

Rampion 2 Wind Farm Category 6:

Environmental Statement

Volume 4, Appendix 23.2: Traffic

Generation Technical Note

assessment (Clean)

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(TCC) Sections and accesses from public highways

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Executive Summary

This Traffic Generation Technical Note summarises the methodology used to calculate the traffic generation of the Proposed Development. It includes a summary of the inputs relating to the construction methodology and programme, as well as around routeing of vehicles. This should be read in conjunction with Chapter 23: Transport, Volume 2 of the Environmental Statement (ES) [APP-064] and Chapter 32:ES Addendum of the ES (Document Reference 6.2.23).



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1. Introduction

1.1 Overview

- This Traffic Generation Technical Note (TGTN) outlines the traffic data generation process for the Rampion 2 (the 'Proposed Development') covering the onshore elements of the Proposed Development including the landfall, onshore cable corridor, temporary construction compounds (TCCs), the onshore substation at Oakendene and the existing National Grid substation extension at Bolney.
- This TGTN covers the construction, operation and maintenance and decommissioning phases of the Proposed Development.
- The impacts of traffic are covered separately, in **Chapter 23: Transport, Volume 2** of the Environmental Statement (ES) **[APP-064]** and in **Chapter 32: ES Addendum** of the ES (Document Reference: 6.2.32), while measures to mitigate the impacts of construction traffic, construction workforce, operational traffic generation, abnormal loads and on public rights of way are covered respectively in the:
 - Outline Operational Travel Plan (OTP) (Document Reference: 7.5);
 - Outline Construction Traffic Management Plan (CTMP) (Document Reference: 7.6);
 - Outline Construction Workforce Travel Plan (CWTP) (Document Reference: 7.7);
 - Outline Public Rights of Way Management Plan (PRoWMP) (Document Reference: 7.8); and
 - Appendix 23.1: Abnormal Indivisible Loads Assessment of Chapter 23: Transport, Volume 2 of the ES [APP-064].

1.2 Context

- 1.1.4 This TGTN is an update to the version that was submitted at Deadline 3 [REP3-021].
- 1.1.5 The following sections have been updated:
 - Section 3 Existing Transport Network:
 - Baseline Traffic flows updated for Kent Street to reflect traffic survey data contained in the Enso Energy Kent Street Battery Energy Storage System Construction Traffic Management Plan (CTMP) (Planning Application Ref: DC/24/0054).
 - Section 4 Proposed Development:
 - Updates to ensure consistency between DCO application documents on anticipated construction programme.



- Section 5 Key Construction Traffic Assumptions:
 - Updates to text on construction programme to ensure consistency between DCO application documents.
- Section 6 Construction traffic generation:
 - ► **Table 6-8** updated to provide corrections to peak week total construction traffic flows at each access junction.
 - ► **Table 6-9** updated to provide corrections to peak week traffic flows on Michelgrove Lane and Kent Street.
 - ▶ Provision of further details of peak periods of construction traffic flows at each access provided in **Annex C**.

Structure of this Appendix:

- 1.1.6 The remainder of this Appendix is structured as follows:
 - Section 2: Relevant legislation, policy and other information and guidance;
 - Section 3: Existing transport network;
 - Section 4: Proposed Development;
 - Section 5: Key Construction traffic Assumptions;
 - Section 6: Construction traffic generation;
 - Section 7: Operation and Maintenance traffic generation;
 - Section 8: Decommissioning traffic generation;
 - Section 9: Glossary of terms and abbreviations; and
 - Section 10: References.



Relevant legislation, policy and other information and guidance

2.1 Introduction

2.1.1 This assessment has been undertaken in accordance with relevant transport related planning policy, legislation and guidance at the national, regional and local level.

2.2 National planning policy

Table 2-1 lists the national planning policy relevant to this TGTN.

Table 2-1 National planning policy relevant to transport

Policy description

How and where considered in this document

The Overarching National Policy Statement for Energy (EN-1) (DECC, 2011)

Paragraph 5.13.1 states "The transport of materials, goods and personnel to and from a development during all project phases can have a variety of impacts on the surrounding transport infrastructure and potentially on connecting transport networks, for example through increased congestion. Impacts may include economic, social and environmental effects. Environmental impacts may result particularly from increases in noise and emissions from road transport. Disturbance caused by traffic and abnormal loads generated during the construction phase will depend on the scale and type of the proposal."

The transport Study Area (shown in Figure **7.6.3** of the **CTMP** (Document Reference: 7.6) has been established through discussions with the relevant Highway Authorities. The Outline Construction **Traffic Management Plan (CTMP)** (Document Reference: 7.6), Outline Public **Rights of Way Management Plan** (PROWMP) (Document Reference: 7.8), and Appendix 23.1: Abnormal Indivisible Loads assessment, Volume 4 of the ES (Document Reference: 6.4.23.1) are also submitted as part of the DCO Application. These documents deal with other impacts and measures of the Proposed Development with respect to transport.

Paragraph 5.13.2 states "The consideration and mitigation of transport impacts is an essential part of Government's wider policy objectives for sustainable development as set out in Section 2.2 of this NPS"

Section 23.9 to 23.11 of Chapter 23: Transport, Volume 2 of the ES [APP-064] identifies possible transport impacts and ways to mitigate them. The environmental measures to mitigate these impacts are embedded into the design.



Paragraph 5.13.3 states "If a project is likely to have significant transport implications, the applicant's ES (see Section 4.2) should include a transport assessment, using the NATA/WebTAG methodology stipulated in Department for Transport guidance, or any successor to such methodology. Applicants should consult the Highways Agency and Highways Authorities as appropriate on the assessment and mitigation"

Paragraph 5.13.4 states "Where appropriate, the applicant should prepare a travel plan including demand management measures to mitigate transport impacts. The applicate should also provide details of proposed measures to improve access by public transport, walking and cycling, to reduce the need for parking associate with the proposal and to mitigate transport impacts."

Paragraph 5.13.5 states "If additional transport infrastructure is proposed, applicants should discuss with network providers the possibility of co-funding by Government for any third-party benefits. Guidance has been issued in England which explains the circumstances where this may be possible, although the Government cannot guarantee in advance that funding will be available for any given uncommitted scheme at any specified time"

Paragraph 5.13.11 states "The IPC [Planning Inspectorate] may attach

How and where considered in this document

This TGTN has been prepared and submitted with the DCO Application in accordance with guidance and best practice and its scope has been discussed with the relevant Highway Authorities including National Highways.

Chapter 23: Transport, Volume 2 of the ES [APP-064] identifies the highway links which may be subject to possible significant transport effects and any environmental measures to mitigate these transport effects.

Where appropriate, it is expected that construction worker movements by sustainable means will be facilitated and encouraged. However, it is recognised that the linear nature of the works, the absence of a fixed permanent work site along the Rampion 2 onshore temporary onshore cable corridor and the rural nature of much of the corridor may make it difficult to implement a standard construction travel plan. Many of the accesses are not adjacent to sustainable links such as bus stops and rail lines and the nature of the work means that staff traveling to site need to take equipment and work materials which necessitates the use of vans.

Additional transport infrastructure is limited to the provision of a number of mostly temporary construction accesses along the onshore cable corridor. Accesses will be removed and the land reinstated following completion. The **Outline CTMP** (Document Reference: 7.6) provides further details on access and is submitted as part of the DCO Application.

Proposed heavy goods vehicle (HGV) routes are identified and restrictions on HGV timing are proposed to avoid adverse effects on sensitive receptors, particularly schools as set out within the **Outline CTMP** (Document Reference: 7.6). The design of the construction works will avoid the risk of HGV



How and where considered in this document

requirements to a consent where there is likely to be substantial HGV traffic that:

- Control numbers of HGV movements to and from the site in a specified period during its construction and possibly on the routing of such movements;
- Make sufficient provision for HGV parking, either on the site or at dedicated facilities elsewhere, to avoid 'overspill' parking on public roads, prolonged queuing on approach roads and uncontrolled on-street HGV parking in normal operating conditions; and
- Ensure satisfactory arrangements for reasonably foreseeable abnormal disruption, in consultation with network providers and the responsible police force"

parking on the surrounding highway. The transport of AILs has been subject to necessary assessment within **Appendix 23.1**: **Abnormal Indivisible Loads Assessment**, **Volume 4** of the ES (Document Reference: 6.4.23.1) and is expected to cause minimal disruption.

Overarching National Policy Statement for Energy (EN-1, March 2023 (DESNZ, 2023a)

NPS EN-1 (2023) contains the generic requirements for the assessment of impacts arising from traffic associated with design, construction and operation of renewable energy infrastructure. Requirements not previously set out in the NPS EN-1 (2011) are set out below:

Paragraph 5.14.7: The applicant should also provide details of proposed measures to improve access by active, public and shared transport to:

"• reduce the need for parking associated with the proposal;
• contribute to decarbonisation of the transport network;

Where appropriate, it is expected that movement by sustainable means will be facilitated and encouraged. Sustainable links such as bus stops and rail lines are discussed in the Outline Construction Workforce Travel Plan (CWTP) [APP-229] and Outline Operational Travel Plan [APP-227].



How and where considered in this document

- reduce the need to travel; and
- secure behavioural change and modal shift through an offer of genuine modal choice and to mitigate transport impacts."

Paragraph 5.14.8: "The assessment should also consider any possible disruption to services and infrastructure (such as road, rail and airports)."

Paragraph 5.14.11: "Where mitigation is needed, possible demand management measures must be considered. This could include identifying opportunities to:

- reduce the need to travel by consolidating trips,
- locate development in areas already accessible by active travel and public transport,
- provide opportunities for shared mobility,
- re-mode by shifting travel to a sustainable mode that is more beneficial to the network.
- retime travel outside of the known peak times,
- reroute to use parts of the network that are less busy."

Paragraph 5.14.12: "If feasible and operationally reasonable, such mitigation should be required, before considering requirements for the provision of new inland transport infrastructure to deal with remaining transport impacts. All stages of the project should support and encourage a modal shift of freight from road to more environmentally sustainable alternatives, such as rail, cargo bike, maritime and inland

The objectives of the Delivery Management System are to minimise the number of construction vehicles on the road and ensure construction vehicles do not exceed any agreed restrictions, for example peak period traveling through certain towns / villages / junctions. This is included in the Outline Construction Traffic Management Plan (CTMP) [APP-228].

Trip consolidation and other demand management measures will be implemented are discussed in the Outline Construction Workforce Travel Plan (CWTP) [APP-229] and Outline Operational Travel Plan [APP-227].

Trip consolidation, sustainable travel and other demand management measures are discussed in the Outline Construction
Workforce Travel Plan (CWTP) [APP-229] and Outline Operational Travel Plan
[APP-227]. No new operational road infrastructure is proposed, however accesses and car parks are proposed as part of the Proposed Development.



How and where considered in this document

waterways, as well as making appropriate provision for and infrastructure needed to support the use of alternative fuels including charging for electric vehicles."

Paragraph 5.14.13: "Regard should always be given to the needs of freight at all stages in the construction and operation of the development including the need to provide appropriate facilities for HGV drivers as appropriate."

The needs of freight traffic is considered within the Outline Code of Construction Practice (CoCP) [APP-224].

Paragraph 5.14.16: "Applicants should consider the DfT policy guidance "Water Preferred Policy Guidelines for the movement of abnormal indivisible loads" when preparing their application."

The transport of abnormal indivisible loads (AIL) has been subject to assessment within the **Appendix 23.1: Abnormal Indivisible Load assessment, Volume 4** of the ES

[APP-196] and is expected to result in minimal disruption.

National Planning Policy Framework (NPPF) (Ministry of Housing, Communities and Local Government, last updated 20 December 2023)

The NPPF is the primary source of national planning guidance in England.

Whilst the NPPF is not directly applicable to Nationally Significant Infrastructure Projects (NSIPs), it provides context to the TGTN as well as **Chapter 23: Transport**, **Volume 2** of the ES **[APP-064]** (Document Reference: 6.2.23).

Paragraph 115 of 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."

Chapter 23: Transport, Volume 2 of the ES (Document Reference: 6.2.23), sets out the results of the assessment of traffic effects including highways safety (including accident assessment).

Paragraph 117 of the NPPF states that "all developments that will generate significant amounts of movement should be required to provide a travel plan, and the

This TGTN has been developed with reference to the criteria in Paragraph 113, the opportunities for sustainable transport,



How and where considered in this document

application should be supported by a transport statement or transport assessment so that the likely impacts of the proposal can be assessed." access and road safety, and the need for any transport improvements.

The document sets out that the Transport Statement (TS)/TA should account for:

- the opportunities for sustainable transport modes have been taken up depending on the nature and location of the site, to reduce the need for major transport infrastructure;
- safe and suitable access to the site can be achieved for all people; and
- improvements can be undertaken within the transport network that cost effectively limit the significant impacts of the development. Development should only be prevented or refused on transport grounds where the residual cumulative impacts of development.

For understanding transport impacts, this TGTN is supported by the Outline CTMP (Document Reference: 7.6), Outline CWTP (Document Reference: 7.7), Outline PROWMP (Document Reference: 7.8) and Appendix 23.1: Abnormal Indivisible Loads assessment of the ES (Document Reference: 6.4.23.1).

Table 2-2 lists the local planning policy relevant to the assessment of the effects on transport receptors.

Table 2-2 Local transport / planning policy relevant to transport

Policy description

Relevance to assessment

West Sussex Transport Plan 2022-36 (West Sussex County Council, 2022)

4.23-4.25 and 6.4: Walking. The policy aims to maintain the existing pedestrian provision in West Sussex, including PRoW provision, and, where possible provide new infrastructure to create new connections and routes for pedestrians particularly for leisure.

The construction of the onshore cable has the potential to temporarily affect the Public Right of Way (PRoW) infrastructure in West Sussex. The **Outline PRoWMP** (Document Reference: 7.8) outlines all PRoW effects and environmental measures proposed.



Relevance to assessment

More information is also included on PRoWs in the WSCC Rights of Way Management Plan 2018-2028.

4.26-4.29 and 6.4: Cycling. This policy aims to protect the existing cycling provision and promote cycling as a form of sustainable transport. It also identifies a requirement to construct and improve cycling infrastructure to connect local cycle networks in line with the LCWIPs.

The construction of the onshore cable has the potential to temporarily affect local and nationally strategic cycle routes in West Sussex. A review of the local cycle routes has been undertaken within this document in **Section 3** and sets out that impacts on National Cycle Network (NCN) routes will not be significant.

4.33-4.39 and 6.12: Shared
Transport Services. This policy
proposes a range of measures to
promote and improve public
transport in West Sussex. Measures
include the maintenance of public
transport to a good standard and
the provision of new infrastructure –
such as bus lanes- to improve the
existing provision where this is
possible.

The construction of the onshore cable has the potential to temporarily affect local bus routes in West Sussex. A review of local bus routes is included in **Section 3**.

4.64-4.66 and 6.25: Freight. This policy sets out the measures which are to be used to manage the movement of freight during the plan period. The policy identifies measures to be used, including a lorry route network around West Sussex and investment into major infrastructure improvements on the A27.

The policy and HGV route network have been considered when identifying construction HGV routes associated with the Proposed Development set out in **Section 4**. The HGV access strategy avoids Findon Valley, a key route restriction within the Freight Movement and Management Plan.

Draft Horsham District Local Plan 2019-2036 (Horsham District Local Council, 2019)

Strategic policy 41 – Infrastructure Provision. This policy states that development will only be supported if local infrastructure has adequate capacity to support the development. Suitable mitigation should be proposed where local

Consideration of transport effects and requirements for environmental measures.

Chapter 23: Transport, Volume 2 of the ES (Document Reference: 6.2.23) sets out the results of the assessment of the traffic effects on local and strategic highways links.



Relevance to assessment

infrastructure does not have the capacity to accommodate development.

Strategic policy 42 – Sustainable Transport. This policy sets out the conditions in which development will be supported for sustainable transport. The policy states "development will be supported if it:

Provides safe and suitable access for all vehicles, pedestrians, cyclists, horse riders, public transport and the delivery of goods. Minimises the distance people need to travel and minimises conflicts between traffic, cyclists and pedestrians.

Prioritises and provides safe and accessible walking and cycling routes and is integrated with the wider network of routes, including public rights of way and cycle paths.

Includes opportunities for sustainable transport which reduce the need for major infrastructure and cut carbon emissions.

Develops innovative and adaptable approaches to public transport in the rural areas of the District.

Maintains and improves the existing transport system (pedestrian, cycle, rail and road).

Is accompanied by an agreed Green Travel Plan where it is necessary to minimise a potentially significant impact of the development of the wider area, or as a result of needing to address an existing local traffic problem." The construction of the onshore cable has the potential to temporarily affect PRoW, local bus routes and cycle routes in Horsham.

The **Outline PROWMP** (Document Reference: 7.8) outlines all PRoW effects and environmental measures proposed.

A review of the local cycle routes has been undertaken within the **Chapter 23: Transport**, **Volume 2** of the ES (Document Reference: 6.2.23) which sets out the potential effects on NCN routes.

A review of local bus routes has been undertaken within the **Chapter 23: Transport**, **Volume 2** of the ES (Document Reference: 6.2.23) which sets out the potential effects on bus routes.

Mid Sussex District Plan 2014-2031 (Mid Sussex District Council, 2018)

DP20: Securing Infrastructure. This policy requires development to be provided with necessary

Additional transport infrastructure is limited to the provision of a number of mostly temporary construction accesses along the Rampion 2



infrastructure such as efficient and sustainable transport networks.

Relevance to assessment

onshore temporary cable corridor. Accesses will be removed where appropriate and where agreed with landowners and the land reinstated when the Rampion 2 onshore cable construction is finished. Where accesses are not removed, they will remain in-situ, for example, the access to the onshore landfall site and onshore substation. The **Outline CTMP** (Document Reference: 7.6) outlines further details on access.

DP21: Transport. This policy requires developments, depending on their size or impact to prepare a Transport Statement or Transport Assessment to be submitted with the planning application. The policy also requires submission of a travel plan statement or full travel plan alongside the transport statement or transport assessment which will be submitted with the planning application.

This TGTN is provided as part of the DCO Application. The assessment presented is a link based environmental assessment and is supported by the Outline CTMP (Document Reference: 7.6), Outline PROWMP (Document Reference: 7.8) and Appendix 23.1:

Abnormal Indivisible Load assessment of the ES (Document Reference: 6.2.23.1). Outline documents were presented at PEIR stage and further discussions with relevant highways authority have been undertaken to define if there is a significant effect or not.

DP22: Rights of Way and other Recreational Routes. This policy aims to protect existing rights of way, cycle and recreational routes from any adverse effects that might come from development. It also states that where a route is likely to be affected an alternative must be provided which is equivalent in value to the route affected.

The protection of PRoWs, including recreational routes and National Trails has been included within the **Outline PROWMP** (Document Reference: 7.8).

Worthing Local Plan 2020 - 2036 (Worthing Borough Council, 2023)

DM15 Sustainable Transport and Active Travel. The policy sets out that Worthing Borough Council will support development which encourages use of public and sustainable transport and reduces the number of car journeys. Where development is likely to generate demand for travel or have other implications it is required to be supported by a Transport Statement

Chapter 23: Transport, Volume 2 of the ES (Document Reference: 6.2.23) and the Outline CTMP (Document Reference: 7.6) outline the proposed HGV access strategy and environmental measures and routes that have been applied to mitigate impacts of the construction phase of the Proposed Development.



Relevance to assessment

or Assessment and a sustainable travel plan. The policy further states that it will "support measures that promote improved accessibility, create safer roads, reduce the environmental impact of traffic movements, enhance the pedestrian environment, or facilitate highway improvements". In particular reference is made to managing the impact of HGV movements and implementing measures where this may be appropriate.

West Sussex Walking and Cycling 2016 – 2026 (West Sussex County Council, 2020a)

The West Sussex Walking and Cycling strategy is a document that sets out the aims and objectives for walking and cycling during the strategy period (2016-2026) and sets out guidance and information for developers.

The **Outline PROWMP** (Document Reference: 7.8), outlines all PRoW impacts and environmental measures proposed.

2.3 Other relevant information and guidance

The Strategic Road Network and the Delivery of Sustainable Development Guidance

- The Department for Transport (DfT) (2022) Circular 012022 'The Strategic Road Network and the Delivery of Sustainable Development' outlines the methods in which the National Highways (NH) (formally National Highways) will engage with developers and communities to deliver sustainable development and consequently economic growth, whilst safeguarding the primary function and purpose of the Strategic Road Network (SRN).
- 2.3.2 Paragraph 55 outlines under 'Environmental assessments':
 - "The company will engage in the relevant screening or scoping process where a potential impact on the SRN is identified. Environmental assessments must be comprehensive enough to establish the likely impacts on air quality, light pollution and noise arising from traffic generated by a development, along with the impacts from any proposed works to the SRN and identify measures to mitigate these impacts. Requirements and advice for undertaking environmental assessments in respect of transport impacts can be found in the DMRB."
- Paragraph 65 to 69 outlines access requirements relating to on-shore wind turbines:



"The promoter of a wind turbine development must identify any impacts on the operation of the SRN from the construction, operation and de-commissioning stages and identify measures to mitigate these impacts. Swept path analyses must be provided for any abnormal load deliveries to the site via the SRN.

Access to the site for construction, maintenance and de-commissioning should be obtained from the local road network. A direct connection to the SRN will only be permitted in exceptional circumstances."

Within the transport Study Area (outlined in Figure 7.6.3 in the Outline Construction Traffic Management Plan (CTMP) (Document Reference: 7.6), the SRN managed by NH includes the A27 and A23. The requirements of Circular 01/2022 are therefore addressed further within this TGTN.



