will minimise changes to the public realm.

Owing to the larger carriageway requirements to accommodate buses, the cycle route previously proposed along the northern part of Sea Witch Lane will be removed. Cyclist will instead cycle within the carriageway – which has been designed to maintain its character as a shared surface with a 'car as guest' ethos.

- 3.9 It is evident that the Morden Wharf design team considered and subsequently discounted the potential for a future connection into Enderby Place owing to the challenging topography.
- 3.10 The above proposal has been carried forward within the outline planning approval. It is also understood that:
 - Morden Wharf is now to be sold, a process which is likely to take in excess of a year.
 - The outline permission contains basements on the edge of the site abutting Enderby Place, predicated on the above assumption that a through bus route is not possible.
- 3.11 Notwithstanding that a reserved matters application remains to be submitted, there remain a number of significant constraints which cannot be addressed as part of the Enderby Place proposals;
 - There is no guarantee that the new owner of Morden Wharf will wish to make significant changes to the approved scheme;
 - There is no obligation for the new owner to make significant changes to the planning approval when there is an agreed bus strategy already included, that resolves the needs of Morden Wharf's bus access and considers bus access to be acceptable. The provision of the loop is set out within the S106 agreement, with relevant sections included as **Appendix A**. This includes flexible wording to allow for the S106 to still apply in the event that through route becomes the preferred option and feasible for delivery, but in all other instances the wording defers to and presumes the provision of a turning loop only.
 - Reduction in the levels adjacent to Enderby Place to improve the ramp gradient may require significant excavation which carries significant cost; this may negate the ability for Morden Wharf to deliver their approved basement space, and which may generate additional need for flood risk assessment were basement spaces to be retained at a lower level, again at cost.
 - Based on the approved documentation, the phasing timescale for Morden Wharf is given as 10-11 years, as a minimum, from the point of implementation. Given that sale and subsequent planning submissions will be required, it is not envisaged that the Morden Wharf proposals will be implemented within the next three years, meaning any bus connection through the site would be undeliverable for a significant period.
- 3.12 Given the uncertainties surrounding Morden Wharf, Enderby Place is likely to come forward well in advance of completion of Morden Wharf and the bus strategy should therefore not be reliant upon it. In particular, as no safeguarding of a specific connection point at a set level was allowed for in the Morden Wharf approval, any consent for Enderby Place could result in an over dominating bus ramp being delivered that cannot connect into the adjacent site.

4. Existing Bus Services, Stops and Access

4.1 Given the above, the existing operational TfL bus stops have been mapped, along with 640m walk distances from the centre of both Morden Wharf and Enderby Place, this being the

maximum walking distance to a bus node allowed within a PTAL calculation. This is shown in **Figure 4.1** overleaf. This does not account for all walking routes at the granular level (such as specific locations of pedestrian crossings) but provides an overview of the PTAL accessibility, and reflective of how the present PTAL calculation operates through WebCAT. **Figure 4.1** demonstrates that each site is within distance of 3 bus stops, served by the 108, 188 and 442 bus services.



Figure 4.1 Existing TFL Bus Stops

4.2 The frequency and route for the associated local bus routes is given in **Table 4.1** overleaf.

| Douto | Divertion | Peak Hour Frequency | | | Weekday Services | |
|-------|---|---------------------|-----------|--------------|------------------|-------|
| Route | Direction | Weekday | Saturday | Sunday | First | Last |
| 108 | Stratford International (Stop MU) | 7-11 mins | 9-12 mins | 2-4 per hour | 24-hour service | |
| | Lewisham (Stop MW) | 9-12 mins | 8-12 mins | 2-4 per hour | | |
| | Russell Square (Stop MP) | 8-12 mins | 8-12 mins | 9-13 mins | 24-hour service | |
| 188 | North Greenwich (Stop MQ) | 8-12 mins | 9-13 mins | 10-14 mins | | |
| | North Greenwich (Stop MQ) | 9-12 mins | 9-12 mins | 10-13 mins | 04:42 | 00:50 |
| 422 | North Greenwich (Stop MN) | 9-12 mins | 9-12 mins | 11-13 mins | 05:02 | 01:12 |

Table 4.1Local Bus Services

4.3 Stops MN and MW fall outside of the 640m walking distance for either site. Therefore, only the 188-bus route fully serves the site at present in both directions within the broad area allowed by the PTAL algorithm. The routes are shown diagrammatically overleaf in Figure 4.2.



Figure 4.2 Existing Local Bus Services

4.4 In the wider area, buses stopping at North Greenwich Station are the 129, 132, 161, 180, 335,
472 and 486. These are summarised overleaf in Table 4.2 for the stop nearest to the site.

| Deute | | Pea | k Hour Frequer | су | Weekday Services | |
|-------|---|------------|----------------|------------|-------------------|-------|
| Route | Direction | Weekday | Saturday | Sunday | First | Last |
| 120 | Lewisham (Stop MC) | 10-14 mins | 12-14 mins | 3 per hour | 05:21 | 00:51 |
| 129 | North Greenwich (Stop ML) | 10-14 mins | 11-14 mins | 3 per hour | 05:44 | 01:16 |
| 127 | Geddes Place (Stop MC) | 8-12 mins | 9-12 mins | 4 per hour | 05:21 | 01:16 |
| 152 | North Greenwich (Stop ML) | 6-12 mins | 9-12 mins | 4 per hour | 05:00 | 00:59 |
| 161 | Chistlehurst (Stop MC) | 11-13 mins | 9-13 mins | 11-13 mins | 05:21 | 01:11 |
| 101 | North Greenwich (Stop ML) 10-13 mins | 10-13 mins | 9-12 mins | 11-13 mins | 05:09 | 00:57 |
| 190 | Erith Quarry (Stop MC) | 8-12 mins | 8-11 mins | 4 per hour | 05:08 | 01:03 |
| 190 | North Greenwich (Stop ML) | 8-12 mins | 8-12 mins | 4 per hour | 05:21 | 00:30 |
| 225 | Wingfield School (Stop MC) | 11-13 mins | 11-13 mins | 4 per hour | 05:02 | 00:32 |
| 333 | North Greenwich (Stop ML) | 11-14 mins | 11-14 mins | 4 per hour | 05:21 | 00:49 |
| 470 | Abbey Wood Station (Stop MC) | 6-10 mins | 8-12 mins | 4 per hour | - 24-hour Service | |
| 472 | North Greenwich (Stop ML) | 6-10 mins | 8-12 mins | 4 per hour | | |
| 486 | Friswell Place/ Bexleyheath (Stop MC) | 6-11 mins | 10-13 mins | 4 per hour | 05:18 | 01:18 |
| -00 | North Greenwich (Stop ML) | 7-10 mins | 9-14 mins | 4 per hour | 05:01 | 01:04 |

Table 4.2Greenwich Buses

4.5 These routes are shown diagrammatically in **Figure 4.3**.



4.6 As shown in the figure above, there is significant overlap in routeing for existing bus services to North Greenwich Station. This is likely due to the legacy of active use and development being located along the spine of the peninsula, and the Pilot Busway, along which all routes travel. No buses use the A102 and all terminate at North Greenwich.

Figure 4.3 Greenwich Bus Routes

5. Bus Accessibility & Options

- 5.1 Without the granular detail of bus journey times by route and route efficiency/running costs, any estimates of potential extension or diversion of existing routes can only be undertaken at a high level. In consultation, TfL also confirmed that they have not yet undertaken any assessment of what routes would benefit from running through the site.
- 5.2 Discussion to date has assumed the extension of one of the existing routes terminating at North Greenwich would enter Morden Wharf and continue south via Enderby Place then along Christchurch Way, albeit this section of the road is private. It is assumed that this service would route via the A102 to reach the Morden Wharf Access. Northbound routeing is less clear without some kind of double back, which might add a longer diversion to the route.
- 5.3 The overarching aims are considered to be as follows:
 - Improve existing PTAL scores, allowing for higher density development
 - Bring bus services closer to the proposed developments at Enderby Place and Morden Wharf, and serve existing built residential development at Enderby Wharf, ideally within 400m.
 - Divert services from the A102/Tunnel Avenue which are congested and generate bus journey delay, for a parallel route to the Pilot Busway on a smaller scale.
- 5.4 The present options all hinge on the timely and cooperative delivery of Morden Wharf with significant amendment to that planning approval, which may not be viable for the reasons identified above. For that reason, the currently proposed option and an alternative have been mapped and are presented in **Figure 5.1**.





Figure 5.1 Current and Alternate Bus Options

- 5.5 As shown in the figure above, the alternate option departs North Greenwich station as per existing routeing, follows Edmund Halley Way and Millennium Way as per existing routeing, passing under the A102 to turn west along Telcon Way. New bus stops may be feasible here. Similarly, a bus stop may be feasible on Christchurch Way.
- 5.6 A comparison of the proposed option and the alternative option is given below in **Table 5.1**.

| Consideration | Current Option | Alternative Option |
|---|---|---|
| Deliverable without reliance on 3 rd Party Land at Morden Wharf | x | \checkmark |
| Deliverable without reliance on 3 rd Party Land at Christchurch Way | х | х |
| 640m of Morden Wharf | \checkmark | \checkmark |
| 640m of Enderby Place | \checkmark | ✓ |
| 400m of Morden Wharf | \checkmark | ✓ |
| 400m of Enderby Place | √ | ✓ |
| Service improves access at Enderby Wharf | √ | ✓ |
| Number of existing bus stops potentially served in addition to new stops | 1 – Stop MV only, adjacent to Morden Wharf | 3 – Stops MW, MT, and MP, adjacent to primary schools and employment |
| Route can remain within 640m of stops currently served at Millennium Village both ways | ? – unclear how achievable | \checkmark |
| Routeing avoids congested A102 entirely | ? – unclear how achievable without unnecessary diversion | ✓ |
| Potential to easily tie into improvements to future GP3 site | х | \checkmark |
| Deliverable without reliance on significant bus infrastructure, with carbon and cost implications | x | ✓ |
| Implementable from an early phase | x | ✓ |
| Route to station | ✓ | ✓ |
| Route to primary schools | x | ✓ |

Table 5.1Comparison of Options

5.7 As shown in the table above, the current option does not present as many benefits as the alternative option. The alternative route meets the PTAL walking distances, as well as bus stops being only a 400m walk distance for both Morden Wharf and Enderby Place. It would



be able to provide a bus connection to Millennium Village and existing schools, as well as improved access to the potential future connection to the GP3 site, which will provide retail/leisure development and employment. Whilst it is expected that trips to the GP3 site and Millennium Village will largely be undertaken by walk and cycle, bus access is a benefit for those less able to undertake active travel or in inclement weather.

- 5.8 The alternative option appears to offer benefit in maintaining similar north-south routes and avoids the more congested roads on the network entirely and should therefore maintain reasonable bus journey times and access on existing routes. It is not clear how the current option could achieve this.
- 5.9 On the weight of the above, it is proposed that the alternative option is progressed to the next stage as follows:
 - Feasibility of bus stop locations
 - Feasibility of two-way working along Christchurch Way
 - Assessment of existing and potential PTAL level



APPENDIX A – MORDEN WHARF S106

A1 Plan 2 – Block Plan, showing Bus Turning Loop



A2 Items from Section 1 – Definitions – Pertaining to Buses

| "Bus Driver Facilities Specification" | means the specification for the Temporary Bus Driver Facilities and the Permanent Bus Driver Facilities located at Annex 11; |
|--|--|
| "Bus Infrastructure | means the specification for the Temporary Bus Infrastructure and |
| Specification | the Permanent Bus Infrastructure located at Annex 12; |
| "Bus Service" | means a new and/or enhanced bus service that runs through Sea Witch Lane, Soames Street and the Temporary Bus Turning Facility or Permanent Bus Turning Facility through Soames Street to Enderby Place (which in all cases shall provide a continuous route connecting to the public highway or in the case of the bus service going through to Enderby Place connecting to public highway on Enderby Place or land over which the bus service has a right to use which ultimately connects to the public highway) with a minimum peak hour frequency of at least one bus every 12 minutes in each direction subject to TfL's absolute discretion in the exercise of its statutory functions; |
| 'Bus Service | means the sum of £2,500,000 (Two million five hundred thousand |
| Contribution" | pounds) Indexed to be paid to TfL as a contribution towards the Bus Service; |



| "Mobility Hub" | means an area or areas within the Development for the colocation of the Permanent Bus Driver Facilities and the bus stands (should any public bus service wish to pick up and drop off passengers within the Land) and location of the shared mobility modes including a Cycle Hire Scheme and Car Club Parking Spaces; |
|-----------------------|---|
| "Mobility Hub Scheme" | means a scheme submitted to the Council and TfL in accordance with the Sixth Schedule of this Deed detailing the details for the Mobility Hub which confirms: |
| | (a) the location, size and layout of the facilities that comprise the Mobility Hub; |
| | (b) a specification for the facilities that comprise the Mobility Hub; |
| | (c) details of the proposed Car Club, such details to include the location and number of Car Club Parking Spaces which are to be provided as part of the Mobility Hub; |
| | (d) details of the proposed Cycle Hire Scheme, such details to include the location and number of cycle hire stands which are to be provided as part of the facilities that comprise the Mobility Hub; |
| | (e) details of the Permanent Bus Driver Facilities; |
| | (f) the timetable for construction and delivery of the facilities that comprise the Mobility Hub; |
| | (g) the arrangements for the maintenance, operation and management of facilities that comprise the Mobility Hub; |



| "Parking Bays Contribution" | means the sum of £20,000 (twenty thousand pounds) Indexed to be paid to the Council as a contribution towards altering the free |
|---|---|
| | parking bays on Tunnel Avenue into permit-only to discourage private car ownership for residents of the Development; |
| "Permanent Bus Driver Facilities" | means a driver rest facility and toilet(s) for exclusive use by TfL and/or London Bus Services Ltd bus drivers and crew to be provided by the Owner: |
| | in accordance with the Bus Driver Facilities Specification; at grade level; in accordance with prevailing standards at the date of |
| | design; and at the Owner's cost |
| | within the Mobility Hub details for which shall be agreed with the Council and TfL as part of the Mobility Hub Scheme to be approved by the Council and TfL in accordance with the Sixth Schedule or as otherwise agreed with the Council; |
| "Permanent Bus Driver Facilities Lease" | means the lease or leases between the Owner and TfL or London Bus Services Limited of the Permanent Bus Driver Facilities and including rights to use the Permanent Bus Infrastructure to the extent that these are not situated on the public highway and with associated rights to enable the running of bus services over unadopted roads within the Land from the public highway to and from and over the Permanent Bus Turning Facility for a term of 250 years and at a peppercorn rent with no service charge or management fee, such lease to be in accordance with heads of terms located at Annex 10 and granted in accordance with paragraph 6.21.2 of the Sixth Schedule; |
| "Permanent Bus Infrastructure" | means bus cages, bus stands, bus stops, posts and flags and any other associated equipment or works to be provided in connection with the Permanent Bus Turning Facility (including any lighting or mechanical ventilation required in the event that the Permanent Bus Turning Facility is to be over sailed or enclosed on any of its sides or is to form part of a colonnade) on and/or off the Land at the Owner's cost in accordance with the Bus Infrastructure Specification and which meet prevailing standards at the date of design; |
| "Permanent Bus Infrastructure Contribution" | means the proper and reasonable sum payable to TfL for the estimated cost of TfL providing and/or installing the Permanent Bus Infrastructure which shall be calculated by TfL three months prior to the date for payment specified in paragraph 6.8 of the Sixth Schedule with deductions for the estimated or actual costs of any Permanent Bus Infrastructure that is installed by the Owner pursuant to paragraph 6.10 of the Sixth Schedule PROVIDED THAT the Owner shall supply appropriate documentation to evidence such costs; |



| "Permanent Bus Infrastructure Contribution Excess" | means such reasonable and proper sum or sums by which the actual cost of the Permanent Bus Infrastructure exceeds the Permanent Bus Infrastructure Contribution; |
|--|---|
| "Permanent Bus Turni Facility" | ng means the provision of a one way loop for buses and vehicles with space allowed to pass a stationary bus allowing for a bus to use the turning facility as a terminus; |
| "Temporary Bus Driver Facilities" | means an area designated within the Development for use as temporary drivers' facilities which is to include a driver rest facility and toilet(s) for exclusive use by TfL and/or London Bus Services Ltd bus drivers and crew to be provided by the Owner: in accordance with the Bus Driver Facilities Specification; at grade level; in accordance with prevailing standards at the date of design; and at the Owner's cost and which is to remain available for exclusive use by TfL and/or London Bus Services Ltd bus drivers until the Permanent Bus Driver Facilities are Practically Complete and are available for use |
| "Temporary Bus Driver Facilities Lease" | by TfL and/or London Bus Services Ltd bus drivers; means the lease or leases between the Owner and TfL or London Bus Services Limited of the Temporary Bus Driver Facilities together with rights to use the Temporary Bus Infrastructure to the extent that these are not situated on the public highway and with associated rights to enable the running of bus services over unadopted roads within the Land from the public highway to and from and over the Temporary Bus Turning Facility for a term of 250 years and at a peppercorn rent with no service charge or management fee, such lease to be in accordance with heads of terms located at Annex 10 and granted in accordance with paragraph 6.23 of the Sixth Schedule; |
| "Temporary Bus Infrastructure" | means the temporary bus cages, bus stands, bus stops, posts and flags and any other associated temporary equipment or works to be provided in connection with the Temporary Bus Turning Facility (including any lighting or mechanical ventilation required in the |

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event that the Temporary Bus Turning Facility is to be over sailed or enclosed on any of its sides or is to form part of a colonnade) on and/or off the Land at the Owner's cost in accordance with the Bus Infrastructure Specification and which meet prevailing standards at the date of design;

"Temporary Bus means the reasonable and proper sum payable to TfL based on Infrastructure the estimated cost of providing and/or installing the Temporary Bus Contribution" Infrastructure which shall be calculated by TfL three months prior to the date for payment specified in paragraph 6.16 of the Sixth Schedule with deductions for the estimated or actual costs of any Temporary Bus Infrastructure that is installed by the Owner pursuant to paragraph 6.18 of the Sixth Schedule PROVIDED THAT the Owner shall first supply appropriate documentation to evidence such costs; "Temporary Bus means such reasonable and proper sum or sums by which the Infrastructure actual cost of the provision of the Temporary Bus Infrastructure Contribution Excess" exceeds the Temporary Bus Infrastructure Contribution; "Temporary Bus Turning means the provision of a one way loop for buses and vehicles with Facility" space allowed to pass a stationary bus allowing for a bus to use the temporary turning facility as a terminus in a temporary location;



Existing TfL Bus Stops

Key

Site Location

640m Enderby Place Walking Isochrone

640m Morden Wharf Walking Isochrone

Bus Stops

Ξ







Greenwich

Bus

| Кеу | | |
|------|------------------|---------|
| | Site Location | 161 |
| Θ | Bus Stops | 180 |
| Gree | nwich Bus Routes | 335 |
| | 129 | 472 |
| | 132 | 486 |

Enderby Place

Wider

Routes





A2.1 Items from Schedule 6 Pertaining to Buses

6. Bus Turning Facility & Private Roads for Use by Buses

The Owner, the Council and TfL covenant with each other as follows:

Completion of the Permanent Bus Turning Facility and Permanent Bus Infrastructure

- 6.1 Not to submit any Reserved Matters Application in respect of above ground works comprised in a Block containing Residential Units until TfL has Approved the location of the Permanent Bus Turning Facility to be constructed on Soames Street or such alternative location as may be agreed with TfL and thereafter only to submit the relevant Reserved Matters Application in accordance with the details approved pursuant to this paragraph 6.1.
- 6.2 Not to submit a Reserved Matters Application in respect of above ground works comprised in a Block containing Residential Units which includes or is adjacent to the intended location for the Permanent Bus Turning Facility until TfL has Approved the design of the Permanent Bus Turning Facility to be constructed and thereafter to submit such a Reserved Matters Application in accordance with the details approved pursuant to this paragraph 6.2.
- 6.3 Where the Permanent Bus Turning Facility is to be provided on Soames Street to provide the Permanent Bus Turning Facility no later than the Practical Completion of Soames Street to the satisfaction of TfL.
- 6.4 Where the Permanent Bus Turning Facility is to be provided on the Land in an alternative location to Soames Street not to Implement any Reserved Matters Approval which includes the Permanent Bus Turning Facility or any Reserved Matters Approval in respect of above ground works comprised in a Block containing Residential Units adjacent to the Permanent Bus Turning Facility until a programme for the delivery of the Permanent Bus Turning Facility has been agreed with TfL and thereafter to provide the Permanent Bus Turning Facility on the Land in accordance with the programme agreed with TfL to the satisfaction of TfL.
- 6.5 Prior to the commencement of operational services over the Permanent Bus Turning Facility, TfL will require satisfactory completion of the Road Safety Audit and Bus Test (completion of which will be at TfL's sole discretion) and the Owner covenants with TfL that it will address any issues identified as part of the Road Safety Audit and Bus Test.
- 6.6 Prior to the Implementation of above ground works comprised in a Block containing Residential Units which includes or is adjacent to the intended location for the Permanent Bus Turning Facility the Owner shall agree with TfL whether the Permanent Bus Infrastructure is to be installed by TfL or by the Owner.


- 6.8 Subject always to paragraph 6.7, the Owner covenants with TfL that it shall pay the Permanent Bus Infrastructure Contribution to TfL either:
 - 6.8.1 three months prior to the date on which it is anticipated that the Permanent Bus Turning Facility will be Practically Complete; or
 - 6.8.2 if earlier, within 20 Working Days of request (such request to be accompanied by the necessary documentation to confirm TfL has obtained all necessary consents and rights to place the Permanent Bus Infrastructure in that location where the Permanent Bus Infrastructure is being located off-site).
- 6.9 If following Practical Completion of the supply, installation or provision of the Permanent Bus Infrastructure by TfL the cost to TfL is greater than the Permanent Bus Infrastructure Contribution the Owner covenants with TfL that it shall pay the Permanent Bus Infrastructure Contribution Excess following TfL's written request and following receipt by the Owner of evidence relating to the incurring of such excess and a proper invoice and to the extent that the actual cost to TfL is less than the Permanent Bus Infrastructure Contribution the unspent amount shall be returned by TfL to the Owner.
- 6.10 In consideration of payment of the Permanent Bus Infrastructure Contribution and subject to paragraphs 6.6 and 6.7 TfL shall install or procure the installation of the Permanent Bus Infrastructure as soon as reasonably practicable following the payment of the Permanent Bus Infrastructure Contribution (or part thereof) and the Owner shall make available the necessary and suitable land on the Land (including the necessary surfacing and inclusion of the necessary power supply and drainage in accordance with the Bus Infrastructure Specification) together with all necessary rights required in order to enable the installation of the Permanent Bus Infrastructure.
- 6.11 The Owner shall provide the Permanent Bus Turning Facility in accordance with paragraphs 6.3 or 6.4 by the later of:
 - 6.11.1 24 months from the date the Temporary Bus Turning Facility is available for use by bus services; or
 - 6.11.2 the Occupation of 1350 Residential Units.
- 6.12 In the event that the Permanent Bus Turning Facility has not been constructed and made available for use by the end of the period specified in paragraph 6.11 above to the satisfaction of TfL, the Owner shall not Occupy any further Residential Units beyond the end of that period until the Permanent Bus Turning Facility has been provided and a satisfactory Road Safety Audit and Bus Test completed (unless otherwise agreed with TfL).

Completion of the Temporary Bus Turning Facility and Temporary Bus Infrastructure

- 6.13 Where the Permanent Bus Turning Facility will not be complete prior to Occupation of the first Residential Unit and TfL confirms that it intends to run the Bus Service into the Site from Occupation of the first Residential Unit to:
 - 6.13.1 agree with TfL and the Council the location and form of a Temporary Bus Turning Facility six months prior to first Occupation of the first Residential Unit;
 - 6.13.2 provide the Temporary Bus Turning Facility and satisfactorily complete the Road Safety Audit and Bus Test in accordance with paragraph 6.14 below prior to Occupation of the first Residential Unit; and



- 6.13.3 not to Occupy or permit Occupation of the first Residential Unit until the Temporary Bus Turning Facility has been provided and the Road Safety Audit and Bus Test has been completed.
- 6.14 Prior to the commencement of operational services over the Temporary Bus Turning Facility, TfL will require satisfactory completion of the Road Safety Audit and Bus Test (completion of which will be at TfL's sole discretion) and the Owner covenants with TfL that it will address any issues identified as part of the Road Safety Audit and Bus Test. Where the Temporary Bus Turning Facility is required pursuant to paragraph 6.13 the Owner shall six months prior to Occupation of the first Residential Unit agree with TfL whether the Temporary Bus Infrastructure is to be installed by TfL or by the Owner.
- 6.15 In the event that TfL and the Owner agree that the Owner is to install all or any of the Temporary Bus Infrastructure on the Land at the Owner's cost or off the Land at the Owner's cost as part of any off-site highway works which the Owner is otherwise undertaking the Owner shall install the relevant Temporary Bus Infrastructure pursuant to the details approved by TfL and the Council and to a programme agreed between the Owner, TfL and the Council and the amount of the Temporary Bus Infrastructure Contribution shall be reduced commensurate to the cost of the Temporary Bus Infrastructure which the Owner is to install.
- 6.16 Where the Temporary Bus Turning Facility is required pursuant to paragraph 6.13 and subject always to paragraph 6.15, the Owner covenants with TfL and the Council that it shall pay the Temporary Bus Infrastructure Contribution to TfL either:
 - 6.16.1 three months prior to the date on which it is anticipated that the Temporary Bus Turning Facility will be Practically Complete; or
 - 6.16.2 if earlier, within 20 Working Days of request (such request to be accompanied by the necessary documentation to confirm TfL has obtained all necessary consents and rights to place the Temporary Bus Infrastructure in that location where the Temporary Bus Infrastructure is being located off-site).
- 6.17 If following Practical Completion of the supply, installation or provision of the Temporary Bus Infrastructure by TfL the cost to TfL is greater than the Temporary Bus Infrastructure Contribution the Owner covenants with TfL that it shall pay the Temporary Bus Infrastructure Contribution Excess following TfL's written request and following receipt by the Owner of evidence relating to the incurring of such excess and a proper invoice and to the extent that the actual cost to TfL is less than the Temporary Bus Infrastructure Contribution the unspent amount shall be returned by TfL to the Owner.



- 6.15 In the event that TfL and the Owner agree that the Owner is to install all or any of the Temporary Bus Infrastructure on the Land at the Owner's cost or off the Land at the Owner's cost as part of any off-site highway works which the Owner is otherwise undertaking the Owner shall install the relevant Temporary Bus Infrastructure pursuant to the details approved by TfL and the Council and to a programme agreed between the Owner, TfL and the Council and the amount of the Temporary Bus Infrastructure Contribution shall be reduced commensurate to the cost of the Temporary Bus Infrastructure which the Owner is to install.
- 6.16 Where the Temporary Bus Turning Facility is required pursuant to paragraph 6.13 and subject always to paragraph 6.15, the Owner covenants with TfL and the Council that it shall pay the Temporary Bus Infrastructure Contribution to TfL either:
 - 6.16.1 three months prior to the date on which it is anticipated that the Temporary Bus Turning Facility will be Practically Complete; or
 - 6.16.2 if earlier, within 20 Working Days of request (such request to be accompanied by the necessary documentation to confirm TfL has obtained all necessary consents and rights to place the Temporary Bus Infrastructure in that location where the Temporary Bus Infrastructure is being located off-site).
- 6.17 If following Practical Completion of the supply, installation or provision of the Temporary Bus Infrastructure by TfL the cost to TfL is greater than the Temporary Bus Infrastructure Contribution the Owner covenants with TfL that it shall pay the Temporary Bus Infrastructure Contribution Excess following TfL's written request and following receipt by the Owner of evidence relating to the incurring of such excess and a proper invoice and to the extent that the actual cost to TfL is less than the Temporary Bus Infrastructure Contribution the unspent amount shall be returned by TfL to the Owner.
- 6.18 In consideration of payment of the Temporary Bus Infrastructure Contribution and subject to paragraphs 6.14 and 6.15 TfL shall install or procure the installation of the Temporary Bus Infrastructure as soon as reasonably practicable following the payment of the Temporary Bus Infrastructure Contribution (or part thereof) and the Owner shall make available the necessary and suitable land on the Land (including the necessary surfacing and inclusion of the necessary power supply and drainage in accordance with the Bus Infrastructure Specification) together with all necessary rights required in order to enable the installation of the Temporary Bus Infrastructure.



Local highway authority consents

6.19 In the event that any of the Temporary Bus Driver Facilities, the Permanent Bus Driver Facilities, the Permanent Bus Turning Facility, the Temporary Bus Turning Facility, the Permanent Bus Infrastructure or the Temporary Bus Infrastructure is to be situated or relocated or repositioned on the local highway authority network, the Owner shall obtain the Approval of the Council to the location and design of the relevant infrastructure on reasonable terms acceptable to TfL before it

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is installed (with confirmation of such to be obtained from TfL in writing by the Owner and such Approval from the Council not to be unreasonably withheld or delayed).



| | <u>Bus Dri</u> | ver Facilities | Eeases |
|------|----------------|---|---|
| 6.21 | Subject | to paragrap | h 6.26, following Practical Completion of the Permanent Bus Turning Facility |
| | 6.21.1 | to permit T leading fro | IfL and London Bus Services Limited to run buses over the roads on the Lan om the public highway to the Permanent Bus Turning Facility; |
| | 6,21.2 | subject to grant) the the followi | paragraph 6.25 the Owner shall offer to grant (or shall procure an offer t Permanent Bus Driver Facilities Lease in accordance with paragraph 6.22 o ing terms: |
| | | 6.21.2.1 | the Permanent Bus Driver Facilities Lease shall be substantially i accordance with the heads of terms for the Bus Driver Facilities Leas located at Annex 10; |
| | | 6,21.2.2 | the Owner shall be responsible for preparing the draft Permanent Bu Driver Facilities Lease and shall provide the same to London Bus Service Limited (or another nominated TfL subsidiary) not later than 15 month prior to the anticipated date of the Permanent Bus Turning Facility being Practically Complete; |
| | | 6.21.2.3 | the Owner will provide confirmation that it has the relevant interest in the land which is to be demised by the Permanent Bus Driver Facilities Lease to London Bus Services Limited (or another nominated TfL subsidiary) to grant that lease to the reasonable satisfaction of TfL contemporaneously with providing the draft Bus Driver Facilities Lease to London Bus Services Limited (or another nominated TfL subsidiary); |
| | | 6.21.2.4 | the Owner will use reasonable endeavours to ensure that the final form of Permanent Bus Driver Facilities Lease is agreed with London Bus Service: Limited (or another nominated TfL subsidiary) without undue dela PROVIDED THAT if the final form of any Permanent Bus Driver Facilitie: Lease has not been agreed by the date 6 months prior to the anticipate date of the Permanent Bus Turning Facility being Practically Complete then the terms of the Permanent Bus Driver Facilities Lease may be referred to expert determination in accordance with clause 8; and |
| | | 6.21.2.5 | the date from which the bus services need to run shall be determined b TfL in consultation with the Owner and the Council. |



- 6,22 As soon as reasonably practicable following the later of:
 - 6.22.1 the agreement of the final form Permanent Bus Driver Facilities Lease pursuant to paragraph 6.21,2,4 or as determined in accordance with expert determination under clause 8; or
 - 6.22.2 three months prior to the anticipated Practical Completion of the Permanent Bus Turning Facility; or
 - 6.22,3 satisfactory completion of the Road Safety Audit and Bus Test

the Owner covenants with TfL that it shall offer to grant the Permanent Bus Driver Facilities Lease to London Bus Services Ltd (or another nominated TfL subsidiary) and TfL shall use reasonable endeavours to procure the acceptance of the Permanent Bus Driver Facilities Lease by London Bus Services Ltd (or another nominated TfL subsidiary).

- 6.23 In the event that either the Temporary Bus Turning Facility and/or the Temporary Bus Driver Facilities are required the Owner shall offer to grant TfL a Temporary Bus Driver Facilities Lease on the following terms:
 - 6.23.1 the Temporary Bus Driver Facilities Lease shall be in accordance with the heads of terms for the Bus Driver Facilities Lease located at Annex 10;
 - 6.23.2 the Owner shall be responsible for preparing the draft Temporary Bus Driver Facilities Lease and shall provide the same to London Bus Services Limited (or another nominated TfL subsidiary) not later than 6 months prior to the anticipated date of the Temporary Bus Turning Facility and/or Temporary Bus Driver Facilities (as relevant) being Practically Complete;
 - 6.23.3 the Owner will provide confirmation that it has the relevant interest in the land which is to be demised by the Temporary Bus Driver Facilities Lease to London Bus Services Limited (or another nominated TfL subsidiary) to grant that lease to the reasonable satisfaction of TfL contemporaneously with providing the draft Temporary Bus Driver Facilities Lease to London Bus Services Limited (or another nominated TfL subsidiary);
 - 6.23.4 the Owner will use reasonable endeavours to ensure that the final form of the Temporary Bus Driver Facilities Lease is agreed with London Bus Services Limited (or another nominated TfL subsidiary) without undue delay PROVIDED THAT if the final form of any Temporary Bus Driver Facilities Lease has not been agreed by the date 3 months prior to the anticipated date of the Temporary Bus Turning Facility being Practically Complete, then the terms of the Temporary Bus Driver Facilities Lease may be referred to expert determination in accordance with clause 8;
 - 6.23.5 the date from which the bus services need to run shall be determined by TfL in consultation with the Owner and the Council; and
 - 6.23.6 the Owner shall offer (or procure an offer) to surrender the Temporary Bus Driver Facilities Lease and grant the Permanent Bus Driver Facilities Lease in accordance with paragraph 6.21,2 upon Practical Completion of the Permanent Bus Turning Facility and/or Permanent Bus Driver Facilities (as relevant).
- 6.24 At the same time as offering the grant of the Permanent Bus Driver Facilities Lease or the Temporary Bus Driver Facilities Lease to London Bus Services Limited (or another nominated TfL subsidiary) the Owner covenants with TfL that it shall provide TfL with any third party consents, certificates or other approvals required to satisfy any subsisting restrictions on the Owner's title (or the title of the party granting the Permanent Bus Driver Facilities Lease or the Temporary Bus

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Driver Facilities Lease who derives title from the Owner) to permit the grant and subsequent registration of the Permanent Bus Driver Facilities Lease or the Temporary Bus Driver Facilities Lease.