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3. **Existing Transport Network**

Study Area 1 - onshore 3.1

- This Section provides a description of the baseline conditions of the local and 3.1.1 strategic roads which are proposed to be used for access to the onshore elements of the Proposed Development as well as the local PRoW, cycle routes and sustainable travel routes. Figure 23.1, Volume 3 of the ES (Document Reference: 6.3.23) identifies the roads that have been included in this section.
- Table 3-1 sets out a high-level review of the Main "A" and "B" Roads included 3.1.2 within Study Area 1 and more details on these are presented in the following section.

Table 3-1 A/B roads within Study Area 1

Type of road	Road name
A Roads	A259, A284, A27, A24, A284, A283, A281, A272, A23
B Roads	B2139, B2135, B2116, B2118

Strategic Road Network

A23

- The A23 routes from the M23 south of Crawley to the A27 on the northern 3.1.3 periphery of Brighton. For much of its length, the A23 is a dual carriageway subject to the national speed limit¹. Within Study Area 1, the A23 has junctions with two major roads, the A272 and the A27 as follows:
 - the junction with the A272 is located east of Bolney and comprises grade separated roundabout junctions located either side of the A23 alignment which connect to the A23 with on/off slips; and
 - the junction with the A27 is located on the northern periphery of Brighton and comprises a grade separated bell junction with on/off slips which connects to a separate roundabout junction with the A23.

A27

The section of the A27 that is managed by National Highways (NH) routes 3.1.4 between Pevensey in East Sussex to Cosham, Portsmouth where the A27 becomes the M27. The A27 connects numerous coastal towns along the south coast as well as connecting the cities of Portsmouth and Brighton. Road design

¹ 70mph for cars and motorcycles, 60mph for all other vehicles



standards vary along the A27, however, for most of its length the A27 is a dual carriageway subject to the national speed limit.

Local Highway Network

A24

The A24 routes between Worthing on the south coast and London, and routes via towns including Horsham and Leatherhead. Within Study Area 1, the A24 routes through both urban and rural settings. In rural areas the A24 is typically a dual carriageway and is subject to the national speed limit. In urban areas the A24 routes through both residential and commercial areas, and numerous residential and commercial properties front onto the road and there are a number of pedestrian crossing points.

A272

Within Study Area 1, the A272 routes east/west between the A24 and the A23. The A272 intersects the A24 via a staggered crossroad and junctions with the A23 are via two grade separated roundabouts which connect to the A23 by on/off slips. The A272 is a predominantly a single carriageway rural road throughout Study Area 1. The speed limit varies between national speed limit (60mph for cars and motorcycles) and 50mph depending on local constraints. A section of the A272 through Cowfold is subject to a 30mph speed limit as the road passes through a village setting. Pedestrian footways are provided, and residential properties front onto the A272 throughout Cowfold.

A2037

The A2037 routes north / south between the A283 and the A281. The road intersects with the A281 at a roundabout in the south of Henfield. The A2037 is a predominantly single lane, two-way carriageway rural through road and is subject to the national speed limit. It intersects with the A283 at a roundabout, south of Steyning. The road has limited pedestrian footways including through Henfield and Oreham Common, where some residential properties front onto the road. There is very limited pedestrian crossing points.

A280 Long Furlong

The A280 Long Furlong provides a connection between the A24 at Findon and the A27 south of the village of Clapham. The A280 is a single carriageway road which is predominantly subject to the national speed limit through a rural setting. A small section of the A280 through Clapham Village is subject to a 40mph speed limit, and a signal controlled crossing is provided adjacent to the local primary school.

A281

The A281 routes between Guildford and the A23 north of Brighton, the road connects multiple towns and villages along its routes including Horsham and Cowfold. Due to the length of the A281 and the numerous settlements that it



passes through the road conditions vary throughout. The A281 within Study Area 1 includes a section from Cowfold via Shermanbury to the A281 junction with the B2116. The A281 through this section is a single carriageway road where the speed limit and other conditions vary depending on location.

- Through Cowfold the A281 routes through the centre of the village where commercial properties front onto the road. Pedestrian footways are located on either side of the carriageway within Cowfold centre and on at least one side of the carriageway through the rest of the village. The road is subject to a 30mph speed limit. The A281 connects with the A272 at two mini roundabout junctions within Cowfold centre and a signal controlled pedestrian crossing is provided.
- Through Shermanbury, the A281 is subject to a 40mph speed limit, and a pedestrian footway is provided on the eastern side of the carriageway. Residential properties/driveways front onto the A281.
- Between Cowfold and Shermanbury the A281 is rural in nature, no pedestrian infrastructure is provided, and the national speed limit for a single carriageway.
- The section of the A281 from Henfield to the junction with the B2117 routes through the small village of Woodmancote. The A281 is 30mph though Henfield, and then 40mph past Woodmancote before changing to a national speed for the rest of the route.

A283

The A283 provides a connection between the A24 at Washington, West Sussex and the A27 at Shoreham-by-Sea. The A283 is a single carriageway which is subject to 50mph and national speed limits at various points along its route. The A283 passes predominantly through rural areas. In Steyning, the A283 is located largely in a cutting with local roads on overbridges. The A283 joins with the A27 via a grade separated roundabout and on-off slips.

A284

- The A284 routes between Littlehampton and the A29 west of the village of Houghton. The A281 exists in two sections, from Littlehampton to a junction with the A27 at Crossbush and from a junction with the A27 in Arundel to the A29.
- The section of the A284 from the A259 in Littlehampton to the A27 at Crossbush is within Study Area 1. This section of the A284 passes through the village of Lyminster and the residential suburb of Wick. In Wick, the A284 routes through a residential area where streetlighting and footways are provided, and residential properties and driveways front onto the A284. The road is subject to a 30mph speed limit.
- In Lyminster Village, the road is subject to a 30mph speed limit. Pedestrian footways exist throughout the village on at least one side of the carriageway and a small number of residential properties/driveways front onto the A284. North of Lyminster Village, the speed limit increases to 40mph, and a pedestrian footway continues on the western side of the carriageway.



The construction of the Lyminster Bypass, which is expected to be officially designated as the A284 upon completion, will be a significant development in the road infrastructure. The Lyminster Bypass will serve to reduce the volume of traffic passing through Lyminster and reduce the impacts on local receptors arising as a result.

A259

- The A259 routes along the south coast of England between Havant in Hampshire and Folkestone in Kent. Within Study Area 1, the A259 travels between a roundabout junction with Ford Lane at Climping to a roundabout junction with the B2187 at Toddington.
- Between Climping and the junction with the B2187 at Littlehampton (Bridge Road roundabout), the road is a single carriageway which is subject to a 40mph speed limit west of the Ferry Road junction and the national speed limit east of the junction. A shared footway/cycleway is provided on the northern side of the carriageway.
- Between Bridge Road roundabout and the junction with the A284 (Wick roundabout), the road is subject to the national speed limit and a shared cycleway/footway exists on the northern side of the carriageway between the signal controlled junction with Benjamin Grays Drive and the priority junction with New Courtwick Lane. Between Wick roundabout and the roundabout junction with the B2187 at Toddington the speed limit is reduced to 40mph, and pedestrian footways exist on both sides of the carriageway. Residential properties front onto the carriageway through this section.

B2116

The B2116 routes between the A281 north of Henfield to the B2118 at Aldbourne. The B2116 is a single carriageway which predominantly passes through a rural area. The speed limit varies between 30mph, 40mph and the national speed limit along the B2118 depending on local constraints. Throughout Aldbourne, the road is subject to a 30mph speed limit and pedestrian footways are provided and residential properties/driveways front onto the road.

B2117

The B2117 is a single carriageway road which passes between the A281 and Hurstpierpoint village. Within the short section of the road included in Study Area 1, the road joins the B2118 at a priority junction and the A23 at two priority junctions which serve as southbound on and northbound off slips to the grade separated A23. The B2117 is rural in nature between these junctions and is subject to the national speed limit.

B2118

The B2118 routes between the B2117 at Muddleswood and the A23 north of Sayers Common. The B2118 is a single carriageway and is subject to the national speed limit for much of its route.



- Through the village of Aldbourne, the road is subject to a 40mph speed limit. A pedestrian footway is provided on the eastern side of the carriageway and residential properties/driveways front onto the road.
- Through the village of Sayers Common, the B2118 is subject to a 30mph speed limit and pedestrian footways are provided on both sides of the carriageway. Residential properties/driveways front onto the B2118 and there is a miniroundabout junction with Reeds Lane in the centre of the village.

B2135

The B2135 is a rural B-road serving the village of Partridge Green in Sussex. It is subject to the national speed limit for most of its route. It starts on the A283 at the northern end of the Steyning bypass. It heads north and, although quite wide the route is windy before straightening out, before entering the small village of Ashurst. Through the village of Ashurst the road is subject to a 30mph speed limit. The road then heads into Partridge Green (also 30mph speed limit) where it meets the B2116, and continues through the village, after which it turns north-west towards the A24.

B2139

The B2139 is a rural B-road which runs through Houghton, Amberly and Storrington in West Sussex. Much of the route is subject to the national speed limit, although Houghton and Storrington have a 30mph limit and Amberly is subject to a 40mph speed limit. The B2139 begins at Whiteways Lodge Roundabout with the A29 and the A284, and then runs northeast until Storrington, where it meets Pulborough Road (A283). The road is crossed by no other major roads, only residential streets when routing through villages. It is also the only access to Amberly Train Station.

Ferry Road

Ferry Road is a single carriageway road which routes between the A259 and the River Arun in Littlehampton. From a priority junction with the A259, the road routes through a rural area where a national speed limit applies, and narrow pedestrian footway is provided on the northern side. The road provides access to the Marina, Mobile Home Park and some other industrial buildings. Ferry Road is also the National Cycle Network Route 2 (NCN 2) providing access to Littlehampton station via the Littlehampton Harbour Bridge.

Ford Road

Ford Road is a single carriageway road which routes between the A27 in Arundel and Church Lane in Climping. From a roundabout junction with the A27 to the edge of Arundel, the road passes through a residential area where a 30mph speed limit applies and pedestrian footways are provided. South of Arundel the road is rural in nature and the national speed limit applies. Adjacent to Ford station, Ford Road crosses a railway line at a level crossing. North of the level crossing a 40mph speed limit is applied to Ford Road which continues for its remaining route to Church Lane in Climping. Between Ford Station and Climping a pedestrian footway exists on the western side of the carriageway.



Church Lane

Church Lane is a single carriageway road which routes between Ford Road in Climping to a roundabout junction with the A259 south of Climping. The road is subject to a 40mph speed limit, and a pedestrian footway is provided on the eastern side of the carriageway. A small number of residential properties front onto Church Lane in Climping.

Water Lane

Water Lane is single carriageway rural road which routes between the A283 and Hole Street in Winston. Water Lane is subject to the national speed limit between the junction with the A283 and the periphery of Winston Village. In Winston Village, Water Lane is subject to a 40mph speed limit, and a pedestrian footway is provided on the western side of the carriageway.

Kent Street

3.1.33 Kent Street is a single carriageway rural road which passes between the A272 and Wineham Lane and is subject to the national speed limit. There are no pedestrian footways on this rural road.

Wineham Lane

Wineham Lane is a single carriageway rural road which connects the village of Wineham to the A272 to the north and the B2116 to the south. Wineham Lane is subject to the national speed limit for all sections outside Wineham. Throughout Wineham, it is subject to a 40mph speed limit and residential/rural properties and driveways front onto the road.

Michelgrove Lane

Michelgrove Lane is a single carriageway rural road which provides access to a few residential properties. Michelgrove Lane is subject to the national speed limit, albeit this would be difficult to achieve given the nature of the road.

Baseline traffic flows

- It has been agreed with WSCC highways officers that baseline traffic flows can be derived from existing traffic counts, most of which are taken from either permanent count locations maintained by WSCC/DfT or one-off counts within the WSCC (2020b) online traffic count database. For most locations, this has resulted in the use of data from 2019.
- Following this approach resulted in a lack of traffic data for one specific location (Ferry Road Highways Link 1) and also included data from pre-2010 for four other locations Crossbush Lane (Highways Link 10), A280 Long Furlong (Highways Link 15), A283 East of Washington (Highways Link 17) and B2188 Sayers Common (Highways Link 29). The absence of current traffic data for these locations made it difficult to determine the baseline conditions. Therefore the assessment was informed by new traffic counts undertaken in mid-2022 at these five locations and as such were available for use in this TGTN.



- In locations where the available traffic data is older than 2022, it was agreed with WSCC that no additional traffic counts were required to be undertaken as the counts from 2017-2019 were considered to still be representative, given the low level of additional traffic forecast in comparison to existing flows on the roads as indicated by the previous counts.
- In agreement with WSCC, growth rates have been derived from the DfT's TEMPro 7.2. Growth rates for HGVs have been derived from the DfT (2020) National Traffic Statistics. A base year of 2021 has been used to growth up the available data for the baseline traffic counts.
- Growth rates from TEMPro have been based on two areas: Arun for the south west sections (code, E41000245) and Horsham for the remainder of Study Area 1 (code E41000248).
- 3.1.41 The TEMPro growth rates are as follows:
 - 2012 2021 Arun 1.1387 Horsham 1.1468;
 - 2013 2021 Arun 1.1232 Horsham 1.1292;
 - 2017 2021 Arun 1.0607 Horsham 1.0608;
 - 2018 2021 Arun 1.0454 Horsham 1.0454; and
 - 2019 2021 Arun 1.0305 Horsham 1.0306.
- 3.1.42 HGV growth has been based on the DfT (2021) publication 'TRA2501c Road traffic (vehicle miles) by vehicle type in Great Britain'. Table TRA2501c presents national data of the yearly change in vehicle traffic for total vehicles, car, light commercial vehicles and HGVs.
- Based on Table TRA2501c, annual growth factors for HGVs have been derived as follows:
 - the changes in HGV traffic flows between 2019 (last reliable year of data due to the COVID-19 pandemic) and the base year of 2021 has been calculated;
 - the growth factor from 2018 to 2019 was 0.38%;
 - estimated growth between 2019 and 2021 is assumed as 0.38% per annum, or 0.76% over the two years; and
 - the growth for 2019 2021 (0.76% has been added to the growth from the historic count year to 2019 to provide for a growth from historic count year to 2021).
- 3.1.44 It should be noted the traffic count for A283 (East of A24) is dated 2005. As TEMPro does not extend as far back as 2005, an alternative method based on the DfT statistics has been used as discussed and agreed with WSCC.
- 3.1.45 The calculations above presented the following growth rates for HGVs:
 - 2005 2021 0.9755;
 - 2012 2021 1.0778;
 - 2013 2021 1.10180;



- 2017 2021 1.0270;
- 2018 2021 1.0160; and
- 2019 2021 1.00750.
- For locations where total vehicle traffic data was extracted from existing counts, but where there were no HGV breakdowns in these counts, an HGV percentage was required to develop an HGV traffic flow at these locations. There were three locations where this was required;
 - Highways Link 10 Crossbush Lane;
 - Highways Link 17 A283 East of A24; and
 - Highways Link 29 B2188, Sayers Common.
- At all three of these locations, the historic traffic data only present a breakdown of total vehicles. To estimate a likely HGV percentage on these highways links, reference has been made to adjacent historic traffic counts as follows:
 - Highways Link 10 Crossbush Lane 2% HGVs based on Highways Link 8 data;
 - Highways Link 17 A283 East of A24 3.4% HGVs based on Highways Link 16 data; and
 - Highways Link 29 B2188, Sayers Common 4.7% HGVs based on Highways Link 32 data.
- Table 3-2 sets out the average annual weekday flow (AADF) for the date of survey and the baseline (2021). Figure 32.2 of Chapter 32: ES Addendum of the ES (Document Reference: 6.2.32) shows the location of each of these links in relation to their identified receptor.

Table 3-2 2021 baseline traffic data (AADF) – Study Area 1

Highways Link	Historic Traffic Data			2021 Base			
	Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	HGV%	
1	1925	314	2022	1925	314	16.3%	
2	9859	1106	2019	10458	1135	10.9%	
3	6025	253	2019	6209	255	4.1%	
4	23618	1302	2019	24338	1312	5.4%	
5	22400	857	2019	23083	863	3.7%	
6	13248	551	2019	13652	555	4.1%	



Highways Link	Historic Traffic Data			2021 Base			
	Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	HGV%	
7	13546	692	2018	13959	698	5.0%	
8*	619	12	2019	647	12	1.9%	
9	32734	1613	2013	33732	1625	4.8%	
10*	736	15	2019	827	16	2.0%	
11	31936	1757	2019	32910	1770	5.4%	
12	22776	923	2019	23473	930	4.0%	
13	30777	1012	2018	31719	1020	3.2%	
14	25731	627	2017	26899	637	2.4%	
15	16300	949	2019	17291	975	5.6%	
16	18580	3653	2022	18580	3653	19.7%	
17	21977	750	2005	22649	755	3.3%	
18	5001	170	2019	5861	166	2.8%	
19	11430	2326	2022	11430	2326	20.3%	
20	3444	105	2019	3550	106	3.0%	
21	20485	585	2019	21112	589	2.8%	
22	35481	1636	2019	36567	1648	4.5%	
23	6374	362	2018	6569	364	5.5%	
24	7739	341	2019	8090	346	4.3%	
25	6081	141	2019	6267	142	2.3%	
26	22389	991	2019	23074	998	4.3%	
27	16904	745	2019	17421	751	4.3%	



Highways Link	Historic Traffic Data			2021 Base			
	Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	HGV%	
28	853	16	2019	879	16	1.8%	
29	16889	724	2019	17406	729	4.2%	
30	71894	4024	2012	74094	4054	5.5%	
31	6227	293	2019	7141	315	4.4%	
32	7356	1497	2022	7356	1497	20.4%	
33	3147	149	2019	3243	150	4.6%	
34	78611	3118	2019	81016	3141	3.9%	
35	65068	2421	2019	67059	2439	3.6%	

^{*}Highway Link 8 and 10 will not be used by construction traffic associated with the Proposed Development.

- For locations where total vehicle data was extracted from existing counts undertaken in 2022, it has been assumed that traffic levels have remained unchanged from 2021. The growth rate between 2021 and 2022 is negligible, and in 2021 traffic flows were also still being affected by COVID-19 pandemic. Consequently the 2022 survey results for the highway links in **Table 3-3** were also assumed to be a reasonable proxy for 2021 baseline in **Table 3-2**.
- 3.1.50 **Table 3-3** sets out the Annual Average Traffic Flows (AATF) for the locations that were surveyed in 2022 since the original PEIR was published.

Table 3-3 Baseline data – 2022 Traffic survey

Highways Link	Light Vehicles (LVs)	Heavy Goods Vehicles (HGVs)	Total Vehicles
1 - Ferry Road	1611	314	1925
15 – A280 Long Furlong	14927	3653	18580
17 – A283 East of the A24	9104	2326	11430
29 – B2188 Sayers Common	5859	1497	7356



The following baseline traffic flows have been included in **Table 3-4** below for the new receptor locations. Figure 32.2 of **Chapter 32: ES Addendum** of the ES (Document Reference: 6.2.32) shows the location of each of these links in relation to their identified receptor.

Table 3-4 Baseline traffic data for the new receptors (AADF) (Total peak week)

Hi	ghways Link	Histor	ical Traffic	: Data		2021 Base)
		Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	% HGVs
A	B2139, Coolham Road	8918	422	2012	10227	454	4.4%
В	A272, West Chiltington Lane, Pound Lane, Shipley Road	8918	422	2012	10227	454	4.4%
С	A272, Cowfold Road	16904	745	2019	17421	751	4.3%
D	B2135, Steyning Road, East of Park Lane	4525	20	2017	4800	21	0.4%
E	A272, Bolney Road, East of A281, North of Oakfield Road	19786	668	2023	N/A	N/A	N/A
F	A272, Cowfold Road West of the A23	16889	724	2019	17406	729	4.2%



Hi	ghways Link	Histor	ical Traffic	: Data	:	2021 Base	•
		Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	% HGVs
G	A281, North of Woodside Close	6081	141	2019	6267	142	2.3%
Н	B2135 / B2116 High Street, Partridge Green	6374	362	2019	6569	364	5.5%
I	A281, Brighton Road, North of Partridge Green Road	7739	341	2018	8090	346	4.3%
J	Wineham Lane	853	16	2019	879	16	1.8%
K	B2118, East of B2116 Henfield Road	3147	149	2019	3243	150	4.6%
L	B2135, North of Spithandle Lane	3444	105	2019	3550	106	3.0%
M	A281, High Steet, Henfield	7739	341	2018	8090	346	4.3%
N	A281, Brighton Road	4963	72	2023	N/A	N/A	N/A



Highways Link		Historical Traffic Data			2021 Base		
		Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	% HGVs
0	A283 Storrington Road, Northeast of Sullington Lane	21977	750	2019	22649	755	3.3%
Р	Michelgrove Lane	369	24	2024	N/A	N/A	N/A
Q	A284, Lyminster Road	13546	692	2019	13959	698	5.0%
R	Church Lane, North of the A259	9859	1106	2017	10458	1135	10.9%
S	Ford Road, Station Road	6025	253	2019	6209	255	4.1%
Т	Ford Road	6025	253	2019	6209	255	4.1%
U	Kent Street	338	80	2024	N/A	N/A	N/A

3.2 Study Area 2 – onshore impacts of offshore works

- This section provides a description of the baseline conditions of the local and strategic roads which are proposed to be used for access to the onshore elements of the offshore operation and maintenance phase (access to Port of Newhaven) of the Proposed Development. Figure 23.6, Volume 3 of the ES (Document Reference: 6.3.23) identifies the roads that have been included in this section.
- Table 3-5 sets out a high-level review of the main "A" and "B" Roads included within Study Area 2 and more details on these are presented in the following section.



Table 3-5 A/B Roads within Study Area 2

Type of Road	Road Name			
A Roads	A27, A26, A259			
B Roads	B2109			

Strategic Road Network

A27

The section of the A27 that is managed by National Highways (NH) routes between Pevensey in East Sussex to Cosham, Portsmouth where the A27 becomes the M27. The A27 connects numerous coastal towns along the south coast as well as connecting the cities of Portsmouth and Brighton. Road design standards vary along the A27, however, for most of its length the A27 is a dual carriageway subject to the national speed limit. Within Study Area 2, the junction with the A26 is located at Beddingham.

Local Highway Network

Beach Road / Clifton Road / Railway Road

Beach Road / Clifton Road / Railway Road is a two lane single carriageway urban road which connects the East Quay of Newhaven Port to the A26/B2109. The road is subject to a 30mph speed limit. In the southern section (Beach Road) the route is industrial in nature but passes through residential areas on the Clifton Road and Railway Road section. The route has footways on both sides and is provided with streetlights.

B2109

The B2109 is a two-lane single carriageway that runs from the A26 south to join the A259, then parallel to the A259, and then south from the A259 west of the overpass near Newhaven Town rail station. In Study Area 2, the B2109 runs between the two junctions at either side of the A259 overpass and is provided with footways, pedestrian crossings (under signal control) and streetlights. The B2109 is subject to a 30mph speed limit. The B2109 also has an at grade signalled rail level crossing to the west of the junction with Railway Road.

A259

- The A259 routes along the south coast of England between Havant in Hampshire and Folkestone in Kent. Within Study Area 2, the A259 routes Newhaven Town Centre and a junction with McKinley Way.
- In Study Area 2, the A259 is a two lane single carriageway which for the most part is a flyover between McKinley Way and Newhaven Town Centre. The A259 is



subject to a 30mph speed limit and has footways either side of road apart from the flyover section. The A259 also has streetlights and west of the flyover section has a signal-controlled crossing of the River Ouse to accommodate the swing bridge operation.

A26

- The A26 is a two lane single carriageway in Study Area 2 that links Newhaven to Kent and is a primary route in the south east of England.
- In Study Area 2, the A26 links to the B2109/A259 in Newhaven and routes north to a roundabout junction with the A27 at Beddingham. The road is subject to the national speed limit (NSL) outside of settlements but reduces to 40mph in South Heighton and 30mph in Newhaven. The A26 has footways and streetlights in the major settlements but is not provided with footways in the rural sections.

McKinley Way (Newhaven Port New Access Road)

McKinley Way is a 1.4km two lane single carriageway which runs from a roundabout junction with the A259, via a new intermediate roundabout, to a new roundabout providing access to Newhaven East Quay. The road has footways as well as a segregated cycle track, and the southern end of the road includes a bridge spanning the Newhaven to Seaford railway line and Mill Creek. McKinley Way is subject to a 30mph speed limit.

Baseline traffic flows

- The approach to the collation of baseline traffic for Study Area 2 is the same as Study Area 1 and historic traffic data has been used, derived from the DfT traffic data.
- Growth rates for total vehicles have been derived from the DfT's TEMPro 7.2. A base year of 2021 has been used to growth up to for the baseline traffic counts. Growth rates from TEMPro have been based on TEMPro rates for Lewes 008/009 within the database which covers the town of Newhaven. The TEMPro growth rates are as follows:
 - 2018 2021 Newhaven 1.93.
- HGV growth has been based on the DfT (2021) publication 'TRA2501c Road traffic (vehicle miles) by vehicle type in Great Britain'. Table TRA2501c presents national data on the yearly change in vehicle traffic for total vehicles, car, light commercial vehicles and HGVs.
- 3.2.14 Based on Table TRA2501c, annual growth factors for HGVs have been derived as follows:
 - the change in HGV traffic flows between 2019 (last reliable year of data due to the COVID-19 pandemic) and the base year of 2021 has been calculated;
 - the growth factor for from 2018 to 2019 was 0.38%;
 - estimated growth between 2019 and 2021 is assumed as 0.38% per annum, or 0.76% over the two years; and



- the growth for 2019 2021 (0.76% has been added to the growth from the historic count year to 2019 to provide for a growth from historic count year to 2021).
- 3.2.15 The calculations above presented the following growth rates for HGVs:
 - 2019 2021 1.00750
- Due to the Newhaven Port New Access Road not yet having been opened to traffic at the time of 2019 data collection (factored up to 2021), an assumption has been made for the percentage transfer of existing traffic to Newhaven Port East Quay which currently routes along Railway Road / Clifton Road and would move onto the New Access Road. For completion of a robust assessment, it is assumed that 80% of the currently average daily traffic on the existing Railway Road / Clifton Road route will reassign to the New Port Access Road.
- Table 3-6 sets out the AADF for 2019 and the current baseline (2021). 2021 base traffic includes for the transfer of 80% of the traffic from the existing access to Newhaven Port corridor; as described above.

Table 3-6 2021 baseline traffic data (AADF) - Study Area 2

Highways	Historic Traffic Data			2021 Base		
Link	Total Vehicles	HGVs	Year of Data	Total Vehicles	HGVs	HGV%
1	N/A	N/A	N/A	2829	233	8.2%
2	16873	1267	2019	17346	1277	7.4%
3	16873	1267	2019	17346	1277	7.4%
4	36734	1921	2019	37781	1935	5.1%
5	26348	1095	2019	27106	1103	4.1%

Future baseline

Study Area 1 – Onshore works

Traffic growth

Construction impacts

To understand the transport effects during the construction phase, the traffic generation calculations were interrogated to identify a single peak week across the study area for all receptors on highways links, i.e. the week during the construction programme when the number of vehicle trips being generated is forecast to be highest.



- It has been agreed with WSCC and NH that growth rates can be derived from TEMPro and there is no requirement to include committed development or Local Plan allocations as the growth within the TEMPro estimates will account for traffic growth related to future development in the area through Local Plan allocations.
- Furthermore, the Department for Transport (DfT) has confirmed that the A27 Arundel Bypass scheme will be deferred to Road Investment Strategy (RIS3 covering 2025 to 2030) to allow time for stakeholders' views to be fully considered. Therefore, as the A27 Arundel Bypass is not yet committed, no cumulative effects assessment has been included with the Proposed Development.
- 3.2.21 The growth rates from TEMPro are as follows:
 - 2021 2025 Arun 1.066 / Horsham 1.069;
 - 2021 2026 Arun 1.0746 / Horsham 1.0788;
 - 2021 2027 Arun 1.0831 / Horsham 1.0868; and
 - 2021 2028 Arun 1.092 / Horsham 1.095.
- 3.2.22 The HGV growth rates derived from the DfT Transport Statistics are as follows:
 - 2021 2025 1.062;
 - 2021 2026 1.075;
 - 2021 2027 1.093; and
 - 2021 2028 1.109.
- The following growth rates have been applied to the new base survey flows for the new receptors:
 - 2023 2025 Horsham 1.022
 - 2023 2027 Horsham 1.041
 - 2024 2026 Horsham 1.021
- 3.2.24 2024 2028 Horsham 1.03The following HGV growth rates have been applied to the base survey flows for the new receptor:
 - 2023 2025 1.031;
 - 2023 2026 1.0465; and
 - 2023 2027 1.062.
 - 2024 2026 1.020; and
 - 2024 2028 1.041.
- The resultant future year traffic generation is set out in Table 2-6 and Table 2-7 of Chapter 32: ES Addendum of the ES (Document Reference: 6.2.32).



Decommissioning impacts

- The temporal scope of the assessment of the decommissioning phase is based on the peak period of traffic during the onshore substation removal. It is currently predicted that the onshore substation will be decommissioned around 30 years from the Proposed Development commission. The onshore substation is proposed to be built in years two to four of the construction programme. Based on the assessments set out on this TGTN, year five will be 2030 and 30 years from then will be 2060.
- It has been agreed with WSCC and NH that growth rates can be derived from TEMPro and there is no requirement to include committed development or Local Plan allocations as the growth within the TEMPro estimates will account for traffic growth related to future development in the area through Local Plan allocations. For the decommissioning phase impacts assessment, TEMPro rates have been extracted for Horsham.
- TEMPro only provide traffic estimates to 2051 as this is the latest year for which a reliable traffic growth estimate can be made. Therefore, 2051 is used for the assessment for the decommissioning phase in this TGTN.
- 3.2.29 The growth rates from TEMPro are as follows:
 - 2021 2051 Horsham 1.22.
- The HGV growth rates derived from the DfT Transport Statistics based on the construction phase HGV growth methodology will result in HGV growth of 1.55% per year which over 30 years to 2051 will result an increase in HGVs of 46.50%. Although this almost doubling of HGVs in 30 years may not be reached (in recent years HGV growth has slowed) it has been used for calculations in this TGTN for consistency with other assessments.
 - 2021 2051 1.4650.
- The resultant future year traffic generation is set out in Table 2-6 and Table 2-7 of Chapter 32: ES Addendum of the ES (Document Reference: 6.2.32).

Future highways network changes (construction and decommissioning phases)

- During initial consultation, WSCC confirmed that there are no highways schemes that will need to be considered in the assessment.
- The A27 Arundel Bypass is being promoted by NH but is not a committed development. With no direct impacts of onshore elements of the Proposed Development across the proposed route of the A27 Arundel Bypass, the only effects of the onshore elements of the Proposed Development on the bypass will be the additional traffic generated during the construction phase. Highways Link 9 (As shown in Figure 23.20, Volume 3 of the ES (Document Reference: 6.3.23) has been selected to provide NH with an indication of the peak construction traffic on the A27 which will switch to an open A27 Arundel Bypass. The Department for Transport has confirmed that the A27 Arundel Bypass scheme will be deferred to Road Investment Strategy (RIS3 (covering 2025 to 2030) to allow time for stakeholders' views to be fully considered. Therefore, as the A27 Arundel Bypass is not yet committed, it is not included within the cumulative effects assessment in



Chapter 23: Transport, Volume 2 of the ES [APP-064] or this TGTN, since it is not considered that the A27 Arundel Bypass would either be open or past its peak point of construction by the time that construction of the Proposed Development is complete.

- The Lyminster Bypass construction works commenced on 24 October 2022 and 3.2.34 the scheme completion is currently forecast for Autumn 2024. The bypass will link to the existing A284 from a point approximately 600m south of the A27 at Crossbush and join the privately developed section of the same proposed bypass at Toddington Nurseries. The proposed bypass will be a 7.3m wide single dual carriageway with verge on one side and a shared footway/cycleway facility on the other. The footway/cycleway will connect to existing and proposed facilities along the southern half of the bypass and A259. The Lyminster Bypass is due to be completed ahead of the peak of any Rampion 2 construction works. In order to present a robust scenario, the Rampion 2 traffic modelling has assumed that no Rampion 2 construction traffic would use the Lyminster Bypass and would instead use the existing road network; in practice, the presence of the Lyminster Bypass would relieve pressure on the existing road network. The cumulative highways assessment therefore does not include the Lyminster Bypass, so as to provide a robust assessment.
- West Sussex County Council (WSCC) is currently developing a major road enhancement scheme for the corridor of the A259 between Bognor Regis and Littlehampton in Arun District. The location of the scheme is between and including the B2132 Yapton Road (Comet Corner) junction and the B2187 Bridge Road (Tesco) junction. Construction commencement, subject to Full Business Case approval, is predicted to be the middle of 2025. As the scheme does not yet have a full Business Case it has not been included in the cumulative effects assessment in Chapter 23: Transport, Volume 2 of the ES [APP-064] or this TGTN, however a sensitivity test could be undertaken if the A259 scheme were to get full business case approval.

Study Area 2 – Onshore impacts of offshore works

Traffic growth

- Onshore impacts of the offshore operation and maintenance phase are proposed to start in the first year of commission. With the construction phase ending in 2029, a future year of assessment of 2030 for this operation and maintenance phase has been assumed for assessment in this TGTN.
- It has been agreed with WSCC and NH that growth rates can be derived from TEMPro and there is no requirement to include committed development or Local Plan allocations as the growth within the TEMPro estimates will account for traffic growth related to future development in the area and it is proposed to continue that approach for Study Area 2. The growth rates are based on the Newhaven (TEMPro data set Lewes 008/009) location in TEMPro as that is where the candidate port is located.
- 3.2.38 The growth rates from TEMPro are as follows:
 - 2021 2030 1.0746.



- 3.2.39 The HGV growth rates derived from the DfT Transport Statistics are as follows:
 - 2021 2030 1.1395.
- The resultant future year traffic generation is set out in Table 2-6 and Table 2-7 of Chapter 32: ES Addendum of the ES (Document Reference: 6.2.32).



4. Proposed Development

4.1 The onshore elements of the Proposed Development

The onshore elements of the Proposed Development will include the construction of a temporary onshore cable corridor from landfall at Climping to a new onshore substation at Oakendene near Cowfold, that will connect to the existing National Grid Bolney substation, Mid Sussex, via buried onshore cables.

Onshore cable corridor

- The onshore cable corridor will cover an approximate distance of 38.8km and will be buried along its entire length. For construction purposes, a nominal working width up to 40m will be required for the majority of the onshore cable corridor, with some larger working areas required at key areas, while constraints may restrict the working width in other areas.
- The onshore cable corridor commences at landfall in Climping, then crosses under the A259, rail network and River Arun via trenchless crossing before also crossing by trenchless method under the A27 near Hammerpot. From here, the onshore cable corridor will head northeast across the South Downs to Washington, West Sussex and under the A24 and A283 via a trenchless crossing. The onshore cable corridor continues northeast through a rural area and to the new onshore substation at Oakendene, that will connect to the existing National Grid Bolney substation via buried onshore cables. Additional infrastructure at the existing Bolney Substation is required to connect the Proposed Development to the National Grid electrical network.
- The onshore cable corridor has numerous crossings of roads including the A259, A284, A27, A24, A283, Chanctonbury Ring Road, Spithandle Lane, B2135, B2116, A281, King's Lane, Kent Street, and Wineham Lane. There is also one crossing of the River Arun and two crossings of the National Rail network west of Littlehampton and Wick. Installation of the onshore cable will utilise trenchless crossing techniques (e.g. HDD) to avoid major roads at specific locations, operating railway lines and watercourses.
- For the purpose of this assessment, the entire onshore cable corridor has been split into three sections which are described below and presented in Figure 23.2, Volume 3 of Chapter 23: Transport, Volume 2 of the ES [APP-064]. Each of the sections contains a temporary construction compound (TCC) plus a number of construction accesses, and therefore enables the study area to be studied in greater detail.
 - Section 1 runs north from landfall, across the A259, the River Arun and the two
 railway lines before crossing the A27 near the edge of the South Downs at
 Hammerpot. This section is rural but runs along the edge of the settlements of
 Littlehampton, Wick, Lyminster and Crossbush;
 - Section 2 runs northeast from the Section 1 boundary to a crossing of the A24 near Washington, West Sussex. Between the A27 and A24, the onshore cable



- corridor has minimal interaction with the local highways network and due to the nature of access options, will make use of a continuous temporary construction haul road; and
- Section 3 runs from the Section 2 boundary along the A283 corridor before turning northeast to Partridge Green and further east to Bolney. This section is flat and rural in character but with more crossings of roads.
- The three sections of the onshore cable corridor route associated with each of the three TCC's assessed are presented in **Figure 23.2.1**, **Annex B**.
- The onshore cable corridor was divided into three sections to define the number of work fronts required. The key onshore cable construction activities occur over a four-year period. It is assumed that the construction crews will initially work on the southernmost section (Section 1) of the onshore cable corridor, moving on to Section 2 and then Section 3 as set out in Figure 23.2.1, Annex B. The sections are in turn broken down into smaller sections defined by access points and crossings.
- Each of these sections is defined by the presence of a temporary construction compound, plus a number of construction accesses.
- Temporary construction compounds (TCC's) will be required to store materials and plant as well as form a base for traffic working at the various site locations. The onshore part of the proposed DCO Order Limits allows space for five TCC locations as set out in Figure 23.3a-c, Volume 3 of Chapter 23: Transport, Volume 2 of the ES [APP-064]. The TCCs used in the traffic calculations used in this assessment are as follows:
 - TCC 1 –Climping compound: Site Access A-5, serving Section 1;
 - TCC 2 Washington compound: Site Access A39, serving Section 2;
 - TCC 3 Oakendene west compound: Site Access A-62, serving Section 3;
 - Construction compound 4 Oakendene substation compound: Site Access A-63, serving Section 3; and
 - Construction compound 5 existing National Grid Bolney substation compound – Site Access A-68, serving Section 3
- 4.1.10 **Figure 23.4a-c, Volume 3** of the ES (Document Reference: 6.3.23) sets out the onshore cable corridor sections and the TCCs.
- 4.1.11 The operational lifetime of the Proposed Development is expected to be around 30 years and for the purposes of this TGTN at year 30 the Proposed Development will reach the decommissioning phase.
- Taking place after construction and commissioning of the Proposed Development, the operation and maintenance phase activities can be divided into three main categories:
 - scheduled maintenance:
 - unscheduled maintenance; and
 - special maintenance in the event of major equipment breakdown and repairs.



Construction phase working hours

- Core working hours for construction of the onshore components will be 08:00 to 18:00 Monday to Friday, and 08:00 to 13:00 on Saturdays, apart from specific circumstances that are set out in the Outline Code of Construction Practice (COCP) [PEPD-033], where extended and continuous periods of construction are required.
- 4.1.14 Prior to and following the core working hours Monday to Friday, a 'shoulder hour' for mobilisation and shut down will be applied (07:00 to 08:00 and 18:00 to 19:00). The activities permitted during the shoulder hours include staff arrivals and departures, briefings and toolbox talks, deliveries to site and unloading, and activities including site and safety inspections and plant maintenance. Such activities shall not include use of heavy plant or activity resulting in impacts, ground breaking or earthworks.
- The requirement for deliveries during shoulder hours and potential restrictions to avoid sensitive receptors (where specifically justified or required) will be determined during detailed design once the construction programme has been developed further. Such restrictions can be included within detailed construction traffic management strategies, which would need to be approved West Sussex County Council and the relevant Local Planning Authority in accordance with Requirement 24 of the **Draft Development Consent Order [REP4-004]**.
- 4.1.16 No activity outside these hours including Sundays, public holidays or bank holidays will take place apart from under the following circumstances:
 - where continuous periods (up to 24 hours, 7 days per week) of construction work are required for HDD²;
 - for other works requiring extended working hours such as concrete pouring which will require the relevant planning authority to be notified at least 72 hours in advance;
 - for the delivery of abnormal loads to the connection works, which may cause congestion on the local road network, and will require the relevant highway authority to be notified at least 72 hours in advance; or
 - as otherwise agreed in writing with the relevant planning authority.
- For the purposes of a robust assessment in this TGTN, traffic generation has only been calculated for a five day working week and with no Saturday working.
- 4.1.18 It is anticipated that heavy goods vehicles (HGVs) will be required during the enabling and construction phases of the Proposed Development.

Operation and maintenance phase

Following the construction phase, the operation and maintenance phase activities can be divided into three main categories:

² HDD is a continuous activity and cannot be paused once started.



- scheduled maintenance;
- unscheduled maintenance; and
- special maintenance in the event of major equipment breakdown and repairs.
- A key principle is that the wind farm will be designed to operate under minimum supervisory input. Maintenance of the onshore cable is expected to be minimal. During the operation and maintenance phase, periodic testing of the cable is likely to be required (every two to five years). This will require access to the link boxes at defined inspection points along the onshore cable corridor. This will involve attendance by up to three light vehicles, such as vans, in a day at any one location. The vehicles will gain access using existing field accesses and side accesses as agreed with landowners to reach the relevant sections of the onshore cable.
- For the onshore cable, unscheduled maintenance or emergency repair visits will typically involve a very small number of vehicles, typically light vans. Infrequently, equipment may be required to be replaced, then the use of an occasional HGV may be utilised, depending on the nature of the repair.
- Vehicle movements during operation and maintenance phase of the onshore substation will be small, comprising occasional inspection and maintenance requirements. Its considered this traffic will be negligible and there not been assessed.
- The operational lifetime of the Proposed Development is expected to be around 30 years and for the purposes of this TGTN at year 30 the Proposed Development will reach the decommissioning phase.

Decommissioning phase

- A decommissioning plan and programme will be developed prior to construction and updated during operation of the Proposed Development to account for any changes to decommissioning best-practice and developments in technology.
- The decommissioning phase is anticipated to involve the removal of offshore infrastructure above the seabed, and the removal and reinstatement of the onshore substation site. The cable will be left in place to avoid disturbance. The decommissioning works are likely to be undertaken in reverse to the sequence of construction works and involve similar levels of equipment but much reduced numbers of vehicles for decommissioning.

4.2 The offshore elements of the Proposed Development

- The key offshore elements of the Proposed Development will be as follows:
 - up to 90 offshore wind turbine generators (WTGs) and associated foundations;
 - blade tip of the WTGs will be up to 325m above Lowest Astronomical Tide (LAT) and will have a 22m minimum air gap above Mean High Water Springs (MHWS);
 - inter-array cables connecting the WTGs to up to three offshore substations;



- up to two offshore interconnector export cables between the offshore substations;
- up to four offshore export cables each in its own trench, will be buried under the seabed within the final cable corridor; and
- the export cable circuits will be High Voltage Alternating Current (HVAC), with a voltage of up to 275kV.