- 6.25 The Owner covenants with TfL that TfL's and London Bus Services Ltd's reasonable and proper costs in connection with the negotiation, completion and registration of the Permanent Bus Driver Facilities Lease(s) and/or the Temporary Bus Driver Facilities Lease(s) shall be borne by the Owner.
- 6.26 In the event that TfL serves notice that it requires onward connection for buses into Enderby Place:
 - 6.26.1 the obligations in paragraph 6.1 to 6.5, 6.11 to 6.18 and 6.23 shall lapse;
 - 6.26.2 the words "in connection with the Permanent Bus Turning Facility" within the definition of "Permanent Bus Infrastructure" shall be read to mean "in connection with the Development";
 - 6.26.3 paragraphs 6.6, 6.8, 6.19 to 6.22 and 7 shall be read so that references to "Permanent Bus Turning Facility" are construed as references to the roads on the Land leading from the public highway to the boundary of the Enderby Place site from the end of Soames Street as shown on Plan 2; and
 - 6.26.4 the route shall be provided in accordance with a programme to be agreed between the Owner and TfL.

7. Bus Driver Facilities

The Owner covenants with the Council and TfL as follows:

- 7.1 To secure any necessary consents for the intended use of the Permanent Bus Driver Facilities and (if relevant) the Temporary Bus Driver Facilities at the Owner's cost and as Approved by TfL.
- 7.2 Where the Owner is providing a Temporary Bus Turning Facility, to provide either the Temporary Bus Driver Facilities or the Permanent Bus Driver Facilities prior to Practical Completion of the Temporary Bus Turning Facility.
- 7.3 When providing the Permanent Bus Turning Facility to provide either the Temporary Bus Driver Facilities or the Permanent Bus Driver Facilities prior to Practical Completion of the Permanent Bus Turning Facility.
- 7.4 To provide the Permanent Bus Driver Facilities as part of the fitting out of the Block identified in the Mobility Hub Scheme within which the Bus Driver Facilities are to be located and prior to Occupation of 1350 Dwellings.

8. Bus Service Contribution

The Owner covenants to the Council and TfL as follows:

- 8.1 To pay the Bus Service Contribution to TfL as follows:
 - 8.1.1 20% of the Bus Service Contribution shall be paid to TfL six months prior to the anticipated date of Occupation of the first Residential Unit;
 - 8.1.2 a further 20% of the Bus Service Contribution shall be paid to TfL on the first anniversary of the date on which the payment in paragraph 8.1.1 was paid or due to be paid

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(whichever is the earlier) PROVIDED THAT the Bus Service has commenced or where the Bus Service has not commenced, within 28 days of the Bus Service commencing;

- 8,1.3 a further 20% of the Bus Service Contribution shall be paid to TfL on the first anniversary of the date on which the payment in paragraph 8,1.2 was paid or due to be paid (whichever is the earlier) PROVIDED THAT the Bus Service is continuing to operate;
- 8.1.4 a further 20% of the Bus Service Contribution shall be paid to TfL on the second anniversary of the date on which the payment in paragraph 8,1.2 was paid or due to be paid (whichever is the earlier) PROVIDED THAT the Bus Service is continuing to operate; and
- 8.1.5 the final 20% of the Bus Service Contribution shall be paid to TfL on the third anniversary of the date on which the payment in paragraph 8.1.2 was paid or due to be paid (whichever is the earlier) PROVIDED THAT the Bus Service is continuing to operate.

Not to:

- 8.2.1 Occupy or permit the Occupation of the first Residential Unit until the first instalment of the Bus Service Contribution has been paid to TfL; nor
- 8.2.2 undertake any further construction of the Development following the anniversary dates upon which the further instalments of the Bus Service Contribution fall due to be paid unless the relevant instalment of the Bus Service Contribution Is due and has been paid to TfL.



10. Traffic Management Plan

- 10.1 The Owner covenants with the Council and TfL to submit a Traffic Management Plan to TfL for Approval prior to submission of the Reserved Matters Application in respect of above ground works comprised in a Block containing Residential Units which includes or is adjacent to the intended location for the Permanent Bus Turning Facility and by no later than the date that is six months before the Bus Service is intended to commence.
- 10.2 The Owner covenants with the Council and TfL not to submit the Reserved Matters Application in respect of above ground works comprised in a Block containing Residential Units which includes or is adjacent to the intended location for the Permanent Bus Turning Facility until the Traffic Management Plan submitted pursuant to paragraph 10,1 has been Approved by TfL,

10.3 The Owner covenants with the Council and TfL to implement the Approved Traffic Management Plan from the Occupation of the first Residential Unit or if later the date on which the Bus Service commences and for such period as the Bus Service is continuing to operate.



Technical Note

PTAL Assessment

Enderby Place, Greenwich

| Project Number: | 22181 |
|-----------------|--------------------------|
| Doc Number: | TN04 |
| Prepared for: | Criterion Capital |

18 May 2023

| Rev | Issue Purpose | Author | Checked | Reviewed | Approved | Date |
|-----|-------------------|--------|---------|----------|----------|----------|
| Α | Draft for comment | BG | SEC/DT | BG | DT | 17/05/23 |
| В | Final | BG | DT | BG | DT | 18/05/23 |

1. Introduction

- 1.1 Markides Associates (MA) has prepared this Technical Note (TN04) following pre-application discussions with Transport for London (TfL) and Royal Borough of Greenwich (RBG) in relation to development proposals at Enderby Place ('the site'). The discussion was supported by a Transport Assessment Scoping Note (Ref: 22181-MA-DR-SN01), Bus Options Technical Note (Ref: 22181-MA-DR-TN02) and an Alternative Bus Options Technical Note (Ref: 22181-MA-DR-TN03).
- 1.2 The proposals are expected to comprise some 600 residential units and circa 1,200sqm of employment floorspace with associated works including access, car and cycle parking, landscaping, amenity space and refuse storage.
- 1.1 To supplement the considerations regarding bus access to the site, this Technical Note considers the public transport accessibility (PTAL) level of the proposed development site, the Enderby Wharf site, and the Morden Wharf site under various scenarios. The analysis is set out to appraise the changes to PTAL under different bus routing options and access scenarios.

2. Site Context & Pre-Application Consultation

2.1 Enderby Place sits to the south of the Morden Wharf development site which was granted planning permission for up to 1,500 residential units and 17,311sqm commercial floorspace in June 2022 but is yet to be implemented, and to the north of the Enderby Wharf site which is built out and operational comprising 477 residential units.



- 2.2 Several options for potential bus access to Enderby Place were presented at pre application meetings with TfL and LBG; these were based on a number of assumptions, some of which followed previous communications with TfL.
- 2.3 As discussed in TN03, the topography across the Enderby Place site is challenging with limited scope for vehicle access. The Enderby Place site is significantly lower (approximately 4m) than the approved Morden Wharf site and this is therefore a fixed constraint. The Enderby Place development also has to meet requirements for servicing and disabled parking access which can only reasonably be provided in the basement. Any bus ramp reduces the amount of available basement space.
- 2.4 Telegraph Avenue at the southern edge of the site cannot be used for vehicle traffic without significant widening owing to width and overhead constraints, impacting on the viability of the site and generating adverse impact on the pedestrian and cycle link that has been created as part of Enderby Wharf.
- 2.5 Telcon Way meets the eastern edge of the site and therefore forms the only existing vehicle access that can be delivered within the applicant's control. Providing access at this point also limits the potential for vehicle movements to conflict with other pedestrian and cycle accesses farther within the proposed development.
- 2.6 TN03 provides further information on the viability of a bus route connection into the consented proposals for Morden Wharf and clarifies the policy position in respect of bus access through the two sites. It also considers an alternative and immediately deliverable bus route via Telcon Way. Notwithstanding the technical challenges of a ramp or other access issues, this note considers the benefit to overall PTAL of all bus route options.



3. Assessment Methodology

- 3.1 The PTAL Algorithm requires 2 main inputs the point-to-point walk distance between a given 'origin' to a public transport node, and the average weekday service frequency.
- 3.2 Ordinarily, a manual PTAL calculation would be undertaken using walk distances measured on site by an auditor from each point of interest to the respective nearest nodes. However, the Enderby Place site and Morden Wharf are both currently secured by hoarding and key areas are inaccessible, making physical measurement impractical.
- 3.3 As the assessment must also consider infrastructure which does not yet exist, GIS mapping software has been used to undertake network analysis. It accounts for walking speeds and distance and is capable of measuring routes. All other bus frequency information has been obtained from the most recent TfL bus timetables and routeing information publicly available and is summarised below.

Bus Services

3.4 The existing TfL bus stops and local bus routes that operate in the vicinity of the sites are illustrated in **Figure 3.1**. These services are all captured within the PTAL walk distance.



Figure 3.1 Local Bus Stops and Routes

Source: MA QGIS

3.5 The frequency and route for the associated local bus routes is given in **Table 3.1** below.



| Douto | Divertion | Pea | Peak Hour Frequency | | | Services | |
|-------|---|-----------|---------------------|--------------|-----------------|----------|--|
| Route | Direction | Weekday | Saturday | Sunday | First | Last | |
| 108 | Stratford International (Stop MU) | 7-11 mins | 9-12 mins | 2-4 per hour | 24-hour | service | |
| | Lewisham (Stop MW) | 9-12 mins | 8-12 mins | 2-4 per hour | | | |
| | Russell Square (Stop MP) | 8-12 mins | 8-12 mins | 9-13 mins | | | |
| 188 | North Greenwich (Stop MQ) | 8-12 mins | 9-13 mins | 10-14 mins | 24-hour service | | |
| 422 | North Greenwich 9-12 mins (Stop MQ) | | 9-12 mins | 10-13 mins | 04:42 | 00:50 | |
| 422 | North Greenwich (Stop MN) | 9-12 mins | 9-12 mins | 11-13 mins | 05:02 | 01:12 | |

Table 3.1Local Bus Services

3.6 The 108 service is restricted to a single-decker bus due to routeing through the Blackwall Tunnel, which is too low for double-decker vehicles.

4. Assessment Scenarios

- 4.1 This note considers how different routing options proposed could affect the PTAL rating of the site and immediate area. It sets out the results of the manual PTAL calculations based on the following bespoke scenarios:
 - Baseline Situation Validation existing bus services, to establish that the model used adequately mirrors the TfL's WebCAT tool and to test if the WebCAT tool is generating accurate PTALs (e.g., accounting for walking routes and more recent changes in bus services etc.);
 - Future Scenarios:
 - Scenario 1 applying the Morden Wharf bus proposals with the consented bus turnaround within the site only (a 'do-nothing' scenario);
 - Scenario 2 The Morden Wharf proposals plus the potential ramp through the Enderby Place proposed development; and
 - Scenario 3 The Morden Wharf proposals plus the alternative bus routing strategy taking buses along Telecon Way (and omitting the consented bus turnaround within the Morden Wharf proposal).
- 4.2 More detail on each scenario is provided below.

Scenario 1 – Morden Wharf Bus Proposals

4.3 At the planning stage, the Morden Wharf development presented an option for a TfL bus route to access the site via Tunnel Avenue and use a drop-off / turning area (referred to as



'Wilkie Green') to allow buses to stop, turn around and exit the site back onto Tunnel Avenue. No further analysis in terms of how this would affect PTAL scores, bus journey times by route, or route efficiency/running costs was undertaken.

- 4.4 In this scenario, alongside this bus stop and turning circle within the Morden Wharf site, there would be a pedestrian link to the Enderby Place site, allowing future residents and employees of both developments to access the bus service.
- 4.5 It must be noted that it is entirely unknown which of the existing bus services were or are intended to serve Morden Wharf at the time of that planning permission and recent discussions with TfL have confirmed that this has still not yet been fixed. The 108-bus service operates immediately adjacent to the site and would seem the obvious choice; however, this is an hourly service and limited to single-decker buses only. Other service routes which currently terminate at North Greenwich Station may be extended to include Morden Wharf.
- 4.6 In the wider area, buses stopping at North Greenwich Station are the 129, 132, 161, 180, 335, 472 and 486. The services and their frequencies are summarised in **Table 4.1**. These services all currently fall outside of the upper walk distance for a bus service as defined by the PTAL methodology, therefore, the baseline and future Scenario 1 do not factor in these services and are based solely on the bus services 108, 188 and 422. (Scenarios 2 and 3 consider the existing accessible bus services 108, 188 and 422 as well as diverting one of the bus services from North Greenwich Station towards the three sites.)



| Devite | Direction | Pea | Weekday Services | | | |
|--------|---|------------|------------------|------------|----------|---------|
| Route | Direction | Weekday | Saturday | Sunday | First | Last |
| 120 | Lewisham (Stop MC) | 10-14 mins | 12-14 mins | 3 per hour | 05:21 | 00:51 |
| 125 | North Greenwich (Stop ML) | 10-14 mins | 11-14 mins | 3 per hour | 05:44 | 01:16 |
| 122 | Geddes Place (Stop MC) | 8-12 mins | 9-12 mins | 4 per hour | 05:21 | 01:16 |
| 152 | North Greenwich (Stop ML) | 6-12 mins | 9-12 mins | 4 per hour | 05:00 | 00:59 |
| 161 | Chistlehurst (Stop MC) | 11-13 mins | 9-13 mins | 11-13 mins | 05:21 | 01:11 |
| 101 | North Greenwich (Stop ML) | 10-13 mins | 9-12 mins | 11-13 mins | 05:09 | 00:57 |
| 190 | Erith Quarry (Stop MC) | 8-12 mins | 8-11 mins | 4 per hour | 05:08 | 01:03 |
| 100 | North Greenwich (Stop ML) | 8-12 mins | 8-12 mins | 4 per hour | 05:21 | 00:30 |
| 225 | Wingfield School (Stop MC) | 11-13 mins | 11-13 mins | 4 per hour | 05:02 | 00:32 |
| 333 | North Greenwich (Stop ML) | 11-14 mins | 11-14 mins | 4 per hour | 05:21 | 00:49 |
| 470 | Abbey Wood Station (Stop MC) | 6-10 mins | 8-12 mins | 4 per hour | 24 hour | Sonvico |
| 472 | North Greenwich (Stop ML) | 6-10 mins | 8-12 mins | 4 per hour | 24-11001 | Service |
| 486 | Friswell Place/ Bexleyheath (Stop MC) | 6-11 mins | 10-13 mins | 4 per hour | 05:18 | 01:18 |
| | North Greenwich (Stop ML) | 7-10 mins | 9-14 mins | 4 per hour | 05:01 | 01:04 |

Table 4.1 Greenwich Bus Services and Frequencies

4.7 These routes are illustrated in **Figure 4.1**.





Figure 4.1 Greenwich Bus Routes

- 4.8 As shown in the figure above, there is significant overlap in routeing for existing bus services to North Greenwich Station and there could be scope to redirect a service to better serve the Morden Wharf, Enderby Wharf and Enderby Place sites.
- 4.9 A sketch illustration of the arrangement for Scenario 1 is shown in **Figure 4.2**.







Source: MA QGIS

Scenario 2 – Enderby Place Bus Ramp

- 4.10 Early expectations for the Morden Wharf and Enderby Place sites involved a bus connection between the Enderby Place site and Morden Wharf development to the north via a dedicated ramp. Morden Wharf ultimately obtained planning consent for the Wilkie's Green turning head in lieu of the ramp on the basis that the ramp was unfeasible to deliver.
- 4.11 Subsequent pre-application discussion in relation to the Enderby Place proposals has resulted in a request for the ramp connection to be re-examined. It is again assumed to be served by the extension of one of the existing routes terminating at North Greenwich, which would enter Morden Wharf and continue south via Enderby Place then along Christchurch Way, albeit this section of the road is private. It is not known where routes would continue past that point; however, this would not affect the PTAL score as destination is not considered in the calculation. Furthermore, it does not affect the PTAL score whether this is a new or diverted bus services.
- 4.12 Notwithstanding the engineering issues relating to the provision of a ramp between the Morden Wharf and Enderby Place sites, Scenario 2 considers how providing a redirected bus service through the Morden Wharf and Enderby Place sites via a ramp with a bus stops within Morden Wharf and along Christchurch Way would affect the PTAL scores of the three sites. The gradient of the bus ramp and the distance from the Morden Wharf stop would mean that a bus stop would not be provided within Enderby Place.



- 4.13 The scenario appraised assumes the average weekday peak frequency of one of the existing Greenwich bus routes, i.e., a service every 10-minutes.
- 4.14 The bus routing options considered within Scenarios 2 and 3 are illustrated in **Figure 4.3** below.





Source: MA QGIS

Scenario 3 – Alternative Bus Strategy

- 4.15 Scenario 3 explores an alternative option that omits the loop into Morden Wharf, the bus ramp through the Enderby Place site and instead diverts a bus route along Millennium Way, Blackwall Lane, Telcon Way and Christchurch Way with new bus stops adjacent to the Enderby Place and Enderby Wharf sites.
- 4.16 As per the previous scenario, Scenario 3 assumes the average weekday peak frequency of one of the existing Greenwich bus routes, i.e., a service every 10-minutes. The bus routing option is also illustrated in **Figure 4.3** above. Scenario 2 and Scenario 3 therefore assess the same bus services and frequencies, with the only difference being the routing of the bus.

TfL WebCAT PTAL

The PTAL calculation assumes that people will walk up to 640m (approximately 8-minutes) to a bus service and up to 960m (12-minutes) to a rail or Tube service (assuming 4.8km/h). Public transport notes beyond the threshold, even by a matter of centimetre, are assumed by the algorithm not to exist.

4.18 PTAL scores are shown in WebCAT as a grid of squares where each side of each square is 100m, and the PTAL score shown is calculated from the point in the centre of the square, regardless of other variables such as where accesses are situated. The PTAL score is based on the average frequency of services between 08:15 and 09:15 during the morning weekday peak and only the nearest node is included in the assessment for each unique public transport service available. Factoring in scheduled and average waiting times, the Access Index (AI) is calculated for each grid and converted to PTAL using the bands shown in **Figure 4.4**.

| PTAL | Access Index range | Map colour |
|-----------|--------------------|------------|
| 0 (worst) | 0 | |
| la | 0.01 – 2.50 | |
| lb | 2.51 - 5.0 | |
| 2 | 5.01 – 10.0 | |
| 3 | 10.01 - 15.0 | |
| 4 | 15.01 – 20.0 | |
| 5 | 20.01 - 25.0 | |
| 6a | 25.01 - 40.0 | |
| 6b (best) | 40.01+ | |

Figure 4.4 Conversion of AI to PTAL¹

Source: TfL

- 4.19 The numeric scores are subsequently also graded qualitatively as follows:
 - 0 = No PTAL
 - 1a = Very Poor
 - 1b = Very Poor
 - 2 = Poor
 - 3 = Moderate
 - 4 = Good
 - 5 = Very Good
 - 6a = Excellent
 - 6b = Excellent

¹ Source: <u>https://content.tfl.gov.uk/connectivity-assessment-guide.pdf</u> (Table 2.2)



5. Existing WebCAT Outputs

Base Year

5.1 The existing WebCAT PTAL scores across the three sites in the base year scenario are illustrated in **Figure 5.1** below, with the full output report for each grid included in **Appendix A**.



Figure 5.1 WebCAT Output – Base Year

Source: TfL WebCAT² & MA QGIS

5.2 **Figure 5.1** demonstrates that the Enderby Place and Enderby Wharf sites have a combination of scores of 1a and 2 and the Morden Wharf site has a range from 0 (no score) to 2 in the base year. Overall, the TfL WebCAT PTAL shows a very poor to poor score.

2031

5.3 The PTAL scores for the sites in the WebCAT 2031 forecast scenario, in which bus services are based on a 3% uplift in frequencies from the base year network, are illustrated in Figure 5.2.

² https://tfl.gov.uk/info-for/urban-planning-and-construction/planning-with-webcat/webcat





Figure 5.2 WebCAT Output – 2031 Forecast

Source: TfL WebCAT & MA QGIS

5.4 **Figure 5.2** demonstrates that the WebCAT tool predicts no improvement to the PTAL scores in the 2031 forecast year on the basis of a small uplift in bus services (i.e., without implementation of schemes such as the Morden Wharf and Enderby Place developments).

6. Manual Calculation of Existing Situation (Validation)

- 6.1 Prior to testing the future scenarios, a validation has been run of the calculations of the existing situation which can be found in **Appendix B**. However, the TfL WebCAT PTAL algorithms (including those for future years) can include inaccuracies as the data sets from which it draws are not always reflective of on-site conditions. Bus stops may have been moved or closed, services have recently been amended which may not be reflected yet in the database, and most commonly, routes to public transport nodes are based on the vehicle road network only, excluding walking routes to services which could shorten walk distances and affect the PTAL score.
- 6.2 Therefore, the manual calculation of the PTAL rating for the three sites based on the existing operational bus stops and services within 640m walking distance (as per **Table 3.1**) has been localised. It includes the network of new footpaths through the Enderby Wharf site and the assumed principle pedestrian connections through the Enderby Place and Morden Wharf sites which are shown in **Figure 6.1**.





Figure 6.1 Network of Footpaths Through Sites

Source: MA QGIS

6.3 Furthermore, rather than calculating the walking distances from the centre point of each square in the grid, the walking distances for the manual PTAL calculation have been taken from a central point within the site boundary within the grid, to reflect a more representative walking distance for the site users. This is illustrated in **Figure 6.2** below.







Source: MA QGIS

6.4 **Figure 6.2** demonstrates that the baseline PTAL score manually calculated for each site is higher that the TfL WebCAT score in a number of grids, particularly within the Morden Wharf site. The only grid with the lowest score of 1a is within the south-eastern side Morden Wharf site as the walking distance has been calculated assuming no through-route into the Enderby Place site to the south.

7. Future Scenarios

Scenario 1 – Morden Wharf Bus Proposals

7.1 Assuming the current frequency of the 108 service is maintained and a pedestrian link into the Enderby Place site is established as intended, the expected PTAL scores for the sites applying Scenario 1 (diverting the 108 service into the Morden Wharf site with a turnaround) is illustrated in **Figure 7.1**. The workings for each scenario are included in **Appendix A**.







Source: MA QGIS

- 7.2 The results demonstrate that whilst the addition of the bus stop within the Morden Wharf site reduces the walking distance to access the 108 service, which increases the AI in the majority of grids, this does not do so to an extent which increases the PTAL score into a higher banding above 'very poor' or 'poor' (as shown in **Figure 4.4**). This is with the exception of one area within the south-eastern part of the Morden Wharf site which score increases from 1a to 1b.
- 7.3 Where the PTAL score has improved within the Morden Wharf site, this is primarily due to creation of a pedestrian connection through Enderby Place, allowing users to take a 'short-cut' along Telcon Way to access the bus services 188 and 422 on Blackwall Lane which are otherwise beyond 640m walking distance.
- 7.4 Therefore, it can be concluded that whilst it offers general benefit, diverting the 108-bus service through the Morden Wharf site to utilise a new turning circle and bus stop would not increase the PTAL of the three sites.

Scenario 2 – Enderby Place Ramp

7.5 The assessment in Scenario 1 confirms that there would be little to no improvement to the PTAL score of the three sites should the existing 108 bus service be diverted through the Morden Wharf site using a turning circle, and the same conclusion can be made if the service 108 were to continue along a bus ramp into the Enderby Place site.



- 7.6 The primary benefit to public transport accessibility comes from a pedestrian connection through the sites rather than a vehicular connection, or the diversion of an additional bus service that is not currently within walking distance of the sites.
- 7.7 Assuming a redirected bus service through the Morden Wharf and Enderby Place sites via a ramp with a bus stop within Morden Wharf and stops along Telcon Way and Christchurch Way (in addition to the existing accessible 108, 188 and 422 bus services), the results indicating the revised PTAL scores for each grid associated with Scenario 2 are demonstrated in **Figure 7.2**.



Figure 7.2 Scenario 2 PTAL

Source: MA QGIS

7.8 The results demonstrate that a diverted bus route through the Morden Wharf and Enderby Wharf sites via a bus ramp and along Christchurch Way past Enderby Wharf would increase the PTAL score to 2 for most grids. The westernmost area within Morden Wharf would remain a score of 1b and the south-eastern corner of the Enderby Wharf site would increase to a score of 3. This represents a marginal improvement to the public transport accessibility for areas within the Morden Wharf and Enderby Wharf sites.

Scenario 3 – Alternative Bus Strategy

7.9 Assuming a diverted bus service along Telcon Way and Christchurch Way (in addition to the existing accessible 108, 188 and 422 bus services, without the addition of a bus ramp between the Morden Wharf and Enderby Place sites) the results demonstrate that there would be no difference in PTAL score to Scenario 2, as illustrated in **Figure 7.3**. This is because



the pedestrian connection between the Morden Wharf and Enderby Places sites would facilitate users of the Morden Wharf development to access the new bus stops on Telcon Way within 640m walking distance.





Source: MA QGIS

7.10 Therefore, there is no additional benefit to having a ramp to facilitate bus service routing through the sites and instead, buses can simply be diverted along Telcon Way to serve all developments to achieve the same outcome regarding public transport accessibility.



8. Summary and Conclusions

Summary

8.1 A table summarising the results with comments alongside each scenario is outlined in Table
 8.1 below, corresponding to the grid numbers illustrated in Figure 8.1. The full workings for each scenario are included in Appendix A.



Figure 8.1 Grid Numbering

Source: MA QGIS

Table 8.1 PTAL Assessment Summary

| Grid | Web | OCAT PTAL | Existing | Validation | Comments | Sce | nario 1 | Comments | Scenario 2 | | Comments | Sc | enario 3 | Comments |
|------|-----|--------------|----------|--------------|---|---------------------------|--------------|--|------------|-----------|--|----|-----------|---|
| 1 | 0 | No Score | 1b | Very Poor | WebCAT measures from centre of grid, we have re-measured from a point within the Morden Wharf site boundary which is within walking distance of bus stops | 1b | Very Poor | No benefit to existing PTAL | 1b | Very Poor | No benefit to existing PTAL | 1b | Very Poor | No benefit to existing PTAL |
| 2 | 1a | Very Poor | 2 | Poor | WebCAT does not factor in walking route along Morden Wharf | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 3 | 1a | Very Poor | 1b | Very Poor | As above | 2 | Poor | Reduced walking distance to access bus service 108 due to addition of bus stop within Morden Wharf site and reduced walking times to the bus stop on Blackwall Lane due to pedestrian connection through Enderby Place site | 2 | Poor | Reduced walking distance to access bus service due to addition of bus stop within Morden Wharf site and reduced walking times to the bus stop on Blackwall Lane due to pedestrian connection through Enderby Place site | 2 | Poor | Reduced walking distance to bus stop on Blackwall Lane due to pedestrian connection through Enderby Place site and access to additional bus service via new stop on Telcon Way |
| 4 | 1a | Very Poor | 1a | Very Poor | No change | 2 | Poor | As above | 2 | Poor | As above | 2 | Poor | As above |
| 5 | 1b | Very Poor | 1b | Very Poor | No change | 2 | Poor | As above | 2 | Poor | As above | 2 | Poor | As above |
| 6 | 1b | Very Poor | 1b | Very Poor | No change | No change 1b Very Poor | | No benefit to existing PTAL | 2 | Poor | Reduced walking distance to new bus stops on Christchurch Way | 2 | Poor | Reduced walking distance to new bus stops on Christchurch Way |
| 7 | 1b | Very Poor | 1b | Very Poor | No change | 1b | Very Poor | No benefit to existing PTAL | 2 | Poor | As above | 2 | Poor | As above |
| 8 | 1b | Very Poor | 2 | Poor | WebCAT does not factor in walking route along Morden Wharf | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 9 | 1a | Very Poor | 1b | Very Poor | WebCAT does not capture walking routes through the site | 1b | Very Poor | No benefit to existing PTAL | 2 | Poor | Benefits from additional service offered | 2 | Poor | Benefits from additional service offered |
| 10 | 1b | Very Poor | 1b | Very Poor | No change | 1b | Very Poor | No benefit to existing PTAL | 2 | Poor | As above | 2 | Poor | As above |
| 11 | 2 | Poor | 2 | Poor | No change | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 12 | 1b | Very Poor | 2 | Poor | WebCAT does not include internal footpaths through Enderby Wharf development | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | | Poor | No benefit to existing PTAL |
| 13 | 2 | Poor | 2 | Poor | No change | 2 | Poor | No benefit to existing PTAL | 3 | Moderate | Reduced walking distance to new bus stops on Christchurch Way | 3 | Moderate | Reduced walking distance to new bus stops on Christchurch Way |
| 14 | 1a | Very Poor | 2 | Poor | WebCAT does not factor in walking route along Morden Wharf Road | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 15 | 2 | Poor | 2 | Poor | As above | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |





Conclusions

- 8.2 This Technical Note has considered the public transport accessibility (PTAL) level of the proposed development site, the Enderby Wharf site, and the Morden Wharf site under various scenarios. The analysis was undertaken to appraise the changes to PTAL under different bus routing options and access scenarios.
- 8.3 It is evident that the implementation of a bus route connecting Morden Wharf and Enderby Place, even if technically deliverable, would offer no benefit in increasing the overall PTAL rating of the respective sites when compared to an alternative route via Telcon Way that would be immediately deliverable and would not pose the technical challenges associated with a bus ramp.
- 8.4 It is therefore considered that the rerouting option identified should be considered in more detail.