Construction phase

- During the construction phase, it is anticipated that 2,000+ two way movements for crew support vessels from the onshore ports to the offshore infrastructure, however it is not established how this will be organised.
- The construction of the Rampion 1 project resulted in staff arriving and departing numerous ports in the UK and Europe and it is likely this process will be undertaken for Rampion 2.
- A maximum of 6 crew transfer vessels (which can typically carry 12 to 16 passengers and equipment) is required with 180 return trips³ (360 two-way movements) for all three offshore substations during the offshore substation vessel installation.
- A maximum of 10 crew transfer vessels (which can typically carry 12 to 16 passengers and equipment) would be required with 1800 two-way movements for the smaller wind turbine generator type during the offshore installation.
- 4.2.6 Alternatively, a maximum of 6 crew transfer vessels (which can typically carry 12 to 16 passengers and equipment) would be required with 600 two-way movements for the larger wind turbine generator type during the offshore installation.
- 4.2.7 Material, including large transformers, cable and WTG components are expected to be delivered directly from European manufacturing bases. WTG construction vessels are also usually moored in European ports or will transfer from other projects.
- There will also be some onshore works required in the offshore works but these construction activities (construction compound setup, HDD, Transition Joint Bay (TJB) construction etc.) have relatively short durations compared with the overall landfall construction presented in this TGTN for the construction phase of the landfall site (onshore). Due to the landfall works requiring offshore works, the scheduling of the landfall works will allow for flexibility around the offshore schedule and sufficient time for all onshore activities to be performed so as not to delay the offshore works.
- 4.2.9 Consequently, the onshore impacts of the offshore process (i.e. transferring construction workers to ports to connect to offshore transfers) would have a limited impact onshore compared to the movement of freight. Offshore construction worker movements have been considered as part of the onshore assessment.

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³ One return trip comprises 2 two-way movements in total



Operation and maintenance phase

- The operational lifetime of the Proposed Development is expected to be around 30 years and for the purposes of this TGTN at year 30 the Proposed Development will reach the decommissioning phase. It is only anticipated that elements of the Proposed Development that are above sea level will be removed (WTG / substations).
- When the offshore elements of the Proposed Development are constructed and commissioned staff will be required to continue to operate and maintain the WTGs and associated infrastructure. RED will draw on experience gained in operating and maintaining the existing Rampion 1 project and although the maintenance port and facilities are not yet confirmed, for the purpose of this TGTN it is assumed that the existing operation and maintenance base Newhaven East Quay will be used for staffing.



5. Key Construction Traffic Assumptions

5.1 Introduction

This Section provides a summary of key assumptions that have been used to calculate construction traffic generation across all elements of the of Proposed Development.

5.2 Overview

- The construction works have been based on the following onshore cable connection design. A maximum of 20 buried cables will run along the length of the onshore cable route from the landfall at Climping through to the new onshore substation at Oakendene. A maximum of 10 buried cables will subsequently run from the new onshore substation to connect into the existing National Grid Bolney substation.
- The up to 275kV cable system along the onshore cable route will comprise four cable circuits in separate trenches. Each circuit will contain three Power Cables (HVACs) and two Fibre Optic Cables (FOCs) drawn through pre-installed ducts.
- The 400kV cable system between the new onshore substation at Oakendene and the existing National Grid Bolney substation will comprise two cable circuits in separate trenches. Each circuit will contain three Power Cables and two FOCs drawn through pre-installed ducts. In order to undertake calculations of vehicle movements associated with the construction phase of the onshore elements of the Proposed Development, a fixed scheme is required with regards to onshore cable corridor, onshore substation location and TCC locations. To inform these calculations, vehicle movements have been calculated for each construction site and key assumptions associated with these are discussed in the following subsections for:
 - onshore cable corridor;
 - TCCs;
 - onshore substation; and
 - temporary construction accesses.

5.3 Onshore cable corridor

- 5.3.1 The onshore cable corridor is routed from the landfall at Climping through to a proposed new onshore substation at Oakendene, and then onto the existing National Grid Bolney substation.
- Temporary access points along the onshore cable route have been identified.

 These accesses may be utilised in different ways, due to safety and efficiency, for example traffic may enter and exit via different accesses whilst making deliveries



to site. For the purposes of this assessment, access to and from the onshore cable route is assumed through the access points as set out in Table 5-1.

Table 5-1 Accesses

Access	Access Type
A-01	Construction and operational
A-02	Light construction
A-03	Light construction
A-04	Operational
A-05	Construction and operational
A-06	Operational
A-08	Light construction
A-09	Construction and operational
A-10	Operational
A-11	Operational
A-12	Construction
A-13	Construction and operation
A-14	Light construction and operational
A-15	Construction and operational
A-16	Construction and operational
A-17	Operational
A-18	Operational
A-20	Light Construction and operational
A-21	Construction
A-22	Construction
A-23	Operational
A-24	Operational
A-25	Light construction and operational
A-26	Construction and operational



Access	Access Type
A-27	Operational
A-28	Construction
A-29	Operational
A-30	Operational
A-31	Operational
A-32	Operational
A-33	Construction
A-34	Operational
A-35	Construction
A-36	Operational
A-37	Light construction
A-38	Light construction
A-39	Construction and operational
A-40	Construction and operational
A-41	Construction and operational
A-42	Construction and operational
A-43	Construction and operational
A-44	Operational
A-45	Operational
A-46	Light construction and operational
A-47	Construction and operational
A-48	Construction and operational
A-49	Light construction and operational
A-50	Construction and operational
A-51	Operational
A-52	Construction and operational



Access	Access Type
A-53	Construction
A-54	Operational
A-55	Operational
A-56	Construction and operational
A-57	Construction and operational
A-58	Operational
A-59	Operational
A-60	Operational
A-61	Construction and operational
A-62	Construction
A-63	Construction and operational
A-64	Construction and operational
A-65	Operational
A-66	Light construction and operational
A-67	Construction and operational
A-68	Construction
A-69	Operational

- The temporary construction access points are required along the onshore cable corridor to allow the transportation of materials, equipment, and personnel to and from the construction sites. These temporary construction access points will allow access to the construction corridor where there will be a temporary construction haul road running along the length of the onshore cable route, except for locations where there are trenchless or road crossings. These accesses may be utilised in different ways, due to safety and efficiency, for example traffic may enter and exit via different accesses whilst making deliveries.
- Potential temporary construction access points along the onshore cable corridor were identified based on suitability for the Proposed Development requirements. Existing access points and tracks have been utilised where possible. These temporary construction and operational accesses may be utilised in different ways due to safety and efficiency, for example construction traffic may use one access for incoming traffic to an onshore cable corridor section and another access for



- traffic to exit. For the purposes of this assessment, access to and from the onshore cable corridor is assumed through the same access point.
- 5.3.5 The Outline Construction Traffic Management Plan (CTMP) [REP1-010] includes more detail on the temporary construction access points.

5.4 Temporary construction compounds

A number of TCCs will be required to support the construction of the onshore elements of the Proposed Development and will be used to store materials and form a base for traffic travelling to and from construction site locations. These TCCs are outlined in **Section 4.1**.

5.5 Onshore substation

- The purpose of the new onshore substation at Oakendene is to increase the onshore cable route voltage from the export voltage to the 400kV required to connect to the existing National Grid Bolney substation.
- Access to the onshore substation will be required during construction as well as operation and maintenance. The temporary construction access route will be used for the duration of the onshore substation construction works.
- Temporary construction activities for the onshore substation will include enabling works and construction works. Enabling works will prepare the site ahead of construction and include vegetation clearance, access road construction, installation of drainage systems, stone fill, installation of a temporary construction compound, delivery of materials, plant, machinery and fuel, and any earthworks necessary for the installation of the substation foundations.
- Generally, onshore substation construction will take place during daylight hours with a requirement only for local task lighting. Construction works will involve:
 - landscaping;
 - installation of perimeter fencing;
 - ground preparation works;
 - installation of underground services and onshore substation foundations;
 - construction of the control and switchgear buildings and plant buildings;
 - construction of cable trenches;
 - construction of ducts and pits;
 - construction of the oil containment bund; and
 - provision of utility supplies.
- Once all construction activities have been carried out, the electrical equipment will be installed, commissioned and tested for the performance of the connection between Oakendene and the existing National Grid Bolney substation. Finally, the site will be secured, and the temporary area returned to its original use and condition.



It is anticipated that heavy goods vehicles (HGVs) will be required during the enabling and construction phases of the development.

Abnormal Indivisible Loads (AILs)

- It is anticipated that Abnormal indivisible load (AIL) movements are expected to be required during the construction phase to transport permanent plant and equipment to the site. The expected AIL movements are described in **Appendix 23.1: Abnormal Indivisible Loads assessment, Volume 4** of the of the ES [APP-196].
- 5.5.8 There will be up to 10 two-way movements delivering abnormal indivisible loads.
- 5.5.9 AlLs will be comprised of:
 - Up to four main transformers; and
 - Six shunt reactors.
- This figure reflects the update contained within the errata items included in Appendix 3 of the Applicant's cover level to the Pre-Examination Procedural Deadline (PEPD-001).

5.6 Work section breakdown

- The three sections of the onshore cable corridor route associated with each of the three TCC's assessed is presented in **Figure 23.2.1**, **Annex B**.
- The onshore cable corridor has been divided into sections to define the number of work fronts required. The key onshore cable construction activities occur over a four-year period. It is assumed that the construction crews will initially work on the southernmost section (Section 1) of the onshore cable corridor, moving on to Section 2 and then Section 3 as set out in **Figure 23.2.1**, **Annex B.** The sections are in turn broken down into smaller sections defined by access points and crossings.
- Each of these sections is defined by the presence of a Temporary Construction Compound (TCC), plus a number of construction accesses.

5.7 Construction activities

- 5.7.1 During the construction phase, construction activities have been divided into the following activities:
 - horizontal directional drill (HDD) construction compound works;
 - HDD drilling;
 - TCC mobilisation;
 - temporary compound construction;
 - haul roads;
 - landfall works:



- clearing works;
- temporary construction access works
- materials deliveries;
- trenching;
- all joint bay works;
- duct installation, cable pulling and reinstatement;
- temporary construction access road / haul road reinstatement;
- compound reinstatement; and
- onshore substation construction.
- The construction traffic generation of all elements of the works has been predicted across the proposed construction schedule (2025-2029). This has resulted in vehicle movement predictions on a weekly basis per access point for each work site, split into Heavy Goods Vehicles (HGVs) and Light Goods Vehicles (LGVs).

5.8 Construction Management Base

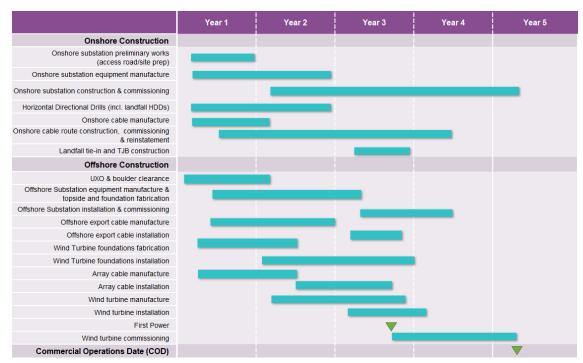
- During the construction phase, the onshore elements of the Proposed Development would be supported with Temporary Construction Compounds (TCC's) (and HDD compounds), accesses and haul roads. There will also be some traffic during the construction phase associated with the construction management base in Shoreham, from where crew transfer onto vessels.
- A management team, marine co-ordination and vessel management team will be based in the office, and some contractors may use the office facility as well. These teams will comprise around 24 people in total and will be assumed to be shore-based for robustness.
- The construction management base will enable Crew Transfer Vessels (CTV) to access the offshore construction location. The construction management base will also enable CTV crew transfers to complete construction and commissioning work.
- 5.8.4 The base will feature facilities including:
 - Temporary modular offices, with welfare and changing facilities;
 - Car parking; and
 - Temporary pontoons with a fuelling facility.
- It has been assumed that 40 workers per day will travel to the Construction Management Base (CMB) for onward transfer by CTV, and they have the same spatial distribution as workers based at TCC 1. The remainder of the LV traffic is assumed to be LGVs and similarly follows the spatial distribution for TCC 1 deliveries. There are also some HGVs serving the base, and it is assumed that the HGV distribution is followed with respect to these.



5.9 Scheduling

- An indicative construction programme for the Proposed Development is presented in **Graphic 5-1**. The programme illustrates the anticipated duration of the major construction / installation elements. The anticipated worst-case total construction duration for all onshore infrastructure to be complete, operational and for full landscape reinstatement is approximately four years.
- Each construction activity has been scheduled to overlap activities where necessary across the construction schedule This has involved both paralleling some construction activities where practical and increasing the overall duration for other construction activities, as shown in **Graphic 5-1**.





5.10 Construction materials, personnel, plant and equipment requirements

- Construction personnel and plant / equipment requirements have been assessed at a high level for the purposes of estimating the number of HGVs required, as well as LGVs required to bring workers to onshore part of the proposed DCO Order Limits. Typically, this is via multi-occupancy vehicles to TCCs, before travelling to specific construction accesses that are part of the onshore part of the proposed DCO Order Limits via five person welfare vans.
- As the volume of required construction plant/equipment is anticipated to be relatively low in comparison to other construction activities (e.g. aggregate transportation) associated with the construction of the onshore cable corridor, a high-level estimate has been made only where significant construction plant / equipment requirements are expected.



6. Construction traffic generation

6.1 Assessment methodology

- This section presents a high-level overview of the method that has been adopted to estimate the vehicle movements of both heavy goods vehicles (HGVs) and light vehicles (LGVs) throughout the construction phase of the onshore elements of the Proposed Development.
- This section presents a high-level overview of the method that has been adopted to estimate the vehicle movements of both heavy goods vehicles (HGVs) and light vehicles (LGVs) throughout the construction phase of the onshore elements of the Proposed Development.
- In this TGTN, a vehicle movement has been defined as a one-way journey between two locations. For example, an HGV delivering cables to a TCC and then leaving empty is considered two journeys. A subsequent further two journeys are then required to deliver the cables from the TCC to site (one loaded, one empty).
- The estimates within this TGTN have been calculated against a conservative set of assumptions based on the best available information on the onshore works within the proposed DCO Order Limits. The final arrangement of the construction works, and precise methods used will be determined during the detailed design stage and the construction phase of the works depending on the working arrangements favoured by the appointed contractor(s). These factors will influence the number of vehicle movements and the personnel requirements.
- For this assessment, each of the construction work sites has been treated separately. Each construction work site along the onshore temporary construction corridor has been broken down into the different activities required. Each activity has then been assessed individually for its requirements.
- 6.1.6 The following key design assumptions have been determined for each activity:
 - duration of activity;
 - material and plant required at each work site;
 - length of haul road required;
 - approximate size of construction workforce; and
 - quantity of construction personnel and construction LGVs.
- 6.1.7 Construction traffic vehicle movements associated with the materials required at the onshore cable corridor and onshore substation have been determined based on the latest bill of quantities.



6.2 Total Construction Traffic Movements

- The approach considers a single onshore cable corridor from landfall through to a single onshore substation before connecting by a single onshore cable corridor into the existing substation.
- Table 6-1 presents all vehicle movements pertaining to onshore cable corridor and onshore substation construction, broken down by vehicle type and year. Note that movements are all presented as two-way totals, for example an HGV travelling from base to compound is counted as one movement, and then the HGV returning to its base is counted as one movement, (i.e. a total of two movements).
- 6.2.3 These total construction traffic estimates have been used as a basis for all peak assessment scenarios discussed within this TGTN.

Table 6-1 Two-way vehicle movement summary

Output	Year 1	Year 2	Year 3	Year 4	Total
Peak weekly traffic across the onshore part of the proposed DCO Order Limits – LGV	426	3,510	2,040	1,200	N/A
Peak weekly traffic across the onshore part of the proposed DCO Order Limits – HGV	338	1,146	1,022	1,498	N/A
Total Vehicle Movements – HGVs	4,318	33,790	22,664	8,732	69,504
Total Vehicle Movements – LGVs*	5,790	104,928	6,226	12,180	185,124

6.3 Construction Traffic Distribution

The traffic movements were distributed and assigned to a simplified road network diagram for each type of vehicle type, showing two-way movements in and out of the Study Area.

HGVs

6.3.2 HGV construction traffic consists of the delivery of materials or equipment directly to the work sites via the access points. The access strategy uses strategic roads as seen in **Table 6-2** for the longest part of the journey as detailed within the **Outline Construction Traffic Management Plan (CTMP) [APP-228]**.



Table 6-2 HGV construction traffic distribution

Route	Percentage
A27 West	27.59%
A27 East	20.69%
A23 North	27.59%
A23 South	24.14%
	100%

- The HGV Access Strategy has considered all local constraints, together with policies such as those set out in the West Sussex Transport Plan 2022-2036 (WSCC, 2022), to identify local HGV access routes for assessment purposes which are set out in **Table 6-3**.
- HGVs would seek to adhere to these routes wherever possible, with certain exceptions, for example, when materials are required to be delivered from a location along a different route (i.e. where it is not possible to follow the assigned routing). Additionally, there may need to be temporary deviations from the HGV routes in the event of an incident on the original route, leading police to redirect HGVs via an alternative route until the incident has been cleared.

Table 6-3 HGV access routes

Route	HGV access route	Accesses served
1	A27, A259, A284, Ferry Road	A-1
2	A27, A259, A284, Church Road	A-5
3	A27, A259, A284,	A-9
4	A27, A259, A284,	A-12, A-13, A-15, A-16
5	A27	A-21, A-22
6	A27, A280	A-26, A-28
7	A27, A280, A24, A283	A-33, A-35, A-39, A-40, A-41, A-42, A-43
8	A27, A283	A-43
9	A27, A280, A24, A283, B2135, Spithandle Lane	A-47



Route	HGV access route	Accesses served
10	A27, A280, A24, A283, B2135	A-48, A-50
11	A27, A280, A24, A283, A2037, A281	A-52
12	A27, A280, A24, A283, A2037, A281, B2116	A-53
13	A23, A272, A281, A27, A283, A2037	A-56, A-57
14	A27, A23, A24, A272	A-62, A-63
15	A27, A23, A24, A272, Kent Street	A-61, A-64
16	A27, A23, A24, A272, Wineham Lane	A-67, A-68

LGVs

- The local access routes from compound to access (indicated in **Figure 7.6.9a-c** of the **Outline CTMP** (Document Reference:7.6) and **Table 6-4**) have been used to determine the impact of LGV and HGV traffic on Receptors.
- This LGV routing allowed estimates to be generated of construction traffic flows for all links within the study area, which has then been used to assess the impact of the Proposed Development at identified sensitive receptors.

Table 6-4 LGV access routes

Local access route number	Route via local road network	Temporary construction and operational accesses served
Route 1	A27 - A284 - A259 - Ferry Road or Church Lane	A-01, A-05, A-09, A-13, A-15, A-16, A-20, A21.
Route 2	A27 - A280 - A24 - A283- B2135 – B2116	A-26, A-27, A-28, A-39, A-40, A-41, A-42, A-43, A-47, A-48, A-50, A-53, A-54.
Route 3	A23 - A272 - Wineham Lane or A272 - Kent Street (north of Access A-61 only) or A272 - A281	A-51, A-52, A-56, A-57, A-61, A-63, A-64, A-67, A-68, A-69.



- The LGV Access Strategy is based on a prediction of the construction traffic generation of all onshore elements of the Proposed Development. The construction traffic generation has been applied to the four-year construction schedule, which has resulted in construction vehicle movement predictions per vehicle type on a weekly basis per access point.
- 6.3.8 LGV construction traffic has been distributed onto the network using the following two methods:
 - LGV traffic (staff and other deliveries) This comprises staff driving from home to work at the Temporary Construction Compounds (TCC's), as well as occasional deliveries by LGV to the TCC's. In both cases the spatial distribution has been calculated using the 2011 journey to work census data for three local areas associated with the three sections of the onshore cable corridor of the Proposed Development as seen in Table 6-5.
 - LGV traffic by Multi-Occupancy Vehicle (MOV) (5 staff) LGV construction traffic then uses a circular route to drop off staff/materials between the TCC's and the proposed works sites via the access points along the onshore cable corridor. Given there are three compounds there are three circular routes as seen in Table 6-6.
- On this basis, LGVs (staff and deliveries) can use any routes to travel from their home to/from the compounds, there are no prescribed routes. However, three circular routes have been devised to transport staff/deliveries between the compounds and work sites in shared multi-occupancy vehicles.

Table 6-5 LGV construction staff traffic distribution

Entry / Exit points from highways	Construction staff traffic distribution by TCC / onshore substation			
network scope	Section 1	Section 2	Section 3	
A259 East	21%	3%	2%	
A284 South	33%	2%	1%	
A259 West	16%	3%	0%	
A23 North	1%	2%	17%	
A23 South	3%	3%	6%	
A24 North	3%	15%	21%	
A3021 south	4%	17%	9%	
A27 East	1%	2%	3%	
A27 West	9%	2%	0%	
A284 North	4%	1%	0%	



Entry / Exit points from highways	Construction staff traffic distribution by TCC / onshore substation			
network scope	Section 1	Section 2	Section 3	
A283 East	0%	12%	8%	
A283 North	0%	0%	0%	
A283 West	0%	29%	13%	
A272 East	1%	1%	9%	
A272 West	0%	2%	3%	
A270	3%	6%	6%	
A273	0%	0%	0%	
A2300	0%	0%	3%	
Total	100%	100%	100%	

Table 6-6 MOV circular construction routes

Temporary Construction Compound	LGV Multi-Occupancy Vehicle (MOV) circular access routes
Climping compound, off Church Lane	Church Lane (SB), Ferry Road, A259 (NB), A284 (NB), A27 (EB), A280 (NB), A24 (SB), A27 (WB), A284 (SB) A259 (SB), Church Lane (NB)
Washington compound, north of Washington, West Sussex (accessed from A283)	A283 (WB), A283 (EB), B2135 (NB), Spithandle Lane, B2135 (NB), B2116 (WB), A24 (SB), A283 (EB)
Oakendene west compound (accessed from A272)	Bolney Substation, Wineham Lane (NB), A272 (WB), Kent Street (SB) to A-61, Kent Street (NB), A272 (WB), A281 (SB), Wineham Lane (NB).