APPENDIX A – WEBCAT PTAL OUTPUTS





| PTAL output for Base Year 0 | |
|---|-----------------------------|
| F2V2+7V London, UK Easting: 539090, Northing: 179033 | |
| Grid Cell: 73560 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 koh |
| | · • |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Node Max. Walk Access Time (mins) Bus ReliabilityFactor | 8 20 |
| Bus Node Max. Walk Access Time (mins) Bus ReliabilityFactor LU Station Max. Walk Access Time (mins) | 8 20 12 |
| Bus Node Max. Walk Access Time (mins) Bus ReliabilityFactor LU Station Max. Walk Access Time (mins) LU ReliabilityFactor | 8 2.0 12 0.75 |
| Bus Node Max. Walk Access Time (mins) Bus ReliabilityFactor LU Station Max. Walk Access Time (mins) LU ReliabilityFactor National Rail Station Max. Walk Access Time (mins) | 8 20 12 0.75 12 |







| PTAL output for Base Year 1a | |
|---|---------|
| F2V3+FC London, UK Easting: 539187, Northing: 179099 | |
| Grid Cell: 74045 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|--|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | А | |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 523.23 | 6 | 6.54 | 7 | 13.54 | 2.22 | 1 | 2.22 | |
| | | | | | | | | | Total Grid Cell Al: | 2.22 | |



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|-------------------|--------|--------------|----------------------|----------|-------------------------|
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| PTAL output for Base Year 1a | | | | | | | | | |
|---|---------|--|--|--|--|--|--|--|--|
| F2V3+77 London, UK Easting: 539158, Northing: 179038 | | | | | | | | | |
| Grid Cell: 73561 | | | | | | | | | |
| Report generated: 16/05/2023 | | | | | | | | | |
| | | | | | | | | | |
| Calculation Parameters | | | | | | | | | |
| Day of Week | M-F | | | | | | | | |
| Time Period | AM Peak | | | | | | | | |
| Walk Speed | 4.8 kph | | | | | | | | |
| Bus Node Max. Walk Access Time (mins) | 8 | | | | | | | | |
| Bus ReliabilityFactor | 2.0 | | | | | | | | |
| LU Station Max. Walk Access Time (mins) | 12 | | | | | | | | |
| LU ReliabilityFactor | 0.75 | | | | | | | | |
| National Rail Station Max. Walk Access Time (mins) | 12 | | | | | | | | |
| National Rail ReliabilityFactor | 0.75 | | | | | | | | |
| | | | | | | | | | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 519.98 | 6 | 6.5 | 7 | 13.5 | 2.22 | 1 | 2.22 |
| | | | | | | | | | Total Grid Cell Al: | 2.22 |


| | | orden Wharf Rd | |
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| | | 76 | |
| | lympian-Wa | | |
| Google | | Telegraph A ^{ie} | Map data ©2023 |

| PTAL output for Base Year 1a | | | | | | | | |
|---|---------|--|--|--|--|--|--|--|
| F2R3+W6 London, UK Easting: 539154, Northing: 178939 | | | | | | | | |
| Grid Cell: 73076 | | | | | | | | |
| Report generated: 16/05/2023 | | | | | | | | |
| Calculation Parameters | | | | | | | | |
| Dayof Week | M-F | | | | | | | |
| Time Period | AM Peak | | | | | | | |
| Walk Speed | 4.8 kph | | | | | | | |
| Bus Node Max. Walk Access Time (mins) | 8 | | | | | | | |
| Bus ReliabilityFactor | 2.0 | | | | | | | |
| LU Station Max. Walk Access Time (mins) | 12 | | | | | | | |
| LU ReliabilityFactor | 0.75 | | | | | | | |
| National Rail Station Max. Walk Access Time (mins) | 12 | | | | | | | |
| National Rail ReliabilityFactor | 0.75 | | | | | | | |
| | | | | | | | | |



| Calcul | ation data | | | | | | | | | |
|--------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|-----|---------------------|---|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 638.42 | 6 | 7.98 | 7 | 14.98 | 2 | 1 | 2 |
| | | | | | | | | | Total Grid Cell Al: | 2 |



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| Coogle | Manilla | Walk A | rus Field St Itwood Ln Map data ©2023 |

| PTAL output for Base Year 1b | | N |
|--|---------|---|
| 191 Tunnel Ave, London SE10 0GR, UK Easting: 539158, Northing: 178808 | | |
| Grid Cell: 72590 | | |
| Report generated: 16/05/2023 | | |
| Calculation Parameters | | |
| Dayof Week | M-F | |
| Time Period | AM Peak | |
| Walk Speed | 4.8 kph | |
| Bus Node Max. Walk Access Time (mins) | 8 | |
| Bus ReliabilityFactor | 2.0 | |
| LU Station Max. Walk Access Time (mins) | 12 | |
| LU ReliabilityFactor | 0.75 | |
| National Rail Station Max. Walk Access Time (mins) | 12 | |
| National Rail ReliabilityFactor | 0.75 | |



| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 525.89 | 6 | 6.57 | 7 | 13.57 | 2.21 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 525.89 | 8 | 6.57 | 5.75 | 12.32 | 2.43 | 1 | 2.43 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 560.12 | 6 | 7 | 7 | 14 | 2.14 | 0.5 | 1.07 |
| | | | | | | | | | Total Grid Cell Al: | 4.61 |
| | | | | | | | | | | |



| 7 | | 1 | 12. | 0 88 | | | | F |
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| 11NIIIIIIINI | W Gřest | Nympian-Way | Mani Kido Interna rsery & Prese | la-Walk- | cynrch Way | us Field St wood Ln | Telcon Rd Mauritius Rd | |
| 11 X | Boogle | На | rrison Walk | Somning St | Christ Azof S | | Map data 0 | 32023 |

| PTAL output for Base Year 1b | |
|--|---------|
| 21 Telegraph Ave, London SE10 0TH, UK Easting: 539157, Northing: 178728 | |
| Grid Cell: 72103 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 517.54 | 6 | 6.47 | 7 | 13.47 | 2.23 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 517.54 | 8 | 6.47 | 5.75 | 12.22 | 2.46 | 1 | 2.46 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 551.78 | 6 | 6.9 | 7 | 13.9 | 2.16 | 0.5 | 1.08 |
| | | | | | | | | | Total Grid Cell Al: | 4.65 |
| | | | | | | | | | | |





| PTAL output for Base Year 1b | |
|---|---------|
| 34 Cable Walk, London SE10 0TS, UK Easting: 539159, Northing: 178668 | |
| Grid Cell: 71617 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcul | Calculation data | | | | | | | | | | | |
|--------|------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|--|--|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A | | |
| Bus | BLACKWALL LANE AZOF ST | 422 | 537.72 | 6 | 6.72 | 7 | 13.72 | 2.19 | 0.5 | 1.09 | | |
| Bus | BLACKWALL LANE AZOF ST | 188 | 537.72 | 8 | 6.72 | 5.75 | 12.47 | 2.41 | 1 | 2.41 | | |
| | | | | | | | | | Total Grid Cell Al: | 3.5 | | |
| | | | | | | | | | | | | |





| PTAL output for Base Year 1b | | | | | | | | | |
|--|---------|--|--|--|--|--|--|--|--|
| 215 Tunnel Ave, London SE10 0QW, UK Easting: 539275, Northing: 179113 | | | | | | | | | |
| Grid Cell: 74046 | | | | | | | | | |
| Report generated: 16/05/2023 | | | | | | | | | |
| | | | | | | | | | |
| Calculation Parameters | | | | | | | | | |
| Dayof Week | M-F | | | | | | | | |
| Time Period | AM Peak | | | | | | | | |
| Walk Speed | 4.8 kph | | | | | | | | |
| Bus Node Max. Walk Access Time (mins) | 8 | | | | | | | | |
| Bus Reliability Factor | 2.0 | | | | | | | | |
| LU Station Max. Walk Access Time (mins) | 12 | | | | | | | | |
| LU ReliabilityFactor | 0.75 | | | | | | | | |
| National Rail Station Max. Walk Access Time (mins) | 12 | | | | | | | | |
| National Rail ReliabilityFactor | 0.75 | | | | | | | | |
| | | | | | | | | | |



| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 628.29 | 6 | 7.85 | 7 | 14.85 | 2.02 | 0.5 | 1.01 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 628.29 | 8 | 7.85 | 5.75 | 13.6 | 2.21 | 0.5 | 1.1 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 407.37 | 6 | 5.09 | 7 | 12.09 | 2.48 | 1 | 2.48 |
| | | | | | | | | | Total Grid Cell Al: | 4.59 |
| | | | | | | | | | | |





| PTAL output for Base Year 1a | | | | | | |
|---|---------|--|--|--|--|--|
| F2V3+7Q London, UK Easting: 539248, Northing: 179046 | | | | | | |
| Grid Cell: 73562 | | | | | | |
| Report generated: 16/05/2023 | | | | | | |
| Calculation Parameters | | | | | | |
| Dayof Week | M-F | | | | | |
| Time Period | AM Peak | | | | | |
| Walk Speed | 4.8 kph | | | | | |
| Bus Node Max. Walk Access Time (mins) | 8 | | | | | |
| Bus ReliabilityFactor | 2.0 | | | | | |
| LU Station Max. Walk Access Time (mins) | 12 | | | | | |
| LU ReliabilityFactor | 0.75 | | | | | |
| National Rail Station Max. Walk Access Time (mins) | 12 | | | | | |
| National Rail ReliabilityFactor | 0.75 | | | | | |
| | | | | | | |



| Calcul | ation data | | | | | | | | | |
|--------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 474.12 | 6 | 5.93 | 7 | 12.93 | 2.32 | 1 | 2.32 |
| | | | | | | | | | Total Grid Cell Al: | 2.32 |





| PTAL output for Base Year 1b | |
|---|---------|
| F2R3+WQ London, UK Easting: 539252, Northing: 178940 | |
| Grid Cell: 73077 | |
| Report generated: 16/05/2023 | |
| Calculation Parameters | |
| Day of Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |



National Rail ReliabilityFactor

0.75

| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 485.89 | 6 | 6.07 | 7 | 13.07 | 2.29 | 0.5 | 1.15 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 485.89 | 8 | 6.07 | 5.75 | 11.82 | 2.54 | 1 | 2.54 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 520.12 | 6 | 6.5 | 7 | 13.5 | 2.22 | 0.5 | 1.11 |
| | | | | | | | | | Total Grid Cell Al: | 4.8 |
| | | | | | | | | | Total Grid Cell Al: | 4.8 |





| PTAL output for Base Year 2 | |
|---|---------|
| 1 Telegraph Ave, London SE10 0TA, UK Easting: 539254, Northing: 178805 | |
| Grid Cell: 72591 | |
| Report generated: 16/05/2023 | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 420.89 | 6 | 5.26 | 7 | 12.26 | 2.45 | 0.5 | 1.22 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 420.89 | 8 | 5.26 | 5.75 | 11.01 | 2.72 | 1 | 2.72 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 455.12 | 6 | 5.69 | 7 | 12.69 | 2.36 | 0.5 | 1.18 |
| | | | | | | | | | Total Grid Cell Al: | 5.13 |
| | | | | | | | | | | |





| PTAL output for Base Year 1b 5 Telegraph Ave, London SE10 0AG, UK Easting: 539248, Northing: 178732 Grid Cell: 72104 Report generated: 16/05/2023 | |
|--|---------|
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 470.68 | 6 | 5.88 | 7 | 12.88 | 2.33 | 0.5 | 1.16 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 470.68 | 8 | 5.88 | 5.75 | 11.63 | 2.58 | 1 | 2.58 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 504.92 | 6 | 6.31 | 7 | 13.31 | 2.25 | 0.5 | 1.13 |
| | | | | | | | | | Total Grid Cell Al: | 4.87 |
| | | | | | | | | | | |





| PTAL output for Base Year 2 | |
|---|---------|
| 24 Cable Walk, London SE10 0TQ, UK Easting: 539239, Northing: 178661 | |
| Grid Cell: 71618 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | ation data | | | | | | | | | |
|-------|--------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | TRAFALGAR R BLACKWALL LN | 286 | 552.37 | 6 | 6.9 | 7 | 13.9 | 2.16 | 0.5 | 1.08 |
| Bus | TRAFALGAR R BLACKWALL LN | 180 | 552.37 | 5 | 6.9 | 8 | 14.9 | 2.01 | 0.5 | 1.01 |
| Bus | TRAFALGAR R BLACKWALL LN | 386 | 552.37 | 4 | 6.9 | 9.5 | 16.4 | 1.83 | 0.5 | 0.91 |
| Bus | TRAFALGAR R BLACKWALL LN | 177 | 552.37 | 6 | 6.9 | 7 | 13.9 | 2.16 | 0.5 | 1.08 |
| Bus | TRAFALGAR R BLACKWALL LN | 129 | 552.37 | 7.5 | 6.9 | 6 | 12.9 | 2.32 | 0.5 | 1.16 |
| Bus | BLACKWALL LANE AZOF ST | 422 | 432.72 | 6 | 5.41 | 7 | 12.41 | 2.42 | 0.5 | 1.21 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 432.72 | 8 | 5.41 | 5.75 | 11.16 | 2.69 | 1 | 2.69 |
| | | | | | | | | | Total Grid Cell Al: | 9.14 |





| PTAL output for Base Year 1b | |
|--|---------|
| 215 Tunnel Ave, London SE10 0QW, UK Easting: 539310, Northing: 179157 | |
| Grid Cell: 74047 | |
| Report generated: 17/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |



| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 523.35 | 6 | 6.54 | 7 | 13.54 | 2.22 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 523.35 | 8 | 6.54 | 5.75 | 12.29 | 2.44 | 1 | 2.44 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 456.47 | 6 | 5.71 | 7 | 12.71 | 2.36 | 0.5 | 1.18 |
| | | | | | | | | | Total Grid Cell Al: | 4.73 |
| | | | | | | | | | | |





| PTAL output for Base Year 1b | |
|--|---------|
| 215 Tunnel Ave, London SE10 0QW, UK Easting: 539327, Northing: 179117 | |
| Grid Cell: 74047 | |
| Report generated: 17/05/2023 | |
| | |
| Calculation Parameters | |
| Day of Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 20 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 523.35 | 6 | 6.54 | 7 | 13.54 | 2.22 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 523.35 | 8 | 6.54 | 5.75 | 12.29 | 2.44 | 1 | 2.44 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 456.47 | 6 | 5.71 | 7 | 12.71 | 2.36 | 0.5 | 1.18 |
| | | | | | | | | | Total Grid Cell Al: | 4.73 |
| | | | | | | | | | | |





| PTAL output for 2031 (Forecast) |
|-----------------------------------|
| F2V2+6V London, UK |
| Easting: 539093, Northing: 179021 |

Grid Cell: 73560

Report generated: 16/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |







PTAL output for 2031 (Forecast)

Morden Wharf Rd, London SE10 0NU, UK Easting: 539191, Northing: 179096

Grid Cell: 73561

Report generated: 16/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |





| | | | | | B. | 1 |
|----|----------------|---------------|-----------------|--------------|---------------------|----------|
| | | (olympian way | | | a Connall Tunnel Sc | |
| | | | | den Wharf Rd | Hitten | |
| | | ESSEX P | NDON ANOURE WAT | ora | | opion Me |
| | | 4 | Ølympia | | | |
| | | | In-Way | | Salutatio | ad |
| | | | - AB | | | F |
| Co | 9 9]30 | | | n le | Map data ©2 | 2023 |

| | PTAL output for 2031 (Forecast) 1a |
|---|---------------------------------------|
| F | 2V3+76 London, UK |
| E | Easting: 539152, Northing: 179036 |

Grid Cell: 73561

Report generated: 16/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcul | ation data | | | | | | | | | |
|--------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 519.98 | 6.21 | 6.5 | 6.83 | 13.33 | 2.25 | 1 | 2.25 |
| | | | | | | | | | Total Grid Cell Al: | 2.25 |



| | den Wharf Rd | |
|----------|--------------------------------|----------------|
| | LONDON AND ESSEX PURE WATER | tilling two |
| <u> </u> | ympian-Way | Salutation Ra |
| | Olympian-Way | |
| 0 | Google Telegraph A46 | Map data ©2023 |

| | PTAL output for 2031 (Forecast) 1a |
|---|---|
| F | ⁻ 2R3+W6 London, UK Easting: 539153, Northing: 178946 |
| 0 | Grid Cell: 73076 |

Report generated: 16/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcul | ation data | | | | | | | | | |
|--------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 638.42 | 6.21 | 7.98 | 6.83 | 14.81 | 2.03 | 1 | 2.03 |
| | | | | | | | | | Total Grid Cell Al: | 2.03 |



| | Olympian-Way | | Salutati | A RA |
|--------|-----------------------------------|---|--------------|------------|
| | Olympian-Way | | | HA |
| | The Alphabet Ho Nursery Greenw | Telegraph M ^{4®} use Shrich Way | | Telcon Rd |
| Google | Manil | a-Walk | Tus Field St | data ©2023 |

| | PTAL output for 2031 (Forecast) 1b |
|---|---------------------------------------|
| 1 | 91 Tunnel Ave, London SE10 0GR, UK |
| E | asting: 539175, Northing: 178808 |

Grid Cell: 72590

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | lation data | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 525.89 | 6.21 | 6.57 | 6.83 | 13.4 | 2.24 | 0.5 | 1.12 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 525.89 | 8.28 | 6.57 | 5.62 | 12.2 | 2.46 | 1 | 2.46 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 560.12 | 6.21 | 7 | 6.83 | 13.83 | 2.17 | 0.5 | 1.08 |
| | | | | | | | | | Total Grid Cell Al: | 4.66 |
| | | | | | | | | | | |



| | | P |
|---------------------------|---|---|
| | ©/ympian-Way | |
| nwich Pier - Greenwich (h | The Alp et House Nurser, reenwich | |
| Coogle | Cyrus Field St Manilla-Walk Manilla-Walk Manilla-Walk Manilla-Walk Mauritius Rd Mauritius Rd Mauritius Rd Mauritius Rd Maritius Rd Mauritius Rd Mauritius Rd | |

PTAL output for 2031 (Forecast)

19 Telegraph Ave, London SE10 0AG, UK Easting: 539166, Northing: 178730

Grid Cell: 72103

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| lation data | | | | | | | | | |
|-------------------------|---|---|---|---|--|---|--|---|--|
| Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| BLACKWALL LANE AZOF ST | 422 | 517.54 | 6.21 | 6.47 | 6.83 | 13.3 | 2.26 | 0.5 | 1.13 |
| BLACKWALL LANE AZOF ST | 188 | 517.54 | 8.28 | 6.47 | 5.62 | 12.09 | 2.48 | 1 | 2.48 |
| BLACKWALL LN TUNNEL AVE | 108 | 551.78 | 6.21 | 6.9 | 6.83 | 13.73 | 2.19 | 0.5 | 1.09 |
| | | | | | | | | Total Grid Cell Al: | 4.7 |
| | lation data Stop BLACKWALL LANE AZOF ST BLACKWALL LANE AZOF ST BLACKWALL LN TUNNEL AVE | Stop Route BLACKWALL LANE AZOF ST 422 BLACKWALL LANE AZOF ST 188 BLACKWALL LIN TUNNEL AVE 108 | StopRouteDistance (metres)BLACKWALL LANE AZOF ST422517.54BLACKWALL LANE AZOF ST188517.54BLACKWALL LANE AZOF ST108551.78 | StopRouteDistance (metres)Frequency(vph)BLACKWALL LANE AZOF ST422517.546.21BLACKWALL LANE AZOF ST188517.548.28BLACKWALL LANE AZOF ST108551.786.21 | StopRouteDistance (metres)Frequency(vph)Walk Time (mins)BLACKWALL LANE AZOF ST422517.546.216.47BLACKWALL LANE AZOF ST188517.548.286.47BLACKWALL LANE AZOF ST108551.786.216.9 | StopRouteDistance (metres)Frequency(vph)Walk Time (mins)SWT (mins)BLACKWALL LANE AZOF ST422517.546.216.476.83BLACKWALL LANE AZOF ST188517.548.286.475.62BLACKWALL LN TUNNEL AVE108551.786.216.96.83 | StopRouteDistance (metres)Frequency(vph)Walk Time (mins)SWT (mins)TAT (mins)BLACKWALL LANE AZOF ST422517.546.216.476.8313.3BLACKWALL LANE AZOF ST188517.548.286.475.6212.09BLACKWALL LANE AZOF ST108551.786.216.96.8313.73 | StopRouteDistance (metres)Frequency(vph)Walk Time (mins)SWT (mins)TAT (mins)EDFBLACKWALL LANE AZOF ST422517.546.216.476.8313.32.26BLACKWALL LANE AZOF ST188517.548.286.475.6212.092.48BLACKWALL LANE AZOF ST108551.786.216.96.8313.732.19 | Stop Route Distance (metree) Frequency(np) Walk Time (mino) SWT (mino) TAT (mino) EDF Weight BLACKWALLLANE AZOF ST 422 517.54 621 647 683 13.3 226 0.5 BLACKWALLLANE AZOF ST 188 517.54 621 647 562 12.09 248 1 BLACKWALLLANE AZOF ST 108 551.78 621 6.9 683 13.73 219 0.5 BLACKWALLLANE AZOF ST 108 551.78 621 6.9 6.83 13.73 219 0.5 |





| PTAL output for 2031 (Forecast) 1b | |
|---|---------|
| 34 Cable Walk, London SE10 0TS, UK Easting: 539163, Northing: 178668 | |
| Grid Cell: 71617 | |
| Report generated: 17/05/2023 | |
| This information is produced using forecasting tools and is subject to uncertai | nty |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |



National Rail ReliabilityFactor

0.75
| Calculation data | | | | | | | | | | |
|------------------|------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 537.72 | 6.21 | 6.72 | 6.83 | 13.55 | 2.21 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 537.72 | 8.28 | 6.72 | 5.62 | 12.34 | 2.43 | 1 | 2.43 |
| | | | | | | | | | Total Grid Cell Al: | 3.54 |
| | | | | | | | | | | |





PTAL output for 2031 (Forecast)

215 Tunnel Ave, London SE10 0QW, UK Easting: 539262, Northing: 179112

Grid Cell: 74046

Report generated: 17/05/2023

| Calculation Parameters | | | | | | | |
|--|---------|--|--|--|--|--|--|
| Dayof Week | M-F | | | | | | |
| Time Period | AM Peak | | | | | | |
| Walk Speed | 4.8 kph | | | | | | |
| Bus Node Max. Walk Access Time (mins) | 8 | | | | | | |
| Bus ReliabilityFactor | 2.0 | | | | | | |
| LU Station Max. Walk Access Time (mins) | 12 | | | | | | |
| LU ReliabilityFactor | 0.75 | | | | | | |
| National Rail Station Max. Walk Access Time (mins) | 12 | | | | | | |
| National Rail ReliabilityFactor | 0.75 | | | | | | |
| | | | | | | | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 628.29 | 6.21 | 7.85 | 6.83 | 14.68 | 2.04 | 0.5 | 1.02 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 628.29 | 8.28 | 7.85 | 5.62 | 13.48 | 2.23 | 0.5 | 1.11 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 407.37 | 6.21 | 5.09 | 6.83 | 11.92 | 2.52 | 1 | 2.52 |
| | | | | | | | | | Total Grid Cell Al: | 4.65 |



| <u>.</u> | | | 1405 | | |
|----------|--------------|------------------------|--------------|---------------------|----------------|
| | OHMO IAN WOY | | den Wharf Rd | Lenne Lune Southern | |
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| | | an-Way | | Salutatio | 84 |
| Gee | gle | | DIG | | Map data ©2023 |

| PTAL output for 2031 (Forecast) |
|---------------------------------|
| F2V3+6P London, UK |

Easting: 539237, Northing: 179024

Grid Cell: 73562

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 474.12 | 6.21 | 5.93 | 6.83 | 12.76 | 2.35 | 1 | 2.35 |
| | | | | | | | | | Total Grid Cell Al: | 2.35 |





| | PTAL output for 2031 (Forecast) 1b |
|---|---------------------------------------|
| F | 2R3+WM London, UK |
| E | asting: 539233, Northing: 178938 |

Grid Cell: 73077

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 485.89 | 6.21 | 6.07 | 6.83 | 12.9 | 2.32 | 0.5 | 1.16 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 485.89 | 8.28 | 6.07 | 5.62 | 11.7 | 2.56 | 1 | 2.56 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 520.12 | 6.21 | 6.5 | 6.83 | 13.33 | 2.25 | 0.5 | 1.13 |
| | | | | | | | | | Total Grid Cell Al: | 4.85 |
| | | | | | | | | | | |



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|--------|------------------------------------|------------------|-----------|-----------------------------|
| | Olympian-Way | | | |
| | The Alphabet Hou Nursery Greenw | Christchurch Way | | Telcon Wy Telcon Rd |
| Google | Manilla | a-WalkAttr | vood Ln | Telcon Ro Map data ©2023 |

| PTAL output for 2031 (Forecast) 2 | |
|--|---------|
| 13 Telegraph Ave, London SE10 0TE, UK Easting: 539245, Northing: 178811 | |
| Grid Cell: 72591 | |
| Report generated: 17/05/2023 | |
| This information is produced using forecasting tools and is subject to uncertainty | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 420.89 | 6.21 | 5.26 | 6.83 | 12.09 | 2.48 | 0.5 | 1.24 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 420.89 | 8.28 | 5.26 | 5.62 | 10.88 | 2.76 | 1 | 2.76 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 455.12 | 6.21 | 5.69 | 6.83 | 12.52 | 2.4 | 0.5 | 1.2 |
| | | | | | | | | | Total Grid Cell Al: | 5.19 |
| | | | | | | | | | | |





PTAL output for 2031 (Forecast) 1b

11 Telegraph Ave, London SE10 0TE, UK Easting: 539243, Northing: 178738

Grid Cell: 72104

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 470.68 | 6.21 | 5.88 | 6.83 | 12.71 | 2.36 | 0.5 | 1.18 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 470.68 | 8.28 | 5.88 | 5.62 | 11.51 | 2.61 | 1 | 2.61 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 504.92 | 6.21 | 6.31 | 6.83 | 13.14 | 2.28 | 0.5 | 1.14 |
| | | | | | | | | | Total Grid Cell Al: | 4.93 |
| | | | | | | | | | | |





| PTAL output for 2031 (Forecast) 2 | |
|---|--|
| 124 Christchurch Way London SE10 0UW, UK Easting: 539244, Northing: 178668 | |
| Grid Cell: 71618 | |

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | lation data | | | | | | | | | |
|-------|--------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | TRAFALGAR R BLACKWALL LN | 286 | 552.37 | 6.21 | 6.9 | 6.83 | 13.74 | 2.18 | 0.5 | 1.09 |
| Bus | TRAFALGAR R BLACKWALL LN | 180 | 552.37 | 5.18 | 6.9 | 7.8 | 14.7 | 2.04 | 0.5 | 1.02 |
| Bus | TRAFALGAR R BLACKWALL LN | 386 | 552.37 | 4.14 | 6.9 | 9.25 | 16.15 | 1.86 | 0.5 | 0.93 |
| Bus | TRAFALGAR R BLACKWALL LN | 177 | 552.37 | 6.21 | 6.9 | 6.83 | 13.74 | 2.18 | 0.5 | 1.09 |
| Bus | TRAFALGAR R BLACKWALL LN | 129 | 552.37 | 7.76 | 6.9 | 5.86 | 12.77 | 2.35 | 0.5 | 1.17 |
| Bus | BLACKWALL LANE AZOF ST | 422 | 432.72 | 6.21 | 5.41 | 6.83 | 12.24 | 2.45 | 0.5 | 1.23 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 432.72 | 8.28 | 5.41 | 5.62 | 11.03 | 2.72 | 1 | 2.72 |
| | | | | | | | | | Total Grid Cell Al: | 9.25 |





| PTAL o | output | for | 2031 | (Forecast) |
|--------|--------|-----|--------|------------|
| | | | 0=40.0 | |

215 Tunnel Ave, London SE10 0QW, UK Easting: 539310, Northing: 179156

Grid Cell: 74047

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 523.35 | 6.21 | 6.54 | 6.83 | 13.37 | 2.24 | 0.5 | 1.12 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 523.35 | 8.28 | 6.54 | 5.62 | 12.17 | 2.47 | 1 | 2.47 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 456.47 | 6.21 | 5.71 | 6.83 | 12.54 | 2.39 | 0.5 | 1.2 |
| | | | | | | | | | Total Grid Cell Al: | 4.78 |
| | | | | | | | | | | |





| PTAL | 0 | utp | ut | for | 2031 | (F | or | eca | st) |
|------|---|-----|----|-----|------|----|----|-----|-----|
| 1b | | | | | | | | | |
| | | | | | | | | | |

215 Tunnel Ave, London SE10 0QW, UK Easting: 539327, Northing: 179117

Grid Cell: 74047

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | Calculation data | | | | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|--|--|--|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A | | | |
| Bus | BLACKWALL LANE AZOF ST | 422 | 523.35 | 6.21 | 6.54 | 6.83 | 13.37 | 2.24 | 0.5 | 1.12 | | | |
| Bus | BLACKWALL LANE AZOF ST | 188 | 523.35 | 8.28 | 6.54 | 5.62 | 12.17 | 2.47 | 1 | 2.47 | | | |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 456.47 | 6.21 | 5.71 | 6.83 | 12.54 | 2.39 | 0.5 | 1.2 | | | |
| | | | | | | | | | Total Grid Cell Al: | 4.78 | | | |
| | | | | | | | | | | | | | |



APPENDIX B – PTAL CALCULATION WORKINGS



| Description Very poor Very poor Poor Moderate Good Very Good Excellent | 1a 1b 2 3 4 5 6a | 0 0.00 - 0.07 0.07 - 2.50 2.51 - 5.00 5.01 - 10.00 10.01 - 15.00 15.01 - 20.00 20.01 - 25.00 25.01 - 40.00 | No Score Very Poor Poor Moderate Good Very Good Excellent |
|---|------------------------------------|---|---|
| Excellent Excellent | 6a 6b | 25.01 - 40.00 40.00+ | Excellent Excellent |
| | | | |



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| Grid | We | bCAT PTAL | Existing | Validation | Comments | Sce | nario 1 | Comments | Sce | nario 2 | Comments | Scei | enario 3 Comments | |
|------|----|-----------|----------|------------|---|-----|-----------|--|-----|-----------|--|------|-------------------|---|
| 1 | 0 | No Score | 1b | Very Poor | WebCAT mesures from centre of grid, we have re-measured from a point within the Morden Wharf site boundary which is within walking distance of bus stops | 1b | Very Poor | No benefit to existing PTAL | 1b | Very Poor | No benefit to existing PTAL | 1b | Very Poor | No benefit to existing PTAL |
| 2 | 1a | Very Poor | 2 | Poor | WebCAT does not factor in walking route along Morden Wharf | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 3 | 1a | Very Poor | 1b | Very Poor | As above | 2 | Poor | Reduced walking distance to access bus service 108 due to addition of bus stop within Morden Wharf site and reduced walking times to the bus stop on Blackwall Lane due to pedestrian connection through Enderby Place site | 2 | Poor | Reduced walking distance to access bus service due to addition of bus stop within Morden Wharf site and reduced walking times to the bus stop on Blackwall Lane due to pedestrian connection through Enderby Place site | 2 | Poor | Reduced walking distance to bus stop on Blackwall Lane due to pedestrian connection through Enderby Place site and access to additional bus service via new stop on Telcon Way |
| 4 | 1a | Very Poor | 1a | Very Poor | No change | 2 | Poor | As above | 2 | Poor | As above | 2 | Poor | As above |
| 5 | 1b | Very Poor | 1b | Very Poor | No change | 2 | Poor | As above | 2 | Poor | As above | 2 | Poor | As above |
| 6 | 1b | Very Poor | 1b | Very Poor | No change | 1b | Very Poor | No benefit to existing PTAL | 2 | Poor | Reduced walking distance to new bus stops on Christchurch Way | 2 | Poor | Reduced walking distance to new bus stops on Christchurch Way |
| 7 | 1b | Very Poor | 1b | Very Poor | No change | 1b | Very Poor | No benefit to existing PTAL | 2 | Poor | As above | 2 | Poor | As above |
| 8 | 1b | Very Poor | 2 | Poor | WebCAT does not factor in walking route along Morden Wharf | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 9 | 1a | Very Poor | 1b | Very Poor | WebCAT does not capture walking routes through the site | 1b | Very Poor | No benefit to existing PTAL | 2 | Poor | Benefits from additional service offered | 2 | Poor | Benefits from additional service offered |
| 10 | 1b | Very Poor | 1b | Very Poor | No change | 1b | Very Poor | No benefit to existing PTAL | 2 | Poor | As above | 2 | Poor | As above |
| 11 | 2 | Poor | 2 | Poor | No change | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 12 | 1b | Very Poor | 2 | Poor | WebCAT does not include internal footpaths through Enderby Wharf development | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 13 | 2 | Poor | 2 | Poor | No change | 2 | Poor | No benefit to existing PTAL | 3 | Moderate | Reduced walking distance to new bus stops on Christchurch Way | 3 | Moderate | Reduced walking distance to new bus stops on Christchurch Way |
| 14 | 1a | Very Poor | 2 | Poor | WebCAT does not factor in walking route along Morden Wharf road | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |
| 15 | 2 | Poor | 2 | Poor | As above | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL | 2 | Poor | No benefit to existing PTAL |



APPENDIX C – POLICY REVIEW

A1 The National Planning Policy Framework (NPPF) (July 2021)

The NPPF as of July 2021 sets out Government planning policy, provides a framework within which local planning policies should be produced, and is a material consideration in planning decisions.

With regards to transport, the NPPF states 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."

Paragraph 112 continues those applications for development should:

- Give priority first to pedestrian and cycle movements, both within the scheme and with neighbouring areas; and second- so far as possible – to facilitate access to high quality public transport, with layouts that maximise the catchment area for bus or other public transport services, and appropriate facilities that encourage public transport use;
- Address the needs of people with disabilities and reduced mobility in relation to all modes of transport;
- Create places that are safe, secure, and attractive which minimise the scope for conflicts between pedestrians, cyclists, and vehicles, avoid unnecessary street clutter, and respond to local character and design standards;
- Allow for the efficient delivery of goods, and access by service and emergency vehicles; and
- Be designed to enable charging of plug-in and ultra-low emission vehicles in safe, accessible, and convenient locations.

Paragraph 113 states that: "All developments that will generate significant amounts of movement should be required to provide a travel plan and should be supported by a transport statement or transport assessment."

A2 The London Plan 2021

The new London plan was published on 2nd March 2021.

Chapter 10 of this document deals with transport and Policy T1 sets the overarching approach to transport strategy for the city. Policy T1 states that development Plans and development proposals should support the delivery of the Mayor's strategic target of 80 per cent of all trips in London to be made by foot, cycle, or public transport by 2041, and the proposed transport schemes set out in Table 10.1.



Policy T1 continues, "All development should make the most effective use of land, reflecting its connectivity and accessibility by existing and future public transport, walking and cycling routes, and ensure that any impacts on London's transport networks and supporting infrastructure are mitigated."

The London Plan 2021 additionally includes a new concept; 'Healthy Streets'. These are defined by 10 indicators as follows:

- Pedestrians from all walks of life;
- Easy to cross;
- Shade and shelter;
- Places to stop and rest;
- Not too noisy;
- People choose to walk, cycle, and use public transport;
- People feel safe;
- Things to see and do;
- People feel relaxed; and
- Clean air.

Policy T2 states that development proposals should demonstrate how they will deliver improvements that support the ten Healthy Streets Indicators in line with Transport for London guidance; reduce the dominance of vehicles on London's streets whether stationary or moving; and be permeable by foot and cycle and connect to local walking and cycling networks as well as public transport.

A2.1 Car Parking Standards

With regards to residential car parking, the Plan outlines a maximum parking provision standards for Outer London Opportunity Areas of up to 0.25 spaces per dwelling.

The Plan states that all residential car parking spaces must provide infrastructure for electric or Ultra-Low Emission vehicles. At least 20% of spaces should have active charging facilities, with passive provision for all remaining spaces.

Residential development proposals delivering ten or more units must, as a minimum, ensure that for three per cent of dwellings, at least one designated disabled persons parking bay per dwelling is available from the outset. Furthermore, developments must demonstrate, how an additional seven per cent of dwellings could be provided with one designated disabled persons parking space per dwelling in future.

A3 Royal Greenwich Local Plan: Core Strategy

Car and cycle parking policy is given within Greenwich's Local Plan 2018. Policy DM30: Car and cycle parking in new development states:



Developments must provide the minimum level of car parking provision necessary, for people with disabilities, as set out in the London Plan, and ensure provision for servicing, safe pick-up, drop-off and waiting areas for vehicles such as taxis and coaches, where that activity is likely to be associated with the development.

Developments supported by a high level of public transport accessibility and within Controlled Parking Zones should be car free. Development in areas of on-street parking stress should be 'car-capped.' For car capped developments, the Royal Borough will:

- *limit on-site car parking to spaces designated for disabled people, any operational*
- or servicing needs, and spaces designated for the occupiers of development;
- not issue on-street parking permits; and
- use a condition / legal agreement to ensure that future occupants are aware they
- *are not entitled to on-street parking permits.*
- The Royal Borough will also strongly encourage contributions to car clubs and pool car schemes in place of private parking in new developments across Royal Greenwich and seek the provision of electric charging points as part of any car parking provision, following the minimum standards set out in the London Plan.

Developments must meet, as a minimum, the standards for cycle parking as set out in the London Plan.

A4 Greenwich Waste Guidance Notes

This document (latest revision May 2018) sets out the Council's requirements for its waste and recycling collection services and should be used by architects and developers when designing waste storage and collection strategies.

With regards to the accessibility for collection vehicles and operatives, the guidance states the following:

Walking distance for refuse operatives from the container storage area to the refuse collection vehicle is no more than 15 metres. The vehicle stopping point should be clearly indicated on submitted drawings.

A safe collection area for operatives, such as a lay-by, is required if access to the chambers is on a dual carriageway, main fast flowing, or busy road.

Roads should be laid out to ensure reasonable convenience for the collection vehicle and should be a minimum of 5.5m wide. The collection vehicle should be able to proceed in a forward direction around the development, developers must not plan for refuse vehicles to reverse in a public area and the vehicle should not be expected to reverse for more than two vehicle lengths (20m).



Adequate space for turning must be provided and demonstrated in vehicle tracking drawings.



APPENDIX D – WEBCAT PTAL OUTPUTS





| PTAL output for Base Year 0 | |
|---|-----------------------------|
| F2V2+7V London, UK Easting: 539090, Northing: 179033 | |
| Grid Cell: 73560 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 koh |
| | · • |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Node Max. Walk Access Time (mins) Bus ReliabilityFactor | 8 20 |
| Bus Node Max. Walk Access Time (mins) Bus ReliabilityFactor LU Station Max. Walk Access Time (mins) | 8 20 12 |
| Bus Node Max. Walk Access Time (mins) Bus ReliabilityFactor LU Station Max. Walk Access Time (mins) LU ReliabilityFactor | 8 2.0 12 0.75 |
| Bus Node Max. Walk Access Time (mins) Bus ReliabilityFactor LU Station Max. Walk Access Time (mins) LU ReliabilityFactor National Rail Station Max. Walk Access Time (mins) | 8 20 12 0.75 12 |







| PTAL output for Base Year 1a | |
|---|---------|
| F2V3+FC London, UK Easting: 539187, Northing: 179099 | |
| Grid Cell: 74045 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcul | Calculation data | | | | | | | | | | | | |
|--------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|--|--|--|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | А | | | |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 523.23 | 6 | 6.54 | 7 | 13.54 | 2.22 | 1 | 2.22 | | | |
| | | | | | | | | | Total Grid Cell Al: | 2.22 | | | |



| 111 | | | | M. | B. 19 19 11 |
|-------------------|--------|--------------|----------------------|----------|-------------------------|
| | | Olympien wer | | wharf Rd | acteman Tunnel Southern |
| | | ESSEX PL | NDON AND JRE WATE | Morden | dition of the second |
| VIIIIIIIIIIIIIIII | | | plan-way | | Salutation |
| 11112 | Boogle | | 1000 | 16 | Map data ©2023 |

| PTAL output for Base Year 1a | |
|---|---------|
| F2V3+77 London, UK Easting: 539158, Northing: 179038 | |
| Grid Cell: 73561 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 20 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcul | Calculation data | | | | | | | | | | | | |
|--------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|--|--|--|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A | | | |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 519.98 | 6 | 6.5 | 7 | 13.5 | 2.22 | 1 | 2.22 | | | |
| | | | | | | | | | Total Grid Cell Al: | 2.22 | | | |



| | | orden Wharf Rd | |
|--------|--------------------------|---------------------------|----------------|
| ESSEX | LONDON AND PURE WATER | Mu | tunne Ave |
| | elympia | | |
| | In-Wey | 130 | Salutation Par |
| | | | |
| | | 16 | |
| | lympian-Wa | | |
| Google | | Telegraph A ^{se} | Map data ©2023 |

| PTAL output for Base Year 1a | |
|---|---------|
| F2R3+W6 London, UK Easting: 539154, Northing: 178939 | |
| Grid Cell: 73076 | |
| Report generated: 16/05/2023 | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |


| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|-----|---------------------|---|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 638.42 | 6 | 7.98 | 7 | 14.98 | 2 | 1 | 2 |
| | | | | | | | | | Total Grid Cell Al: | 2 |



| | Olympian-Way | | Salutation Ra |
|--------------------------|-------------------------------------|------------------------------------|--|
| | Olympian-Way | | |
| wich Pler- Greenwich Ple | The Alphabet Hou Nursery Greenwi | Telegraph A4 [®] Ise S | |
| Coogle | Manilla | Walk A | rus Field St Itwood Ln Map data ©2023 |

| PTAL output for Base Year 1b | | N |
|--|---------|---|
| 191 Tunnel Ave, London SE10 0GR, UK Easting: 539158, Northing: 178808 | | |
| Grid Cell: 72590 | | |
| Report generated: 16/05/2023 | | |
| Calculation Parameters | | |
| Dayof Week | M-F | |
| Time Period | AM Peak | |
| Walk Speed | 4.8 kph | |
| Bus Node Max. Walk Access Time (mins) | 8 | |
| Bus ReliabilityFactor | 2.0 | |
| LU Station Max. Walk Access Time (mins) | 12 | |
| LU ReliabilityFactor | 0.75 | |
| National Rail Station Max. Walk Access Time (mins) | 12 | |
| National Rail ReliabilityFactor | 0.75 | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 525.89 | 6 | 6.57 | 7 | 13.57 | 2.21 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 525.89 | 8 | 6.57 | 5.75 | 12.32 | 2.43 | 1 | 2.43 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 560.12 | 6 | 7 | 7 | 14 | 2.14 | 0.5 | 1.07 |
| | | | | | | | | | Total Grid Cell Al: | 4.61 |
| | | | | | | | | | | |



| 7 | | 1 | 12. | 0 88 | | | | F |
|--|-------------------------------|-------------|---------------------------------------|-------------------|------------------|------------------------|---------------------------|-------|
| | | Ølympian-Wa | | | | | | |
| VIII I I I I I I I I I I I I I I I I I | Writch, Pier - Greenwitch Pie | The | A bet Hours | Telegrap use O | hristchurch Way | | | |
| 11NIIIIIIINI | W Gřest | Nympian-Way | Mani Kido Interna rsery & Prese | la-Walk- | cynrch Way | us Field St wood Ln | Telcon Rd Mauritius Rd | |
| 11 X | Boogle | На | rrison Walk | Somning St | Christ Azof S | | Map data 0 | 32023 |

| PTAL output for Base Year 1b | |
|--|---------|
| 21 Telegraph Ave, London SE10 0TH, UK Easting: 539157, Northing: 178728 | |
| Grid Cell: 72103 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 517.54 | 6 | 6.47 | 7 | 13.47 | 2.23 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 517.54 | 8 | 6.47 | 5.75 | 12.22 | 2.46 | 1 | 2.46 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 551.78 | 6 | 6.9 | 7 | 13.9 | 2.16 | 0.5 | 1.08 |
| | | | | | | | | | Total Grid Cell Al: | 4.65 |
| | | | | | | | | | | |





| PTAL output for Base Year 1b | |
|---|---------|
| 34 Cable Walk, London SE10 0TS, UK Easting: 539159, Northing: 178668 | |
| Grid Cell: 71617 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 537.72 | 6 | 6.72 | 7 | 13.72 | 2.19 | 0.5 | 1.09 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 537.72 | 8 | 6.72 | 5.75 | 12.47 | 2.41 | 1 | 2.41 |
| | | | | | | | | | Total Grid Cell Al: | 3.5 |
| | | | | | | | | | | |





| PTAL output for Base Year 1b | |
|--|---------|
| 215 Tunnel Ave, London SE10 0QW, UK Easting: 539275, Northing: 179113 | |
| Grid Cell: 74046 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 628.29 | 6 | 7.85 | 7 | 14.85 | 2.02 | 0.5 | 1.01 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 628.29 | 8 | 7.85 | 5.75 | 13.6 | 2.21 | 0.5 | 1.1 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 407.37 | 6 | 5.09 | 7 | 12.09 | 2.48 | 1 | 2.48 |
| | | | | | | | | | Total Grid Cell Al: | 4.59 |
| | | | | | | | | | | |





| PTAL output for Base Year 1a | | | | | | | |
|---|---------|--|--|--|--|--|--|
| F2V3+7Q London, UK Easting: 539248, Northing: 179046 | | | | | | | |
| Grid Cell: 73562 | | | | | | | |
| Report generated: 16/05/2023 | | | | | | | |
| Calculation Parameters | | | | | | | |
| Dayof Week | M-F | | | | | | |
| Time Period | AM Peak | | | | | | |
| Walk Speed | 4.8 kph | | | | | | |
| Bus Node Max. Walk Access Time (mins) | 8 | | | | | | |
| Bus ReliabilityFactor | 2.0 | | | | | | |
| LU Station Max. Walk Access Time (mins) | 12 | | | | | | |
| LU ReliabilityFactor | 0.75 | | | | | | |
| National Rail Station Max. Walk Access Time (mins) | 12 | | | | | | |
| National Rail ReliabilityFactor | 0.75 | | | | | | |
| | | | | | | | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 474.12 | 6 | 5.93 | 7 | 12.93 | 2.32 | 1 | 2.32 |
| | | | | | | | | | Total Grid Cell Al: | 2.32 |





| PTAL output for Base Year 1b | |
|---|---------|
| F2R3+WQ London, UK Easting: 539252, Northing: 178940 | |
| Grid Cell: 73077 | |
| Report generated: 16/05/2023 | |
| Calculation Parameters | |
| Day of Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |



National Rail ReliabilityFactor

0.75

| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 485.89 | 6 | 6.07 | 7 | 13.07 | 2.29 | 0.5 | 1.15 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 485.89 | 8 | 6.07 | 5.75 | 11.82 | 2.54 | 1 | 2.54 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 520.12 | 6 | 6.5 | 7 | 13.5 | 2.22 | 0.5 | 1.11 |
| | | | | | | | | | Total Grid Cell Al: | 4.8 |
| | | | | | | | | | Total Grid Cell Al: | 4.8 |





| PTAL output for Base Year 2 | |
|---|---------|
| 1 Telegraph Ave, London SE10 0TA, UK Easting: 539254, Northing: 178805 | |
| Grid Cell: 72591 | |
| Report generated: 16/05/2023 | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 420.89 | 6 | 5.26 | 7 | 12.26 | 2.45 | 0.5 | 1.22 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 420.89 | 8 | 5.26 | 5.75 | 11.01 | 2.72 | 1 | 2.72 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 455.12 | 6 | 5.69 | 7 | 12.69 | 2.36 | 0.5 | 1.18 |
| | | | | | | | | | Total Grid Cell Al: | 5.13 |
| | | | | | | | | | | |





| PTAL output for Base Year 1b 5 Telegraph Ave, London SE10 0AG, UK Easting: 539248, Northing: 178732 Grid Cell: 72104 Report generated: 16/05/2023 | |
|--|---------|
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 470.68 | 6 | 5.88 | 7 | 12.88 | 2.33 | 0.5 | 1.16 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 470.68 | 8 | 5.88 | 5.75 | 11.63 | 2.58 | 1 | 2.58 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 504.92 | 6 | 6.31 | 7 | 13.31 | 2.25 | 0.5 | 1.13 |
| | | | | | | | | | Total Grid Cell Al: | 4.87 |
| | | | | | | | | | | |





| PTAL output for Base Year 2 | |
|---|---------|
| 24 Cable Walk, London SE10 0TQ, UK Easting: 539239, Northing: 178661 | |
| Grid Cell: 71618 | |
| Report generated: 16/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | ation data | | | | | | | | | |
|-------|--------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | TRAFALGAR R BLACKWALL LN | 286 | 552.37 | 6 | 6.9 | 7 | 13.9 | 2.16 | 0.5 | 1.08 |
| Bus | TRAFALGAR R BLACKWALL LN | 180 | 552.37 | 5 | 6.9 | 8 | 14.9 | 2.01 | 0.5 | 1.01 |
| Bus | TRAFALGAR R BLACKWALL LN | 386 | 552.37 | 4 | 6.9 | 9.5 | 16.4 | 1.83 | 0.5 | 0.91 |
| Bus | TRAFALGAR R BLACKWALL LN | 177 | 552.37 | 6 | 6.9 | 7 | 13.9 | 2.16 | 0.5 | 1.08 |
| Bus | TRAFALGAR R BLACKWALL LN | 129 | 552.37 | 7.5 | 6.9 | 6 | 12.9 | 2.32 | 0.5 | 1.16 |
| Bus | BLACKWALL LANE AZOF ST | 422 | 432.72 | 6 | 5.41 | 7 | 12.41 | 2.42 | 0.5 | 1.21 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 432.72 | 8 | 5.41 | 5.75 | 11.16 | 2.69 | 1 | 2.69 |
| | | | | | | | | | Total Grid Cell Al: | 9.14 |





| PTAL output for Base Year 1b | |
|--|---------|
| 215 Tunnel Ave, London SE10 0QW, UK Easting: 539310, Northing: 179157 | |
| Grid Cell: 74047 | |
| Report generated: 17/05/2023 | |
| | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 523.35 | 6 | 6.54 | 7 | 13.54 | 2.22 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 523.35 | 8 | 6.54 | 5.75 | 12.29 | 2.44 | 1 | 2.44 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 456.47 | 6 | 5.71 | 7 | 12.71 | 2.36 | 0.5 | 1.18 |
| | | | | | | | | | Total Grid Cell Al: | 4.73 |
| | | | | | | | | | | |





| PTAL output for Base Year 1b | |
|--|---------|
| 215 Tunnel Ave, London SE10 0QW, UK Easting: 539327, Northing: 179117 | |
| Grid Cell: 74047 | |
| Report generated: 17/05/2023 | |
| | |
| Calculation Parameters | |
| Day of Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 20 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 523.35 | 6 | 6.54 | 7 | 13.54 | 2.22 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 523.35 | 8 | 6.54 | 5.75 | 12.29 | 2.44 | 1 | 2.44 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 456.47 | 6 | 5.71 | 7 | 12.71 | 2.36 | 0.5 | 1.18 |
| | | | | | | | | | Total Grid Cell Al: | 4.73 |
| | | | | | | | | | | |





| PTAL output for 2031 (Forecast) |
|-----------------------------------|
| F2V2+6V London, UK |
| Easting: 539093, Northing: 179021 |

Grid Cell: 73560

Report generated: 16/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |







PTAL output for 2031 (Forecast)

Morden Wharf Rd, London SE10 0NU, UK Easting: 539191, Northing: 179096

Grid Cell: 73561

Report generated: 16/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |





| | | | | | B. | 1 |
|----|----------------|---------------|-----------------|--------------|--------------------|----------|
| | | (olympian way | | | a comail tunnel Sc | |
| | | | | den Wharf Rd | Hitten | |
| | | ESSEX P | NDON ANOURE WAT | ora | | opion Me |
| | | 4 | Ølympia | | | |
| | | | In-Way | | Salutatio | ad |
| | | | - AB | | | F |
| Co | 9 9]30 | | | n le | Map data ©2 | 2023 |

| | PTAL output for 2031 (Forecast) 1a |
|---|---------------------------------------|
| F | 2V3+76 London, UK |
| E | Easting: 539152, Northing: 179036 |

Grid Cell: 73561

Report generated: 16/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 519.98 | 6.21 | 6.5 | 6.83 | 13.33 | 2.25 | 1 | 2.25 |
| | | | | | | | | | Total Grid Cell Al: | 2.25 |



| | den Wharf Rd | |
|----------|--------------------------------|----------------|
| | LONDON AND ESSEX PURE WATER | tilling two |
| <u> </u> | ympian-Way | Salutation Ra |
| | Olympian-Way | |
| 0 | Google Telegraph A46 | Map data ©2023 |

| | PTAL output for 2031 (Forecast) 1a |
|---|---|
| F | ⁻ 2R3+W6 London, UK Easting: 539153, Northing: 178946 |
| 0 | Grid Cell: 73076 |

Report generated: 16/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 638.42 | 6.21 | 7.98 | 6.83 | 14.81 | 2.03 | 1 | 2.03 |
| | | | | | | | | | Total Grid Cell Al: | 2.03 |



| | Olympian-Way | | Salutati | A RA |
|--------|-----------------------------------|---|--------------|------------|
| | Olympian-Way | | | HA |
| | The Alphabet Ho Nursery Greenw | Telegraph M ^{4®} use Shrich Way | | Telcon Rd |
| Google | Manil | a-Walk | Tus Field St | data ©2023 |

| | PTAL output for 2031 (Forecast) 1b | | | | | | |
|-------------------------------------|---------------------------------------|--|--|--|--|--|--|
| 191 Tunnel Ave, London SE10 0GR, UK | | | | | | | |
| E | asting: 539175, Northing: 178808 | | | | | | |

Grid Cell: 72590

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 525.89 | 6.21 | 6.57 | 6.83 | 13.4 | 2.24 | 0.5 | 1.12 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 525.89 | 8.28 | 6.57 | 5.62 | 12.2 | 2.46 | 1 | 2.46 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 560.12 | 6.21 | 7 | 6.83 | 13.83 | 2.17 | 0.5 | 1.08 |
| | | | | | | | | | Total Grid Cell Al: | 4.66 |
| | | | | | | | | | | |



| | | P |
|---------------------------|---|---|
| | ©/ympian-Way | |
| nwich Pier - Greenwich (h | The Alp et House Nurser, reenwich | |
| Coogle | Cyrus Field St Manilla-Walk Manilla-Walk Manilla-Walk Manilla-Walk Mauritius Rd Mauritius Rd Mauritius Rd Mauritius Rd Maritius Rd Mauritius Rd Mauritius Rd | |

PTAL output for 2031 (Forecast)

19 Telegraph Ave, London SE10 0AG, UK Easting: 539166, Northing: 178730

Grid Cell: 72103

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | |
|-------------------------|---|---|---|---|--|---|--|---|--|
| Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| BLACKWALL LANE AZOF ST | 422 | 517.54 | 6.21 | 6.47 | 6.83 | 13.3 | 2.26 | 0.5 | 1.13 |
| BLACKWALL LANE AZOF ST | 188 | 517.54 | 8.28 | 6.47 | 5.62 | 12.09 | 2.48 | 1 | 2.48 |
| BLACKWALL LN TUNNEL AVE | 108 | 551.78 | 6.21 | 6.9 | 6.83 | 13.73 | 2.19 | 0.5 | 1.09 |
| | | | | | | | | Total Grid Cell Al: | 4.7 |
| | lation data Stop BLACKWALL LANE AZOF ST BLACKWALL LANE AZOF ST BLACKWALL LN TUNNEL AVE | Stop Route BLACKWALL LANE AZOF ST 422 BLACKWALL LANE AZOF ST 188 BLACKWALL LIN TUNNEL AVE 108 | StopRouteDistance (metres)BLACKWALL LANE AZOF ST422517.54BLACKWALL LANE AZOF ST188517.54BLACKWALL LANE AZOF ST108551.78 | StopRouteDistance (metres)Frequency(vph)BLACKWALL LANE AZOF ST422517.546.21BLACKWALL LANE AZOF ST188517.548.28BLACKWALL LANE AZOF ST108551.786.21 | StopRouteDistance (metres)Frequency(vph)Walk Time (mins)BLACKWALL LANE AZOF ST422517.546.216.47BLACKWALL LANE AZOF ST188517.548.286.47BLACKWALL LANE AZOF ST108551.786.216.9 | StopRouteDistance (metres)Frequency(vph)Walk Time (mins)SWT (mins)BLACKWALL LANE AZOF ST422517.546.216.476.83BLACKWALL LANE AZOF ST188517.548.286.475.62BLACKWALL LN TUNNEL AVE108551.786.216.96.83 | StopRouteDistance (metres)Frequency(vph)Walk Time (mins)SWT (mins)TAT (mins)BLACKWALL LANE AZOF ST422517.546.216.476.8313.3BLACKWALL LANE AZOF ST188517.548.286.475.6212.09BLACKWALL LANE AZOF ST108551.786.216.96.8313.73 | StopRouteDistance (metres)Frequency(vph)Walk Time (mins)SWT (mins)TAT (mins)EDFBLACKWALL LANE AZOF ST422517.546.216.476.8313.32.26BLACKWALL LANE AZOF ST188517.548.286.475.6212.092.48BLACKWALL LANE AZOF ST108551.786.216.96.8313.732.19 | Stop Route Distance (metree) Frequency(np) Walk Time (mino) SWT (mino) TAT (mino) EDF Weight BLACKWALLLANE AZOF ST 422 517.54 621 647 683 13.3 226 0.5 BLACKWALLLANE AZOF ST 188 517.54 621 647 562 12.09 248 1 BLACKWALLLANE AZOF ST 108 551.78 621 6.9 683 13.73 219 0.5 BLACKWALLLANE AZOF ST 108 551.78 621 6.9 6.83 13.73 219 0.5 |





| PTAL output for 2031 (Forecast) 1b | |
|---|---------|
| 34 Cable Walk, London SE10 0TS, UK Easting: 539163, Northing: 178668 | |
| Grid Cell: 71617 | |
| Report generated: 17/05/2023 | |
| This information is produced using forecasting tools and is subject to uncertai | nty |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |



National Rail ReliabilityFactor

0.75

| Calculation data | | | | | | | | | | |
|------------------|------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 537.72 | 6.21 | 6.72 | 6.83 | 13.55 | 2.21 | 0.5 | 1.11 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 537.72 | 8.28 | 6.72 | 5.62 | 12.34 | 2.43 | 1 | 2.43 |
| | | | | | | | | | Total Grid Cell Al: | 3.54 |
| | | | | | | | | | | |




PTAL output for 2031 (Forecast)

215 Tunnel Ave, London SE10 0QW, UK Easting: 539262, Northing: 179112

Grid Cell: 74046

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 628.29 | 6.21 | 7.85 | 6.83 | 14.68 | 2.04 | 0.5 | 1.02 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 628.29 | 8.28 | 7.85 | 5.62 | 13.48 | 2.23 | 0.5 | 1.11 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 407.37 | 6.21 | 5.09 | 6.83 | 11.92 | 2.52 | 1 | 2.52 |
| | | | | | | | | | Total Grid Cell Al: | 4.65 |



| <u>.</u> | | | 1405 | | |
|----------|--------------|------------------------|--------------|---------------------|----------------|
| | OHMO IAN WOY | | den Wharf Rd | Lenne Lune Southern | |
| | ESSEX P | UNDON AND URE WATER | Nord | | Approach Filol |
| | | an-Way | | Salutatio | 84 |
| Gee | gle | | DIG | | Map data ©2023 |

| PTAL output for 2031 (Forecast) |
|---------------------------------|
| F2V3+6P London, UK |

Easting: 539237, Northing: 179024

Grid Cell: 73562

Report generated: 17/05/2023

| Calculation Parameters | | | | | | | | |
|--|---------|--|--|--|--|--|--|--|
| Dayof Week | M-F | | | | | | | |
| Time Period | AM Peak | | | | | | | |
| Walk Speed | 4.8 kph | | | | | | | |
| Bus Node Max. Walk Access Time (mins) | 8 | | | | | | | |
| Bus ReliabilityFactor | 2.0 | | | | | | | |
| LU Station Max. Walk Access Time (mins) | 12 | | | | | | | |
| LU ReliabilityFactor | 0.75 | | | | | | | |
| National Rail Station Max. Walk Access Time (mins) | 12 | | | | | | | |
| National Rail ReliabilityFactor | 0.75 | | | | | | | |
| | | | | | | | | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 474.12 | 6.21 | 5.93 | 6.83 | 12.76 | 2.35 | 1 | 2.35 |
| | | | | | | | | | Total Grid Cell Al: | 2.35 |





| | PTAL output for 2031 (Forecast) 1b |
|---|---------------------------------------|
| F | 2R3+WM London, UK |
| E | asting: 539233, Northing: 178938 |

Grid Cell: 73077

Report generated: 17/05/2023

| Calculation Parameters | | | | | | | |
|--|---------|--|--|--|--|--|--|
| Dayof Week | M-F | | | | | | |
| Time Period | AM Peak | | | | | | |
| Walk Speed | 4.8 kph | | | | | | |
| Bus Node Max. Walk Access Time (mins) | 8 | | | | | | |
| Bus ReliabilityFactor | 2.0 | | | | | | |
| LU Station Max. Walk Access Time (mins) | 12 | | | | | | |
| LU ReliabilityFactor | 0.75 | | | | | | |
| National Rail Station Max. Walk Access Time (mins) | 12 | | | | | | |
| National Rail ReliabilityFactor | 0.75 | | | | | | |
| | | | | | | | |



| Calcu | Calculation data | | | | | | | | | | |
|-------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|--|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A | |
| Bus | BLACKWALL LANE AZOF ST | 422 | 485.89 | 6.21 | 6.07 | 6.83 | 12.9 | 2.32 | 0.5 | 1.16 | |
| Bus | BLACKWALL LANE AZOF ST | 188 | 485.89 | 8.28 | 6.07 | 5.62 | 11.7 | 2.56 | 1 | 2.56 | |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 520.12 | 6.21 | 6.5 | 6.83 | 13.33 | 2.25 | 0.5 | 1.13 | |
| | | | | | | | | | Total Grid Cell Al: | 4.85 | |
| | | | | | | | | | | | |



| | -elympian-way | | Salutatio | A RA |
|--------|------------------------------------|------------------|-----------|-----------------------------|
| | Olympian-Way | | | |
| | The Alphabet Hou Nursery Greenw | Christchurch Way | | Telcon Wy Telcon Rd |
| Google | Manilla | a-WalkAttr | vood Ln | Telcon Ro Map data ©2023 |

| PTAL output for 2031 (Forecast) 2 | |
|--|---------|
| 13 Telegraph Ave, London SE10 0TE, UK Easting: 539245, Northing: 178811 | |
| Grid Cell: 72591 | |
| Report generated: 17/05/2023 | |
| This information is produced using forecasting tools and is subject to uncertainty | |
| Calculation Parameters | |
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus Reliability Factor | 2.0 |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 420.89 | 6.21 | 5.26 | 6.83 | 12.09 | 2.48 | 0.5 | 1.24 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 420.89 | 8.28 | 5.26 | 5.62 | 10.88 | 2.76 | 1 | 2.76 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 455.12 | 6.21 | 5.69 | 6.83 | 12.52 | 2.4 | 0.5 | 1.2 |
| | | | | | | | | | Total Grid Cell Al: | 5.19 |
| | | | | | | | | | | |





PTAL output for 2031 (Forecast) 1b

11 Telegraph Ave, London SE10 0TE, UK Easting: 539243, Northing: 178738

Grid Cell: 72104

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data | | | | | | | | | | |
|------------------|-------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 470.68 | 6.21 | 5.88 | 6.83 | 12.71 | 2.36 | 0.5 | 1.18 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 470.68 | 8.28 | 5.88 | 5.62 | 11.51 | 2.61 | 1 | 2.61 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 504.92 | 6.21 | 6.31 | 6.83 | 13.14 | 2.28 | 0.5 | 1.14 |
| | | | | | | | | | Total Grid Cell Al: | 4.93 |
| | | | | | | | | | | |





| PTAL output for 2031 (Forecast) 2 | |
|---|--|
| 124 Christchurch Way London SE10 0UW, UK Easting: 539244, Northing: 178668 | |
| Grid Cell: 71618 | |

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calcu | lation data | | | | | | | | | |
|-------|--------------------------|-------|-------------------|----------------|------------------|------------|------------|------|---------------------|------|
| Mode | Stop | Route | Distance (metres) | Frequency(vph) | Walk Time (mins) | SWT (mins) | TAT (mins) | EDF | Weight | A |
| Bus | TRAFALGAR R BLACKWALL LN | 286 | 552.37 | 6.21 | 6.9 | 6.83 | 13.74 | 2.18 | 0.5 | 1.09 |
| Bus | TRAFALGAR R BLACKWALL LN | 180 | 552.37 | 5.18 | 6.9 | 7.8 | 14.7 | 2.04 | 0.5 | 1.02 |
| Bus | TRAFALGAR R BLACKWALL LN | 386 | 552.37 | 4.14 | 6.9 | 9.25 | 16.15 | 1.86 | 0.5 | 0.93 |
| Bus | TRAFALGAR R BLACKWALL LN | 177 | 552.37 | 6.21 | 6.9 | 6.83 | 13.74 | 2.18 | 0.5 | 1.09 |
| Bus | TRAFALGAR R BLACKWALL LN | 129 | 552.37 | 7.76 | 6.9 | 5.86 | 12.77 | 2.35 | 0.5 | 1.17 |
| Bus | BLACKWALL LANE AZOF ST | 422 | 432.72 | 6.21 | 5.41 | 6.83 | 12.24 | 2.45 | 0.5 | 1.23 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 432.72 | 8.28 | 5.41 | 5.62 | 11.03 | 2.72 | 1 | 2.72 |
| | | | | | | | | | Total Grid Cell Al: | 9.25 |





| PTAL o | output | for | 2031 | (Forecast) |
|--------|--------|-----|--------|------------|
| | | | 0=40.0 | |

215 Tunnel Ave, London SE10 0QW, UK Easting: 539310, Northing: 179156

Grid Cell: 74047

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data Made Star Boute Distance (metroe) Every use of (web) Welly Time (mino) SWT (mino) TOT (mino) EDE Weight All | | | | | | | | | | |
|--|-------------------------|-------|-------------------|----------------|------------------|--------------|------------|------|---------------------|------|
| wode | Stop | Route | Distance (metres) | Frequency(vpn) | waik nime (mins) | SVV I (mins) | IAI (mins) | EDF | weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 523.35 | 6.21 | 6.54 | 6.83 | 13.37 | 2.24 | 0.5 | 1.12 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 523.35 | 8.28 | 6.54 | 5.62 | 12.17 | 2.47 | 1 | 2.47 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 456.47 | 6.21 | 5.71 | 6.83 | 12.54 | 2.39 | 0.5 | 1.2 |
| | | | | | | | | | Total Grid Cell Al: | 4.78 |





| рта 1b | 0 | utp | ut | for | 2031 | (Forecast) |
|------------------|---|-----|----|-----|--------|------------|
| | | | | | 0=40.0 | |

215 Tunnel Ave, London SE10 0QW, UK Easting: 539327, Northing: 179117

Grid Cell: 74047

Report generated: 17/05/2023

| Calculation Parameters | |
|--|---------|
| Dayof Week | M-F |
| Time Period | AM Peak |
| Walk Speed | 4.8 kph |
| Bus Node Max. Walk Access Time (mins) | 8 |
| Bus ReliabilityFactor | 2.0 |
| LU Station Max. Walk Access Time (mins) | 12 |
| LU ReliabilityFactor | 0.75 |
| National Rail Station Max. Walk Access Time (mins) | 12 |
| National Rail ReliabilityFactor | 0.75 |
| | |



| Calculation data Made Star Boute Distance (metroe) Every use of (web) Welly Time (mino) SWT (mino) TOT (mino) EDE Weight All | | | | | | | | | | |
|--|-------------------------|-------|-------------------|----------------|------------------|--------------|------------|------|---------------------|------|
| wode | Stop | Route | Distance (metres) | Frequency(vpn) | waik nime (mins) | SVV I (mins) | IAI (mins) | EDF | weight | A |
| Bus | BLACKWALL LANE AZOF ST | 422 | 523.35 | 6.21 | 6.54 | 6.83 | 13.37 | 2.24 | 0.5 | 1.12 |
| Bus | BLACKWALL LANE AZOF ST | 188 | 523.35 | 8.28 | 6.54 | 5.62 | 12.17 | 2.47 | 1 | 2.47 |
| Bus | BLACKWALL LN TUNNEL AVE | 108 | 456.47 | 6.21 | 5.71 | 6.83 | 12.54 | 2.39 | 0.5 | 1.2 |
| | | | | | | | | | Total Grid Cell Al: | 4.78 |



APPENDIX E – MANUAL PTAL CALCULATION WORKINGS



| Description Very poor Very poor Poor Moderate Good Very Good Excellent | 1a 1b 2 3 4 5 6a | 0 0.00 - 0.07 0.07 - 2.50 2.51 - 5.00 5.01 - 10.00 10.01 - 15.00 15.01 - 20.00 20.01 - 25.00 25.01 - 40.00 | No Score Very Poor Poor Moderate Good Very Good Excellent |
|---|------------------------------------|---|---|
| Excellent Excellent | 6a 6b | 25.01 - 40.00 40.00+ | Excellent Excellent |
| | | | |



| | | 1 | | Water a state | Annalista Tangantang (Militang) | 11 | | Receive Records Property (RM*) |
|------------------------------------|-----|---|----------|---------------|---------------------------------------|-----|-----|--------------------------------------|
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|-----------------------------------|-----|-----------|----------|-----------------------------|-------------|-----|--------|--------------------------------------|
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| None Muri | No. Aury No. Mit Mit 310 Scalar Anny | and a second sec | Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set Set | Num Num <th>513 Tage Sentence Same Sentenc</th> <th>5-13 Trip: Socialities Test State St</th> <th>Series Read Reading and Tages Read of Reading and Reading and Reading Reading and Reading and Reading Reading and Reading Readin Reading Reading Readin Reading Reading Readin Read</th> <th>6219 Topi formation (1997) (19</th> <th>Sec 1 Reg. Sec.9 Ref. Ref.</th> <th>لالا الله الله الله الله الله الله الله</th> | 513 Tage Sentence Same Sentenc | 5-13 Trip: Socialities Test State St | Series Read Reading and Tages Read of Reading and Reading and Reading Reading and Reading and Reading Reading and Reading Readin Reading Reading Readin Reading Reading Readin Read | 6219 Topi formation (1997) (19 | Sec 1 Reg. Sec.9 Ref. | لالا الله الله الله الله الله الله الله |
| Spartin Constraints Station - Lands North Sciences | 00 100 F 400 0.000 0.000 0.00 0.000 0.000 0.000000 | | Balancester Market Markt Mar | 8 Colombia 10 Col | Indext Security Name NM P MM MM P MM | March Straum Control - State | Marchinesteries Marchinest | Notice No. No.< | Mathematikan Samari Part P P No. | Appendit construction construction OP P P D D D D Appendit |
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APPENDIX F – TRICS OUTPUT – RESIDENTIAL

| TRICS 7.9.3 071022 B20.58 Database right | of TRICS Consortium Limited, 2022. All right | ts reserved | Friday 25/11/22 Page 1 |
|--|--|-------------------|---------------------------|
| Markides Associates Ltd 73-81 Southwark Br | idge Road London | | Licence No: 860401 |
| Filtering Summary | | | |
| Land Use | 03/C | RESIDENTIAL/FLATS | PRIVATELY OWNED |
| Selected Trip Rate Calculation Parameter Range | e 6-493 DWELLS | | |
| Actual Trip Rate Calculation Parameter Range | 14-493 DWELLS | | |
| Date Range | Minimum: 01/01/14 | Maximum: 28/06/22 | |
| 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 | | |
| Days of the week selected | Monday Tuesday Wednesday Friday | 1 2 3 2 | |
| Main Location Types selected | Edge of Town Centre Suburban Area (PPS6 Out of Centre) Edge of Town | 3 3 2 | |
| Population within 500m | All Surveys Included | | |
| Population <1 Mile ranges selected | 10,001 to 15,000 15,001 to 20,000 20,001 to 25,000 25,001 to 50,000 | 1 1 1 5 | |
| Population <5 Mile ranges selected | 125,001 to 250,000 500,001 or More | 1 7 | |
| Car Ownership <5 Mile ranges selected | 0.6 to 1.0 1.1 to 1.5 | 6 2 | |
| PTAL Rating | 1a (Low) Very poor 2 Poor 3 Moderate | 1 5 2 | |

Friday 25/11/22

Licence No: 860401

Page 2

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 03 - RESIDENTIAL Category : C - FLATS PRIVATELY OWNED MULTI-MODAL TOTAL VEHICLES

Selected regions and areas: 01 GREATER LONDON

| GREA | IER LONDON | |
|------|------------|--------|
| BE | BEXLEY | 2 days |
| BT | BRENT | 1 days |
| HO | HOUNSLOW | 2 days |
| ΗV | HAVERING | 1 days |
| KI | KINGSTON | 1 days |
| RD | RICHMOND | 1 days |
| | | |

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

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: Actual Range: Range Selected by User: | No of Dwellings 14 to 493 (units:) 6 to 493 (units:) |
|---|---|
| Parking Spaces Range: | All Surveys Included |
| Parking Spaces per Dwellin | ng Range: All Surveys Included |
| Bedrooms per Dwelling Ra | nge: All Surveys Included |
| Percentage of dwellings pri | ivately owned: All Surveys Included |
| Public Transport Provision: Selection by: | Include all surveys |
| Date Range: 01/01 | /14 to 28/06/22 |
| This data displays the rang included in the trip rate ca | ge of survey dates selected. Only surveys that were conducted within this date range are vlculation. |
| Selected survey days: | |

| Monday | 1 days |
|-----------|--------|
| Tuesday | 2 days |
| Wednesday | 3 days |
| Friday | 2 days |

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

| <u>Selected survey types:</u> | |
|-------------------------------|--------|
| Manual count | 8 days |
| Directional ATC Count | 0 days |

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.

| <u>Selected Locations:</u> | |
|------------------------------------|---|
| Edge of Town Centre | 3 |
| Suburban Area (PPS6 Out of Centre) | 3 |
| Edge of Town | 2 |

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: | |
|-----------------------------------|--|
| Industrial Zone | |
| Development Zone | |
| Residential Zone | |
| Built-Up Zone | |

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,

Secondary Filtering selection:

<u>*Use Class:*</u> C3

8 days

This data displays the number of surveys per Use Class classification within the selected set. The Use Classes Order 2005 has been used for this purpose, which can be found within the Library module of TRICS®.

| Population within 500m Range: | |
|-------------------------------|--------|
| All Surveys Included | |
| Population within 1 mile: | |
| 10,001 to 15,000 | 1 days |
| 15,001 to 20,000 | 1 days |
| 20,001 to 25,000 | 1 days |
| 25,001 to 50,000 | 5 days |

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

| Population within 5 miles: | |
|----------------------------|--------|
| 125,001 to 250,000 | 1 days |
| 500,001 or More | 7 days |

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

| 6 days |
|--------|
| 2 days |
| |

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.

| <u>Travel Plan:</u> | |
|---------------------|--------|
| Yes | 5 days |
| No | 3 days |

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.

| <u>PTAL Rating:</u> | |
|---------------------|--------|
| 1a (Low) Very poor | 1 days |
| 2 Poor | 5 days |
| 3 Moderate | 2 days |

This data displays the number of selected surveys with PTAL Ratings.