6.4 Construction traffic generation

This section details estimated number of construction vehicle movements, both Heavy Goods Vehicles (HGVs) and Light Goods Vehicles (LGVs) across the study area using the methodology defined in **Section 6.3**.



- 6.4.2 Construction traffic movements to and from each access have been provided by the project engineering team. These have then been combined with a series of assumptions around routes, occupancy and other relevant factors.
- For the purposes of this assessment, access to and from the onshore cable route is assumed through the access points as set out in **Table 6-7**.

Table 6-7 Total two-way construction movements by access

Access ID	Use	Total Two-Wa	y Movements	Comments in relation to ES Addendum		
		LGVs	HGVs			
A-01	Construction and operational	2178	1812	N/A		
A-02	Light construction	<10	0	10 LGVs included in peak week assessment		
A-03	Light construction	<10	0	10 LGVs included in peak week assessment		
A-05	Construction and operational	33900	9342	N/A		
A-08	Light construction	<10	0	10 LGVs included in peak week assessment		
A-09	Construction and operational	1026	1338	N/A		
A-12	Construction	456	878	N/A		
A-13	Construction and operation	Up to 480	Up to 562	Shared access with A-15		
A-14	Light construction and operational	<10	0	10 LGVs included in peak week assessment		
A-15	Construction and operational	Up to 480	Up to 562	Shared access with A-13		
A-16	Construction and operational	2358	3520	N/A		
A-20	Light Construction	<10	0	10 LGVs included in peak week assessment		
A-21	Construction	Up to 1500	Up to 2604	Access shared between		
A-22	Construction			A-21 and A-22		



Access	Use	Total Two-Wa	y Movements	Comments in relation to
ID		LGVs	HGVs	ES Addendum
A-24	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-25	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-26	Construction and operational	2238	4892	Access shared between A-26 and A-28
A-28	Construction			
A-33	Construction	1416	2646	N/A
A-35	Construction	60	160	N/A
A-37	Light construction	<10	0	10 LGVs included in peak week assessment
A-38	Light construction	<10	0	10 LGVs included in peak week assessment
A-39	Construction and operational	54546	7660	N/A
A-40	Construction and operational	966	1468	Access shared between A-40 and A-41
A-41	Construction and operational			
A-42	Construction and operational	192	318	N/A
A-43	Construction and operational	1728	3134	N/A
A-46	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-47	Construction and operational	648	900	N/A
A-48	Construction and operational	672	1416	N/A



Access	Use	Total Two-Wa	y Movements	Comments in relation to
ID		LGVs	HGVs	ES Addendum
A-49	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-50	Construction and operational	708	1248	N/A
A-52	Construction and operational	<10	1550	N/A
A-53	Construction	<10	0	10 LGVs included in peak week assessment
A-56	Construction and operational	780	1182	N/A
A-57	Construction and operational	1116	1816	N/A
A-61	Construction and operational	828	1320	N/A
A-62	Construction	16338	5778	N/A
A-63	Construction and operational	52254	11438	N/A
A-64	Construction and operational	468	892	N/A
A-66	Light construction and operational	<10	0	10 LGVs included in peak week assessment
A-67	Construction and operational	444	644	N/A
A-68	Construction	7182	986	N/A

Assumptions

- The following assumptions have been made to provide a high-level estimate of construction traffic:
 - for robustness, weekday traffic numbers have been calculated on the basis of dividing the weekly traffic by five working days per week;



- number of person-days all workers are assumed to travel to the onshore part
 of the proposed DCO Order Limits once per day via personal LVs (i.e. cars) with
 one worker per vehicle (i.e. no car sharing). This is a robust assumption for the
 purposes of the traffic assessment as, in practice, once the workforce becomes
 established, some degree of car sharing may take place;
- plant and equipment required to complete each construction activity will be stored on the various construction sites (along the onshore cable corridor) that form part of the onshore part of the proposed DCO Order Limits, as opposed to within TCC's. As a result, plant and equipment is associated with only two movements (access and egress) per temporary construction access point;
- all materials are brought directly to the construction sites that are part of the onshore part of the proposed DCO Order Limits, with exception of cement bound sand (CBS), cables and ducts, which will first be stored within TCCs; and
- LGV quantities assume up to five individuals per shared vehicle, and one individual per car arriving at TCCs;
- 2011 Census Journey to Work Data was used to estimate home (or temporary home) locations of the construction workforce, which was then sense checked. The results reflect a workforce which will both aim to encourage local employment as well as uptake of local accommodation by some workers sourced from further afield; and
- For robustness, for the purpose of the traffic analysis, all workers were assumed to travel by car and without car sharing taking place; in practice, there will be measures to encourage sustainable travel amongst the workforce, as set out in the Outline CWTP [APP-229] and Outline OTP [APP-227].
- All light construction accesses generate 10 LGV movements during the peak construction traffic week.
- Where optionality exits between use of accesses (e.g. A13/A15) all construction traffic uses whichever access results in a worst-case impact on nearby receptors.

6.5 ES Chapter 23 Peak Construction Scenarios

- Using the construction traffic generation assumptions contained within this TGTN the impact of the Proposed Development at its peak has been assessed in Chapter 32: ES Addendum, Volume 2 of the Environmental Statement (ES) [REP1-006] by comparing estimates of construction traffic generated by the Proposed Development with future predicted baseline traffic flows on the road links. This has been completed for different construction traffic scenarios to account for different construction activity peaks across the programme and along the onshore cable corridor as summarised in below:
 - Peak Week 70: Construction traffic associated with the peak week of four-year construction programme (as summarised in Table 23-36 of Chapter 32: ES Addendum, Volume 2 of the ES [REP1-006]:
 - The peak week has been obtained by calculating the total number of vehicle trips for all accesses in each week (regardless of whether the trips are LGV



or HGV). The peak week has been used to assess each individual receptor which may be impacted by construction traffic associated with that access, thereby offering both a consistent approach (since all traffic flows are from the same week) as well as a robust approach (since it is the peak week as calculated across the entire study area). This same method has been used to identify the peak weeks for each of the three sections outlined below.

- Section-based peak weeks: As part of the Proposed Development the entire onshore temporary cable corridor was split into three sections:
 - Section 1 runs north from landfall, across the A259, the River Arun and the two railway lines before crossing the A27 near the edge of the South Downs at Warningcamp. This section is rural but runs along the edge of the settlements of Littlehampton, Wick, Lyminster and Crossbush. The peak week for section 1 has been identified as week 72 of the construction programme;
 - Section 2 runs north east from the Section 1 boundary to a crossing of the A24 near Washington, West Sussex. Between the A27 and A24, the onshore cable corridor has minimal interaction with the local highways network and due to the nature of access options, will make use of a continuous haul road. The peak week for section 2 has been identified as week 83 of the construction programme; and
 - Section 3 runs from the Section 2 boundary along the A283 corridor before turning north east to Partridge Green and further East to Wineham/Bolney. This section is flat and rural in character but with more crossings of roads. The peak week for section 3 has been identified as week 125 of the construction programme
- Annual Average Weekday Traffic (AAWT) for year 1, 2, 3 and 4 of the construction programmes (as summarised in Table 23-38 of Chapter 32: ES Addendum, Volume 2 of the Environmental Statement (ES) [REP1-006].

6.6 ES Addendum Further Sensitivity Tests

A further sensitivity test has been undertaken which assesses the peak week for construction traffic at each receptor. The week used to assess the impact has been based on the peak week in total construction traffic and the peak week of HGV construction traffic. Whilst recognising that this is an unrealistic scenario in practice due to those weeks occurring at different weeks in the programme, it enables the worst case for each receptor to be considered. A summary of the methodology used as part of this additional sensitivity test and the outcomes of the assessment are outlined below.

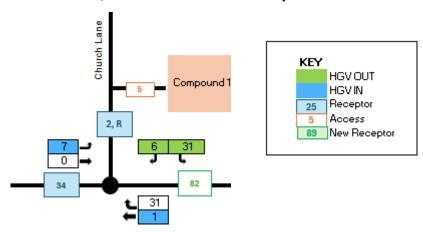
Total Construction Traffic Peak

This assignment exercise was used to calculate peak construction traffic flows (two-way movements) by access, for each type of construction vehicle (LGVs, LGV MOVs and HGVs) for each week of the construction programme. This produced 612 separate road network diagrams (204 for LGV, 204 for LGV MOV and 204 for HGV) one for each week of the construction programme **Graphic 6-1**



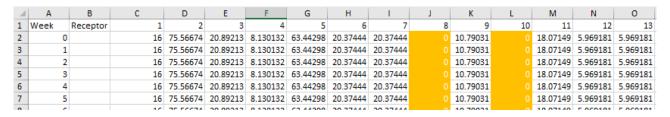
shows an excerpt from the Week 2 road network diagram, which shows 12 oneway movements, or 24 two-way movements pass Receptor 2 on Church Lane

Graphic 6-1 Week 2, Total Peak Week excerpt from network diagram



From these network diagrams, three separate matrices showing two-way movements (using the turning movements either side of each receptor) have been developed for LGVs, LGV MOVs and HGVs by week and receptor. These three matrices have then been summed to provide a matrix for the Total vehicles (HGV+LGV+LGV MOV) for each week as seen in the example in **Graphic 6-2** and the cumulative impact on each receptor.

Graphic 6-2 Total vehicles on a week-by-week basis



This total has then been used to determine the peak week for each receptor as seen in **Graphic 6-3**. For example, Receptor 6 the peak Week is 72. Therefore, the peak impact at Receptor 6 in Week 72, is 227 HGVs and 462 LGVs (128 LGVs + 334 LGV MOVs).

Graphic 6-3 Impact Assessment based on Total peak week

	Total					HGV	LGV	MOV	LGV+MOV
Receptor	Value	Week Start	Week End	Week Start	Week End	Value	Value	Value	Value
1	469	70	70	70	70	160	0	309	309
2	1837	72	72	72	72	256	1247	334	1581
3	436	72	72	72	72	0	436	0	436
4	441	162	162	162	162	403	38	0	38
5	1559	72	72	72	72	227	998	334	1332
6	690	72	72	72	72	227	128	334	462
7	690	72	72	72	72	227	128	334	462
_	_	_	224	_		_	_	_	_



HGV Construction Traffic Peak

Similarly, a sensitivity test has also been undertaken using the HGV peak week as seen in **Graphic 6-4**. For example, Receptor 6 the peak Week is 83. Therefore, the peak impact at Receptor 6 in Week 83, is 248 HGVs and 281 LGVs (59 LGVs + 222 LGV MOVs).

Graphic 6-4 Impact Assessment based on HGV peak week

	HGV					HGV	LGV	MOV	LGV+MOV
Receptor	Value	Week Start	Week End	Week Sta	r Week End	Value	Value	Value	Value
1	160	70	70	7	70	160	0	309	309
2	274	158	158	15	3 158	274	8	52	60
3	0	0	204		204	0	3	0	3
4	376	162	162	16	162	376	2	0	2
5	248	83	83	8	83	248	64	222	286
6	248	83	83	8	83	248	59	222	281
7	260	162	162	16	162	260	7	75	82
8	0	0	204		204	0	0	0	C
9	376	162	162	16	162	376	2	0	2

- Importantly, this methodology shows individual peak week construction traffic flows for each receptor, meaning that peaks at each receptor do not necessarily happen in the same week. For example, as seen in **Graphic 6-4** Receptor 1 (Ferry Road) the peak week is Week 70, whilst the peak week for Receptor 7 (A284 North of Wick) is Week 162. This ensures that a worst-case assessment is completed for all identified receptors within the Study Area.
- The estimates within this TGTN have been calculated against a conservative set of assumptions based on the best available information on the onshore works within the proposed DCO Order Limits. The final arrangement of the construction works, and precise methods used will be determined during the detailed design stage and the construction phase of the works depending on the working arrangements favoured by the appointed contractor(s). These factors will influence the number of vehicle movements and the personnel requirements.
- Based on the methodologies described above for LGVs (staff and deliveries) and HGVs, **Table 6-8** presents the LGV and HGV peak week movements at each construction access and **Table 6-9** presents the LGV and HGV movements (two-way total) for each receptor location.
- In viewing **Table 6-8** it should be noted that the peak construction traffic week occurs at different accesses during different weeks of the construction programme, and that the HGV and overall total peaks may be on different weeks. Further details of when the peak construction week occurs at each access, and an estimate of the length of time that construction traffic flows remain above 90%, 75%, and 50% of this peak is included in Annex C.



Table 6-8 Peak weekly movements by access

Access	Peak Total Weekly Two-way Movements						
ID	F	IGVs	Total	vehicles			
	Number	Peak Weeks	Number	Peak Weeks			
A-01	160	70	244	70-71			
A-02	N/A	N/A	10	N/A			
A-03	N/A	N/A	10	N/A			
A-05	274	158	1498	72			
A-08	N/A	N/A	10	N/A			
A-09	232	161	244	161			
A-12	234	162	246	162			
A-13	130	64	226	64			
A-14	N/A	N/A	10	N/A			
A-15		uction traffic routed ugh A-13	10	N/A			
A-16	218	164-166	282	68, 70			
A-20	N/A	N/A	10	N/A			
A-21	196	161-163	224 61				
A-22							
A-24	N/A	N/A	10	N/A			
A-25	N/A	N/A	10	N/A			
A-26	244	161-166	310 70-				
A-28							
A-33	254	85-87	302	85-87			
A-35	76	60, 88	88	60, 88			
A-37	N/A	N/A	10	N/A			
A-38	N/A	N/A	10	N/A			



Access	Peak Total Weekly Two-way Movements							
ID	H	HGVs	Total	vehicles				
	Number	Peak Weeks	Number	Peak Weeks				
A-39	266	114-117	1656	83				
A-40	160	158-159	222	116				
A-41								
A-42	78	106, 161	128	122-123				
A-43	236	162-164	248	162-164				
A-46	N/A	N/A	10	N/A				
A-47	160	157	172	157				
A-48	198	158-159	210	158-159				
A-49	N/A	N/A	10	N/A				
A-50	172	160-161	196	90				
A-52	242	162-163	10	N/A				
A-53	N/A	N/A	242	162-163				
A-56	150	98	198	98				
A-57	188	158-159	222	111				
A-61	142	160-161	154	160-161				
A-62	326	124	866	125				
A-63	336	83-90	900	83-90				
A-64	274	162	286	162				
A-66	N/A	N/A	10	N/A				
A-67	170	163	186	125				
A-68	92	127-129	272	127-129				



Table 6-9 Onshore construction traffic impact per receptor

Link No	Location	Total Peak Week Construction Traffic (per weekday)		HGV Peak W Construction Tra weekday	affic (per
		Total Vehicles	HGVs	Total Vehicles	HGVs
1	Ferry Road	94	32	94	32
2	Church Lane	367	51	104	55
3	Ford Road	87	0	4	0
4	A27, West of Arundel	88	81	88	81
5	A259, West of Wick	312	45	232	50
6	A284, North of Wick	138	45	132	50
7	A284 Lyminster	138	45	74	52
9	A27, Arundel Station	91	81	91	81
11	A27, South of Crossbush	186	105	128	108
12	A27 High Salvington	128	123	128	123
13	A24/A27 Offington (Warren Road)	128	123	128	123
14	A24 Findon	75	0	2	0
15	A280 Long Furlong	118	108	118	108
16	A283 West of A24	203	51	203	51
17	A283 East of A24	411	12	124	59
18	B2135, South of Ashurst	64	24	42	34
19	A283, Steyning	102	54	90	63
20	A24, South of A272	139	19	120	39



Link No	Location	Total Peak V Construction Tra weekday	affic (per	HGV Peak W Construction Tra weekday	affic (per
		Total Vehicles	HGVs	Total Vehicles	HGVs
21	B2116 Patridge Green Road	4	0	0	0
22	A281, South Shermanbury	79	48	79	48
23	A281, South of Cowfold	59	0	45	12
24	A281, Cowfold Centre	168	32	155	39
25	A272, Station Road, Cowfold	168	32	155	39
26	Wineham Lane, South of A272	70	41	70	41
27	A272, West of A23	214	85	212	101
28	A23, North of the A272	110	83	110	83
29	B2188, Sayers Common*	0	0	0	0
30	B2116, Henfield Road, Albourne*	0	0	0	0
31	A23, North of the A272	109	93	109	93
32	A27, West of A23	141	95	139	131
33	A27, East of A23	92	47	80	62
34	A259, West of Church Street	76	17	63	18
35	A259, East of Wick	96	0	4	0

Table 6-10 provides the HGV and LGV movements generated by construction at each of the new receptors identified within Chapter 32: ES Addendum of the ES (Document Reference: 6.2.32).



Table 6-10 Onshore construction traffic impact per new receptors

Link No	Location	Total Pea Construction week	Traffic (per	HGV Peak Constructio (per wee	n Traffic
NO		Total Vehicles	HGVs	Total Vehicles	HGVs
Α	B2139, Coolham Road	13	0	0	0
В	A272, West Chiltington Lane, Pound Lane, Shipley Road	13	0	0	0
С	A272, Cowfold Road	168	32	155	39
D	B2135, Steyning Road, East of Park Lane	41	0	1	0
E	A272, Bolney Road, East of A281, North of Oakfield Road	225	32	204	39
F	A272, Cowfold Road West of the A23	214	85	212	101
G	A281, North of Woodside Close	59	0	45	12
н	B2135 / B2116 High Street, Partridge Green	4	0	0	0
I	A281, Brighton Road, North of Partridge Green Road	59	0	45	12
J	Wineham Lane	28	0	0	0
K	B2118, East of B2116 Henfield Road*	0	0	0	0
L	B2135, North of Spithandle Lane	44	6	28	20



Link No	Location	Total Pea Construction week	Traffic (per	HGV Peak Constructio (per wee	n Traffic
NO		Total Vehicles	HGVs	Total Vehicles	HGVs
M	A281, High Steet, Henfield	64	48	64	48
N	A281, Brighton Road*	0	0	0	0
0	A283 Storrington Road, Northeast of Sullington Lane	203	51	203	51
Р	Michelgrove Lane	62	40	51	49
Q	A284, Lyminster Road	138	45	74	52
R	Church Lane, North of the A259	367	51	104	55
S	Ford Road, Station Road*	87	0	4	0
Т	Ford Road	87	0	4	0
U	Kent Street**	60	55	60	55

^{*} zero values highlight receptors that were identified but are not anticipated to be used by construction traffic associated with the Proposed Development

^{**} to provide a robust assessment peak week flows for Kent Street have been based upon peak flows associated with construction access A-64.



7. Operation and maintenance traffic generation

7.1 Overview

- The operational lifetime of the Proposed Development is expected to be around 30 years. Taking place after commissioning of the Proposed Development, operation and maintenance activities can be divided into three main categories:
 - scheduled maintenance;
 - unscheduled maintenance; and
 - special maintenance in the event of major equipment breakdown and repairs.

7.2 Traffic generation

- Maintenance of the onshore cable is expected to be minimal. During operation and maintenance, periodic testing of the cable is likely to be required (every two to five years). This will require access to the link boxes at defined inspection points along the onshore cable route. This will involve attendance by up to three light vehicles, such as vans, in a day at any one location. The vehicles will gain access using existing field accesses and side accesses as agreed with landowners to reach the relevant sections of the onshore cable.
- Monitoring of the onshore substation will be done remotely using CCTV technology and other remote monitoring equipment. The security fencing installed during construction will remain in place. Certain areas of the onshore substation will have permanent light fittings; however, these lights will only be used when required for unscheduled maintenance or emergency repair purposes.
- Unscheduled maintenance or emergency repair visits will typically involve a very small number of vehicles, typically light vans. Infrequently, equipment may be required to be replaced, then the use of an occasional HGV may be utilised, depending on the nature of the repair.
- Inspection and minor servicing may be required for the electrical plant, but it is anticipated that the substation will require minimal scheduled maintenance and operation activities.
- 7.2.5 Impacts on National Parks from traffic generated from Newhaven Port in Study Area 2 has been considered.
- During the operation and maintenance phase, it is currently estimated that 40-50 full time staff will be required per day. For the purposes of assessment in this chapter, it is proposed to assess a worst case of 50 staff per day into and out of East Quay, Newhaven Port, which currently accommodates the existing Rampion 1 project operation and maintenance facility.



For the daily traffic generation, it is assumed that all staff arrive by private car with no car sharing or use of sustainable modes. This results in 100 two staff vehicle movements per day, the impacts of which on the local highways network are assessed in of **Chapter 23: Transport, Volume 2** of the ES [APP-064].

7.3 Traffic distribution

- The traffic is proposed to be distributed following the same approach as staff traffic for the construction phase and using journey to work data. An assessment of journey to work data based on the existing port indicates the following distribution of traffic and where it will leave Study Area 2:
 - A259 West (Newhaven) 30.58%;
 - A259 East 37.79%;
 - A27 West 18.64%; and;
 - A27 East 12.99%.
- 7.3.2 Figure 23.21a-d, Volume 3 of the ES [APP-064] sets out the daily traffic impacts on the local highways network and the location of the highways links affected is set out in Figure 23.22, Volume 3 of the ES [APP-064].
- The impacts on National Parks from operational and maintenance traffic from Newhaven have been considered in Study Area 2.