LIST OF SITES relevant to selection parameters

DA6 8AE

BE-03-C-01

BLOCKS OF FLATS

Edge of Town Centre

BEXLEYHEATH

Residential Zone

Site(1): Development Name: Location: Postcode: Main Location Type: Sub-Location Type: PTAL:

Site(2): Development Name: Location: Postcode: Main Location Type: Sub-Location Type: PTAL:

Site(3): Development Name: Location: Postcode: Main Location Type: Sub-Location Type: PTAL:

Site(4): Development Name: Location: Postcode: Main Location Type: Sub-Location Type: PTAL:

Site(5): Development Name: Location: Postcode: Main Location Type: Sub-Location Type: PTAL:

Site(6): Development Name: Location: Postcode: Main Location Type: Sub-Location Type: PTAL:

Site(7): Development Name: Location: Postcode: Main Location Type: Sub-Location Type: PTAL:

Site(8): Development Name: Location: Postcode: Main Location Type: Sub-Location Type: PTAL:

3 Moderate BE-03-C-02 BLOCKS OF FLATS BELVEDERE DA17 6FB Edge of Town Industrial Zone 2 Poor BT-03-C-01 BLOCKS OF FLATS PARK ROYAL NW10 7HQ Suburban Area (PPS6 Out of Centre) Development Zone 3 Moderate HO-03-C-03 **BLOCKS OF FLATS**

BRENTFORD TW8 8FF Edge of Town Centre Development Zone 2 Poor

HO-03-C-05 BLOCK OF FLATS HOUNSLOW TW5 9RW Edge of Town Residential Zone 2 Poor

HV-03-C-02 BLOCKS OF FLATS ROMFORD RM7 0GR Suburban Area (PPS6 Out of Centre) Built-Up Zone 2 Poor

KI-03-C-03 BLOCK OF FLATS SURBITON KT6 4DJ Edge of Town Centre Residential Zone 2 Poor

RD-03-C-06 BLOCKS OF FLATS KEW TW9 4FD Suburban Area (PPS6 Out of Centre) Residential Zone 1a (Low) Very poor Site area: No of Dwellings: Housing density: Total Bedrooms: Survey Date: Survey Day: Parking Spaces: Site area: No of Dwellings: Housing density: **Total Bedrooms:** Survey Date: Survey Day: Parking Spaces: Site area: No of Dwellings: Housing density: Total Bedrooms: Survey Date: Survey Day: Parking Spaces: Site area: No of Dwellings: Housing density: Total Bedrooms: Survey Date: Survey Day: Parking Spaces: Site area: No of Dwellings: Housing density: Total Bedrooms: Survey Date: Survey Day: Parking Spaces: Site area: No of Dwellings: Housing density: Total Bedrooms: Survey Date: Survey Day: Parking Spaces: Site area: No of Dwellinas: Housing density: Total Bedrooms: Survey Date: Survey Day:

Parking Spaces: Site area: No of Dwellings: Housing density: Total Bedrooms: Survey Date: Survey Day: Parking Spaces:

19/09/18 Wednesday 84 3.04 hect 402 197 699 19/09/18 Wednesday 550 1.25 hect 170 170 324 28/09/16 Wednesday 212 1.19 hect 150 176 324 18/11/16 Friday 106 0.08 hect 14 467 20 06/03/20 Friday 12 3.48 hect 493 258 1231 22/11/16 Tuesday 246 0.14 hect 20 333 45 11/07/16 Monday 25 0.93 hect 170 298 276 28/06/22

Tuesday

171

0.84 hect

79

120

146

MANUALLY DESELECTED SURVEYS

| Site Ref | Survey Date | Reason for Deselection |
|------------|-------------|------------------------|
| WF-03-C-06 | 25/05/21 | Covid |

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL TOTAL VEHICLES Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period Total People to Total Vehicles ratio (all time periods and directions): 2.77

| | ARRIVALS | | | [| DEPARTURES | | | TOTALS | | |
|---------------|----------|--------|-------|------|------------|-------|------|--------|-------|--|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip | |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate | |
| 00:00 - 01:00 | | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.037 | 8 | 187 | 0.111 | 8 | 187 | 0.148 | |
| 08:00 - 09:00 | 8 | 187 | 0.034 | 8 | 187 | 0.124 | 8 | 187 | 0.158 | |
| 09:00 - 10:00 | 8 | 187 | 0.053 | 8 | 187 | 0.059 | 8 | 187 | 0.112 | |
| 10:00 - 11:00 | 8 | 187 | 0.045 | 8 | 187 | 0.057 | 8 | 187 | 0.102 | |
| 11:00 - 12:00 | 8 | 187 | 0.045 | 8 | 187 | 0.067 | 8 | 187 | 0.112 | |
| 12:00 - 13:00 | 8 | 187 | 0.055 | 8 | 187 | 0.052 | 8 | 187 | 0.107 | |
| 13:00 - 14:00 | 8 | 187 | 0.061 | 8 | 187 | 0.069 | 8 | 187 | 0.130 | |
| 14:00 - 15:00 | 8 | 187 | 0.049 | 8 | 187 | 0.055 | 8 | 187 | 0.104 | |
| 15:00 - 16:00 | 8 | 187 | 0.083 | 8 | 187 | 0.063 | 8 | 187 | 0.146 | |
| 16:00 - 17:00 | 8 | 187 | 0.103 | 8 | 187 | 0.064 | 8 | 187 | 0.167 | |
| 17:00 - 18:00 | 8 | 187 | 0.119 | 8 | 187 | 0.075 | 8 | 187 | 0.194 | |
| 18:00 - 19:00 | 8 | 187 | 0.125 | 8 | 187 | 0.063 | 8 | 187 | 0.188 | |
| 19:00 - 20:00 | 7 | 144 | 0.100 | 7 | 144 | 0.065 | 7 | 144 | 0.165 | |
| 20:00 - 21:00 | 7 | 144 | 0.091 | 7 | 144 | 0.054 | 7 | 144 | 0.145 | |
| 21:00 - 22:00 | | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | | |
| Total Rates: | | | 1.000 | | | 0.978 | | | 1.978 | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

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Parameter summary

| Trip rate parameter range selected: | 14 - 493 (units:) |
|---|---------------------|
| Survey date date range: | 01/01/14 - 28/06/22 |
| Number of weekdays (Monday-Friday): | 9 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 0 |
| Surveys automatically removed from selection: | 5 |
| Surveys manually removed from selection: | 0 |

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL TAXIS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | ARRIVALS | | | [| DEPARTURES | 5 | TOTALS | | |
|---------------|----------|--------|-------|------|------------|-------|--------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.004 | 8 | 187 | 0.003 | 8 | 187 | 0.007 |
| 08:00 - 09:00 | 8 | 187 | 0.005 | 8 | 187 | 0.005 | 8 | 187 | 0.010 |
| 09:00 - 10:00 | 8 | 187 | 0.003 | 8 | 187 | 0.003 | 8 | 187 | 0.006 |
| 10:00 - 11:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 11:00 - 12:00 | 8 | 187 | 0.001 | 8 | 187 | 0.002 | 8 | 187 | 0.003 |
| 12:00 - 13:00 | 8 | 187 | 0.003 | 8 | 187 | 0.002 | 8 | 187 | 0.005 |
| 13:00 - 14:00 | 8 | 187 | 0.003 | 8 | 187 | 0.003 | 8 | 187 | 0.006 |
| 14:00 - 15:00 | 8 | 187 | 0.002 | 8 | 187 | 0.002 | 8 | 187 | 0.004 |
| 15:00 - 16:00 | 8 | 187 | 0.006 | 8 | 187 | 0.005 | 8 | 187 | 0.011 |
| 16:00 - 17:00 | 8 | 187 | 0.002 | 8 | 187 | 0.003 | 8 | 187 | 0.005 |
| 17:00 - 18:00 | 8 | 187 | 0.006 | 8 | 187 | 0.005 | 8 | 187 | 0.011 |
| 18:00 - 19:00 | 8 | 187 | 0.007 | 8 | 187 | 0.007 | 8 | 187 | 0.014 |
| 19:00 - 20:00 | 7 | 144 | 0.005 | 7 | 144 | 0.006 | 7 | 144 | 0.011 |
| 20:00 - 21:00 | 7 | 144 | 0.000 | 7 | 144 | 0.000 | 7 | 144 | 0.000 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.048 | | | 0.047 | | | 0.095 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL OGVS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | ARRIVALS | | | [| DEPARTURES | | TOTALS | | |
|---------------|----------|--------|-------|------|------------|-------|--------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.004 | 8 | 187 | 0.005 | 8 | 187 | 0.009 |
| 08:00 - 09:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 09:00 - 10:00 | 8 | 187 | 0.003 | 8 | 187 | 0.003 | 8 | 187 | 0.006 |
| 10:00 - 11:00 | 8 | 187 | 0.003 | 8 | 187 | 0.003 | 8 | 187 | 0.006 |
| 11:00 - 12:00 | 8 | 187 | 0.002 | 8 | 187 | 0.001 | 8 | 187 | 0.003 |
| 12:00 - 13:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 13:00 - 14:00 | 8 | 187 | 0.002 | 8 | 187 | 0.003 | 8 | 187 | 0.005 |
| 14:00 - 15:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 15:00 - 16:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 16:00 - 17:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 17:00 - 18:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 18:00 - 19:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 19:00 - 20:00 | 7 | 144 | 0.001 | 7 | 144 | 0.001 | 7 | 144 | 0.002 |
| 20:00 - 21:00 | 7 | 144 | 0.000 | 7 | 144 | 0.000 | 7 | 144 | 0.000 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.021 | | | 0.022 | | | 0.043 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL CYCLISTS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | ARRIVALS | | | [| DEPARTURES | 5 | TOTALS | | |
|---------------|----------|--------|-------|------|------------|-------|--------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.003 | 8 | 187 | 0.009 | 8 | 187 | 0.012 |
| 08:00 - 09:00 | 8 | 187 | 0.005 | 8 | 187 | 0.013 | 8 | 187 | 0.018 |
| 09:00 - 10:00 | 8 | 187 | 0.004 | 8 | 187 | 0.005 | 8 | 187 | 0.009 |
| 10:00 - 11:00 | 8 | 187 | 0.002 | 8 | 187 | 0.005 | 8 | 187 | 0.007 |
| 11:00 - 12:00 | 8 | 187 | 0.003 | 8 | 187 | 0.001 | 8 | 187 | 0.004 |
| 12:00 - 13:00 | 8 | 187 | 0.001 | 8 | 187 | 0.003 | 8 | 187 | 0.004 |
| 13:00 - 14:00 | 8 | 187 | 0.007 | 8 | 187 | 0.006 | 8 | 187 | 0.013 |
| 14:00 - 15:00 | 8 | 187 | 0.002 | 8 | 187 | 0.007 | 8 | 187 | 0.009 |
| 15:00 - 16:00 | 8 | 187 | 0.004 | 8 | 187 | 0.003 | 8 | 187 | 0.007 |
| 16:00 - 17:00 | 8 | 187 | 0.007 | 8 | 187 | 0.002 | 8 | 187 | 0.009 |
| 17:00 - 18:00 | 8 | 187 | 0.011 | 8 | 187 | 0.004 | 8 | 187 | 0.015 |
| 18:00 - 19:00 | 8 | 187 | 0.007 | 8 | 187 | 0.006 | 8 | 187 | 0.013 |
| 19:00 - 20:00 | 7 | 144 | 0.014 | 7 | 144 | 0.004 | 7 | 144 | 0.018 |
| 20:00 - 21:00 | 7 | 144 | 0.004 | 7 | 144 | 0.001 | 7 | 144 | 0.005 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.074 | | | 0.069 | | | 0.143 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL VEHICLE OCCUPANTS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | ARRIVALS | | | DEPARTURES | | | TOTALS | | |
|---------------|----------|--------|-------|------------|--------|-------|--------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.044 | 8 | 187 | 0.145 | 8 | 187 | 0.189 |
| 08:00 - 09:00 | 8 | 187 | 0.038 | 8 | 187 | 0.189 | 8 | 187 | 0.227 |
| 09:00 - 10:00 | 8 | 187 | 0.063 | 8 | 187 | 0.071 | 8 | 187 | 0.134 |
| 10:00 - 11:00 | 8 | 187 | 0.054 | 8 | 187 | 0.069 | 8 | 187 | 0.123 |
| 11:00 - 12:00 | 8 | 187 | 0.065 | 8 | 187 | 0.087 | 8 | 187 | 0.152 |
| 12:00 - 13:00 | 8 | 187 | 0.070 | 8 | 187 | 0.063 | 8 | 187 | 0.133 |
| 13:00 - 14:00 | 8 | 187 | 0.079 | 8 | 187 | 0.092 | 8 | 187 | 0.171 |
| 14:00 - 15:00 | 8 | 187 | 0.064 | 8 | 187 | 0.073 | 8 | 187 | 0.137 |
| 15:00 - 16:00 | 8 | 187 | 0.126 | 8 | 187 | 0.083 | 8 | 187 | 0.209 |
| 16:00 - 17:00 | 8 | 187 | 0.154 | 8 | 187 | 0.080 | 8 | 187 | 0.234 |
| 17:00 - 18:00 | 8 | 187 | 0.160 | 8 | 187 | 0.105 | 8 | 187 | 0.265 |
| 18:00 - 19:00 | 8 | 187 | 0.172 | 8 | 187 | 0.081 | 8 | 187 | 0.253 |
| 19:00 - 20:00 | 7 | 144 | 0.129 | 7 | 144 | 0.091 | 7 | 144 | 0.220 |
| 20:00 - 21:00 | 7 | 144 | 0.126 | 7 | 144 | 0.069 | 7 | 144 | 0.195 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 1.344 | | | 1.298 | | | 2.642 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

Friday 25/11/22 Page 10 Licence No: 860401

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL PEDESTRIANS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | ARRIVALS | | | [| DEPARTURES | | | TOTALS | | |
|---------------|----------|--------|-------|------|------------|-------|------|--------|-------|--|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip | |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate | |
| 00:00 - 01:00 | | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.017 | 8 | 187 | 0.045 | 8 | 187 | 0.062 | |
| 08:00 - 09:00 | 8 | 187 | 0.035 | 8 | 187 | 0.105 | 8 | 187 | 0.140 | |
| 09:00 - 10:00 | 8 | 187 | 0.045 | 8 | 187 | 0.045 | 8 | 187 | 0.090 | |
| 10:00 - 11:00 | 8 | 187 | 0.022 | 8 | 187 | 0.047 | 8 | 187 | 0.069 | |
| 11:00 - 12:00 | 8 | 187 | 0.034 | 8 | 187 | 0.039 | 8 | 187 | 0.073 | |
| 12:00 - 13:00 | 8 | 187 | 0.055 | 8 | 187 | 0.037 | 8 | 187 | 0.092 | |
| 13:00 - 14:00 | 8 | 187 | 0.039 | 8 | 187 | 0.034 | 8 | 187 | 0.073 | |
| 14:00 - 15:00 | 8 | 187 | 0.039 | 8 | 187 | 0.035 | 8 | 187 | 0.074 | |
| 15:00 - 16:00 | 8 | 187 | 0.072 | 8 | 187 | 0.043 | 8 | 187 | 0.115 | |
| 16:00 - 17:00 | 8 | 187 | 0.046 | 8 | 187 | 0.036 | 8 | 187 | 0.082 | |
| 17:00 - 18:00 | 8 | 187 | 0.060 | 8 | 187 | 0.036 | 8 | 187 | 0.096 | |
| 18:00 - 19:00 | 8 | 187 | 0.053 | 8 | 187 | 0.043 | 8 | 187 | 0.096 | |
| 19:00 - 20:00 | 7 | 144 | 0.072 | 7 | 144 | 0.055 | 7 | 144 | 0.127 | |
| 20:00 - 21:00 | 7 | 144 | 0.056 | 7 | 144 | 0.052 | 7 | 144 | 0.108 | |
| 21:00 - 22:00 | | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | | |
| Total Rates: | | | 0.645 | | | 0.652 | | | 1.297 | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL BUS/TRAM PASSENGERS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | ARRIVALS | | | DEPARTURES | | | TOTALS | | |
|--|----------|--------|-------|------------|--------|-------|--------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | - | | | _ | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.003 | 8 | 187 | 0.059 | 8 | 187 | 0.062 |
| 08:00 - 09:00 | 8 | 187 | 0.010 | 8 | 187 | 0.077 | 8 | 187 | 0.087 |
| 09:00 - 10:00 | 8 | 187 | 0.023 | 8 | 187 | 0.030 | 8 | 187 | 0.053 |
| 10:00 - 11:00 | 8 | 187 | 0.017 | 8 | 187 | 0.015 | 8 | 187 | 0.032 |
| 11:00 - 12:00 | 8 | 187 | 0.011 | 8 | 187 | 0.017 | 8 | 187 | 0.028 |
| 12:00 - 13:00 | 8 | 187 | 0.017 | 8 | 187 | 0.023 | 8 | 187 | 0.040 |
| 13:00 - 14:00 | 8 | 187 | 0.013 | 8 | 187 | 0.019 | 8 | 187 | 0.032 |
| 14:00 - 15:00 | 8 | 187 | 0.019 | 8 | 187 | 0.021 | 8 | 187 | 0.040 |
| 15:00 - 16:00 | 8 | 187 | 0.023 | 8 | 187 | 0.027 | 8 | 187 | 0.050 |
| 16:00 - 17:00 | 8 | 187 | 0.033 | 8 | 187 | 0.017 | 8 | 187 | 0.050 |
| 17:00 - 18:00 | 8 | 187 | 0.041 | 8 | 187 | 0.008 | 8 | 187 | 0.049 |
| 18:00 - 19:00 | 8 | 187 | 0.047 | 8 | 187 | 0.013 | 8 | 187 | 0.060 |
| 19:00 - 20:00 | 7 | 144 | 0.056 | 7 | 144 | 0.018 | 7 | 144 | 0.074 |
| 20:00 - 21:00 | 7 | 144 | 0.034 | 7 | 144 | 0.020 | 7 | 144 | 0.054 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.347 0.364 0 | | | | | | | 0.711 | | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL TOTAL RAIL PASSENGERS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | ARRIVALS | | | DEPARTURES | | | TOTALS | | |
|--|----------|--------|-------|------------|--------|-------|--------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | - | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.003 | 8 | 187 | 0.075 | 8 | 187 | 0.078 |
| 08:00 - 09:00 | 8 | 187 | 0.005 | 8 | 187 | 0.085 | 8 | 187 | 0.090 |
| 09:00 - 10:00 | 8 | 187 | 0.011 | 8 | 187 | 0.026 | 8 | 187 | 0.037 |
| 10:00 - 11:00 | 8 | 187 | 0.005 | 8 | 187 | 0.020 | 8 | 187 | 0.025 |
| 11:00 - 12:00 | 8 | 187 | 0.011 | 8 | 187 | 0.023 | 8 | 187 | 0.034 |
| 12:00 - 13:00 | 8 | 187 | 0.015 | 8 | 187 | 0.017 | 8 | 187 | 0.032 |
| 13:00 - 14:00 | 8 | 187 | 0.013 | 8 | 187 | 0.022 | 8 | 187 | 0.035 |
| 14:00 - 15:00 | 8 | 187 | 0.016 | 8 | 187 | 0.017 | 8 | 187 | 0.033 |
| 15:00 - 16:00 | 8 | 187 | 0.017 | 8 | 187 | 0.017 | 8 | 187 | 0.034 |
| 16:00 - 17:00 | 8 | 187 | 0.027 | 8 | 187 | 0.007 | 8 | 187 | 0.034 |
| 17:00 - 18:00 | 8 | 187 | 0.047 | 8 | 187 | 0.011 | 8 | 187 | 0.058 |
| 18:00 - 19:00 | 8 | 187 | 0.073 | 8 | 187 | 0.007 | 8 | 187 | 0.080 |
| 19:00 - 20:00 | 7 | 144 | 0.084 | 7 | 144 | 0.007 | 7 | 144 | 0.091 |
| 20:00 - 21:00 | 7 | 144 | 0.044 | 7 | 144 | 0.008 | 7 | 144 | 0.052 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.371 0.342 0.713 | | | | | | | | 0.713 | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL PUBLIC TRANSPORT USERS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | ARRIVALS | | | DEPARTURES | | | TOTALS | | |
|--|----------|--------|-------|------------|--------|-------|--------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | - | | | _ | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.005 | 8 | 187 | 0.135 | 8 | 187 | 0.140 |
| 08:00 - 09:00 | 8 | 187 | 0.015 | 8 | 187 | 0.162 | 8 | 187 | 0.177 |
| 09:00 - 10:00 | 8 | 187 | 0.033 | 8 | 187 | 0.056 | 8 | 187 | 0.089 |
| 10:00 - 11:00 | 8 | 187 | 0.023 | 8 | 187 | 0.035 | 8 | 187 | 0.058 |
| 11:00 - 12:00 | 8 | 187 | 0.022 | 8 | 187 | 0.041 | 8 | 187 | 0.063 |
| 12:00 - 13:00 | 8 | 187 | 0.032 | 8 | 187 | 0.040 | 8 | 187 | 0.072 |
| 13:00 - 14:00 | 8 | 187 | 0.027 | 8 | 187 | 0.041 | 8 | 187 | 0.068 |
| 14:00 - 15:00 | 8 | 187 | 0.035 | 8 | 187 | 0.039 | 8 | 187 | 0.074 |
| 15:00 - 16:00 | 8 | 187 | 0.040 | 8 | 187 | 0.044 | 8 | 187 | 0.084 |
| 16:00 - 17:00 | 8 | 187 | 0.061 | 8 | 187 | 0.025 | 8 | 187 | 0.086 |
| 17:00 - 18:00 | 8 | 187 | 0.089 | 8 | 187 | 0.019 | 8 | 187 | 0.108 |
| 18:00 - 19:00 | 8 | 187 | 0.119 | 8 | 187 | 0.020 | 8 | 187 | 0.139 |
| 19:00 - 20:00 | 7 | 144 | 0.139 | 7 | 144 | 0.025 | 7 | 144 | 0.164 |
| 20:00 - 21:00 | 7 | 144 | 0.078 | 7 | 144 | 0.028 | 7 | 144 | 0.106 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.718 0.710 | | | | | | 1.428 | | | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.
TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL TOTAL PEOPLE Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period Total People to Total Vehicles ratio (all time periods and directions): 2.77

| | | ARRIVALS | | [| DEPARTURES | 5 | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.070 | 8 | 187 | 0.334 | 8 | 187 | 0.404 |
| 08:00 - 09:00 | 8 | 187 | 0.093 | 8 | 187 | 0.470 | 8 | 187 | 0.563 |
| 09:00 - 10:00 | 8 | 187 | 0.146 | 8 | 187 | 0.178 | 8 | 187 | 0.324 |
| 10:00 - 11:00 | 8 | 187 | 0.101 | 8 | 187 | 0.156 | 8 | 187 | 0.257 |
| 11:00 - 12:00 | 8 | 187 | 0.123 | 8 | 187 | 0.168 | 8 | 187 | 0.291 |
| 12:00 - 13:00 | 8 | 187 | 0.158 | 8 | 187 | 0.143 | 8 | 187 | 0.301 |
| 13:00 - 14:00 | 8 | 187 | 0.152 | 8 | 187 | 0.174 | 8 | 187 | 0.326 |
| 14:00 - 15:00 | 8 | 187 | 0.140 | 8 | 187 | 0.154 | 8 | 187 | 0.294 |
| 15:00 - 16:00 | 8 | 187 | 0.242 | 8 | 187 | 0.173 | 8 | 187 | 0.415 |
| 16:00 - 17:00 | 8 | 187 | 0.268 | 8 | 187 | 0.143 | 8 | 187 | 0.411 |
| 17:00 - 18:00 | 8 | 187 | 0.320 | 8 | 187 | 0.164 | 8 | 187 | 0.484 |
| 18:00 - 19:00 | 8 | 187 | 0.352 | 8 | 187 | 0.150 | 8 | 187 | 0.502 |
| 19:00 - 20:00 | 7 | 144 | 0.354 | 7 | 144 | 0.174 | 7 | 144 | 0.528 |
| 20:00 - 21:00 | 7 | 144 | 0.264 | 7 | 144 | 0.149 | 7 | 144 | 0.413 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 2.783 | | | 2.730 | | | 5.513 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL CARS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | 5 | | TOTALS | |
|--|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | _ | | | _ | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.027 | 8 | 187 | 0.092 | 8 | 187 | 0.119 |
| 08:00 - 09:00 | 8 | 187 | 0.026 | 8 | 187 | 0.108 | 8 | 187 | 0.134 |
| 09:00 - 10:00 | 8 | 187 | 0.042 | 8 | 187 | 0.045 | 8 | 187 | 0.087 |
| 10:00 - 11:00 | 8 | 187 | 0.031 | 8 | 187 | 0.043 | 8 | 187 | 0.074 |
| 11:00 - 12:00 | 8 | 187 | 0.031 | 8 | 187 | 0.055 | 8 | 187 | 0.086 |
| 12:00 - 13:00 | 8 | 187 | 0.041 | 8 | 187 | 0.040 | 8 | 187 | 0.081 |
| 13:00 - 14:00 | 8 | 187 | 0.045 | 8 | 187 | 0.051 | 8 | 187 | 0.096 |
| 14:00 - 15:00 | 8 | 187 | 0.039 | 8 | 187 | 0.045 | 8 | 187 | 0.084 |
| 15:00 - 16:00 | 8 | 187 | 0.069 | 8 | 187 | 0.047 | 8 | 187 | 0.116 |
| 16:00 - 17:00 | 8 | 187 | 0.090 | 8 | 187 | 0.055 | 8 | 187 | 0.145 |
| 17:00 - 18:00 | 8 | 187 | 0.093 | 8 | 187 | 0.058 | 8 | 187 | 0.151 |
| 18:00 - 19:00 | 8 | 187 | 0.105 | 8 | 187 | 0.049 | 8 | 187 | 0.154 |
| 19:00 - 20:00 | 7 | 144 | 0.089 | 7 | 144 | 0.053 | 7 | 144 | 0.142 |
| 20:00 - 21:00 | 7 | 144 | 0.084 | 7 | 144 | 0.051 | 7 | 144 | 0.135 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.812 0.792 1.604 | | | | | | | | | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL LGVS Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | 5 | TOTALS | | |
|--|------|----------|-------|------|------------|-------|--------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.003 | 8 | 187 | 0.007 | 8 | 187 | 0.010 |
| 08:00 - 09:00 | 8 | 187 | 0.001 | 8 | 187 | 0.004 | 8 | 187 | 0.005 |
| 09:00 - 10:00 | 8 | 187 | 0.005 | 8 | 187 | 0.004 | 8 | 187 | 0.009 |
| 10:00 - 11:00 | 8 | 187 | 0.009 | 8 | 187 | 0.010 | 8 | 187 | 0.019 |
| 11:00 - 12:00 | 8 | 187 | 0.009 | 8 | 187 | 0.009 | 8 | 187 | 0.018 |
| 12:00 - 13:00 | 8 | 187 | 0.010 | 8 | 187 | 0.008 | 8 | 187 | 0.018 |
| 13:00 - 14:00 | 8 | 187 | 0.011 | 8 | 187 | 0.009 | 8 | 187 | 0.020 |
| 14:00 - 15:00 | 8 | 187 | 0.006 | 8 | 187 | 0.006 | 8 | 187 | 0.012 |
| 15:00 - 16:00 | 8 | 187 | 0.007 | 8 | 187 | 0.009 | 8 | 187 | 0.016 |
| 16:00 - 17:00 | 8 | 187 | 0.010 | 8 | 187 | 0.007 | 8 | 187 | 0.017 |
| 17:00 - 18:00 | 8 | 187 | 0.013 | 8 | 187 | 0.009 | 8 | 187 | 0.022 |
| 18:00 - 19:00 | 8 | 187 | 0.004 | 8 | 187 | 0.005 | 8 | 187 | 0.009 |
| 19:00 - 20:00 | 7 | 144 | 0.000 | 7 | 144 | 0.002 | 7 | 144 | 0.002 |
| 20:00 - 21:00 | 7 | 144 | 0.002 | 7 | 144 | 0.001 | 7 | 144 | 0.003 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.090 0.090 0.180 | | | | | | | | | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

Licence No

| | | ARRIVALS | | [| DEPARTURES | 5 | | TOTALS | |
|--|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.000 | 8 | 187 | 0.004 | 8 | 187 | 0.004 |
| 08:00 - 09:00 | 8 | 187 | 0.001 | 8 | 187 | 0.007 | 8 | 187 | 0.008 |
| 09:00 - 10:00 | 8 | 187 | 0.000 | 8 | 187 | 0.003 | 8 | 187 | 0.003 |
| 10:00 - 11:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 11:00 - 12:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 12:00 - 13:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 13:00 - 14:00 | 8 | 187 | 0.001 | 8 | 187 | 0.002 | 8 | 187 | 0.003 |
| 14:00 - 15:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 15:00 - 16:00 | 8 | 187 | 0.001 | 8 | 187 | 0.000 | 8 | 187 | 0.001 |
| 16:00 - 17:00 | 8 | 187 | 0.001 | 8 | 187 | 0.000 | 8 | 187 | 0.001 |
| 17:00 - 18:00 | 8 | 187 | 0.005 | 8 | 187 | 0.003 | 8 | 187 | 0.008 |
| 18:00 - 19:00 | 8 | 187 | 0.008 | 8 | 187 | 0.003 | 8 | 187 | 0.011 |
| 19:00 - 20:00 | 7 | 144 | 0.006 | 7 | 144 | 0.003 | 7 | 144 | 0.009 |
| 20:00 - 21:00 | 7 | 144 | 0.005 | 7 | 144 | 0.002 | 7 | 144 | 0.007 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.031 0.030 0.061 | | | | | | | | | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL Underground Passengers Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | 5 | | TOTALS | |
|--------------------------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.001 | 8 | 187 | 0.030 | 8 | 187 | 0.031 |
| 08:00 - 09:00 | 8 | 187 | 0.001 | 8 | 187 | 0.035 | 8 | 187 | 0.036 |
| 09:00 - 10:00 | 8 | 187 | 0.004 | 8 | 187 | 0.008 | 8 | 187 | 0.012 |
| 10:00 - 11:00 | 8 | 187 | 0.004 | 8 | 187 | 0.007 | 8 | 187 | 0.011 |
| 11:00 - 12:00 | 8 | 187 | 0.005 | 8 | 187 | 0.008 | 8 | 187 | 0.013 |
| 12:00 - 13:00 | 8 | 187 | 0.005 | 8 | 187 | 0.005 | 8 | 187 | 0.010 |
| 13:00 - 14:00 | 8 | 187 | 0.005 | 8 | 187 | 0.006 | 8 | 187 | 0.011 |
| 14:00 - 15:00 | 8 | 187 | 0.007 | 8 | 187 | 0.004 | 8 | 187 | 0.011 |
| 15:00 - 16:00 | 8 | 187 | 0.004 | 8 | 187 | 0.010 | 8 | 187 | 0.014 |
| 16:00 - 17:00 | 8 | 187 | 0.009 | 8 | 187 | 0.003 | 8 | 187 | 0.012 |
| 17:00 - 18:00 | 8 | 187 | 0.017 | 8 | 187 | 0.005 | 8 | 187 | 0.022 |
| 18:00 - 19:00 | 8 | 187 | 0.025 | 8 | 187 | 0.003 | 8 | 187 | 0.028 |
| 19:00 - 20:00 | 7 | 144 | 0.042 | 7 | 144 | 0.002 | 7 | 144 | 0.044 |
| 20:00 - 21:00 | 7 | 144 | 0.018 | 7 | 144 | 0.004 | 7 | 144 | 0.022 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.147 0.130 0.277 | | | | | | | | | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL DLR Passengers Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | ; | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 08:00 - 09:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 09:00 - 10:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 10:00 - 11:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 11:00 - 12:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 12:00 - 13:00 | 8 | 187 | 0.000 | 8 | 187 | 0.001 | 8 | 187 | 0.001 |
| 13:00 - 14:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 14:00 - 15:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 15:00 - 16:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 16:00 - 17:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 17:00 - 18:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 18:00 - 19:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 19:00 - 20:00 | 7 | 144 | 0.000 | 7 | 144 | 0.000 | 7 | 144 | 0.000 |
| 20:00 - 21:00 | 7 | 144 | 0.000 | 7 | 144 | 0.000 | 7 | 144 | 0.000 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.001 | | | 0.002 | | | 0.003 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL Overground Passengers Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | | ARRIVALS | | | DEPARTURES | 5 | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.000 | 8 | 187 | 0.003 | 8 | 187 | 0.003 |
| 08:00 - 09:00 | 8 | 187 | 0.001 | 8 | 187 | 0.002 | 8 | 187 | 0.003 |
| 09:00 - 10:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 10:00 - 11:00 | 8 | 187 | 0.000 | 8 | 187 | 0.003 | 8 | 187 | 0.003 |
| 11:00 - 12:00 | 8 | 187 | 0.002 | 8 | 187 | 0.003 | 8 | 187 | 0.005 |
| 12:00 - 13:00 | 8 | 187 | 0.001 | 8 | 187 | 0.000 | 8 | 187 | 0.001 |
| 13:00 - 14:00 | 8 | 187 | 0.003 | 8 | 187 | 0.001 | 8 | 187 | 0.004 |
| 14:00 - 15:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 15:00 - 16:00 | 8 | 187 | 0.001 | 8 | 187 | 0.001 | 8 | 187 | 0.002 |
| 16:00 - 17:00 | 8 | 187 | 0.000 | 8 | 187 | 0.001 | 8 | 187 | 0.001 |
| 17:00 - 18:00 | 8 | 187 | 0.001 | 8 | 187 | 0.000 | 8 | 187 | 0.001 |
| 18:00 - 19:00 | 8 | 187 | 0.001 | 8 | 187 | 0.000 | 8 | 187 | 0.001 |
| 19:00 - 20:00 | 7 | 144 | 0.002 | 7 | 144 | 0.000 | 7 | 144 | 0.002 |
| 20:00 - 21:00 | 7 | 144 | 0.000 | 7 | 144 | 0.000 | 7 | 144 | 0.000 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.013 | | | 0.015 | | | 0.028 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL National Rail Passengers Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | ; | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | _ | | | _ | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.002 | 8 | 187 | 0.043 | 8 | 187 | 0.045 |
| 08:00 - 09:00 | 8 | 187 | 0.003 | 8 | 187 | 0.048 | 8 | 187 | 0.051 |
| 09:00 - 10:00 | 8 | 187 | 0.006 | 8 | 187 | 0.017 | 8 | 187 | 0.023 |
| 10:00 - 11:00 | 8 | 187 | 0.001 | 8 | 187 | 0.011 | 8 | 187 | 0.012 |
| 11:00 - 12:00 | 8 | 187 | 0.003 | 8 | 187 | 0.013 | 8 | 187 | 0.016 |
| 12:00 - 13:00 | 8 | 187 | 0.009 | 8 | 187 | 0.011 | 8 | 187 | 0.020 |
| 13:00 - 14:00 | 8 | 187 | 0.005 | 8 | 187 | 0.015 | 8 | 187 | 0.020 |
| 14:00 - 15:00 | 8 | 187 | 0.009 | 8 | 187 | 0.013 | 8 | 187 | 0.022 |
| 15:00 - 16:00 | 8 | 187 | 0.013 | 8 | 187 | 0.006 | 8 | 187 | 0.019 |
| 16:00 - 17:00 | 8 | 187 | 0.018 | 8 | 187 | 0.003 | 8 | 187 | 0.021 |
| 17:00 - 18:00 | 8 | 187 | 0.029 | 8 | 187 | 0.006 | 8 | 187 | 0.035 |
| 18:00 - 19:00 | 8 | 187 | 0.046 | 8 | 187 | 0.003 | 8 | 187 | 0.049 |
| 19:00 - 20:00 | 7 | 144 | 0.040 | 7 | 144 | 0.005 | 7 | 144 | 0.045 |
| 20:00 - 21:00 | 7 | 144 | 0.026 | 7 | 144 | 0.004 | 7 | 144 | 0.030 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.210 | | | 0.198 | | | 0.408 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI-MODAL Bus Passengers Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | 5 | | TOTALS | |
|--------------------------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | | | | | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.003 | 8 | 187 | 0.059 | 8 | 187 | 0.062 |
| 08:00 - 09:00 | 8 | 187 | 0.010 | 8 | 187 | 0.075 | 8 | 187 | 0.085 |
| 09:00 - 10:00 | 8 | 187 | 0.023 | 8 | 187 | 0.028 | 8 | 187 | 0.051 |
| 10:00 - 11:00 | 8 | 187 | 0.017 | 8 | 187 | 0.015 | 8 | 187 | 0.032 |
| 11:00 - 12:00 | 8 | 187 | 0.011 | 8 | 187 | 0.017 | 8 | 187 | 0.028 |
| 12:00 - 13:00 | 8 | 187 | 0.017 | 8 | 187 | 0.023 | 8 | 187 | 0.040 |
| 13:00 - 14:00 | 8 | 187 | 0.013 | 8 | 187 | 0.019 | 8 | 187 | 0.032 |
| 14:00 - 15:00 | 8 | 187 | 0.019 | 8 | 187 | 0.021 | 8 | 187 | 0.040 |
| 15:00 - 16:00 | 8 | 187 | 0.023 | 8 | 187 | 0.027 | 8 | 187 | 0.050 |
| 16:00 - 17:00 | 8 | 187 | 0.033 | 8 | 187 | 0.017 | 8 | 187 | 0.050 |
| 17:00 - 18:00 | 8 | 187 | 0.041 | 8 | 187 | 0.008 | 8 | 187 | 0.049 |
| 18:00 - 19:00 | 8 | 187 | 0.047 | 8 | 187 | 0.013 | 8 | 187 | 0.060 |
| 19:00 - 20:00 | 7 | 144 | 0.056 | 7 | 144 | 0.018 | 7 | 144 | 0.074 |
| 20:00 - 21:00 | 7 | 144 | 0.034 | 7 | 144 | 0.020 | 7 | 144 | 0.054 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.347 0.360 0.707 | | | | | | | | | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

Friday 25/11/22 Page 23 Licence No: 860401

TRIP RATE for Land Use 03 - RESIDENTIAL/C - FLATS PRIVATELY OWNED MULTI - MODAL Scooters Calculation factor: 1 DWELLS BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | 5 | | TOTALS | |
|--|------|----------|-------|------|------------|-------|-------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | DWELLS | Rate | Days | DWELLS | Rate | Days | DWELLS | Rate |
| 00:00 - 01:00 | | | | _ | | | _ | | |
| 01:00 - 02:00 | | | | | | | | | |
| 02:00 - 03:00 | | | | | | | | | |
| 03:00 - 04:00 | | | | | | | | | |
| 04:00 - 05:00 | | | | | | | | | |
| 05:00 - 06:00 | | | | | | | | | |
| 06:00 - 07:00 | | | | | | | | | |
| 07:00 - 08:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 08:00 - 09:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 09:00 - 10:00 | 8 | 187 | 0.000 | 8 | 187 | 0.001 | 8 | 187 | 0.001 |
| 10:00 - 11:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 11:00 - 12:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 12:00 - 13:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 13:00 - 14:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 14:00 - 15:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 15:00 - 16:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 16:00 - 17:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 17:00 - 18:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 18:00 - 19:00 | 8 | 187 | 0.000 | 8 | 187 | 0.000 | 8 | 187 | 0.000 |
| 19:00 - 20:00 | 7 | 144 | 0.000 | 7 | 144 | 0.000 | 7 | 144 | 0.000 |
| 20:00 - 21:00 | 7 | 144 | 0.002 | 7 | 144 | 0.001 | 7 | 144 | 0.003 |
| 21:00 - 22:00 | | | | | | | | | |
| 22:00 - 23:00 | | | | | | | | | |
| 23:00 - 24:00 | | | | | | | | | |
| Total Rates: 0.002 0.002 0.004 | | | | | | | 0.004 | | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.



APPENDIX G – TRICS OUTPUT – COMMERCIAL LIGHT INDUSTRIAL

| TRICS 7.9.3 071022 B20.58 Database right | of TRICS Consortium Limited, 2022. All right | s reserved Monday 28/11/22 Page 1 |
|--|--|--------------------------------------|
| Markides Associates Ltd 73-81 Southwark Br | idge Road London | Licence No: 860401 |
| Filtering Summary | | |
| Land Use | 02/D | EMPLOYMENT/INDUSTRIAL ESTATE |
| Selected Trip Rate Calculation Parameter Range | e 3300-13850 sqm GFA | |
| Actual Trip Rate Calculation Parameter Range | 3300-13850 sqm GFA | |
| Date Range | Minimum: 01/01/14 | Maximum: 10/06/19 |
| Parking Spaces Range | All Surveys Included | |
| Days of the week selected | Monday Wednesday Thursday | 1 2 2 |
| Main Location Types selected | Suburban Area (PPS6 Out of Centre) Edge of Town | 3 2 |
| Population within 500m | All Surveys Included | |
| Population <1 Mile ranges selected | 5,001 to 10,000 10,001 to 15,000 50,001 to 100,000 | 1 2 2 |
| Population <5 Mile ranges selected | 50,001 to 75,000 500,001 or More | 1 4 |
| Car Ownership <5 Mile ranges selected | 0.6 to 1.0 1.1 to 1.5 | 3 2 |
| PTAL Rating | 1b Very poor 2 Poor 3 Moderate | 3 1 1 |
| Filter by Site Operations Breakdown | All Surveys Included | |

Calculation Reference: AUDIT-860401-221128-1151

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 02 - EMPLOYMENT Category : D - INDUSTRIAL ESTATE MULTI-MODAL TOTAL VEHICLES

Selected regions and areas:01GREATER LONDON

| GRE | | |
|-----|------------|--------|
| BE | BEXLEY | 1 days |
| ΒT | BRENT | 1 days |
| HD | HILLINGDON | 2 days |
| HO | HOUNSLOW | 1 days |

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

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: | Gross floor area |
|-------------------------|----------------------------|
| Actual Range: | 3300 to 13850 (units: sqm) |
| Range Selected by User: | 3300 to 13850 (units: sqm) |

Parking Spaces Range: All Surveys Included

Public Transport Provision: Selection by:

Include all surveys

Date Range: 01/01/14 to 10/06/19

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.

| <u>Selected survey days:</u> | |
|------------------------------|--------|
| Monday | 1 days |
| Wednesday | 2 days |
| Thursday | 2 days |

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

| <u>Selected survey types:</u> | |
|-------------------------------|--------|
| Manual count | 5 days |
| Directional ATC Count | 0 days |

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: | |
|------------------------------------|---|
| Suburban Area (PPS6 Out of Centre) | 3 |
| Edge of Town | 2 |

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: | |
|-----------------------------------|---|
| Industrial Zone | 4 |
| Built-Up Zone | 1 |

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.

| Associatos Ltd | 73 81 Southwark Prideo Bood | London | Liconco No: 94 |
|--|---|--|------------------------|
| es Associates Liu | 73-61 Southwark Bridge Road | London | LICENCE NO. 60 |
| Secondary Filte | ring selection: | | |
| <u>Use Class:</u> | | | |
| Not Known | | 5 days | |
| This data displays has been used for | s the number of surveys per Use o r this purpose, which can be found | Class classification within the selected set. The U. d within the Library module of TRICS®. | lse Classes Order 2005 |
| Filter by Site Ope | orations Breakdown: | | |
| All Surveys Includ | led | | |
| Population within | 500m Range: | | |
| All Surveys Includ | | | |
| 5 001 to 10 000 | | 1 days | |
| 10.001 to 15.000 | | 2 davs | |
| 50,001 to 100,00 | 0 | 2 days | |
| This data displays | s the number of selected surveys | within stated 1-mile radii of population. | |
| Population within | <u>5 miles:</u> | | |
| 50,001 to 75,000 |) | 1 days | |
| 500,001 or More | | 4 days | |
| This data displays | s the number of selected surveys | within stated 5-mile radii of population. | |
| Car ownership wi | ithin 5 miles: | | |
| 0.6 to 1.0 | | 3 days | |
| 1.1 to 1.5 | | 2 days | |
| This data display. within a radius of | s the number of selected surveys 5-miles of selected survey sites. | within stated ranges of average cars owned per . | residential dwelling, |
| Travel Plan: | | | |
| Yes | | 1 days | |
| | | 4 days | |
| No | | 4 00 35 | |

| PTAL Rating: | |
|--------------|--------|
| 1b Very poor | 3 days |
| 2 Poor | 1 days |
| 3 Moderate | 1 days |

Ν

This data displays the number of selected surveys with PTAL Ratings.

| TRICS 7.9.3 | 071022 B20.58 Database right of TRICS Co | onsortium Limited, 2022. | All rights reserved | Monday 28/11/22 Page 4 |
|---------------|---|-----------------------------|--|---------------------------|
| Markides Asso | ociates Ltd 73-81 Southwark Bridge Road | London | | Licence No: 860401 |
| <u></u> | OF SITES relevant to selection parameters | | | |
| 1 | BE-02-D-01 I NDUSTRI AL ESTATE CRABTREE MANORWAY N. ERITH | | BEXLEY | |
| 2 | Edge of Town Industrial Zone Total Gross floor area: <i>Survey date: WEDNESDAY</i> BT-02-D-01 INDUSTRIAL ESTATE NORTH CIRCULAR ROAD NEASDEN | 3300 sqm <i>19/09/18</i> | <i>Survey Type: MANUAL</i> BRENT | |
| 3 | BRENT PARK Suburban Area (PPS6 Out of Centre) Built-Up Zone Total Gross floor area: <i>Survey date: WEDNESDAY</i> HD-02-D-02 INDUSTRIAL ESTATE BRADFIELD ROAD RUISLIP SOUTH RUISLIP | 5565 sqm <i>14/11/18</i> | <i>Survey Type: MANUAL</i> HILLINGDON | |
| 4 | Edge of Town Industrial Zone Total Gross floor area: 1 <i>Survey date: THURSDAY</i> HD-02-D-03 INDUSTRIAL ESTATE BRADFIELD ROAD RUISLIP | 3850 sqm <i>25/06/15</i> | <i>Survey Type: MANUAL</i> HI LLI NGDON | |
| 5 | SOUTH RUISLIP Suburban Area (PPS6 Out of Centre) Industrial Zone Total Gross floor area: <i>Survey date: MONDAY</i> HO-02-D-01 INDUSTRIAL ESTATE HAMPTON ROAD WEST | 8310 sqm <i>10/06/19</i> | <i>Survey Type: MANUAL</i> HOUNSLOW | |
| | HANWORTH Suburban Area (PPS6 Out of Centre) Industrial Zone Total Gross floor area: <i>Survey date: THURSDAY</i> | 7400 sqm <i>25/06/15</i> | Survey Type: MANUAL | |

Т

This section provides a list of all survey sites and days in the selected set. For each individual survey site, it displays a unique site reference code and site address, the selected trip rate calculation parameter and its value, the day of the week and date of each survey, and whether the survey was a manual classified count or an ATC count.

73-81 Southwark Bridge Road Markides Associates Ltd London

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL TOTAL VEHICLES Calculation factor: 100 sqm BOLD print indicates peak (busiest) period Total People to Total Vehicles ratio (all time periods and directions): 1.37

| No. Ave. Trip No. Ave. Trip No. Ave. Trip No. Ave. Trip Time Range Days GFA Rate GGA GGA |
|--|
| Time RangeDaysGFARateDaysGFARateDaysGFARate00:00 - 00:300000000000000:30 - 01:000 |
| 00:00 - 00:30 </td |
| 00:30 - 01:00 </td |
| 01:00 - 01:30 |
| 01:30 - 02:00 </td |
| 02:00 - 02:30 |
| 02:30 - 03:00 |
| 03:00 - 03:30 |
| 03:30 - 04:00 |
| 04:00 - 04:30 |
| 04:30 - 05:00 |
| 05:00 - 05:30 2 7855 0.025 2 7855 0.000 2 7855 0.025 05:30 - 06:00 2 7855 0.064 2 7855 0.006 2 7855 0.070 06:00 - 06:30 2 7855 0.172 2 7855 0.045 2 7855 0.217 06:30 - 07:00 2 7855 0.229 2 7855 0.108 2 7855 0.337 |
| 05:30 - 06:00 2 7855 0.064 2 7855 0.006 2 7855 0.070 06:00 - 06:30 2 7855 0.172 2 7855 0.045 2 7855 0.217 06:30 - 07:00 2 7855 0.229 2 7855 0.108 2 7855 0.337 |
| 06:00 - 06:30 2 7855 0.172 2 7855 0.045 2 7855 0.217 06:30 - 07:00 2 7855 0.229 2 7855 0.108 2 7855 0.337 |
| 06:30 - 07:00 2 7855 0.229 2 7855 0.108 2 7855 0.337 |
| |
| 07:00 - 07:30 5 7685 0.325 5 7685 0.195 5 7685 0.520 |
| 07:30 - 08:00 5 7685 0.344 5 7685 0.268 5 7685 0.612 |
| 08:00 - 08:30 5 7685 0.429 5 7685 0.265 5 7685 0.694 |
| 08:30 - 09:00 5 7685 0.453 5 7685 0.318 5 7685 0.771 |
| 09:00 - 09:30 5 7685 0.458 5 7685 0.312 5 7685 0.770 |
| 09:30 - 10:00 5 7685 0.445 5 7685 0.385 5 7685 0.830 |
| 10:00 - 10:30 5 7685 0.442 5 7685 0.442 5 7685 0.884 |
| 10:30 - 11:00 5 7685 0.487 5 7685 0.401 5 7685 0.888 |
| 11:00 - 11:30 5 7685 0.476 5 7685 0.505 5 7685 0.981 |
| 11:30 - 12:00 5 7685 0.401 5 7685 0.466 5 7685 0.867 |
| 12:00 - 12:30 5 7685 0.440 5 7685 0.437 5 7685 0.877 |
| 12:30 - 13:00 5 7685 0.359 5 7685 0.393 5 7685 0.752 |
| 13:00 - 13:30 5 7685 0.393 5 7685 0.450 5 7685 0.843 |
| 13:30 - 14:00 5 7685 0.341 5 7685 0.271 5 7685 0.612 |
| 14:00 - 14:30 5 7685 0.328 5 7685 0.372 5 7685 0.700 |
| 14:30 - 15:00 5 7685 0.323 5 7685 0.375 5 7685 0.698 |
| 15:00 - 15:30 5 7685 0.328 5 7685 0.388 5 7685 0.716 |
| 15:30 - 16:00 5 7685 0.291 5 7685 0.328 5 7685 0.619 |
| 16:00 - 16:30 5 7685 0.281 5 7685 0.307 5 7685 0.588 |
| 16:30 - 17:00 5 7685 0.203 5 7685 0.310 5 7685 0.513 |
| 17:00 - 17:30 5 7685 0.174 5 7685 0.276 5 7685 0.450 |
| 17:30 - 18:00 5 7685 0.128 5 7685 0.271 5 7685 0.399 |
| 18:00 - 18:30 5 7685 0.151 5 7685 0.219 5 7685 0.370 |
| 18:30 - 19:00 5 7685 0.128 5 7685 0.146 5 7685 0.274 |
| <u>19:00 - 19:30</u> <u>3</u> <u>6337</u> <u>0.105</u> <u>3</u> <u>6337</u> <u>0.110</u> <u>3</u> <u>6337</u> <u>0.215</u> |
| 19:30 - 20:00 3 6337 0.042 3 6337 0.095 3 6337 0.137 |
| 20:00 - 20:30 2 5805 0.009 2 5805 0.043 2 5805 0.052 |
| 20:30 - 21:00 2 5805 0.000 2 5805 0.034 2 5805 0.034 |
| 21:00 - 21:30 |
| 21:30 - 22:00 |
| 22:00 - 22:30 |
| 22:30 - 23:00 |
| 23:00 - 23:30 |
| 23:30 - 24:00 |
| Total Rates: 8.774 8.541 17.315 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

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Parameter summary

| Trip rate parameter range selected: | 3300 - 13850 (units: sqm) |
|---|---------------------------|
| Survey date date range: | 01/01/14 - 10/06/19 |
| Number of weekdays (Monday-Friday): | 5 |
| Number of Saturdays: | 0 |
| Number of Sundays: | 0 |
| Surveys automatically removed from selection: | 0 |
| Surveys manually removed from selection: | 0 |

This section displays a quick summary of some of the data filtering selections made by the TRICS® user. The trip rate calculation parameter range of all selected surveys is displayed first, followed by the range of minimum and maximum survey dates selected by the user. Then, the total number of selected weekdays and weekend days in the selected set of surveys are show. Finally, the number of survey days that have been manually removed from the selected set outside of the standard filtering procedure are displayed.

73-81 Southwark Bridge Road Markides Associates Ltd London

> TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL TAXIS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES TOTALS | | TOTALS | | TALS | |
|---------------|------|----------|-------|------|-------------------|-------|--------|------|-------|--|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip | |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate | |
| 00:00 - 00:30 | | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | |
| 06:00 - 06:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | |
| 06:30 - 07:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | |
| 07:00 - 07:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 07:30 - 08:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 08:00 - 08:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 08:30 - 09:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 09:00 - 09:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 | 5 | 7685 | 0.010 | |
| 09:30 - 10:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 10:00 - 10:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 10:30 - 11:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 11:00 - 11:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 | 5 | 7685 | 0.010 | |
| 11:30 - 12:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 12:00 - 12:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 12:30 - 13:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 13:00 - 13:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.008 | 5 | 7685 | 0.016 | |
| 13:30 - 14:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 14:00 - 14:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 14:30 - 15:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 | 5 | 7685 | 0.010 | |
| 15:00 - 15:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 15:30 - 16:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 16:00 - 16:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 16:30 - 17:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 17:00 - 17:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 17:30 - 18:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 18:30 - 19:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | |
| 21:00 - 21:30 | | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | | |
| Total Rates: | | | 0.038 | | | 0.038 | | | 0.076 | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Licence No: 860401

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE

Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

MULTI-MODAL OGVS

| | ARRIVALS DEPARTURES TOTAL | | TOTALS | S | | | | | |
|---------------|---------------------------|------|--------|------|------|-------|------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | _ | | | | | | _ | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.006 | 2 | 7855 | 0.000 | 2 | 7855 | 0.006 |
| 05:30 - 06:00 | 2 | 7855 | 0.006 | 2 | 7855 | 0.000 | 2 | 7855 | 0.006 |
| 06:00 - 06:30 | 2 | 7855 | 0.006 | 2 | 7855 | 0.000 | 2 | 7855 | 0.006 |
| 06:30 - 07:00 | 2 | 7855 | 0.025 | 2 | 7855 | 0.013 | 2 | 7855 | 0.038 |
| 07:00 - 07:30 | 5 | 7685 | 0.021 | 5 | 7685 | 0.034 | 5 | 7685 | 0.055 |
| 07:30 - 08:00 | 5 | 7685 | 0.021 | 5 | 7685 | 0.018 | 5 | 7685 | 0.039 |
| 08:00 - 08:30 | 5 | 7685 | 0.021 | 5 | 7685 | 0.016 | 5 | 7685 | 0.037 |
| 08:30 - 09:00 | 5 | 7685 | 0.039 | 5 | 7685 | 0.031 | 5 | 7685 | 0.070 |
| 09:00 - 09:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.018 | 5 | 7685 | 0.026 |
| 09:30 - 10:00 | 5 | 7685 | 0.042 | 5 | 7685 | 0.031 | 5 | 7685 | 0.073 |
| 10:00 - 10:30 | 5 | 7685 | 0.039 | 5 | 7685 | 0.034 | 5 | 7685 | 0.073 |
| 10:30 - 11:00 | 5 | 7685 | 0.023 | 5 | 7685 | 0.031 | 5 | 7685 | 0.054 |
| 11:00 - 11:30 | 5 | 7685 | 0.026 | 5 | 7685 | 0.023 | 5 | 7685 | 0.049 |
| 11:30 - 12:00 | 5 | 7685 | 0.031 | 5 | 7685 | 0.036 | 5 | 7685 | 0.067 |
| 12:00 - 12:30 | 5 | 7685 | 0.018 | 5 | 7685 | 0.018 | 5 | 7685 | 0.036 |
| 12:30 - 13:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.016 | 5 | 7685 | 0.032 |
| 13:00 - 13:30 | 5 | 7685 | 0.034 | 5 | 7685 | 0.023 | 5 | 7685 | 0.057 |
| 13:30 - 14:00 | 5 | 7685 | 0.026 | 5 | 7685 | 0.039 | 5 | 7685 | 0.065 |
| 14:00 - 14:30 | 5 | 7685 | 0.016 | 5 | 7685 | 0.016 | 5 | 7685 | 0.032 |
| 14:30 - 15:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.008 | 5 | 7685 | 0.024 |
| 15:00 - 15:30 | 5 | 7685 | 0.026 | 5 | 7685 | 0.026 | 5 | 7685 | 0.052 |
| 15:30 - 16:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.010 | 5 | 7685 | 0.023 |
| 16:00 - 16:30 | 5 | 7685 | 0.023 | 5 | 7685 | 0.021 | 5 | 7685 | 0.044 |
| 16:30 - 17:00 | 5 | 7685 | 0.010 | 5 | 7685 | 0.021 | 5 | 7685 | 0.031 |
| 17:00 - 17:30 | 5 | 7685 | 0.010 | 5 | 7685 | 0.010 | 5 | 7685 | 0.020 |
| 17:30 - 18:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 |
| 18:30 - 19:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 19:00 - 19:30 | 3 | 6337 | 0.005 | 3 | 6337 | 0.011 | 3 | 6337 | 0.016 |
| 19:30 - 20:00 | 3 | 6337 | 0.005 | 3 | 6337 | 0.000 | 3 | 6337 | 0.005 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.538 | | | 0.509 | | | 1 047 |
| Total Natos. | | | 0.000 | | | 0.007 | | | 1.047 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

Monday 28/11/22 Page 9 Licence No: 860401

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI - MODAL PSVS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | ARRIVALS | | | | DEPARTURES | 5 | TOTALS | | |
|---------------|----------|------|-------|------|------------|-------|--------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | - | | | - | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:00 - 06:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:30 - 07:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 07:00 - 07:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 07:30 - 08:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 08:00 - 08:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 08:30 - 09:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 09:00 - 09:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 09:30 - 10:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:00 - 10:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:30 - 11:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 11:00 - 11:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 11:30 - 12:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 12:00 - 12:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 12:30 - 13:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13:00 - 13:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13:30 - 14:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 14.00 - 14.30 | 5 | 7685 | 0.003 | 5 | 7685 | 0,000 | 5 | 7685 | 0.003 |
| 14:30 - 15:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:00 - 15:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:30 - 16:00 | 5 | 7685 | 0,000 | 5 | 7685 | 0,000 | 5 | 7685 | 0.000 |
| 16:00 - 16:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 16:30 - 17:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 17:00 - 17:30 | 5 | 7685 | 0,000 | 5 | 7685 | 0,000 | 5 | 7685 | 0.000 |
| 17:30 - 18:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 18:30 - 19:00 | 5 | 7685 | 0,000 | 5 | 7685 | 0,000 | 5 | 7685 | 0,000 |
| 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 21:00 - 21:30 | | | 0.000 | ۲ | | 0.000 | 2 | | 0.000 |
| 21.30 - 22.00 | | | | | | | | | |
| 22.00 - 22.00 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23.00 - 23.30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.003 | | | 0.000 | | | 0.003 |
| . Star Rates. | | | 5.005 | | | 5.000 | | | 0.000 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL CYCLISTS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | I | DEPARTURES | | | TOTALS | | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|--|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip | |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate | |
| 00:00 - 00:30 | | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | |
| 05:30 - 06:00 | 2 | 7855 | 0.025 | 2 | 7855 | 0.006 | 2 | 7855 | 0.031 | |
| 06:00 - 06:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | |
| 06:30 - 07:00 | 2 | 7855 | 0.006 | 2 | 7855 | 0.000 | 2 | 7855 | 0.006 | |
| 07:00 - 07:30 | 5 | 7685 | 0.010 | 5 | 7685 | 0.000 | 5 | 7685 | 0.010 | |
| 07:30 - 08:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.003 | 5 | 7685 | 0.019 | |
| 08:00 - 08:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 | |
| 08:30 - 09:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 | |
| 09:00 - 09:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.000 | 5 | 7685 | 0.008 | |
| 09:30 - 10:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | |
| 10:00 - 10:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 | |
| 10:30 - 11:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 11:00 - 11:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.005 | 5 | 7685 | 0.013 | |
| 11:30 - 12:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.003 | 5 | 7685 | 0.008 | |
| 12:00 - 12:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 12:30 - 13:00 | 5 | 7685 | 0.008 | 5 | 7685 | 0.003 | 5 | 7685 | 0.011 | |
| 13:00 - 13:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.005 | 5 | 7685 | 0.008 | |
| 13:30 - 14:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 14:00 - 14:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.003 | 5 | 7685 | 0.008 | |
| 14:30 - 15:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | |
| 15:00 - 15:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.026 | 5 | 7685 | 0.029 | |
| 15:30 - 16:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 | |
| 16:00 - 16:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.008 | 5 | 7685 | 0.008 | |
| 16:30 - 17:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.003 | 5 | 7685 | 0.008 | |
| 17:00 - 17:30 | 5 | 7685 | 0,000 | 5 | 7685 | 0.013 | 5 | 7685 | 0.013 | |
| 17:30 - 18:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | |
| 18:30 - 19:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.005 | 5 | 7685 | 0.008 | |
| 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | |
| 21:00 - 21:30 | ~ ~ | 3003 | 0.000 | ۷ | 5005 | 0.000 | ~ ~ | 5005 | 0.000 | |
| 21:30 - 22:00 | | | | | | | | | | |
| 22.00 - 22.00 | | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | | |
| 23.00 - 23.30 | | | | | | | | | | |
| 23.30 - 24.00 | | | | | | | | | | |
| Total Rates | | | 0.120 | | | 0 127 | | | 0 247 | |
| Total Nates. | | | 0.120 | | | 0.127 | | | 0.247 | |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI - MODAL VEHICLE OCCUPANTS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | | | TOTALS | |
|---------------|------|----------|--------|------|------------|--------|------|--------|--------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | - | | | - | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.025 | 2 | 7855 | 0.000 | 2 | 7855 | 0.025 |
| 05:30 - 06:00 | 2 | 7855 | 0.070 | 2 | 7855 | 0.006 | 2 | 7855 | 0.076 |
| 06:00 - 06:30 | 2 | 7855 | 0.204 | 2 | 7855 | 0.051 | 2 | 7855 | 0.255 |
| 06:30 - 07:00 | 2 | 7855 | 0.299 | 2 | 7855 | 0.121 | 2 | 7855 | 0.420 |
| 07:00 - 07:30 | 5 | 7685 | 0.432 | 5 | 7685 | 0.234 | 5 | 7685 | 0.666 |
| 07:30 - 08:00 | 5 | 7685 | 0.445 | 5 | 7685 | 0.401 | 5 | 7685 | 0.846 |
| 08:00 - 08:30 | 5 | 7685 | 0.523 | 5 | 7685 | 0.338 | 5 | 7685 | 0.861 |
| 08:30 - 09:00 | 5 | 7685 | 0.588 | 5 | 7685 | 0.406 | 5 | 7685 | 0.994 |
| 09:00 - 09:30 | 5 | 7685 | 0.518 | 5 | 7685 | 0.383 | 5 | 7685 | 0.901 |
| 09:30 - 10:00 | 5 | 7685 | 0.534 | 5 | 7685 | 0.435 | 5 | 7685 | 0.969 |
| 10:00 - 10:30 | 5 | 7685 | 0.484 | 5 | 7685 | 0.513 | 5 | 7685 | 0.997 |
| 10:30 - 11:00 | 5 | 7685 | 0.570 | 5 | 7685 | 0.479 | 5 | 7685 | 1.049 |
| 11:00 - 11:30 | 5 | 7685 | 0.531 | 5 | 7685 | 0.588 | 5 | 7685 | 1.119 |
| 11:30 - 12:00 | 5 | 7685 | 0.479 | 5 | 7685 | 0.541 | 5 | 7685 | 1.020 |
| 12:00 - 12:30 | 5 | 7685 | 0.513 | 5 | 7685 | 0.505 | 5 | 7685 | 1.018 |
| 12:30 - 13:00 | 5 | 7685 | 0.422 | 5 | 7685 | 0.479 | 5 | 7685 | 0.901 |
| 13:00 - 13:30 | 5 | 7685 | 0.500 | 5 | 7685 | 0.520 | 5 | 7685 | 1.020 |
| 13:30 - 14:00 | 5 | 7685 | 0.390 | 5 | 7685 | 0.320 | 5 | 7685 | 0.710 |
| 14:00 - 14:30 | 5 | 7685 | 0.385 | 5 | 7685 | 0.424 | 5 | 7685 | 0.809 |
| 14:30 - 15:00 | 5 | 7685 | 0.388 | 5 | 7685 | 0.450 | 5 | 7685 | 0.838 |
| 15:00 - 15:30 | 5 | 7685 | 0.393 | 5 | 7685 | 0.448 | 5 | 7685 | 0.841 |
| 15:30 - 16:00 | 5 | 7685 | 0.364 | 5 | 7685 | 0.409 | 5 | 7685 | 0.773 |
| 16:00 - 16:30 | 5 | 7685 | 0.362 | 5 | 7685 | 0.383 | 5 | 7685 | 0.745 |
| 16:30 - 17:00 | 5 | 7685 | 0.268 | 5 | 7685 | 0.380 | 5 | 7685 | 0.648 |
| 17:00 - 17:30 | 5 | 7685 | 0.221 | 5 | 7685 | 0.349 | 5 | 7685 | 0.570 |
| 17:30 - 18:00 | 5 | 7685 | 0.161 | 5 | 7685 | 0.331 | 5 | 7685 | 0.492 |
| 18:00 - 18:30 | 5 | 7685 | 0.208 | 5 | 7685 | 0.302 | 5 | 7685 | 0.510 |
| 18:30 - 19:00 | 5 | 7685 | 0.156 | 5 | 7685 | 0.185 | 5 | 7685 | 0.341 |
| 19:00 - 19:30 | 3 | 6337 | 0.126 | 3 | 6337 | 0.168 | 3 | 6337 | 0.294 |
| 19:30 - 20:00 | 3 | 6337 | 0.047 | 3 | 6337 | 0.126 | 3 | 6337 | 0.173 |
| 20:00 - 20:30 | 2 | 5805 | 0.009 | 2 | 5805 | 0.052 | 2 | 5805 | 0.061 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.034 | 2 | 5805 | 0.034 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 10.615 | | | 10.361 | | | 20.976 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL PEDESTRIANS Calculation factor: 100 sqm