Table 7-1 Onshore operation and maintenance traffic percentage impact per highways link – Study Area 2

Highway Link	Future Year Ba	se Traffic (2030)		aff Traffic (per ay)
	Total Vehicles	HGVs	Total Vehicles	HGVs
1 - McKinley Road	3055	265	100	0
2 - A26 South Heighton	18722	1454	32	0
3 - A26 Beddingham	18722	1454	32	0
4 - A27 West of A26	40726	2205	32	0
5 - A26 East of A25	29199	1257	19	0



8. Decommissioning traffic generation

8.1 Onshore decommissioning

Onshore cable

- 8.1.1 It is anticipated that the onshore electrical cables will be left in-situ with ends cut, sealed and buried to minimise environmental effects associated with removal.
- The only onshore element of the Proposed Development that will require to be removed in the decommissioning phase is the onshore substation and therefore only a small part of Study Area 1 will be affected by decommissioning traffic.

Onshore substation

- The onshore substation may be used as a substation site after decommissioning of the Proposed Development or it may be upgraded for use by another offshore wind project. This will be subject to a separate planning application.
- Should the onshore substation need to be decommissioned fully, however, the decommissioning works are likely to be undertaken in reverse to the sequence of construction works and involve similar levels of equipment. All relevant sites will be restored to their original states or made suitable for an alternative use.
- 8.1.5 The decommissioning duration of the onshore infrastructure may take a comparable amount of time as construction of the Proposed Development, up to four years, although this indicative timing may reduce.
- The calculations indicate that the peak week of the construction of the onshore substation will result in a peak traffic week that comprises:
 - 76 two-way HGV movements during temporary compound construction;
 - 36 two-way LGV movements during temporary compound construction;
 - 2 onshore substation two-way HGV movements;
 - 120 onshore substation two-way HGV movements; and
 - Total two-way vehicle movements: 196 HGV and 38 LGV per week
- This will result in the following daily traffic which have informed the assessment in **Chapter 23: Transport, Volume 2** of the ES **[APP-064].**
 - 39 two-way HGVs; and
 - 8 two-way LGVs.
- Distribution of this traffic during the decommissioning phase has been based on the same distribution patterns as the construction phase as set out in Table 6-2 and Table 23-27 of the Chapter 23: Transport, Volume 2 of the ES [APP-064].



- 8.1.9 It is considered that the decommissioning of the onshore substation will require the same levels of traffic generation as the construction phase and therefore the peak construction traffic generation of the construction phase will be used as a basis for assessment.
- Therefore, using Oakendene onshore substation as the basis for assessment and the traffic distribution used for construction. It is considered that only Highway link 27 located on the A272, West of A23 will require assessment for the decommissioning phase, given the logical HGV routes from the SRN.
- Unlike the assessment for the construction phase, Highways link (27) that requires assessment would only have to accommodate traffic associated with the onshore substation decommissioning and not the traffic associated with the onshore cable decommissioning as the onshore cable will be left in situ. As such traffic at this highways link will be less than set out in the assessment for the construction phase at these two links as the additional cable related traffic in the construction phase would not be present in the decommissioning phase. An assessment has still been provided for robustness due to the different future year for the decommissioning phase.
- 8.1.12 Table 8-1 shows the anticipated traffic impact during the decommissioning stage, which is de minimis.

Table 8-1 Onshore substation decommissioning traffic percentage impact per highways link

Highway Link	Future Year Base	Traffic (2051)	Peak Week Staf day	\ •
	Total vehicles	HGVs	Total vehicles	HGVs
27 - A272, West of A23	21414	1069	156	48

Offshore

- The offshore decommissioning phase has been scoped out of further assessment as it is proposed that only above several elements of the Proposed Development are removed such as the offshore substations and WTGs. As such, the onshore traffic generation is expected to be significantly lower than the construction phase.
- As with the construction phase, the works required to decommission the offshore elements of the Proposed Development are likely to be undertaken from a few ports across Europe and the UK, and as such the impacts on UK roads will be mitigated by this construction strategy. Based on the above, the offshore decommissioning phase has been scoped out of the assessment.



9. Glossary of terms and abbreviations

Term (Acronym)	Definition
AADF	Annual average weekday flow
AAWT	Annual average weekday traffic
CBS	cement bound sand
СМВ	construction management base
FOC	Fibre Optic Cable
ha	hectare
HDD	horizontal directional drill
HGV	Heavy Goods Vehicle
HVAC	High Voltage Alternating Current
ID	identification
JB	joint bay
kg	kilogram
Km	kilometre
kV	kilovolt
LGV	Light Goods Vehicle
m	metres
mm	millimetres
Preliminary Environmental Information Report (PEIR)	The written output of the Preliminary Environmental Impact Assessment undertaken for the Proposed Development. It was developed to support Statutory Consultation and presented the preliminary findings of the assessment to allow an informed view



Term (Acronym)	Definition
	to be developed of the Proposed Development, the assessment approach that was undertaken, and the preliminary conclusions on the likely significant effects of the Proposed Development and environmental measures proposed.
TCC	temporary construction compound
TJB	transition joint bay



10. References

CrashMap, (2021). *Crashmap*. [online]. Available at: https://www.crashmap.co.uk/ [Accessed 4 April 2023].

Department for Transport (DfT), (2022). *DfT Circular 01/2022 Strategic Road Network and the Delivery of Sustainable Development, Page 1-23.* [online]. Available at: <u>Strategic road network and the delivery of sustainable development - GOV.UK (www.gov.uk)</u> [Accessed 4 April 2023].

Department for Transport (DfT), (2021). *RAS0302 Reported road collision rates by severity, road type and class, Great Britain, ten years up to 2021*https://www.gov.uk/government/statistical-data-sets/reported-road-accidents-vehicles-and-casualties-tables-for-great-britain#road-type-ras03 [online]. Available at: [Accessed 4 April 2023].

Department for Transport (DfT), (2020). *Road Traffic Statistics*. [online]. Available at: https://roadtraffic.dft.gov.uk/#6/55.254/-6.053/basemap-regions-countpoints [Accessed 4 April 2023].

Department for Transport (DfT), (2021). Quarterly traffic estimates (TRA25), TRA2501: Road traffic (vehicle miles) by vehicle type in Great Britain. [online]. Available at: https://www.gov.uk/government/statistical-data-sets/tra25-quarterly-estimates [Accessed 30 June 2021].

Department for Transport (DfT), (2022). *Road Safety Data*. https://www.data.gov.uk/dataset/cb7ae6f0-4be6-4935-9277-47e5ce24a11f/road-safety-data [online]. Available at: [Accessed 4 April 2023].

Department of Energy and Climate Change (DECC), (2011). Overarching National Policy Statement for Energy (EN-1). [online]. Available at:

https://assets.publishing.service.gov.uk/government/uploads/system/uploads/attachment_data/file/47854/1938-overarching-nps-for-energy-en1.pdf [Accessed 4 April 2023].

E.On/RSK Environmental Ltd, (2012). *Rampion Offshore Wind Farm, Environmental Statement, RSK, Section 29 Transport.* [online]. Available at: https://www.rampionoffshore.com/environmental-statement/ [Accessed 4 April 2023].

Google, (2021). *Google Maps and Google Traffic*. [online]. Available at https://www.google.co.uk/maps/ [Accessed 4 April 2023].

Horsham District Local Council, (2019). *Draft Horsham District Local Plan 2019-2036*. [online]. Available at:

https://strategicplanning.horsham.gov.uk/LocalPlanReview/viewCompoundDoc?docid=103 36756 [Accessed 4 April 2023].

Institute of Environmental Assessment (IEA), (1993). Guidance Note 1 – Guidelines for the Environmental Assessment of Road Traffic.

Mid Sussex District Council, (2018). *Mid Sussex District Plan 2014 – 2031, Pages 78-79*. [online]. Available at: https://www.midsussex.gov.uk/media/2367/district-plan-adoption-version.pdf [Accessed 04 April 2023].



Ministry of Housing Communities and Local Government, (2021). National Planning Policy Framework, pages 31-32. [online]. Available at:

https://www.gov.uk/government/publications/national-planning-policy-framework--2 [Accessed 04 April 2023].

Office for National Statistics, (2011). Nomis Official Labour Market Statistics. [online] Available at https://www.nomisweb.co.uk/ [Accessed 04 April 2023].

Owen Williams Consultants, (1996). Newhaven Port Access Road - Site Plan, East Sussex County Council, Drawing 5A928/12/2. [online]. Available at: https://www.eastsussex.gov.uk/roadsandtransport/roads/roadschemes/newhaven-port-

Planning Inspectorate (PINS). (2020a). Scoping Opinion: Proposed Rampion 2 Offshore Wind Farm. Case Reference EN010117, [online]. Available at:

https://infrastructure.planninginspectorate.gov.uk/wp-

access-road/scheme-details/ [Accessed 04 April 2023].

content/ipc/uploads/projects/EN010117/EN010117-000045-EN010117 Scoping

Opinion.pdf [Accessed 04 April 2023].

Planning Inspectorate, (2020b). Advice Note Seven: EIA: Process, Preliminary Environmental Information, and Environmental Statements (Version 7). [online]. Available at: https://infrastructure.planninginspectorate.gov.uk/legislation-and-advice/advicenotes/advice-note-seven-environmental-impact-assessment-process-preliminaryenvironmental-information-and-environmental-statements/ [Accessed 04 April 2023].

Rampion Extension Development Limited (RED), (2020). Rampion 2 Offshore Wind Farm - Environmental Impact Assessment Scoping Report, [online]. Available at: https://infrastructure.planninginspectorate.gov.uk/wpcontent/ipc/uploads/projects/EN010117/EN010117-000006-EN010117%20-%20Scoping%20Report.pdf [Accessed 04 April 2023].

Standards for Highways, (2020). Design Manual for Roads and Bridges. [online]. Available at: https://www.standardsforhighways.co.uk/dmrb/ [Accessed 04 April 2023].

Sustrans, (2021). Sustrans National Cycle Network Map. [online]. Available at: https://www.sustrans.org.uk/national-cycle-network [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2022), West Sussex Transport Plan 2022-2036, Pages 26-29, 35, 44, 50-51. https://www.westsussex.gov.uk/media/17428/wstp.pdf [online]. Available at: [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2020a). West Sussex Walking and Cycling Strategy 2016-2026, Pages 1-52. [online]. Available at:

https://www.westsussex.gov.uk/media/9584/walking_cycling_strategy.pdf [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2020b). Permanent Automatic Traffic Counts. [online]. Available at: https://www.westsussex.gov.uk/roads-and-travel/trafficmanagement/traffic-counts/ [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2021a). iMap. [online]. Available at: https://www.westsussex.gov.uk/land-waste-and-housing/public-paths-and-thecountryside/public-rights-of-way/public-rights-of-way-imap/imap/ [Accessed 04 April 2023].

West Sussex County Council (WSCC), (2021b). Bus routes and timetables. [online]. Available at: https://www.westsussex.gov.uk/roads-and-travel/travel-and-public-



<u>transport/bus-and-coach-travel/plan-your-journey/bus-routes-and-timetables/</u> [Accessed 04 April 2023].

Worthing Borough Council, (2023). *Local Plan 2020 – 2036, Page 149-150*. [online]. Available at: https://www.adur-worthing.gov.uk/media/Media,169486,smxx.pdf [Accessed 04 April 2023].



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Annex A Traffic calculations



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4 166 152 4 167 153	0 10 1	0 0 144	0 0	10 0 10 0	0 0	0 0	0	10	10 1	0 0	0	0 10	0 (0 0	10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10	0	0 0	0 0	0	0	0	0	0	0	480 480	0	0 10	0	120	0
168 154 169 155	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10	10	0 0	0	0 10	0 (0 0	10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	480 480	0	0 10 0 10	0	120	0
170 156 171 157	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10	10	0 0	0	0 10	0 (0 0	10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
4 172 158 4 173 159	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10	10	0 0	0	0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10	0	0	0
4 174 160 4 175 161	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10	10	0 0	0	0 10	0 (0 0	10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
4 176 162 4 177 163	0 10 1 0 10	0 0 0	0 0	10 0 10 0	0 (0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
178 164 179 165	0 10 1 0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10	10	0 0	0	0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10	0	0	0
180 166 181 167	0 10 1	0 0 0	0 0	10 0	0 (0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10 10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
182 168 183 169	0 10 1	0 0 0	0 0	10 0	0 0	0 0	0	10	10	0 0	0	0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
184 170 185 171	0 10 1	0 0 0	0 0	10 0	0 (0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10 10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
186 172 187 173	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10	10	0 0	0	0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
188 174 189 175	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10 10	0	0 0	0	0	0	0	0	0	0	0	0	0 10	0	0	0
190 176 191 177	0 10 1 0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10 10	0 0	10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
192 178 193 179	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
194 180 195 181	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10 10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
196 182 197 183	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10 10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
198 184 199 185	0 10 1	0 0 0	0 0	10 0 10 0	0 (0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10 10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
200 186 201 187	0 10 1	0 0 0	0 0	10 0 10 0	0 0	0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10	0 0	10 10	0	0 0	0 0	0	0	0	0	0	0	0	0	0 10 0 10	0	0	0
202 188	0 10 1	0 0 0	0 0	10 0 10 0	0 (0 0	0	10 10	10	0 0	0	0 10 0 10	0 (0 0	10 10 10 10	0	0 0	0	0 0	0	0	0 0	0 1	10 10 10 10	0	0	0	0	0	0	0 10	0	0	10 10	0 0	10 10	0	0 0	0	0	0	0	0	0	0	0	0	0 10	0	0	0
4 204 190	0 10 1 2178 1900 19		0 0	10 0 1900 1026	0 (0 0 456	0 480	10 1900	10 1900 23	0 0 358 154	0 86 0	0 10 0 1900	0 1728	0 0	10 10 1900 190	0 0 2238	0 0	0	0 0 0 1116	0 1	416	0 0	0 1	10 10 900 1900	0 54546	0 966	0	0 192	0 1728	0	0 10 0 1900	0 648	0 672	10 1900 7	0 0	10 1900	0	0 0	780	0 1116	0 6 0	0	0	0 828 1	0 6338 5	0 2254 4	0 468	0 10 0 190	0 0 444	0 7182	0
Year 1	6 480	480 0 298	8 0 0	480 78	0	0 72	2 48	480	480	366	0 0	0 480	384	0 0	480 48	18	0	0 0	0 0	0	60	0 3	6 0 4	480 480	522	18	0	0	0	0	0 480	12	0	480	0	480	0	0 0	0	0	0	0	0	300	864	0	0	0 480	0	0	0
Year 1 Year 2 Year 3 Year 4	6 480 1956 470 204 480	470 0 2878 480 0 33	B 0 0 6 0 0	470 924 480 0	0	0 360	0 408	470 480	470 1 480	0	0 0	0 470 0 480	1080	0 0	470 47 480 48	0 2100	0	0 0	0 0	0	1356	0 2	4 0 4 0 0 4	480 480 470 470 480 480	37140 15864	108 804	0	36 144	36 1632	0	0 470 0 480	60 564	84 564	480 470 3 480 3	72 0 12 0	470 480	0	0 0	360	0 336 2 756		0	0	72 5 432 9	094 2 0444 2	1678 2 4336 2	252 204	0 480 0 470 0 480 0 480	288	0 5622	0
Year 4	12 480	480 0 178	0 0	480 24	0	0 24	4 24	480	480	72	0 0	0 480	36	0 0	480 48	0 120	0	0 0	0 0	0	0	0 0	0 0 4	480 480	1020	36	0	12	60	0	480	12	24	480	4 0	480	0	0 0	48	24	0	0	0	24	936	5240	12	0 480	12	1560	0

Peak Week

		l	В	Base Traffic	- Historic Cou	unts		Growth Ra	-4- 4- 2024	2	021 Base Yea	ar of Assessme	ent	I	Future	Growth Rat	e to Future Year (2021 -	Fu	uture Year of A	ssessment		I	Peak Develo	pment Traffic	0	Fu	uture Year + [evelopment P	eak	Development Traffic % Impac	act (2026/27)
ı		24 l	Hour	18	3 Hour			Growth Ka	ate to 2021	24	Hour	18	Hour	Peak Week	Assessment		2026/27)	24 Hot	ur	181	Hour	24 l	lour	18	Hour	24	Hour	18	Hour	24 Hour	
EIA								Total						I cak week	Year	Total														(
Receptors	Receptor Location	Total	HGV	Total	HGV	peed (85th	% Base Year	Vehicles	HGVs	Total	HGV	Total	HGV		rear	Vehicles	HGVs	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV
1	Ferry Road		202	2 ATC		60.0	2022			1925	314	1907	310	83	2026	1.075	1.075	2069	338	2049	334	62	18	62	18	2131	355	2111	351	3.0%	5.2%
2	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	83	2026	1.075	1.075	11238	1221	10993	1183	935	46	935	46	12173	1267	11928	1229	8.3%	3.8%
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	83	2026	1.075	1.075	6672	274	6499	257	290	0	290	0	6963	274	6790	257	4.4%	0.0%
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	83	2026	1.075	1.075	26154	1410	25228	1255	167	35	167	35	26321	1445	25394	1290	0.6%	2.5%
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	83	2026	1.075	1.075	24805	928	12273	876	786	50	786	50	25591	977	13058	926	3.2%	5.3%
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	83	2026	1.075	1.075	14671	597	14151	531	284	50	284	50	14954	646	14435	581	1.9%	8.3%
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	83	2026	1.075	1.075	15000	750	14478	705	284	50	284	50	15284	799	14762	754	1.9%	6.6%
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	83	2026	1.075	1.075	36249	1747	34965	1554	204	35	204	35	36453	1782	35169	1590	0.6%	2.0%
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	83	2026	1.075	1.075	35365	1903	34112	1693	400	90	400	90	35765	1993	34513	1784	1.1%	4.8%
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	83	2026	1.079	1.075	25323	1000	24426	890	150	67	150	67	25473	1067	24576	957	0.6%	6.8%
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	83	2026	1.079	1.075	34218	1096	33006	975	150	67	150	67	34369	1164	33157	1043	0.4%	6.2%
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	83	2026	1.079	1.075	29019	685	27991	609	375	0	375	0	29393	685	28366	609	1.3%	0.0%
15	A280 Long Furlong		202	2 ATC		40.0	2022			18580	3653	17883	3479	83	2026	1.079	1.075	20044	3927	19292	3740	289	41	289	41	20333	3968	19581	3781	1.4%	1.0%
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	83	2026	1.079	1.075	24434	812	23764	787	665	5	665	5	25099	817	24429	792	2.7%	0.6%
17	A283 East of A24		202	2 ATC		52.60	2022			11430	2326	11295	2292	83	2026	1.079	1.075	12331	2501	12185	2464	1579	12	1579	12	13910	2513	13764	2477	12.8%	0.5%
18	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	83	2026	1.079	1.075	3829	114	3778	113	77	24	77	24	3907	138	3856	137	2.0%	21.5%
19	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	83	2026	1.079	1.075	22776	633	22491	617	323	25	323	25	23099	658	22815	642	1.4%	3.9%
20	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	83	2026	1.079	1.075	39448	1772	37792	1604	622	19	622	19	40070	1791	38414	1623	1.6%	1.0%
21	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	83	2026	1.079	1.075	7087	392	6964	382	21	0	21	0	7108	392	6985	382	0.3%	0.0%
22	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	83	2026	1.079	1.075	8728	372	8629	365	87	2	87	2	8814	374	8716	367	1.0%	0.5%
23	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	83	2026	1.079	1.075	6761	153	6521	136	93	1	93	1	6854	153	6615	137	1.4%	0.4%
24	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	83	2026	1.079	1.075	24892	1073	24011	955	450	19	450	19	25343	1092	24461	974	1.8%	1.7%
25	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	83	2026	1.079	1.075	18794	807	18128	718	450	19	450	19	19244	825	18579	737	2.4%	2.3%
26	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	83	2026	1.079	1.075	948	17	915	15	15	0	15	0	963	17	929	15	1.5%	0.0%
27	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	83	2026	1.079	1.075	18777	784	18112	698	442	49	442	49	19219	833	18554	747	2.4%	6.3%
28	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	83	2026	1.079	1.075	79933	4358	77101	3878	214	54	214	54	80146	4412	77315	3932	0.3%	1.2%
29	B2188, Sayers Common		202	2 ATC		37.6	2022			7356	1497	7212	1461	83	2026	1.079	1.075	7936	1609	7780	1571	0	0	0	0	7936	1609	7780	1571	0.0%	0.0%
30	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	83	2026	1.079	1.075	3499	161	3375	144	0	0	0	0	3499	161	3375	144	0.0%	0.0%
31	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	83	2026	1.079	1.075	87401	3377	84305	3005	215	65	215	65	87616	3442	84520	3070	0.2%	1.9%
32	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	83	2026	1.079	1.075	72343	2622	69781	2333	349	78	349	78	72692	2700	70130	2411	0.5%	3.0%
33	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	83	2026	1.079	1.075	79131	3089	76328	2749	287	41	287	41	79418	3130	76615	2789	0.4%	1.3%
34	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	83	2026	1.075	1.075	28609	594	27596	528	241	18	241	18	28850	612	27837	546	0.8%	3.1%
35	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	83	2026	1.075	1.075	27415	508	26444	452	359	0	359	0	27774	508	26803	452	1.3%	0.0%