BOLD print indicates peak (busiest) period

| No. Ave. Trip No. Ave. Trip Days GFA Rate Days GFA GFA Rate | | | ARRIVALS | | | DEPARTURES | 5 | | TOTALS | |
|--|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| Time Range Days GFA Rate Days GFA Rate Days GFA Rate 00: 00 - 00: 30 </th <th></th> <th>No.</th> <th>Ave.</th> <th>Trip</th> <th>No.</th> <th>Ave.</th> <th>Trip</th> <th>No.</th> <th>Ave.</th> <th>Trip</th> | | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| 00:00:00:30 27855 0.000 27855 0.000 27855 0.000 27855 0.000 27855 0.000 27855 0.013 5785 0.043 00:30 01:30 5785 0.013 5785 0.026 01:30 5785 0.013 5785 0.026 01:30 57855 0.026 0:30 <th< td=""><td>Time Range</td><td>Days</td><td>GFA</td><td>Rate</td><td>Days</td><td>GFA</td><td>Rate</td><td>Days</td><td>GFA</td><td>Rate</td></th<> | Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:30-01:00 00:30 00:00 | 00:00 - 00:30 | | | | | | | | | |
| 01:30 - 01:30 | 00:30 - 01:00 | | | | | | | | | |
| 01:30 - 02:00 | 01:00 - 01:30 | | | | | | | | | |
| 02:00 - 02:30 03:30 - 03:30 0 < | 01:30 - 02:00 | | | | | | | | | |
| 02:30 - 03:00 03:00 - 03:30 <t< td=""><td>02:00 - 02:30</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<> | 02:00 - 02:30 | | | | | | | | | |
| 03:00 - 03:30 04:00 - 04:30 04:30 - 06:00 05:30 - 06:00 2 7855 0.019 2 7855 0.000 2 7855 0.019 06:30 - 07:00 2 7855 0.045 2 7855 0.000 2 7855 0.045 06:30 - 07:00 2 7855 0.045 2 7855 0.000 2 7855 0.045 07:30 - 07:00 5 7665 0.013 5 7665 0.013 5 7665 0.026 5 7665 0.013 5 7665 0.023 5 7665 0.013 5 7665 0.013 5 7665 0.013 5 7665 0.013 5 7665 0.013 5 7665 0.013 5 7665 0.013 5 7665 0.013 5 7665 0.013 | 02:30 - 03:00 | | | | | | | | | |
| 03.30 - 04:00 05:30 - 05:30 2 7855 0.000 2 7855 0.000 2 7855 0.000 2 7855 0.010 5 7665 0.013 5 7665 0.013 5 7665 0.013 5 | 03:00 - 03:30 | | | | | | | | | |
| 04:00 - 04:30 | 03:30 - 04:00 | | | | | | | | | |
| 04:30-05:00 0 7855 0.019 2 7855 0.000 2 7855 0.019 05:30-06:00 2 7855 0.045 2 7855 0.000 2 7855 0.045 06:30-07:00 2 7855 0.045 2 7855 0.000 2 7855 0.046 07:30 5 7685 0.026 5 7685 0.031 5 7685 0.026 08:30-09:00 5 7685 0.013 5 7685 0.033 5 7685 0.033 5 7685 0.036 0.036 0.036 0.036 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 5 7685 0.033 | 04:00 - 04:30 | | | | | | | | | |
| 05:00 - 05:30 2 7855 0.019 2 7855 0.000 2 7855 0.019 05:30 - 66:00 2 7855 0.025 2 7855 0.000 2 7855 0.045 06:30 - 07:00 2 7855 0.026 5 7865 0.000 2 7855 0.044 07:00 - 07:30 5 7665 0.026 5 7665 0.026 5 7665 0.026 5 7665 0.026 0.026 0.033 5 7665 0.026 0.033 5 7665 0.026 0.033 5 7665 0.026 0.033 5 7665 0.026 0.033 5 7665 0.026 0.033 5 7665 0.026 0.033 5 7665 0.026 0.033 5 7665 0.034 5 7665 0.034 5 7665 0.034 5 7665 0.034 5 7665 0.034 5 7665 | 04:30 - 05:00 | | | | | | | | | |
| 05:30 - 06:00 2 7855 0.025 2 7855 0.000 2 7855 0.025 06:30 - 07:00 2 7855 0.064 2 7855 0.000 2 7855 0.064 07:00 - 07:30 5 7685 0.026 5 7685 0.013 5 7685 0.026 07:30 - 08:00 5 7685 0.013 5 7685 0.013 5 7685 0.026 08:30 - 09:00 5 7685 0.023 5 7685 0.013 5 7685 0.013 5 7685 0.026 09:30 - 10:00 5 7685 0.023 5 7685 0.013 5 7685 0.034 5 7685 0.013 5 7685 0.033 5 7685 0.013 5 7685 0.034 5 7685 0.013 5 7685 0.034 5 7685 0.034 5 7685 0.026 11:00 | 05:00 - 05:30 | 2 | 7855 | 0.019 | 2 | 7855 | 0.000 | 2 | 7855 | 0.019 |
| 06:00 - 06:30 2 7855 0.045 2 7855 0.000 2 7855 0.044 06:30 - 77:00 2 7855 0.064 2 7855 0.000 2 7855 0.064 07:00 - 07:30 5 7685 0.013 5 7685 0.026 5 7685 0.013 5 7685 0.026 08:00 - 08:30 5 7685 0.026 5 7685 0.013 5 7685 0.026 09:00 - 09:30 5 7685 0.023 5 7685 0.013 5 7685 0.031 09:30 - 10:00 5 7685 0.023 5 7685 0.013 5 7685 0.034 01:30 - 11:00 5 7685 0.013 5 7685 0.013 5 7685 0.026 11:30 - 12:00 5 7685 0.013 5 7685 0.021 5 7685 0.022 5 7685 0 | 05:30 - 06:00 | 2 | 7855 | 0.025 | 2 | 7855 | 0.000 | 2 | 7855 | 0.025 |
| 06:30 - 07:00 2 7855 0.064 2 7855 0.000 2 7855 0.044 07:00 - 07:30 5 7685 0.026 5 7685 0.013 5 7685 0.026 08:00 - 08:30 5 7685 0.013 5 7685 0.013 5 7685 0.026 09:00 - 09:30 5 7685 0.013 5 7685 0.013 5 7685 0.020 09:30 - 10:00 5 7685 0.023 5 7685 0.013 5 7685 0.043 10:00 - 10:30 5 7685 0.018 5 7685 0.034 5 7685 0.034 11:00 - 11:30 5 7685 0.013 5 7685 0.013 5 7685 0.026 12:30 - 13:00 5 7685 0.013 5 7685 0.021 5 7685 0.024 13:30 - 14:00 5 7685 0.023 5 7685 0.021 5 7685 0.024 13:30 - 14:00 <td>06:00 - 06:30</td> <td>2</td> <td>7855</td> <td>0.045</td> <td>2</td> <td>7855</td> <td>0.000</td> <td>2</td> <td>7855</td> <td>0.045</td> | 06:00 - 06:30 | 2 | 7855 | 0.045 | 2 | 7855 | 0.000 | 2 | 7855 | 0.045 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 06:30 - 07:00 | 2 | 7855 | 0.064 | 2 | 7855 | 0.000 | 2 | 7855 | 0.064 |
| 07:30 - 08:00 5 7685 0.013 5 7685 0.013 5 7685 0.026 08:30 - 09:00 5 7685 0.026 5 7685 0.013 5 7685 0.026 09:00 - 09:30 5 7685 0.013 5 7685 0.013 5 7685 0.023 09:30 - 10:00 5 7685 0.018 5 7685 0.013 5 7685 0.033 10:00 - 10:30 5 7685 0.018 5 7685 0.034 5 7685 0.033 10:00 - 11:30 5 7685 0.013 5 7685 0.013 5 7685 0.024 11:00 - 11:30 5 7685 0.013 5 7685 0.024 7685 0.023 5 7685 0.026 11:00 - 11:30 5 7685 0.013 5 7685 0.024 7685 0.024 12:30 - 13:00 5 7685 0.013 5 7685 0.024 5 7685 0.024 | 07:00 - 07:30 | 5 | 7685 | 0.026 | 5 | 7685 | 0.008 | 5 | 7685 | 0.034 |
| 08:00 - 08:30 5 7685 0.026 5 7685 0.010 5 7685 0.033 08:30 - 09:00 5 7685 0.013 5 7685 0.023 09:00 - 09:30 5 7685 0.023 5 7685 0.013 5 7685 0.023 10:00 - 10:30 5 7685 0.014 5 7685 0.034 5 7685 0.034 10:30 - 11:00 5 7685 0.013 5 7685 0.013 5 7685 0.026 11:30 - 12:00 5 7685 0.013 5 7685 0.013 5 7685 0.026 12:00 - 12:30 5 7685 0.013 5 7685 0.018 5 7685 0.021 12:30 - 13:00 5 7685 0.021 5 7685 0.023 5 7685 0.023 5 7685 0.024 13:30 - 14:00 5 7685 0.021 | 07:30 - 08:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.013 | 5 | 7685 | 0.026 |
| 08:30 - 09:00 5 7685 0.013 5 7685 0.013 5 7685 0.026 09:00 - 09:30 5 7685 0.034 5 7685 0.013 5 7685 0.047 09:30 - 10:00 5 7685 0.018 5 7685 0.033 5 7685 0.033 10:00 - 10:30 5 7685 0.013 5 7685 0.034 5 7685 0.036 11:00 - 11:30 5 7685 0.013 5 7685 0.013 5 7685 0.026 11:00 - 11:30 5 7685 0.013 5 7685 0.021 5 7685 0.024 12:00 - 12:30 5 7685 0.013 5 7685 0.021 5 7685 0.024 13:00 - 13:30 5 7685 0.021 5 7685 0.021 5 7685 0.021 5 7685 0.021 5 7685 0 | 08:00 - 08:30 | 5 | 7685 | 0.026 | 5 | 7685 | 0.010 | 5 | 7685 | 0.036 |
| 09:00 - 09:30 5 7685 0.034 5 7685 0.013 5 7685 0.047 09:30 - 10:00 5 7685 0.023 5 7685 0.010 5 7685 0.036 10:00 - 10:30 5 7685 0.034 5 7685 0.034 10:00 - 11:30 5 7685 0.013 5 7685 0.026 11:30 - 11:30 5 7685 0.013 5 7685 0.026 12:30 - 12:30 5 7685 0.013 5 7685 0.024 12:30 - 13:30 5 7685 0.023 5 7685 0.024 13:00 - 13:30 5 7685 0.023 5 7685 0.024 13:00 - 13:30 5 7685 0.023 5 7685 0.023 5 7685 0.024 13:00 - 13:30 5 7685 0.021 5 7685 0.021 5 7685 0.024 5 | 08:30 - 09:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.013 | 5 | 7685 | 0.026 |
| 09:30 - 10:00 5 7685 0.023 5 7685 0.010 5 7685 0.033 10:00 - 10:30 5 7685 0.018 5 7685 0.034 5 7685 0.034 10:30 - 11:00 5 7685 0.034 5 7685 0.034 5 7685 0.026 11:00 - 11:30 5 7685 0.013 5 7685 0.013 5 7685 0.026 12:00 - 12:30 5 7685 0.013 5 7685 0.018 5 7685 0.024 12:00 - 13:30 5 7685 0.023 5 7685 0.021 5 7685 0.024 13:30 - 14:00 5 7685 0.026 5 7685 0.021 5 7685 0.044 14:00 - 14:30 5 7685 0.021 5 7685 0.041 5 7685 0.044 15:00 5 7685 0.013 5 7685 0.021 5 7685 0.044 5 7685 0.044 </td <td>09:00 - 09:30</td> <td>5</td> <td>7685</td> <td>0.034</td> <td>5</td> <td>7685</td> <td>0.013</td> <td>5</td> <td>7685</td> <td>0.047</td> | 09:00 - 09:30 | 5 | 7685 | 0.034 | 5 | 7685 | 0.013 | 5 | 7685 | 0.047 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 09:30 - 10:00 | 5 | 7685 | 0.023 | 5 | 7685 | 0.010 | 5 | 7685 | 0.033 |
| 10:30 - 11:00 5 7685 0.034 5 7685 0.034 5 7685 0.068 11:00 - 11:30 5 7685 0.013 5 7685 0.026 12:00 - 12:30 5 7685 0.013 5 7685 0.021 12:00 - 12:30 5 7685 0.013 5 7685 0.021 12:00 - 12:30 5 7685 0.023 5 7685 0.021 5 7685 0.024 12:00 - 12:30 5 7685 0.023 5 7685 0.021 5 7685 0.024 13:30 - 14:00 5 7685 0.026 5 7685 0.023 5 7685 0.078 14:300 - 15:30 5 7685 0.026 5 7685 0.016 5 7685 0.047 15:00 5 7685 0.013 5 7685 0.046 5 7685 0.047 15:00 5 7685 0.013 5 7685 0.021 5 7685 0.047 | 10:00 - 10:30 | 5 | 7685 | 0.018 | 5 | 7685 | 0.018 | 5 | 7685 | 0.036 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 10:30 - 11:00 | 5 | 7685 | 0.034 | 5 | 7685 | 0.034 | 5 | 7685 | 0.068 |
| 11:30 - 12:00 5 7685 0.013 5 7685 0.013 5 7685 0.026 12:30 - 12:30 5 7685 0.013 5 7685 0.018 5 7685 0.021 12:30 - 13:30 5 7685 0.023 5 7685 0.021 5 7685 0.024 13:00 - 13:30 5 7685 0.026 5 7685 0.021 5 7685 0.024 13:00 - 14:30 5 7685 0.026 5 7685 0.023 5 7685 0.044 14:00 - 14:30 5 7685 0.021 5 7685 0.047 15:00 - 15:30 5 7685 0.021 5 7685 0.044 5 7685 0.044 15:30 - 16:00 5 7685 0.021 5 7685 0.021 5 7685 0.021 16:00 - 16:30 5 7685 0.021 5 7685 0.021 5 7685 0.022 17:00 - 17:30 5 7685 0.013 <td>11:00 - 11:30</td> <td>5</td> <td>7685</td> <td>0.013</td> <td>5</td> <td>7685</td> <td>0.013</td> <td>5</td> <td>7685</td> <td>0.026</td> | 11:00 - 11:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.013 | 5 | 7685 | 0.026 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 11:30 - 12:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.013 | 5 | 7685 | 0.026 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 12:00 - 12:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.018 | 5 | 7685 | 0.031 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 12:30 - 13:00 | 5 | 7685 | 0.008 | 5 | 7685 | 0.016 | 5 | 7685 | 0.024 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 13:00 - 13:30 | 5 | 7685 | 0.023 | 5 | 7685 | 0.031 | 5 | 7685 | 0.054 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 13:30 - 14:00 | 5 | 7685 | 0.057 | 5 | 7685 | 0.021 | 5 | 7685 | 0.078 |
| 14:30 - 15:00 5 7685 0.031 5 7685 0.016 5 7685 0.047 15:00 - 15:30 5 7685 0.013 5 7685 0.021 5 7685 0.042 15:00 - 16:30 5 7685 0.021 5 7685 0.021 5 7685 0.044 16:00 - 16:30 5 7685 0.016 5 7685 0.021 5 7685 0.044 16:30 - 17:00 5 7685 0.008 5 7685 0.021 5 7685 0.020 17:00 - 17:30 5 7685 0.008 5 7685 0.021 5 7685 0.021 17:30 - 18:00 5 7685 0.010 5 7685 0.021 5 7685 0.028 18:30 - 19:00 5 7685 0.008 5 7685 0.018 5 7685 0.026 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:30 - 20:00 <td>14:00 - 14:30</td> <td>5</td> <td>7685</td> <td>0.026</td> <td>5</td> <td>7685</td> <td>0.023</td> <td>5</td> <td>7685</td> <td>0.049</td> | 14:00 - 14:30 | 5 | 7685 | 0.026 | 5 | 7685 | 0.023 | 5 | 7685 | 0.049 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $ | 14:30 - 15:00 | 5 | 7685 | 0.031 | 5 | 7685 | 0.016 | 5 | 7685 | 0.047 |
| 15:30 - 16:00 5 7685 0.021 5 7685 0.042 16:00 - 16:30 5 7685 0.016 5 7685 0.044 5 7685 0.060 16:30 - 17:00 5 7685 0.008 5 7685 0.021 5 7685 0.029 17:00 - 17:30 5 7685 0.005 5 7685 0.021 5 7685 0.029 17:00 - 17:30 5 7685 0.005 5 7685 0.021 5 7685 0.026 17:30 - 18:00 5 7685 0.013 5 7685 0.021 5 7685 0.028 18:00 - 18:30 5 7685 0.010 5 7685 0.018 5 7685 0.026 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:00 - 20:30 2 5805 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:00 2 5805 0.000 <td>15:00 - 15:30</td> <td>5</td> <td>7685</td> <td>0.013</td> <td>5</td> <td>7685</td> <td>0.018</td> <td>5</td> <td>7685</td> <td>0.031</td> | 15:00 - 15:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.018 | 5 | 7685 | 0.031 |
| 16:00 - 16:30 5 7685 0.016 5 7685 0.044 5 7685 0.060 16:30 - 17:00 5 7685 0.008 5 7685 0.021 5 7685 0.029 17:00 - 17:30 5 7685 0.005 5 7685 0.021 5 7685 0.026 17:30 - 18:00 5 7685 0.013 5 7685 0.021 5 7685 0.034 18:00 - 18:30 5 7685 0.010 5 7685 0.018 5 7685 0.021 5 7685 0.028 18:30 - 19:00 5 7685 0.008 5 7685 0.018 5 7685 0.026 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:30 - 20:00 3 6337 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:30 2 5805 0.000 2 5805 0.026 2 5805 <td< td=""><td>15:30 - 16:00</td><td>5</td><td>7685</td><td>0.021</td><td>5</td><td>7685</td><td>0.021</td><td>5</td><td>7685</td><td>0.042</td></td<> | 15:30 - 16:00 | 5 | 7685 | 0.021 | 5 | 7685 | 0.021 | 5 | 7685 | 0.042 |
| 16:30 - 17:00 5 7685 0.008 5 7685 0.021 5 7685 0.029 17:00 - 17:30 5 7685 0.005 5 7685 0.021 5 7685 0.026 17:30 - 18:00 5 7685 0.013 5 7685 0.021 5 7685 0.034 18:00 - 18:30 5 7685 0.010 5 7685 0.018 5 7685 0.028 18:30 - 19:00 5 7685 0.008 5 7685 0.018 5 7685 0.026 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:00 - 20:30 2 5805 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:30 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:30 - 22:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:30 - 22:00 <td>16:00 - 16:30</td> <td>5</td> <td>7685</td> <td>0.016</td> <td>5</td> <td>7685</td> <td>0.044</td> <td>5</td> <td>7685</td> <td>0.060</td> | 16:00 - 16:30 | 5 | 7685 | 0.016 | 5 | 7685 | 0.044 | 5 | 7685 | 0.060 |
| 17:00 - 17:30 5 7685 0.005 5 7685 0.021 5 7685 0.026 17:30 - 18:00 5 7685 0.013 5 7685 0.021 5 7685 0.034 18:00 - 18:30 5 7685 0.010 5 7685 0.018 5 7685 0.028 18:30 - 19:00 5 7685 0.008 5 7685 0.018 5 7685 0.026 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:30 - 20:00 3 6337 0.005 3 6337 0.026 3 6337 0.058 20:00 - 20:30 2 5805 0.000 2 5805 0.017 2 5805 0.026 21:00 - 21:30 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:00 - 22:30 2 2 2 2 2 2 2 2 2 2 5 0.026 2< | 16:30 - 17:00 | 5 | 7685 | 0.008 | 5 | 7685 | 0.021 | 5 | 7685 | 0.029 |
| 17:30 - 18:00 5 7685 0.013 5 7685 0.021 5 7685 0.034 18:00 - 18:30 5 7685 0.010 5 7685 0.018 5 7685 0.028 18:30 - 19:00 5 7685 0.008 5 7685 0.018 5 7685 0.026 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:30 - 20:00 3 6337 0.005 3 6337 0.053 3 6337 0.026 19:30 - 20:00 3 6337 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:30 - 22:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 22:30 - 23:00 2 2 2 2 2 2 2 2 2 2 2 2 2 | 17:00 - 17:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.021 | 5 | 7685 | 0.026 |
| 18:00 - 18:30 5 7685 0.010 5 7685 0.018 5 7685 0.028 18:30 - 19:00 5 7685 0.008 5 7685 0.018 5 7685 0.026 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:30 - 20:00 3 6337 0.005 3 6337 0.053 3 6337 0.026 20:00 - 20:30 2 5805 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:30 - 22:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 22:30 - 23:00 2 | 17:30 - 18:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.021 | 5 | 7685 | 0.034 |
| 18:30 - 19:00 5 7685 0.008 5 7685 0.018 5 7685 0.026 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:30 - 20:00 3 6337 0.005 3 6337 0.026 3 6337 0.026 20:00 - 20:30 2 5805 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:00 - 21:30 2 5805 0.000 2 5805 0.026 2 5805 0.026 22:00 - 22:30 2 | 18:00 - 18:30 | 5 | 7685 | 0.010 | 5 | 7685 | 0.018 | 5 | 7685 | 0.028 |
| 19:00 - 19:30 3 6337 0.000 3 6337 0.026 3 6337 0.026 19:30 - 20:00 3 6337 0.005 3 6337 0.053 3 6337 0.058 20:00 - 20:30 2 5805 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:00 - 21:30 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:30 - 22:00 2 | 18:30 - 19:00 | 5 | 7685 | 0.008 | 5 | 7685 | 0.018 | 5 | 7685 | 0.026 |
| 19:30 - 20:00 3 6337 0.005 3 6337 0.053 3 6337 0.058 20:00 - 20:30 2 5805 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:00 - 21:30 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:30 - 22:00 2 | 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.026 | 3 | 6337 | 0.026 |
| 20:00 - 20:30 2 5805 0.000 2 5805 0.017 2 5805 0.017 20:30 - 21:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:00 - 21:30 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:30 - 22:00 2 | 19:30 - 20:00 | 3 | 6337 | 0.005 | 3 | 6337 | 0.053 | 3 | 6337 | 0.058 |
| 20:30 - 21:00 2 5805 0.000 2 5805 0.026 2 5805 0.026 21:00 - 21:30 <td>20:00 - 20:30</td> <td>2</td> <td>5805</td> <td>0.000</td> <td>2</td> <td>5805</td> <td>0.017</td> <td>2</td> <td>5805</td> <td>0.017</td> | 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.017 | 2 | 5805 | 0.017 |
| 21:00 - 21:30 0.623 0.624 0.625 0.625 21:30 - 22:00 0.623 0.574 0.674 | 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.026 | 2 | 5805 | 0.026 |
| 21:30 - 22:00 | 21:00 - 21:30 | | | | | | | | | |
| 22:00 - 22:30 22:30 22:30 22:30 - 23:00 23:00 - 23:30 23:30 - 24:00 Total Rates: 0.623 0.574 | 21:30 - 22:00 | | | | | | | | | |
| 22:30 - 23:00 23:00 - 23:30 23:30 - 24:00 1.197 Total Rates: 0.623 0.574 1.197 | 22:00 - 22:30 | | | | | | | | | |
| 23:00 - 23:30 23:30 - 24:00 1.197 Total Rates: 0.623 0.574 1.197 | 22:30 - 23:00 | | | | | | | | | |
| 23:30 - 24:00 0.623 0.574 1.197 | 23:00 - 23:30 | | | | | | | | | |
| Total Rates: 0.623 0.574 1.197 | 23:30 - 24:00 | | | | | | | | | |
| | Total Rates: | I | | 0.623 | | | 0.574 | | | 1.197 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Licence No: 860401

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI - MODAL BUS/TRAM PASSENGERS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.025 | 2 | 7855 | 0.000 | 2 | 7855 | 0.025 |
| 06:00 - 06:30 | 2 | 7855 | 0.051 | 2 | 7855 | 0.000 | 2 | 7855 | 0.051 |
| 06:30 - 07:00 | 2 | 7855 | 0.045 | 2 | 7855 | 0.000 | 2 | 7855 | 0.045 |
| 07:00 - 07:30 | 5 | 7685 | 0.065 | 5 | 7685 | 0.005 | 5 | 7685 | 0.070 |
| 07:30 - 08:00 | 5 | 7685 | 0.031 | 5 | 7685 | 0.008 | 5 | 7685 | 0.039 |
| 08:00 - 08:30 | 5 | 7685 | 0.052 | 5 | 7685 | 0.008 | 5 | 7685 | 0.060 |
| 08:30 - 09:00 | 5 | 7685 | 0.042 | 5 | 7685 | 0.010 | 5 | 7685 | 0.052 |
| 09:00 - 09:30 | 5 | 7685 | 0.047 | 5 | 7685 | 0.010 | 5 | 7685 | 0.057 |
| 09:30 - 10:00 | 5 | 7685 | 0.031 | 5 | 7685 | 0.016 | 5 | 7685 | 0.047 |
| 10:00 - 10:30 | 5 | 7685 | 0.023 | 5 | 7685 | 0.010 | 5 | 7685 | 0.033 |
| 10:30 - 11:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.008 | 5 | 7685 | 0.021 |
| 11:00 - 11:30 | 5 | 7685 | 0.021 | 5 | 7685 | 0.005 | 5 | 7685 | 0.026 |
| 11:30 - 12:00 | 5 | 7685 | 0.010 | 5 | 7685 | 0.005 | 5 | 7685 | 0.015 |
| 12:00 - 12:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.010 | 5 | 7685 | 0.018 |
| 12:30 - 13:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.010 | 5 | 7685 | 0.010 |
| 13:00 - 13:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.016 | 5 | 7685 | 0.029 |
| 13:30 - 14:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.008 | 5 | 7685 | 0.021 |
| 14:00 - 14:30 | 5 | 7685 | 0.010 | 5 | 7685 | 0.005 | 5 | 7685 | 0.015 |
| 14:30 - 15:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.021 | 5 | 7685 | 0.026 |
| 15:00 - 15:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.052 | 5 | 7685 | 0.055 |
| 15:30 - 16:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.005 | 5 | 7685 | 0.021 |
| 16:00 - 16:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.042 | 5 | 7685 | 0.055 |
| 16:30 - 17:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.021 | 5 | 7685 | 0.037 |
| 17:00 - 17:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.026 | 5 | 7685 | 0.034 |
| 17:30 - 18:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.031 | 5 | 7685 | 0.031 |
| 18:00 - 18:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.021 | 5 | 7685 | 0.024 |
| 18:30 - 19:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.013 | 5 | 7685 | 0.016 |
| 19:00 - 19:30 | 3 | 6337 | 0.005 | 3 | 6337 | 0.047 | 3 | 6337 | 0.052 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.037 | 3 | 6337 | 0.037 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.017 | 2 | 5805 | 0.017 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.026 | 2 | 5805 | 0.026 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.572 | | | 0.493 | | | 1.065 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL TOTAL RAIL PASSENGERS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | | TOTALS | | |
|---------------|------|----------|-------|------|------------|-------|--------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:00 - 06:30 | 2 | 7855 | 0.013 | 2 | 7855 | 0.000 | 2 | 7855 | 0.013 |
| 06:30 - 07:00 | 2 | 7855 | 0.025 | 2 | 7855 | 0.000 | 2 | 7855 | 0.025 |
| 07:00 - 07:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.003 | 5 | 7685 | 0.016 |
| 07:30 - 08:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.003 | 5 | 7685 | 0.019 |
| 08:00 - 08:30 | 5 | 7685 | 0.018 | 5 | 7685 | 0.003 | 5 | 7685 | 0.021 |
| 08:30 - 09:00 | 5 | 7685 | 0.026 | 5 | 7685 | 0.003 | 5 | 7685 | 0.029 |
| 09:00 - 09:30 | 5 | 7685 | 0.018 | 5 | 7685 | 0.005 | 5 | 7685 | 0.023 |
| 09:30 - 10:00 | 5 | 7685 | 0.023 | 5 | 7685 | 0.003 | 5 | 7685 | 0.026 |
| 10:00 - 10:30 | 5 | 7685 | 0.016 | 5 | 7685 | 0.008 | 5 | 7685 | 0.024 |
| 10:30 - 11:00 | 5 | 7685 | 0.010 | 5 | 7685 | 0.008 | 5 | 7685 | 0.018 |
| 11:00 - 11:30 | 5 | 7685 | 0.018 | 5 | 7685 | 0.008 | 5 | 7685 | 0.026 |
| 11:30 - 12:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.005 | 5 | 7685 | 0.008 |
| 12:00 - 12:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.008 | 5 | 7685 | 0.013 |
| 12:30 - 13:00 | 5 | 7685 | 0.008 | 5 | 7685 | 0.013 | 5 | 7685 | 0.021 |
| 13:00 - 13:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.008 | 5 | 7685 | 0.013 |
| 13:30 - 14:00 | 5 | 7685 | 0.010 | 5 | 7685 | 0.008 | 5 | 7685 | 0.018 |
| 14:00 - 14:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.008 | 5 | 7685 | 0.016 |
| 14:30 - 15:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.013 | 5 | 7685 | 0.013 |
| 15:00 - 15:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.016 | 5 | 7685 | 0.019 |
| 15:30 - 16:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.008 | 5 | 7685 | 0.008 |
| 16:00 - 16:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.010 | 5 | 7685 | 0.013 |
| 16:30 - 17:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.005 | 5 | 7685 | 0.008 |
| 17:00 - 17:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.021 | 5 | 7685 | 0.024 |
| 17:30 - 18:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.039 | 5 | 7685 | 0.044 |
| 18:00 - 18:30 | 5 | /685 | 0.000 | 5 | /685 | 0.018 | 5 | /685 | 0.018 |
| 18:30 - 19:00 | 5 | /685 | 0.000 | 5 | /685 | 0.010 | 5 | /685 | 0.010 |
| 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.005 | 3 | 6337 | 0.005 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.032 | 3 | 6337 | 0.032 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.034 | 2 | 5805 | 0.034 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.017 | 2 | 5805 | 0.017 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | 0.050 | | | 0.000 | | | 0.574 |
| Total Rates: | | | 0.252 | | | 0.322 | | | 0.574 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI - MODAL COACH PASSENGERS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:00 - 06:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:30 - 07:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 07:00 - 07:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 07:30 - 08:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 08:00 - 08:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 08:30 - 09:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 09:00 - 09:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 09:30 - 10:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:00 - 10:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:30 - 11:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 11:00 - 11:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 11:30 - 12:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 12:00 - 12:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 12:30 - 13:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13:00 - 13:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13:30 - 14:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 14:00 - 14:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 14:30 - 15:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:00 - 15:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:30 - 16:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 16:00 - 16:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 16:30 - 17:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 17:00 - 17:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 17:30 - 18:00 | 5 | /685 | 0.000 | 5 | /685 | 0.000 | 5 | /685 | 0.000 |
| 18:00 - 18:30 | 5 | /685 | 0.000 | 5 | /685 | 0.000 | 5 | /685 | 0.000 |
| 18:30 - 19:00 | 5 | /685 | 0.000 | 5 | /685 | 0.000 | 5 | /685 | 0.000 |
| 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | 0.000 | | | 0.000 | | | 0.000 |
| Total Rates: | | | 0.003 | | | 0.000 | | | 0.003 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL PUBLIC TRANSPORT USERS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | , | ARRIVALS | | [| DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.025 | 2 | 7855 | 0.000 | 2 | 7855 | 0.025 |
| 06:00 - 06:30 | 2 | 7855 | 0.064 | 2 | 7855 | 0.000 | 2 | 7855 | 0.064 |
| 06:30 - 07:00 | 2 | 7855 | 0.070 | 2 | 7855 | 0.000 | 2 | 7855 | 0.070 |
| 07:00 - 07:30 | 5 | 7685 | 0.078 | 5 | 7685 | 0.008 | 5 | 7685 | 0.086 |
| 07:30 - 08:00 | 5 | 7685 | 0.047 | 5 | 7685 | 0.010 | 5 | 7685 | 0.057 |
| 08:00 - 08:30 | 5 | 7685 | 0.070 | 5 | 7685 | 0.010 | 5 | 7685 | 0.080 |
| 08:30 - 09:00 | 5 | 7685 | 0.068 | 5 | 7685 | 0.013 | 5 | 7685 | 0.081 |
| 09:00 - 09:30 | 5 | 7685 | 0.065 | 5 | 7685 | 0.016 | 5 | 7685 | 0.081 |
| 09:30 - 10:00 | 5 | 7685 | 0.055 | 5 | 7685 | 0.018 | 5 | 7685 | 0.073 |
| 10:00 - 10:30 | 5 | 7685 | 0.039 | 5 | 7685 | 0.018 | 5 | 7685 | 0.057 |
| 10:30 - 11:00 | 5 | 7685 | 0.026 | 5 | 7685 | 0.016 | 5 | 7685 | 0.042 |
| 11:00 - 11:30 | 5 | 7685 | 0.039 | 5 | 7685 | 0.013 | 5 | 7685 | 0.052 |
| 11:30 - 12:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.010 | 5 | 7685 | 0.023 |
| 12:00 - 12:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.018 | 5 | 7685 | 0.031 |
| 12:30 - 13:00 | 5 | 7685 | 0.008 | 5 | 7685 | 0.023 | 5 | 7685 | 0.031 |
| 13:00 - 13:30 | 5 | 7685 | 0.018 | 5 | 7685 | 0.023 | 5 | 7685 | 0.041 |
| 13:30 - 14:00 | 5 | 7685 | 0.023 | 5 | 7685 | 0.016 | 5 | 7685 | 0.039 |
| 14:00 - 14:30 | 5 | 7685 | 0.021 | 5 | 7685 | 0.013 | 5 | 7685 | 0.034 |
| 14:30 - 15:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.034 | 5 | 7685 | 0.039 |
| 15:00 - 15:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.068 | 5 | 7685 | 0.073 |
| 15:30 - 16:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.013 | 5 | 7685 | 0.029 |
| 16:00 - 16:30 | 5 | 7685 | 0.016 | 5 | 7685 | 0.052 | 5 | 7685 | 0.068 |
| 16:30 - 17:00 | 5 | 7685 | 0.018 | 5 | 7685 | 0.026 | 5 | 7685 | 0.044 |
| 17:00 - 17:30 | 5 | 7685 | 0.010 | 5 | 7685 | 0.047 | 5 | 7685 | 0.057 |
| 17:30 - 18:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.070 | 5 | 7685 | 0.075 |
| 18:00 - 18:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.039 | 5 | 7685 | 0.042 |
| 18:30 - 19:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.023 | 5 | 7685 | 0.026 |
| 19:00 - 19:30 | 3 | 6337 | 0.005 | 3 | 6337 | 0.053 | 3 | 6337 | 0.058 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.068 | 3 | 6337 | 0.068 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.052 | 2 | 5805 | 0.052 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.043 | 2 | 5805 | 0.043 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.828 | | | 0.813 | | | 1.641 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

73-81 Southwark Bridge Road Markides Associates Ltd London

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL TOTAL PEOPLE Calculation factor: 100 sqm BOLD print indicates peak (busiest) period Total People to Total Vehicles ratio (all time periods and directions): 1.37

| | | ARRIVALS | | [| DEPARTURES | 5 | | TOTALS | |
|---------------|------|----------|--------|------|------------|--------|------|--------|--------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.045 | 2 | 7855 | 0.000 | 2 | 7855 | 0.045 |
| 05:30 - 06:00 | 2 | 7855 | 0.146 | 2 | 7855 | 0.013 | 2 | 7855 | 0.159 |
| 06:00 - 06:30 | 2 | 7855 | 0.312 | 2 | 7855 | 0.051 | 2 | 7855 | 0.363 |
| 06:30 - 07:00 | 2 | 7855 | 0.439 | 2 | 7855 | 0.121 | 2 | 7855 | 0.560 |
| 07:00 - 07:30 | 5 | 7685 | 0.547 | 5 | 7685 | 0.250 | 5 | 7685 | 0.797 |
| 07:30 - 08:00 | 5 | 7685 | 0.520 | 5 | 7685 | 0.427 | 5 | 7685 | 0.947 |
| 08:00 - 08:30 | 5 | 7685 | 0.619 | 5 | 7685 | 0.364 | 5 | 7685 | 0.983 |
| 08:30 - 09:00 | 5 | 7685 | 0.669 | 5 | 7685 | 0.437 | 5 | 7685 | 1.106 |
| 09:00 - 09:30 | 5 | 7685 | 0.625 | 5 | 7685 | 0.411 | 5 | 7685 | 1.036 |
| 09:30 - 10:00 | 5 | 7685 | 0.614 | 5 | 7685 | 0.463 | 5 | 7685 | 1.077 |
| 10:00 - 10:30 | 5 | 7685 | 0.541 | 5 | 7685 | 0.554 | 5 | 7685 | 1.095 |
| 10:30 - 11:00 | 5 | 7685 | 0.632 | 5 | 7685 | 0.531 | 5 | 7685 | 1,163 |
| 11:00 - 11:30 | 5 | 7685 | 0.591 | 5 | 7685 | 0.619 | 5 | 7685 | 1,210 |
| 11:30 - 12:00 | 5 | 7685 | 0.510 | 5 | 7685 | 0.567 | 5 | 7685 | 1.077 |
| 12:00 - 12:30 | 5 | 7685 | 0.541 | 5 | 7685 | 0 544 | 5 | 7685 | 1 085 |
| 12:30 - 13:00 | 5 | 7685 | 0 445 | 5 | 7685 | 0.520 | 5 | 7685 | 0.965 |
| 13:00 - 13:30 | 5 | 7685 | 0.544 | 5 | 7685 | 0.580 | 5 | 7685 | 1 124 |
| 13:30 - 14:00 | 5 | 7685 | 0 474 | 5 | 7685 | 0.359 | 5 | 7685 | 0.833 |
| 14:00 - 14:30 | 5 | 7685 | 0 437 | 5 | 7685 | 0.667 | 5 | 7685 | 0.900 |
| 14:30 - 15:00 | 5 | 7685 | 0 424 | 5 | 7685 | 0.500 | 5 | 7685 | 0.924 |
| 15:00 - 15:30 | 5 | 7685 | 0.414 | 5 | 7685 | 0.560 | 5 | 7685 | 0.974 |
| 15:30 - 16:00 | 5 | 7685 | 0 403 | 5 | 7685 | 0.445 | 5 | 7685 | 0.848 |
| 16:00 - 16:30 | 5 | 7685 | 0.393 | 5 | 7685 | 0.487 | 5 | 7685 | 0.880 |
| 16:30 - 17:00 | 5 | 7685 | 0.299 | 5 | 7685 | 0.429 | 5 | 7685 | 0.728 |
| 17:00 - 17:30 | 5 | 7685 | 0.237 | 5 | 7685 | 0.429 | 5 | 7685 | 0.666 |
| 17:30 - 18:00 | 5 | 7685 | 0.180 | 5 | 7685 | 0.424 | 5 | 7685 | 0.604 |
| 18:00 - 18:30 | 5 | 7685 | 0.221 | 5 | 7685 | 0.362 | 5 | 7685 | 0.583 |
| 18:30 - 19:00 | 5 | 7685 | 0.221 | 5 | 7685 | 0.302 | 5 | 7685 | 0.303 |
| 19:00 - 19:30 | 3 | 6337 | 0.132 | 3 | 6337 | 0.232 | 3 | 6337 | 0.379 |
| 19:30 - 20:00 | 3 | 6337 | 0.053 | 3 | 6337 | 0.258 | 3 | 6337 | 0.311 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.230 | 2 | 5805 | 0.311 |
| 20:30 - 21:00 | 2 | 5805 | 0.007 | 2 | 5805 | 0.121 | 2 | 5805 | 0.100 |
| 20:00 - 21:00 | ۲ | 3003 | 0.000 | ۲ | 5005 | 0.103 | 2 | 5005 | 0.105 |
| 21.30 - 22.00 | | | | | | | | | |
| 22.00 - 22.00 | | | | | | | | | |
| 22.30 - 22.30 | | | | | | | | | |
| 23.00 - 23.00 | | | | | | | | | |
| 23.30 - 23.30 | | | | | | | | | |
| Total Rates | | | 12 185 | | | 11 871 | | | 24 056 |
| Total Nates. | | | 12.103 | | | 11.071 | | | 24.000 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

To obtain a trip rate, the average (mean) trip rate parameter value (TRP) is first calculated for all selected survey days that have count data available for the stated time period. The average (mean) number of arrivals, departures or totals (whichever applies) is also calculated (COUNT) for all selected survey days that have count data available for the stated time period. Then, the average count is divided by the average trip rate parameter value, and multiplied by the stated calculation factor (shown just above the table and abbreviated here as FACT). So, the method is: COUNT/TRP*FACT. Trip rates are then rounded to 3 decimal places.

Licence No: 860401

Monday 28/11/22 Page 18 Licence No: 860401

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI - MODAL CARS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | | | TOTALS | |
|---------------|------|----------|-------|------|------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.019 | 2 | 7855 | 0.000 | 2 | 7855 | 0.019 |
| 05:30 - 06:00 | 2 | 7855 | 0.045 | 2 | 7855 | 0.006 | 2 | 7855 | 0.051 |
| 06:00 - 06:30 | 2 | 7855 | 0.102 | 2 | 7855 | 0.032 | 2 | 7855 | 0.134 |
| 06:30 - 07:00 | 2 | 7855 | 0.115 | 2 | 7855 | 0.045 | 2 | 7855 | 0.160 |
| 07:00 - 07:30 | 5 | 7685 | 0.151 | 5 | 7685 | 0.047 | 5 | 7685 | 0.198 |
| 07:30 - 08:00 | 5 | 7685 | 0.167 | 5 | 7685 | 0.070 | 5 | 7685 | 0.237 |
| 08:00 - 08:30 | 5 | 7685 | 0.219 | 5 | 7685 | 0.081 | 5 | 7685 | 0.300 |
| 08:30 - 09:00 | 5 | 7685 | 0.242 | 5 | 7685 | 0.109 | 5 | 7685 | 0.351 |
| 09:00 - 09:30 | 5 | 7685 | 0.310 | 5 | 7685 | 0.143 | 5 | 7685 | 0.453 |
| 09:30 - 10:00 | 5 | 7685 | 0.239 | 5 | 7685 | 0.221 | 5 | 7685 | 0.460 |
| 10:00 - 10:30 | 5 | 7685 | 0.216 | 5 | 7685 | 0.190 | 5 | 7685 | 0.406 |
| 10:30 - 11:00 | 5 | 7685 | 0.239 | 5 | 7685 | 0.190 | 5 | 7685 | 0.429 |
| 11:00 - 11:30 | 5 | 7685 | 0.247 | 5 | 7685 | 0.239 | 5 | 7685 | 0.486 |
| 11:30 - 12:00 | 5 | 7685 | 0.167 | 5 | 7685 | 0.195 | 5 | 7685 | 0.362 |
| 12:00 - 12:30 | 5 | 7685 | 0.216 | 5 | 7685 | 0.252 | 5 | 7685 | 0.468 |
| 12:30 - 13:00 | 5 | 7685 | 0.182 | 5 | 7685 | 0.161 | 5 | 7685 | 0.343 |
| 13:00 - 13:30 | 5 | 7685 | 0.198 | 5 | 7685 | 0.245 | 5 | 7685 | 0.443 |
| 13:30 - 14:00 | 5 | 7685 | 0.154 | 5 | 7685 | 0.135 | 5 | 7685 | 0.289 |
| 14:00 - 14:30 | 5 | 7685 | 0.161 | 5 | 7685 | 0.169 | 5 | 7685 | 0.330 |
| 14:30 - 15:00 | 5 | 7685 | 0.161 | 5 | 7685 | 0.216 | 5 | 7685 | 0.377 |
| 15:00 - 15:30 | 5 | 7685 | 0.172 | 5 | 7685 | 0.211 | 5 | 7685 | 0.383 |
| 15:30 - 16:00 | 5 | 7685 | 0.141 | 5 | 7685 | 0.185 | 5 | 7685 | 0.326 |
| 16:00 - 16:30 | 5 | 7685 | 0.156 | 5 | 7685 | 0.193 | 5 | 7685 | 0.349 |
| 16:30 - 17:00 | 5 | 7685 | 0.115 | 5 | 7685 | 0.187 | 5 | 7685 | 0.302 |
| 17:00 - 17:30 | 5 | 7685 | 0.115 | 5 | 7685 | 0.182 | 5 | 7685 | 0.297 |
| 17:30 - 18:00 | 5 | 7685 | 0.070 | 5 | 7685 | 0.208 | 5 | 7685 | 0.278 |
| 18:00 - 18:30 | 5 | 7685 | 0.104 | 5 | 7685 | 0.141 | 5 | 7685 | 0.245 |
| 18:30 - 19:00 | 5 | 7685 | 0.073 | 5 | 7685 | 0.096 | 5 | 7685 | 0.169 |
| 19:00 - 19:30 | 3 | 6337 | 0.079 | 3 | 6337 | 0.084 | 3 | 6337 | 0.163 |
| 19:30 - 20:00 | 3 | 6337 | 0.032 | 3 | 6337 | 0.074 | 3 | 6337 | 0.106 |
| 20:00 - 20:30 | 2 | 5805 | 0.009 | 2 | 5805 | 0.034 | 2 | 5805 | 0.043 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.026 | 2 | 5805 | 0.026 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 4.616 | | | 4.367 | | | 8.983 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

Licence No

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI - MODAL LGVS Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | [| DEPARTURES | | TOTALS | | |
|---------------|------|----------|-------|------|------------|-------|--------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.013 | 2 | 7855 | 0.000 | 2 | 7855 | 0.013 |
| 06:00 - 06:30 | 2 | 7855 | 0.064 | 2 | 7855 | 0.013 | 2 | 7855 | 0.077 |
| 06:30 - 07:00 | 2 | 7855 | 0.089 | 2 | 7855 | 0.051 | 2 | 7855 | 0.140 |
| 07:00 - 07:30 | 5 | 7685 | 0.151 | 5 | 7685 | 0.112 | 5 | 7685 | 0.263 |
| 07:30 - 08:00 | 5 | 7685 | 0.146 | 5 | 7685 | 0.177 | 5 | 7685 | 0.323 |
| 08:00 - 08:30 | 5 | 7685 | 0.187 | 5 | 7685 | 0.169 | 5 | 7685 | 0.356 |
| 08:30 - 09:00 | 5 | 7685 | 0.167 | 5 | 7685 | 0.174 | 5 | 7685 | 0.341 |
| 09:00 - 09:30 | 5 | 7685 | 0.135 | 5 | 7685 | 0.143 | 5 | 7685 | 0.278 |
| 09:30 - 10:00 | 5 | 7685 | 0.164 | 5 | 7685 | 0.133 | 5 | 7685 | 0.297 |
| 10:00 - 10:30 | 5 | 7685 | 0.185 | 5 | 7685 | 0.219 | 5 | 7685 | 0.404 |
| 10:30 - 11:00 | 5 | 7685 | 0.224 | 5 | 7685 | 0.180 | 5 | 7685 | 0.404 |
| 11:00 - 11:30 | 5 | 7685 | 0.195 | 5 | 7685 | 0.234 | 5 | 7685 | 0.429 |
| 11:30 - 12:00 | 5 | 7685 | 0.200 | 5 | 7685 | 0.234 | 5 | 7685 | 0.434 |
| 12:00 - 12:30 | 5 | 7685 | 0.203 | 5 | 7685 | 0.164 | 5 | 7685 | 0.367 |
| 12:30 - 13:00 | 5 | 7685 | 0.159 | 5 | 7685 | 0.211 | 5 | 7685 | 0.370 |
| 13:00 - 13:30 | 5 | 7685 | 0.151 | 5 | 7685 | 0.174 | 5 | 7685 | 0.325 |
| 13:30 - 14:00 | 5 | 7685 | 0.156 | 5 | 7685 | 0.096 | 5 | 7685 | 0.252 |
| 14:00 - 14:30 | 5 | 7685 | 0.148 | 5 | 7685 | 0.182 | 5 | 7685 | 0.330 |
| 14:30 - 15:00 | 5 | 7685 | 0.141 | 5 | 7685 | 0.146 | 5 | 7685 | 0.287 |
| 15:00 - 15:30 | 5 | 7685 | 0.128 | 5 | 7685 | 0.146 | 5 | 7685 | 0.274 |
| 15:30 - 16:00 | 5 | 7685 | 0.128 | 5 | 7685 | 0.130 | 5 | 7685 | 0.258 |
| 16:00 - 16:30 | 5 | 7685 | 0.099 | 5 | 7685 | 0.083 | 5 | 7685 | 0.182 |
| 16:30 - 17:00 | 5 | 7685 | 0.075 | 5 | 7685 | 0.094 | 5 | 7685 | 0.169 |
| 17:00 - 17:30 | 5 | 7685 | 0.047 | 5 | 7685 | 0.078 | 5 | 7685 | 0.125 |
| 17:30 - 18:00 | 5 | 7685 | 0.055 | 5 | 7685 | 0.060 | 5 | 7685 | 0.115 |
| 18:00 - 18:30 | 5 | 7685 | 0.047 | 5 | 7685 | 0.070 | 5 | 7685 | 0.117 |
| 18:30 - 19:00 | 5 | 7685 | 0.052 | 5 | 7685 | 0.049 | 5 | 7685 | 0.101 |
| 19:00 - 19:30 | 3 | 6337 | 0.021 | 3 | 6337 | 0.016 | 3 | 6337 | 0.037 |
| 19:30 - 20:00 | 3 | 6337 | 0.005 | 3 | 6337 | 0.021 | 3 | 6337 | 0.026 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.009 | 2 | 5805 | 0.009 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.009 | 2 | 5805 | 0.009 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 3.535 | | | 3.577 | | | 7.112 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI - MODAL MOTOR CYCLES Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | D | <u>EPARTURES</u> | | | TOTALS | |
|---------------|------|----------|-------|------|------------------|-------|------|--------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:00 - 06:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:30 - 07:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 07:00 - 07:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 07:30 - 08:00 | 5 | 7685 | 0.010 | 5 | 7685 | 0.003 | 5 | 7685 | 0.013 |
| 08:00 - 08:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 08:30 - 09:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.003 | 5 | 7685 | 0.008 |
| 09:00 - 09:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 09:30 - 10:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:00 - 10:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 10:30 - 11:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 11:00 - 11:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 |
| 11:30 - 12:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 12:00 - 12:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 |
| 12:30 - 13:00 | 5 | 7685 | 0,000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 13:00 - 13:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 13:30 - 14:00 | 5 | 7685 | 0.005 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 |
| 14.00 - 14.30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 |
| 14:30 - 15:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:00 - 15:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 15:30 - 16:00 | 5 | 7685 | 0.010 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 |
| 16:00 - 16:30 | 5 | 7685 | 0.010 | 5 | 7685 | 0.003 | 5 | 7685 | 0.013 |
| 16:30 - 17:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.008 | 5 | 7685 | 0.000 |
| 17:00 - 17:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 17:30 - 18:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 18:30 - 19:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:00 - 10:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 21.00 - 21.00 | Z | 3003 | 0.000 | ۷ | 3003 | 0.000 | 2 | 5005 | 0.000 |
| 21.30 21.30 | | | | | | | | | |
| 22.00 - 22.00 | | | | | | | | | |
| 22.00 - 22.30 | | | | | | | | | |
| 22.30-23.00 | | | | | | | | | |
| 23.00 - 23.30 | | | | | | | | | |
| Total Patos: | | | 0.051 | | | 0.056 | | | 0 107 |
| TOTAL RALES. | | | 0.051 | | | 0.050 | | | 0.107 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL Underground Passengers Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | DEPARTURES | | | TOTALS | | |
|---------------|------|----------|-------|------------|------|-------|--------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:00 - 06:30 | 2 | 7855 | 0.013 | 2 | 7855 | 0.000 | 2 | 7855 | 0.013 |
| 06:30 - 07:00 | 2 | 7855 | 0.025 | 2 | 7855 | 0.000 | 2 | 7855 | 0.025 |
| 07:00 - 07:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.003 | 5 | 7685 | 0.011 |
| 07:30 - 08:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.000 | 5 | 7685 | 0.016 |
| 08:00 - 08:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.003 | 5 | 7685 | 0.016 |
| 08:30 - 09:00 | 5 | 7685 | 0.026 | 5 | 7685 | 0.000 | 5 | 7685 | 0.026 |
| 09:00 - 09:30 | 5 | 7685 | 0.016 | 5 | 7685 | 0.000 | 5 | 7685 | 0.016 |
| 09:30 - 10:00 | 5 | 7685 | 0.021 | 5 | 7685 | 0.003 | 5 | 7685 | 0.024 |
| 10:00 - 10:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.005 | 5 | 7685 | 0.018 |
| 10:30 - 11:00 | 5 | 7685 | 0.008 | 5 | 7685 | 0.008 | 5 | 7685 | 0.016 |
| 11:00 - 11:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.005 | 5 | 7685 | 0.018 |
| 11:30 - 12:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 |
| 12:00 - 12:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 12:30 - 13:00 | 5 | 7685 | 0.008 | 5 | 7685 | 0.000 | 5 | 7685 | 0.021 |
| 13:00 - 13:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.013 | 5 | 7685 | 0.021 |
| 13:30 - 14:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 |
| 14:00 - 14:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.005 | 5 | 7685 | 0.013 |
| 14:30 - 15:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.013 |
| 15:00 - 15:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.010 | 5 | 7685 | 0.010 |
| 15:30 - 16:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.008 | 5 | 7685 | 0.008 |
| 16:00 - 16:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.008 | 5 | 7685 | 0.000 |
| 16:30 - 17:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 17:00 - 17:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.019 |
| 17:30 - 18:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.010 | 5 | 7685 | 0.017 |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.007 | 5 | 7685 | 0.042 |
| 18:30 - 19:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.008 | 5 | 7685 | 0.010 |
| 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.005 | 3 | 6337 | 0.005 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.005 | 3 | 6337 | 0.005 |
| 20:00 20:30 | 3 | 5805 | 0.000 | 3 | 5805 | 0.010 | | 5805 | 0.010 |
| 20:30 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.034 | 2 | 5805 | 0.034 |
| 21.00 - 21.00 | 2 | 3003 | 0.000 | ۷ | 3003 | 0.017 | 2 | 5005 | 0.017 |
| 21.00-21.00 | | | | | | | | | |
| 27.30 - 22.00 | | | | | | | | | |
| 22.00 - 22.30 | | | | | | | | | |
| 22.30 - 23.00 | | | | | | | | | |
| 23.00 - 23.30 | | | | | | | | | |
| Total Patos: | | | 0.219 | | | 0.247 | | | 0.465 |
| iotal Nates. | | | 0.210 | | | 0.247 | | | 0.405 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL Overground Passengers Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | ARRIVALS | | DEPARTURES | | | TOTALS | | | |
|--------------------------------|----------|------|------------|------|------|--------|----------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | - | | | - | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:00 - 06:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:30 - 07:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 07:00 - 07:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 07:30 - 08:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 08:00 - 08:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 08:30 - 09:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 09:00 - 09:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 09:30 - 10:00 | 5 | 7685 | 0,000 | 5 | 7685 | 0.000 | 5 | 7685 | 0,000 |
| 10.00 - 10.30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10.30 - 11.00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 11:00 - 11:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 11:30 - 12:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 12:00 - 12:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 12:30 - 13:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13.00 - 13.30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13.30 - 14.00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 14:00 - 14:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 14.00 - 14.00 14.30 - 15.00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15.00 - 15.00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:30 - 16:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 16:00 - 16:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 16:30 - 17:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 17:00 - 17:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 17:30 - 18:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 18:30 - 19:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:00 10:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 19:30 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 20:00 20:20 | 3 | 5905 | 0.000 | | 5905 | 0.000 | <u>ງ</u> | 5905 | 0.000 |
| 20.00 - 20.30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 20.30 - 21.00 | 2 | 5605 | 0.000 | 2 | 5605 | 0.000 | 2 | 5605 | 0.000 |
| 21.00 - 21.30 | | | | | | | | | |
| 21.30 - 22.00 | | | | | | | | | |
| 22.00 - 22.30 | | | | | | | | | |
| 22.30 - 23.00 | | | | | | | | | |
| 23.00 - 23.30 | | | | | | | | | |
| Z3.30 - Z4.00 | | | 0.000 | | | 0.000 | | | 0.00/ |
| Total Rates: | | | 0.003 | | | 0.003 | | | 0.006 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL National Rail Passengers Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | DEPARTURES | | | TOTALS | | |
|---------------|------|----------|-------|------------|------|-------|--------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:00 - 06:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:30 - 07:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 07:00 - 07:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 |
| 07:30 - 08:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 08:00 - 08:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 |
| 08:30 - 09:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 09:00 - 09:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.005 | 5 | 7685 | 0.008 |
| 09:30 - 10:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 10:00 - 10:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 |
| 10:30 - 11:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 11:00 - 11:30 | 5 | 7685 | 0.005 | 5 | 7685 | 0.003 | 5 | 7685 | 0.008 |
| 11:30 - 12:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 12:00 - 12:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.008 | 5 | 7685 | 0.011 |
| 12:30 - 13:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13:00 - 13:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 |
| 13:30 - 14:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 |
| 14:00 - 14:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 14:30 - 15:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:00 - 15:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.005 | 5 | 7685 | 0.008 |
| 15:30 - 16:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 16:00 - 16:30 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 | 5 | 7685 | 0.006 |
| 16:30 - 17:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 17:00 - 17:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.005 | 5 | 7685 | 0.005 |
| 17:30 - 18:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 18:30 - 19:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 | 5 | 7685 | 0.003 |
| 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.016 | 3 | 6337 | 0.016 |
| 20:00 - 20:30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 21:00 - 21:30 | | | | | | | | | |
| 21:30 - 22:00 | | | | | | | | | |
| 22:00 - 22:30 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23:00 - 23:30 | | | | | | | | | |
| 23:30 - 24:00 | | | | | | | | | |
| Total Rates: | | | 0.036 | | | 0.076 | | | 0.112 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL Bus Passengers Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | DEPARTURES | | | TOTALS | | |
|---------------|---------|----------|-------|------------|------|-------|----------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.025 | 2 | 7855 | 0.000 | 2 | 7855 | 0.025 |
| 06:00 - 06:30 | 2 | 7855 | 0.051 | 2 | 7855 | 0.000 | 2 | 7855 | 0.051 |
| 06:30 - 07:00 | 2 | 7855 | 0.045 | 2 | 7855 | 0.000 | 2 | 7855 | 0.045 |
| 07:00 - 07:30 | 5 | 7685 | 0.065 | 5 | 7685 | 0.005 | 5 | 7685 | 0.070 |
| 07:30 - 08:00 | 5 | 7685 | 0.031 | 5 | 7685 | 0.008 | 5 | 7685 | 0.039 |
| 08:00 - 08:30 | 5 | 7685 | 0.052 | 5 | 7685 | 0.008 | 5 | 7685 | 0.060 |
| 08:30 - 09:00 | 5 | 7685 | 0.042 | 5 | 7685 | 0.010 | 5 | 7685 | 0.052 |
| 09:00 - 09:30 | 5 | 7685 | 0.047 | 5 | 7685 | 0.010 | 5 | 7685 | 0.057 |
| 09:30 - 10:00 | 5 | 7685 | 0.031 | 5 | 7685 | 0.016 | 5 | 7685 | 0.047 |
| 10:00 - 10:30 | 5 | 7685 | 0.023 | 5 | 7685 | 0.010 | 5 | 7685 | 0.033 |
| 10:30 - 11:00 | 5 | 7685 | 0.013 | 5 | 7685 | 0.008 | 5 | 7685 | 0.021 |
| 11:00 - 11:30 | 5 | 7685 | 0.021 | 5 | 7685 | 0.005 | 5 | 7685 | 0.026 |
| 11:30 - 12:00 | 5 | 7685 | 0.010 | 5 | 7685 | 0.005 | 5 | 7685 | 0.015 |
| 12:00 - 12:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.010 | 5 | 7685 | 0.018 |
| 12:30 - 13:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.010 | 5 | 7685 | 0.010 |
| 13:00 - 13:30 | 5 | /685 | 0.013 | 5 | /685 | 0.016 | 5 | /685 | 0.029 |
| 13:30 - 14:00 | 5 | /685 | 0.013 | 5 | /685 | 0.008 | 5 | /685 | 0.021 |
| 14:00 - 14:30 | 5 | 7685 | 0.010 | 5 | /685 | 0.005 | 5 | 7685 | 0.015 |
| 14:30 - 15:00 | 5 | 7685 | 0.005 | 5 | /685 | 0.021 | 5 | 7685 | 0.026 |
| 15:00 - 15:30 | 5 | 7685 | 0.003 | 5 | /685 | 0.052 | 5 | 7685 | 0.055 |
| 15:30 - 16:00 | 5 | 7685 | 0.016 | 5 | 7685 | 0.005 | 5 | 7685 | 0.021 |
| 16:00 - 16:30 | 5 | 7685 | 0.013 | 5 | 7685 | 0.042 | 5 | 7685 | 0.055 |
| 10:30 - 17:00 | 5 | 7085 | 0.016 | Э Г | 7085 | 0.021 | Э Г | 7085 | 0.037 |
| 17:00 - 17:30 | 5 | 7685 | 0.008 | 5 | 7685 | 0.026 | 5 | 7685 | 0.034 |
| 17:30 - 18:00 |) 5 | 7685 | 0.000 | | 7685 | 0.031 | | 7685 | 0.031 |
| 10.00 - 10.30 | 5 F | 7000 | 0.003 | | 7000 | 0.021 | | 7000 | 0.024 |
| 10.30 - 19.00 | 3 | 6227 | 0.003 | 2 | 6227 | 0.013 | 2 | 6227 | 0.010 |
| 19.00 - 19.30 | 2 | 6227 | 0.000 | <u> </u> | 6227 | 0.047 | <u> </u> | 6227 | 0.032 |
| 20.00 20.20 | ິງ ງ | 5905 | 0.000 | <u> </u> | 5905 | 0.037 | <u> </u> | 5905 | 0.037 |
| 20.00 - 20.30 | 2 | 5805 | 0.000 | 2 | 5805 | 0.017 | 2 | 5805 | 0.017 |
| 21.00 - 21.00 | 2 | 5605 | 0.000 | Z | 5605 | 0.020 | ۷ | 5605 | 0.020 |
| 21.30 22.30 | | | | | | | | | |
| 21.30 - 22.00 | | | | | | | | | |
| 22.00 - 22.00 | | | | | | | | | |
| 22.30 - 23.00 | | | | | | | | | |
| 23.30 - 24.00 | | | | | | | | | |
| Total Rates: | | | 0 572 | | | 0 493 | | | 1 065 |
| · otar natos. | | | 0.072 | | | 0.170 | | | 1.000 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.

TRIP RATE for Land Use 02 - EMPLOYMENT/D - INDUSTRIAL ESTATE MULTI-MODAL Water Service Passengers Calculation factor: 100 sqm BOLD print indicates peak (busiest) period

| | | ARRIVALS | | DEPARTURES | | | TOTALS | | |
|---------------|------|----------|-------|------------|------|-------|--------|------|-------|
| | No. | Ave. | Trip | No. | Ave. | Trip | No. | Ave. | Trip |
| Time Range | Days | GFA | Rate | Days | GFA | Rate | Days | GFA | Rate |
| 00:00 - 00:30 | | | | | | | | | |
| 00:30 - 01:00 | | | | | | | | | |
| 01:00 - 01:30 | | | | | | | | | |
| 01:30 - 02:00 | | | | | | | | | |
| 02:00 - 02:30 | | | | | | | | | |
| 02:30 - 03:00 | | | | | | | | | |
| 03:00 - 03:30 | | | | | | | | | |
| 03:30 - 04:00 | | | | | | | | | |
| 04:00 - 04:30 | | | | | | | | | |
| 04:30 - 05:00 | | | | | | | | | |
| 05:00 - 05:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 05:30 - 06:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:00 - 06:30 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 06:30 - 07:00 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 | 2 | 7855 | 0.000 |
| 07:00 - 07:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 07:30 - 08:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 08:00 - 08:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 08:30 - 09:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 09:00 - 09:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 09:30 - 10:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:00 - 10:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 10:30 - 11:00 | 5 | 7685 | 0.003 | 5 | 7685 | 0.000 | 5 | 7685 | 0.003 |
| 11:00 - 11:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 11:30 - 12:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 12:00 - 12:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 12:30 - 13:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13:00 - 13:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 13:30 - 14:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 14.00 - 14.30 | 5 | 7685 | 0.000 | 5 | 7685 | 0,000 | 5 | 7685 | 0,000 |
| 14:30 - 15:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:00 - 15:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 15:30 - 16:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0,000 | 5 | 7685 | 0,000 |
| 16:00 - 16:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 16:30 - 17:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 17:00 - 17:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0,000 | 5 | 7685 | 0,000 |
| 17:30 - 18:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 18:00 - 18:30 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 | 5 | 7685 | 0.000 |
| 18:30 - 19:00 | 5 | 7685 | 0.000 | 5 | 7685 | 0,000 | 5 | 7685 | 0,000 |
| 19:00 - 19:30 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 19:30 - 20:00 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 | 3 | 6337 | 0.000 |
| 20:00 - 20:30 | 2 | 5805 | 0,000 | 2 | 5805 | 0.000 | 2 | 5805 | 0 000 |
| 20:30 - 21:00 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 | 2 | 5805 | 0.000 |
| 21:00 - 21:30 | 2 | | 0.000 | 2 | | 0.000 | ~ | | 0.000 |
| 21:30 - 22:00 | | | | | | | | | |
| 22.00 - 22.00 | | | | | | | | | |
| 22:30 - 23:00 | | | | | | | | | |
| 23.00 - 23.30 | | | | | | | | | |
| 23.30 - 24.00 | | | | | | | | | |
| Total Rates: | | | 0.003 | | | 0.000 | | | 0.003 |
| . star natos. | | | 0.000 | | | 0.000 | | | 5.005 |

This section displays the trip rate results based on the selected set of surveys and the selected count type (shown just above the table). It is split by three main columns, representing arrivals trips, departures trips, and total trips (arrivals plus departures). Within each of these main columns are three sub-columns. These display the number of survey days where count data is included (per time period), the average value of the selected trip rate calculation parameter (per time period), and the trip rate result (per time period). Total trip rates (the sum of the column) are also displayed at the foot of the table.