Section 1

				Base Traffic - I	Historic Cour	nts				2	021 Base Ye	ar of Assessm	ent		Euton	Growth Rate	to Future Year (2021 -	Fu	uture Year of A	ssessment			Peak Develo	opment Traffic	:	F	uture Year + D	evelopment P	eak	Development Traff	ic % Impact (2026/27)
		24	Hour	181	Hour			Growth R	ate to 2021	24	Hour	18	Hour	Peak Week	Future	1	2026/27)	24 Hou	ur	18 H	lour	24 H	lour	18	Hour	24	Hour	181	Hour	24	Hour
EIA						1		Total						Peak Week	Assessment	Total															
Receptors	Receptor Location	Total	HGV	Total	HGV	peed (85th	% Base Year	Vehicles	HGVs	Total	HGV	Total	HGV		Year	Vehicles	HGVs	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV
1	Ferry Road		202	22 ATC		60.0	2022			1925	314	1907	310	72	2026	1.075	1.075	2069	338	2049	334	78	12	78	12	2147	349	2127	345	3.8%	3.4%
	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	72	2026	1.075	1.075	11238	1221	10993	1183	1365	51	1365	51	12603	1272	12358	1234	12.1%	4.2%
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	72	2026	1.075	1.075	6672	274	6499	257	436	0	436	0	7109	274	6935	257	6.5%	0.0%
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	72	2026	1.075	1.075	26154	1410	25228	1255	217	43	217	43	26371	1453	25445	1298	0.8%	3.1%
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	72	2026	1.075	1.075	24805	928	12273	876	1110	45	1110	45	25916	973	13383	922	4.5%	4.9%
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	72	2026	1.075	1.075	14671	597	14151	531	241	45	241	45	14911	642	14391	576	1.6%	7.6%
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	72	2026	1.075	1.075	15000	750	14478	705	241	45	241	45	15241	795	14719	750	1.6%	6.1%
	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	72	2026	1.075	1.075	36249	1747	34965	1554	273	43	273	43	36521	1790	35237	1598	0.8%	2.5%
	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	72	2026	1.075	1.075	35365	1903	34112	1693	386	101	386	101	35751	2004	34499	1795	1.1%	5.3%
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	72	2026	1.079	1.075	25323	1000	24426	890	223	98	223	98	25545	1098	24648	988	0.9%	9.8%
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	72	2026	1.079	1.075	34218	1096	33006	975	223	98	223	98	34441	1194	33229	1073	0.7%	9.0%
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	72	2026	1.079	1.075	29019	685	27991	609	262	0	262	0	29281	685	28253	609	0.9%	0.0%
15	A280 Long Furlong		202	22 ATC		40.0	2022			18580	3653	17883	3479	72	2026	1.079	1.075	20044	3927	19292	3740	255	63	255	63	20299	3990	19547	3803	1.3%	1.6%
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	72	2026	1.079	1.075	24434	812	23764	787	457	13	457	13	24891	825	24221	800	1.9%	1.6%
17	A283 East of A24		202	22 ATC		52.60	2022			11430	2326	11295	2292	72	2026	1.079	1.075	12331	2501	12185	2464	1008	14	1008	14	13339	2514	13193	2478	8.2%	0.5%
18	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	72	2026	1.079	1.075	3829	114	3778	113	40	0	40	0	3869	114	3818	113	1.0%	0.0%
19	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	72	2026	1.079	1.075	22776	633	22491	617	209	21	209	21	22984	654	22700	638	0.9%	3.3%
20	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	72	2026	1.079	1.075	39448	1772	37792	1604	506	15	506	15	39954	1787	38298	1619	1.3%	0.8%
21	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	72	2026	1.079	1.075	7087	392	6964	382	17	0	17	0	7104	392	6980	382	0.2%	0.0%
22	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	72	2026	1.079	1.075	8728	372	8629	365	88	0	88	0	8815	372	8717	365	1.0%	0.0%
23	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	72	2026	1.079	1.075	6761	153	6521	136	96	0	96	0	6857	153	6617	136	1.4%	0.0%
24	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	72	2026	1.079	1.075	24892	1073	24011	955	438	15	438	15	25330	1088	24448	970	1.8%	1.4%
25	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	72	2026	1.079	1.075	18794	807	18128	718	438	15	438	15	19232	822	18566	733	2.3%	1.9%
26	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	72	2026	1.079	1.075	948	17	915	15	17	2	17	2	966	20	932	18	1.8%	13.8%
27	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	72	2026	1.079	1.075	18777	784	18112	698	432	39	432	39	19210	824	18544	737	2.3%	5.0%
	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	72	2026	1.079	1.075	79933	4358	77101	3878	219	60	219	60	80152	4419	77321	3938	0.3%	1.4%
29	B2188, Sayers Common		202	22 ATC		37.6	2022			7356	1497	7212	1461	72	2026	1.079	1.075	7936	1609	7780	1571	0	0	0	0	7936	1609	7780	1571	0.0%	0.0%
	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	72	2026	1.079	1.075	3499	161	3375	144	0	0	0	0	3499	161	3375	144	0.0%	0.0%
31	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	72	2026	1.079	1.075	87401	3377	84305	3005	225	70	225	70	87625	3447	84530	3075	0.3%	2.1%
32	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	72	2026	1.079	1.075	72343	2622	69781	2333	335	92	335	92	72679	2715	70116	2426	0.5%	3.5%
33	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	72	2026	1.079	1.075	79131	3089	76328	2749	262	45	262	45	79393	3134	76590	2794	0.3%	1.5%
34	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	72	2026	1.075	1.075	28609	594	27596	528	311	17	311	17	28920	611	27907	545	1.1%	2.9%
35	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	72	2026	1.075	1.075	27415	508	26444	452	479	0	479	0	27895	508	26924	452	1.7%	0.0%

Section 2

	1		F	Base Traffic -	Historic Co	nunts		_		2	∩21 Rase Yea	ar of Assessme	nt			Growth Rat	e to Future Year (2021 -	Fi	uture Year of A	esessment			Peak Develo	nment Traffic		F	uture Year + I	Development Pe	eak	Development Traffic % Im	nnact (2026/27)
		24 H	lour		Hour		T	Growth Ra	ate to 2021		Hour		Hour		Future		2026/27)	24 Ho			Hour	24 1	Hour		Hour		Hour		Hour	24 Hour	
EIA					1			Total						Peak Week	Assessment	Total	1 '								T				1		\neg
Receptors	Receptor Location	Total	HGV	Total	HGV	peed (85th	% Base Year	Vehicles	HGVs	Total	HGV	Total	HGV		Year	Vehicles	HGVs	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV
1	Ferry Road		202	22 ATC		60.0	2022			1925	314	1907	310	83	2026	1.075	1.075	2069	338	2049	334	62	18	62	18	2131	355	2111	351	3.0%	5.2%
2	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	83	2026	1.075	1.075	11238	1221	10993	1183	935	46	935	46	12173	1267	11928	1229	8.3%	3.8%
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	83	2026	1.075	1.075	6672	274	6499	257	290	0	290	0	6963	274	6790	257	4.4%	0.0%
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	83	2026	1.075	1.075	26154	1410	25228	1255	167	35	167	35	26321	1445	25394	1290	0.6%	2.5%
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	83	2026	1.075	1.075	24805	928	12273	876	786	50	786	50	25591	977	13058	926	3.2%	5.3%
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	83	2026	1.075	1.075	14671	597	14151	531	284	50	284	50	14954	646	14435	581	1.9%	8.3%
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	83	2026	1.075	1.075	15000	750	14478	705	284	50	284	50	15284	799	14762	754	1.9%	6.6%
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	83	2026	1.075	1.075	36249	1747	34965	1554	204	35	204	35	36453	1782	35169	1590	0.6%	2.0%
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	83	2026	1.075	1.075	35365	1903	34112	1693	400	90	400	90	35765	1993	34513	1784	1.1%	4.8%
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	83	2026	1.079	1.075	25323	1000	24426	890	150	67	150	67	25473	1067	24576	957	0.6%	6.8%
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	83	2026	1.079	1.075	34218	1096	33006	975	150	67	150	67	34369	1164	33157	1043	0.4%	6.2%
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	83	2026	1.079	1.075	29019	685	27991	609	375	0	375	0	29393	685	28366	609	1.3%	0.0%
15	A280 Long Furlong		202	2 ATC		40.0	2022			18580	3653	17883	3479	83	2026	1.079	1.075	20044	3927	19292	3740	289	41	289	41	20333	3968	19581	3781	1.4%	1.0%
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	83	2026	1.079	1.075	24434	812	23764	787	665	5	665	5	25099	817	24429	792	2.7%	0.6%
17	A283 East of A24		202	22 ATC		52.60	2022			11430	2326	11295	2292	83	2026	1.079	1.075	12331	2501	12185	2464	1579	12	1579	12	13910	2513	13764	2477	12.8%	0.5%
18	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	83	2026	1.079	1.075	3829	114	3778	113	77	24	77	24	3907	138	3856	137	2.0%	21.5%
19	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	83	2026	1.079	1.075	22776	633	22491	617	323	25	323	25	23099	658	22815	642	1.4%	3.9%
20	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	83	2026	1.079	1.075	39448	1772	37792	1604	622	19	622	19	40070	1791	38414	1623	1.6%	1.0%
21	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	83	2026	1.079	1.075	7087	392	6964	382	21	0	21	0	7108	392	6985	382	0.3%	0.0%
22	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	83	2026	1.079	1.075	8728	372	8629	365	87	2	87	2	8814	374	8716	367	1.0%	0.5%
23	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	83	2026	1.079	1.075	6761	153	6521	136	93	1	93	1	6854	153	6615	137	1.4%	0.4%
24	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	83	2026	1.079	1.075	24892	1073	24011	955	450	19	450	19	25343	1092	24461	974	1.8%	1.7%
25	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	83	2026	1.079	1.075	18794	807	18128	718	450	19	450	19	19244	825	18579	737	2.4%	2.3%
26	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	83	2026	1.079	1.075	948	17	915	15	15	0	15	0	963	17	929	15	1.5%	0.0%
27	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	83	2026	1.079	1.075	18777	784	18112	698	442	49	442	49	19219	833	18554	747	2.4%	6.3%
28	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	83	2026	1.079	1.075	79933	4358	77101	3878	214	54	214	54	80146	4412	77315	3932	0.3%	1.2%
29	B2188, Sayers Common		202	2 ATC		37.6	2022			7356	1497	7212	1461	83	2026	1.079	1.075	7936	1609	7780	1571	0	0	0	0	7936	1609	7780	1571	0.0%	0.0%
30	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	83	2026	1.079	1.075	3499	161	3375	144	0	0	0	0	3499	161	3375	144	0.0%	0.0%
31	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	83	2026	1.079	1.075	87401	3377	84305	3005	215	65	215	65	87616	3442	84520	3070	0.2%	1.9%
32	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	83	2026	1.079	1.075	72343	2622	69781	2333	349	78	349	78	72692	2700	70130	2411	0.5%	3.0%
33	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	83	2026	1.079	1.075	79131	3089	76328	2749	287	41	287	41	79418	3130	76615	2789	0.4%	1.3%
34	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	83	2026	1.075	1.075	28609	594	27596	528	241	18	241	18	28850	612	27837	546	0.8%	3.1%
35	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	83	2026	1.075	1.075	27415	508	26444	452	359	0	359	0	27774	508	26803	452	1.3%	0.0%

Section 3

		1		Base Traffic	- Historic Co	ounts		Growth R	4- 4- 2024	2	021 Base Yea	r of Assessme	nt		Future	Growth Rat	te to Future Year (2021 -	Fu	uture Year of A	ssessment			Peak Develo	pment Traffic		Fu	ture Year + D	evelopment Pe	eak	Developmen	t Traffic % Impact (2026/27)
		24	Hour	18	Hour			Growth R	ate to 2021	24	Hour	18	Hour	Peak Week	Assessment	ı	2026/27)	24 Ho	ur	18 H	lour	24 H	Hour	18	Hour	24 H	lour	18 H	Hour	· ·	24 Hour
EIA						7		Total	1101/-					reak week	Year	Total	1101/-														
Receptors	Receptor Location	Total	HGV	Total	HGV	Speed (85th%)		venicies	HGVs	Total	HGV	Total	HGV			Vehicles	HGVs	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV
1 Ferry Road				22 ATC		60.0	2022			1925	314	1907	310	83	2026	1.075	1.075	2069	338	2049	334	62	18	62	18	2131	355	2111	351	3.0%	5.2%
2 Church Lan	16	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	83	2026	1.075	1.075	11238	1221	10993	1183	935	46	935	46	12173	1267	11928	1229	8.3%	3.8%
3 Ford Road		6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	83	2026	1.075	1.075	6672	274	6499	257	290	0	290	0	6963	274	6790	257	4.4%	0.0%
4 A27 West o		23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	83	2026	1.075	1.075	26154	1410	25228	1255	167	35	167	35	26321	1445	25394	1290	0.6%	2.5%
5 A259 West		22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	83	2026	1.075	1.075	24805	928	12273	876	786	50	786	50	25591	977	13058	926	3.2%	5.3%
6 A284 North		13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	83	2026	1.075	1.075	14671	597	14151	531	284	50	284	50	14954	646	14435	581	1.9%	8.3%
7 A284 Lymir		13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	83	2026	1.075	1.075	15000	750	14478	705	284	50	284	50	15284	799	14762	754	1.9%	6.6%
9 A27, Arund		32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	83	2026	1.075	1.075	36249	1747	34965	1554	204	35	204	35	36453	1782	35169	1590	0.6%	2.0%
11 A27, South	of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	83	2026	1.075	1.075	35365	1903	34112	1693	400	90	400	90	35765	1993	34513	1784	1.1%	4.8%
12 A27 High S	Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	83	2026	1.079	1.075	25323	1000	24426	890	150	67	150	67	25473	1067	24576	957	0.6%	6.8%
13 A24/A27 O	ffington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	83	2026	1.079	1.075	34218	1096	33006	975	150	67	150	67	34369	1164	33157	1043	0.4%	6.2%
14 A24 Findon	1	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	83	2026	1.079	1.075	29019	685	27991	609	375	0	375	0	29393	685	28366	609	1.3%	0.0%
15 A280 Long	Furlong		20	22 ATC		40.0	2022			18580	3653	17883	3479	83	2026	1.079	1.075	20044	3927	19292	3740	289	41	289	41	20333	3968	19581	3781	1.4%	1.0%
16 A283 West	of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	83	2026	1.079	1.075	24434	812	23764	787	665	5	665	5	25099	817	24429	792	2.7%	0.6%
17 A283 East	of A24		20	22 ATC		52.60	2022			11430	2326	11295	2292	83	2026	1.079	1.075	12331	2501	12185	2464	1579	12	1579	12	13910	2513	13764	2477	12.8%	0.5%
18 B2135, Sou	uth of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	83	2026	1.079	1.075	3829	114	3778	113	77	24	77	24	3907	138	3856	137	2.0%	21.5%
19 A283, Steyr	ning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	83	2026	1.079	1.075	22776	633	22491	617	323	25	323	25	23099	658	22815	642	1.4%	3.9%
20 A24, South	of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	83	2026	1.079	1.075	39448	1772	37792	1604	622	19	622	19	40070	1791	38414	1623	1.6%	1.0%
21 B2116 Patr	idge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	83	2026	1.079	1.075	7087	392	6964	382	21	0	21	0	7108	392	6985	382	0.3%	0.0%
22 A281, Sout	th Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	83	2026	1.079	1.075	8728	372	8629	365	87	2	87	2	8814	374	8716	367	1.0%	0.5%
23 A281, Sout	th of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	83	2026	1.079	1.075	6761	153	6521	136	93	1	93	1	6854	153	6615	137	1.4%	0.4%
24 A281, Cow	fold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	83	2026	1.079	1.075	24892	1073	24011	955	450	19	450	19	25343	1092	24461	974	1.8%	1.7%
25 A272, Statio	on Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	83	2026	1.079	1.075	18794	807	18128	718	450	19	450	19	19244	825	18579	737	2.4%	2.3%
26 Wineham L	ane. South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	83	2026	1.079	1.075	948	17	915	15	15	0	15	0	963	17	929	15	1.5%	0.0%
27 A272, Wes	t of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	83	2026	1.079	1.075	18777	784	18112	698	442	49	442	49	19219	833	18554	747	2.4%	6.3%
28 A23, North	of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	83	2026	1.079	1.075	79933	4358	77101	3878	214	54	214	54	80146	4412	77315	3932	0.3%	1.2%
29 B2188 Say	vers Common		20	22 ATC		37.6	2022			7356	1497	7212	1461	83	2026	1.079	1.075	7936	1609	7780	1571	0	0	0	0	7936	1609	7780	1571	0.0%	0.0%
,	nfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	83	2026	1.079	1.075	3499	161	3375	144	0	0	0	0	3499	161	3375	144	0.0%	0.0%
31 A23, North		78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	83	2026	1.079	1.075	87401	3377	84305	3005	215	65	215	65	87616	3442	84520	3070	0.2%	1.9%
32 A27, West		65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	83	2026	1.079	1.075	72343	2622	69781	2333	349	78	349	78	72692	2700	70130	2411	0.5%	3.0%
33 A27, Fast o		71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	83	2026	1.079	1.075	79131	3089	76328	2749	287	41	287	41	79418	3130	76615	2789	0.4%	1.3%
	t of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	83	2026	1.075	1.075	28609	594	27596	528	241	18	241	18	28850	612	27837	546	0.8%	3.1%
35 A259 East		24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	83	2026	1.075	1.075	27415	508	26444	452	359	0	359	0	27774	508	26803	452	1.3%	0.0%
AZJ9 Edst	OFFICE	24131	405	23000	417	40	2013	1.0303	1.0073	20012	413	24000	720	- 03	2020	1.073	1.075	21410	300	20444	732	000	J	555	J	21114	500	20000	702	1.370	0.0%

Year 1 AAWT

		1	Е	Base Traffic -	Historic Cou	ınts		Growth R	nto to 2021	20)21 Base Yea	r of Assessm	ent	Future	Growth Rate	to Future Year (2021 -	Fu	ture Year of As	ssessment		ı	Peak Deve	lopment Traffi	C	F	uture Year + D	evelopment P	eak	Development Traffic	% Impact (2026/27
		24	lour	18	Hour			Growth R	ate to 2021	24	lour	18	Hour		l	2026/27)	24 Ho	ur	18 H	lour	24	Hour	18	Hour	24	Hour	181	Hour	24 H	Hour
EIA Receptors	Receptor Location	Total	HGV	Total	HGV	Speed (85th	% Base Year	Total Vehicles	HGVs	Total	HGV	Total	HGV	Assessment Year	Total Vehicles	HGVs	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV
	Ferry Road		202	2 ATC		60.0	2022			1925	314	1907	310	2025	1.066	1.062	2052	333	2031	330	7	0	7	0	2058	333	2038	330	0.3%	0.0%
2	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2025	1.066	1.062	11143	1206	10899	1169	36	6	36	6	11179	1211	10936	1174	0.3%	0.5%
3	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2025	1.066	1.062	6616	271	6444	254	8	0	8	0	6624	271	6453	254	0.1%	0.0%
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2025	1.066	1.062	25933	1393	25014	1240	6	3	6	3	25939	1396	25020	1243	0.0%	0.2%
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2025	1.066	1.062	24595	917	12169	866	30	5	30	5	24626	921	12199	870	0.1%	0.5%
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2025	1.066	1.062	14546	590	14031	525	13	5	13	5	14559	594	14044	529	0.1%	0.8%
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2025	1.066	1.062	14873	741	14356	696	14	6	14	6	14887	747	14370	703	0.1%	0.8%
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2025	1.066	1.062	35942	1726	34669	1536	7	3	7	3	35949	1729	34676	1539	0.0%	0.2%
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2025	1.066	1.062	35066	1880	33824	1673	16	9	16	9	35082	1889	33839	1682	0.0%	0.5%
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2025	1.069	1.062	25090	988	24201	879	12	9	12	9	25102	997	24213	888	0.0%	1.0%
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2025	1.069	1.062	33904	1083	32703	963	12	9	12	9	33916	1092	32715	973	0.0%	0.9%
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2025	1.069	1.062	28753	677	27734	602	3	0	3	0	28755	677	27737	602	0.0%	0.0%
15	A280 Long Furlong		202	2 ATC		40.0	2022			18580	3653	17883	3479	2025	1.069	1.062	19860	3879	19115	3695	4	1	4	1	19864	3881	19119	3696	0.0%	0.0%
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2025	1.069	1.062	24210	802	23546	778	6	0	6	0	24216	802	23552	778	0.0%	0.0%
17	A283 East of A24		202	2 ATC		52.60	2022			11430	2326	11295	2292	2025	1.069	1.062	12218	2470	12073	2435	13	1	13	1	12231	2472	12086	2436	0.1%	0.0%
18	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2025	1.069	1.062	3794	112	3744	111	1	0	1	0	3796	112	3745	111	0.0%	0.0%
19	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2025	1.069	1.062	22567	626	22285	609	4	3	4	3	22571	628	22290	612	0.0%	0.4%
20	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2025	1.069	1.062	39086	1751	37445	1585	6	0	6	0	39092	1751	37451	1585	0.0%	0.0%
21	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2025	1.069	1.062	7022	387	6900	377	0	0	0	0	7022	387	6900	377	0.0%	0.0%
22	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2025	1.069	1.062	8648	368	8550	361	2	0	2	0	8649	368	8552	361	0.0%	0.0%
23	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2025	1.069	1.062	6699	151	6462	134	2	0	2	0	6701	151	6463	134	0.0%	0.0%
24	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2025	1.069	1.062	24664	1060	23790	943	5	0	5	0	24669	1061	23796	944	0.0%	0.0%
25	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2025	1.069	1.062	18622	797	17962	709	5	0	5	0	18627	797	17967	710	0.0%	0.0%
26	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2025	1.069	1.062	940	17	906	15	1	0	1	0	941	17	907	15	0.1%	0.0%
27	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2025	1.069	1.062	18605	775	17946	689	6	1	6	1	18611	775	17952	690	0.0%	0.1%
28	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2025	1.069	1.062	79199	4306	76394	3831	7	5	7	5	79206	4311	76401	3836	0.0%	0.1%
29	B2188, Sayers Common		202	2 ATC		37.6	2022			7356	1497	7212	1461	2025	1.069	1.062	7863	1590	7709	1552	0	0	0	0	7863	1590	7709	1552	0.0%	0.0%
30	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2025	1.069	1.062	3467	159	3344	142	0	0	0	0	3467	159	3344	142	0.0%	0.0%
31	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2025	1.069	1.062	86599	3336	83531	2969	7	5	7	5	86606	3341	83538	2974	0.0%	0.2%
32	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2025	1.069	1.062	71679	2590	69140	2305	12	8	12	8	71691	2599	69152	2313	0.0%	0.3%
33	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2025	1.069	1.062	78405	3052	75628	2715	7	4	7	4	78411	3055	75634	2719	0.0%	0.1%
34	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2025	1.066	1.062	28367	586	27362	522	7	2	7	2	28374	588	27369	523	0.0%	0.3%
35	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2025	1.066	1.062	27183	502	26220	447	9	0	9	0	27192	502	26229	447	0.0%	0.0%

Year 2 AAWT

				Base Traffic	c - Historic Co	ounts		0	Rate to 2021	20	21 Base Yea	r of Assessme	nt	Future	Growth Rate	o Future Year (2021 -	Fut	ture Year of As	sessment		т —	Peak Develo	opment Traffic	c	Fu	ture Year + D	evelopment Pe	eak	Developmen!	t Traffic % Impact (2026/27)
		24	Hour	18	Hour			Growth H	tate to 2021	24	lour	18	lour	 Future Assessment 		(026/27)	24 Hou	r	18 H	lour	24 1	Hour	18	Hour	24	lour	18 !	Hour		24 Hour
EIA Receptors	Receptor Location	Total	HGV	Total	HGV	Speed (85th%) Base Yea	Total Vehicles	HGVs	Total	HGV	Total	HGV	- Assessment Year	Total Vehicles	HGVs	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV
	Ferry Road	Total		22 ATC	1.01	60.0	2022			1925	314	1907	310	2026	1.075	1.062	2070	333	2050	330	42	7	42	7	2112	340	2091	336	2.0%	2.0%
	Church I ane	0850	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2026	1.075	1.062	11238	1206	10993	1169	192	25	192	25	11430	1231	11185	1194	1.7%	2.1%
	Ford Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2026	1.075	1.062	6672	271	6499	254	46	0	46	0	6718	271	6545	254	0.7%	0.0%
4	A27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2026	1.075	1.062	26154	1393	25228	1240	49	30	49	30	26203	1423	25277	1269	0.2%	2.1%
5	A259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2026	1.075	1.062	24805	917	12273	866	167	26	167	26	24973	942	12440	891	0.7%	2.8%
6	A284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2026	1.075	1.062	14671	590	14151	525	81	26	81	26	14752	615	14232	550	0.6%	4.4%
7	A284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2026	1.075	1.062	15000	741	14478	696	84	29	84	29	15084	770	14563	725	0.6%	3.9%
9	A27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2026	1.075	1.062	36249	1726	34965	1536	55	30	55	30	36304	1756	35020	1566	0.2%	1.7%
11	A27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2026	1.075	1.062	35365	1880	34112	1673	113	62	113	62	35478	1942	34226	1734	0.3%	3.3%
12	A27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2026	1.079	1.062	25323	988	24426	879	64	50	64	50	25386	1038	24489	929	0.3%	5.1%
13	A24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2026	1.079	1.062	34218	1083	33006	963	64	50	64	50	34282	1133	33070	1014	0.2%	4.7%
14	A24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2026	1.079	1.062	29019	677	27991	602	41	0	41	0	29060	677	28032	602	0.1%	0.0%
15	A280 Long Furlong		202	22 ATC		40.0	2022			18580	3653	17883	3479	2026	1.079	1.062	20044	3879	19292	3695	64	36	64	36	20108	3916	19356	3731	0.3%	0.9%
16	A283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2026	1.079	1.062	24434	802	23764	778	110	12	110	12	24544	814	23873	789	0.4%	1.5%
17	A283 East of A24		202	22 ATC		52.60	2022			11430	2326	11295	2292	2026	1.079	1.062	12331	2470	12185	2435	212	15	212	15	12543	2486	12397	2450	1.7%	0.6%
18	B2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2026	1.079	1.062	3829	112	3778	111	24	4	24	4	3854	117	3803	116	0.6%	3.9%
19	A283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2026	1.079	1.062	22776	626	22491	609	49	19	49	19	22824	645	22540	629	0.2%	3.1%
20	A24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2026	1.079	1.062	39448	1751	37792	1585	86	12	86	12	39534	1763	37878	1597	0.2%	0.7%
	B2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2026	1.079	1.062	7087	387	6964	377	3	0	3	0	7090	387	6966	377	0.0%	0.0%
22	A281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2026	1.079	1.062	8728	368	8629	361	30	5	30	5	8757	373	8659	366	0.3%	1.4%
	A281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2026	1.079	1.062	6761	151	6521	134	27	1	27	1	6788	152	6548	135	0.4%	0.8%
	A281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2026	1.079	1.062	24892	1060	24011	943	79	12	79	12	24972	1072	24090	956	0.3%	1.1%
	A272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2026	1.079	1.062	18794	797	18128	709	79	12	79	12	18873	809	18208	721	0.4%	1.5%
	Wineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2026	1.079	1.062	948	17	915	15	13	1	13	1	961	18	928	16	1.4%	3.5%
	A272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2026	1.079	1.062	18777	775	18112	689	95	33	95	33	18873	807	18207	722	0.5%	4.2%
	A23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2026	1.079	1.062	79933	4306	77101	3831	65	40	65	40	79997	4345	77166	3871	0.1%	0.9%
	B2188, Sayers Common			22 ATC		37.6	2022			7356	1497	7212	1461	2026	1.079	1.062	7936	1590	7780	1552	0	0	0	0	7936	1590	7780	1552	0.0%	0.0%
	B2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2026	1.079	1.062	3499	159	3375	142	0	0	0	0	3499	159	3375	142	0.0%	0.0%
	A23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2026	1.079	1.062	87401	3336	84305	2969	68	46	68	46	87468	3382	84372	3015	0.1%	1.4%
	A27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2026	1.079	1.062	72343	2590	69781	2305	89	58	89	58	72433	2648	69870	2363	0.1%	2.2%
	A27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2026	1.079	1.062	79131	3052	76328	2715	61	30	61	30	79192	3081	76389	2745	0.1%	1.0%
	A259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2026	1.075	1.062	28609	586	27596	522	42	9	42	9	28651	596	27637	531	0.1%	1.6%
35	A259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2026	1.075	1.062	27415	502	26444	447	53	0	53	0	27469	502	26498	447	0.2%	0.0%

Year 3 AAWT

			E	Base Traffic -	Historic Cour	nts		Growth R	4-4-0004	20	21 Base Yea	r of Assessme	ent	Future	Growth Rate	to Future Year (2021 -	F	uture Year of A	ssessment			Peak Deve	lopment Traffic	:	F	uture Year + D	evelopment Pe	eak	Development Traffic	c % Impact (2026/27)
		24 H	lour	18	Hour	1		Growth R	ite to 2021	24	lour	18	Hour	Assessment		2026/27)	24 Ho	ur	18 1	Hour	24	Hour	18	Hour	24	Hour	181	lour	24 l	Hour
EIA	i					1		Total						Year	Total															
Receptors	Receptor Location	Total	HGV	Total	HGV	speed (85th%	Base Year	Vehicles	HGVs	Total	HGV	Total	HGV	rear	Vehicles	HGVs	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV
	rry Road		202	2 ATC		60.0	2022			1925	314	1907	310	2027	1.083	1.093	2085	343	2065	339	4	0	4	0	2089	344	2069	340	0.2%	0.1%
	urch Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2027	1.083	1.093	11327	1241	11079	1203	24	6	24	6	11351	1247	11103	1209	0.2%	0.5%
	rd Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2027	1.083	1.093	6725	279	6551	261	5	0	5	0	6730	279	6555	261	0.1%	0.0%
	7 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2027	1.083	1.093	26361	1434	25427	1276	27	24	27	24	26388	1458	25455	1300	0.1%	1.7%
	59 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2027	1.083	1.093	25002	943	12370	891	21	4	21	4	25023	948	12391	895	0.1%	0.5%
	84 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2027	1.083	1.093	14787	607	14263	540	22	4	22	4	14808	611	14285	544	0.1%	0.7%
7 A28	84 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2027	1.083	1.093	15119	762	14593	717	22	4	22	4	15141	767	14615	721	0.1%	0.6%
9 A27	7, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2027	1.083	1.093	36536	1776	35241	1581	28	24	28	24	36564	1801	35269	1605	0.1%	1.4%
	7, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2027	1.083	1.093	35645	1935	34382	1722	47	29	47	29	35692	1964	34429	1750	0.1%	1.5%
12 A27	7 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2027	1.087	1.093	25510	1016	24607	904	12	11	12	11	25523	1027	24619	915	0.0%	1.1%
13 A24	4/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2027	1.087	1.093	34472	1114	33251	992	12	11	12	11	34484	1125	33263	1003	0.0%	1.0%
14 A24	4 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2027	1.087	1.093	29234	696	28199	620	32	0	32	0	29266	696	28230	620	0.1%	0.0%
15 A28	80 Long Furlong		202	2 ATC		40.0	2022			18580	3653	17883	3479	2027	1.087	1.093	20193	3993	19435	3803	47	31	47	31	20239	4024	19482	3834	0.2%	0.8%
16 A28	83 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2027	1.087	1.093	24615	825	23940	800	62	0	62	0	24677	825	24002	800	0.3%	0.0%
17 A28	83 East of A24		202	2 ATC		52.60	2022			11430	2326	11295	2292	2027	1.087	1.093	12422	2543	12275	2506	122	20	122	20	12544	2563	12397	2526	1.0%	0.8%
18 B2°	135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2027	1.087	1.093	3858	116	3807	115	17	5	17	5	3874	121	3823	120	0.4%	4.6%
19 A28	83, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2027	1.087	1.093	22945	644	22658	627	40	25	40	25	22985	669	22699	653	0.2%	3.9%
20 A24	4, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2027	1.087	1.093	39741	1802	38072	1631	70	11	70	11	39811	1813	38142	1642	0.2%	0.6%
21 B2°	116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2027	1.087	1.093	7140	398	7015	388	3	0	3	0	7142	398	7018	388	0.0%	0.0%
22 A28	81, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2027	1.087	1.093	8792	378	8693	371	41	6	41	6	8833	384	8734	377	0.5%	1.6%
23 A28	81, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2027	1.087	1.093	6811	155	6570	138	38	2	38	2	6849	157	6608	140	0.6%	1.0%
24 A28	81, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2027	1.087	1.093	25077	1091	24189	971	95	11	95	11	25172	1102	24284	982	0.4%	1.0%
25 A27	72, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2027	1.087	1.093	18933	820	18263	730	95	11	95	11	19029	831	18358	741	0.5%	1.3%
26 Wir	neham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2027	1.087	1.093	955	18	922	16	23	5	23	5	978	23	944	21	2.4%	29.9%
27 A27	72, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2027	1.087	1.093	18917	797	18247	709	110	30	110	30	19027	827	18357	740	0.6%	3.8%
28 A23	3, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2027	1.087	1.093	80525	4431	77673	3943	57	26	57	26	80582	4457	77730	3969	0.1%	0.6%
29 B2	188, Sayers Common		202	2 ATC		37.6	2022			7356	1497	7212	1461	2027	1.087	1.093	7995	1636	7838	1597	0	0	0	0	7995	1636	7838	1597	0.0%	0.0%
30 B2	116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2027	1.087	1.093	3525	164	3400	146	0	0	0	0	3525	164	3400	146	0.0%	0.0%
31 A23	3, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2027	1.087	1.093	88049	3434	84930	3055	50	31	50	31	88098	3465	84979	3087	0.1%	0.9%
32 A21	7, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2027	1.087	1.093	72880	2666	70298	2372	46	35	46	35	72925	2701	70344	2407	0.1%	1.3%
33 A21	7, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2027	1.087	1.093	79718	3141	76894	2795	43	20	43	20	79760	3160	76937	2814	0.1%	0.6%
34 A25	59, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2027	1.083	1.093	28835	603	27814	537	7	2	7	2	28842	605	27821	539	0.0%	0.3%
35 A25	59 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2027	1.083	1.093	27632	516	26653	460	12	0	12	0	27644	516	26665	460	0.0%	0.0%

Year 4 AAWT

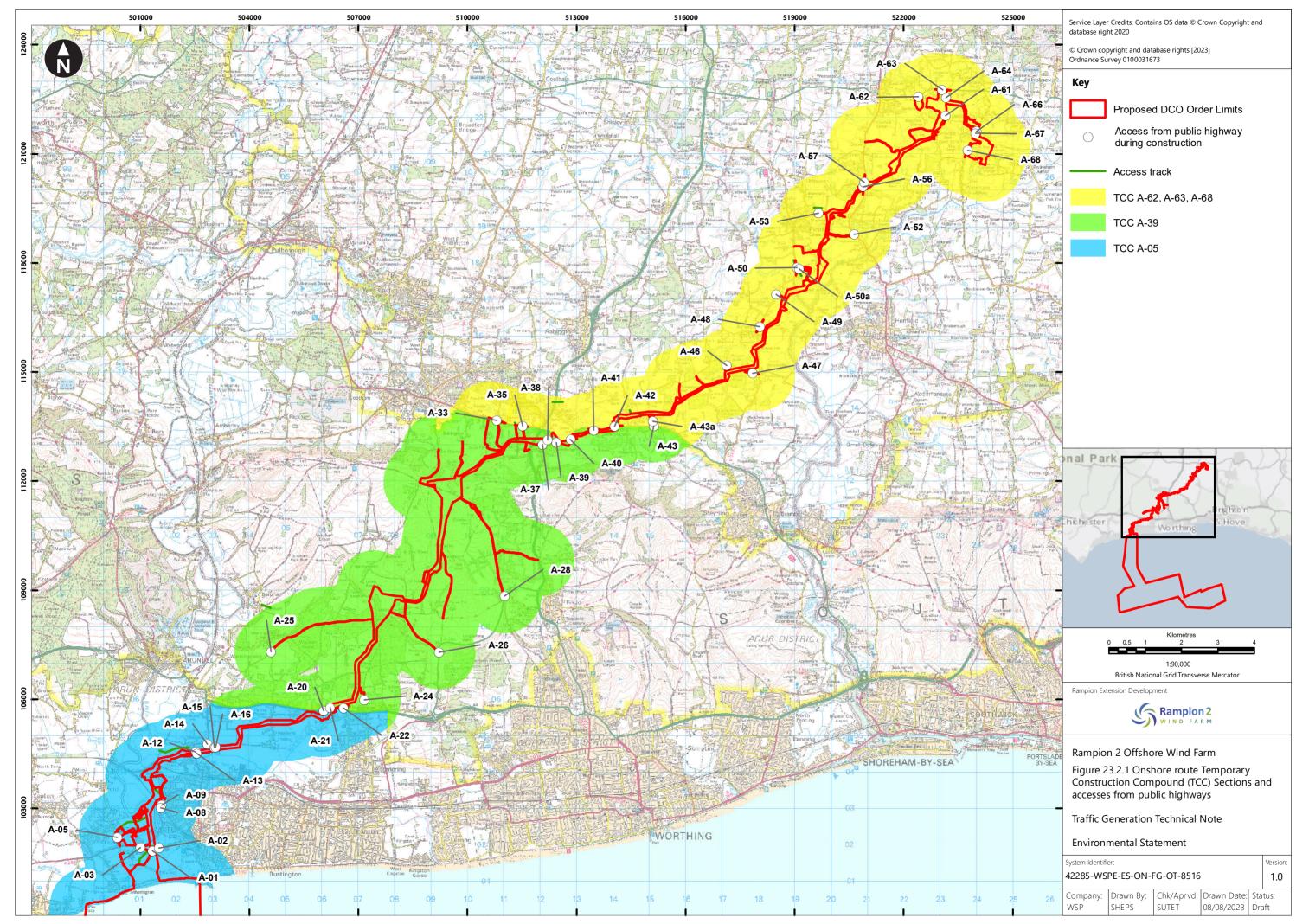
2 C 3 F 4 A	Receptor Location erry Road	24 H Total	lour	18 F	lour			Growth Rat				r of Assessme		Future		to Future Year (2021 -		uture Year of As				Peak Develop			Fut					elopment Traffic % Impact (2026/27)
Receptors	erry Road	Total						Ciowai ita	e 10 2021	24 H	lour	18 H	lour		1	2026/27)	24 Ho	ur	18	Hour	24 Hou	ur i	18 H	Hour	24 H	our	18	lour		24 Hour
1 F 2 C 3 F 4 A	erry Road	Total				1		Total						Assessment Year	Total															
2 C 3 F 4 A	,		HGV	Total	HGV	peed (85th%	Base Year	Vehicles	HGVs	Total	HGV	Total	HGV	1001	Vehicles	HGVs	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV	Total	HGV
3 F			2022			60.0	2022			1925	314	1907	310	2028	1.092	1.109	2102	348	2081	344	6	1	6	1	2107	349	2087	345	0.3%	0.2%
4 A	Church Lane	9859	1106	9644	1072	41.9	2017	1.0607	1.027	10458	1135	10229	1101	2028	1.092	1.109	11416	1259	11166	1220	27	3	27	3	11442	1262	11193	1223	0.2%	0.2%
	ord Road	6025	253	5869	237	25.6	2019	1.0305	1.0075	6209	255	6048	239	2028	1.092	1.109	6778	283	6602	265	7	0	7	0	6784	283	6609	265	0.1%	0.0%
	27 West of Arundel	23618	1302	22781	1159	40	2019	1.0305	1.0075	24338	1312	23476	1167	2028	1.092	1.109	26568	1454	25627	1294	11	9	11	9	26579	1463	25638	1303	0.0%	0.6%
5 P	259 West of Wick	22400	857	11083	809	43	2019	1.0305	1.0075	23083	863	11421	815	2028	1.092	1.109	25198	957	12467	904	23	3	23	3	25221	960	12490	907	0.1%	0.4%
6 A	284 North of Wick	13248	551	12779	490	30	2019	1.0305	1.0075	13652	555	13168	494	2028	1.092	1.109	14903	615	14375	548	11	3	11	3	14914	619	14386	551	0.1%	0.6%
7 F	284 Lyminster	13546	692	13075	651	42	2019	1.0305	1.0075	13959	698	13473	656	2028	1.092	1.109	15238	773	14708	727	13	5	13	5	15250	778	14720	732	0.1%	0.6%
9 /	27, Arundel Station	32734	1613	31574	1435	40	2019	1.0305	1.0075	33732	1625	32538	1446	2028	1.092	1.109	36822	1801	35518	1603	12	9	12	9	36834	1810	35530	1612	0.0%	0.5%
11 A	27, South of Crossbush	31936	1757	30805	1563	60	2019	1.0305	1.0075	32910	1770	31744	1575	2028	1.092	1.109	35925	1962	34652	1746	21	14	21	14	35946	1976	34673	1760	0.1%	0.7%
12 A	27 High Salvington	22776	923	21969	821	30	2019	1.0306	1.0075	23473	930	22641	827	2028	1.095	1.109	25701	1031	24790	917	17	15	17	15	25718	1046	24807	933	0.1%	1.5%
13 A	.24/A27 Offington (Warren Road)	30777	1012	29687	900	40	2019	1.0306	1.0075	31719	1020	30595	907	2028	1.095	1.109	34729	1130	33499	1006	17	15	17	15	34746	1146	33516	1021	0.0%	1.4%
14 A	24 Findon	25731	627	24820	558	40	2018	1.0454	1.016	26899	637	25946	567	2028	1.095	1.109	29452	706	28409	628	6	0	6	0	29458	706	28415	628	0.0%	0.0%
15 A	280 Long Furlong		2022	ATC		40.0	2022			18580	3653	17883	3479	2028	1.095	1.109	20343	4049	19580	3856	17	14	17	14	20360	4063	19597	3870	0.1%	0.3%
16 A	283 West of A24	21977	750	21374	727	41	2019	1.0306	1.0075	22649	755	22028	732	2028	1.095	1.109	24799	837	24118	812	10	0	10	0	24809	837	24129	812	0.0%	0.0%
17 A	.283 East of A24		2022	ATC		52.60	2022			11430	2326	11295	2292	2028	1.095	1.109	12515	2579	12367	2541	21	6	21	6	12536	2585	12388	2547	0.2%	0.2%
18 B	2135, South of Ashurst	3444	105	3399	104	48	2019	1.0306	1.0075	3550	106	3502	105	2028	1.095	1.109	3887	117	3835	116	5	3	5	3	3892	120	3840	119	0.1%	2.8%
19 A	283, Steyning	20485	585	20230	570	52	2019	1.0306	1.0075	21112	589	20849	574	2028	1.095	1.109	23116	653	22827	636	8	6	8	6	23123	659	22835	642	0.0%	0.8%
20 A	24, South of A272	35481	1636	33991	1481	40	2019	1.0306	1.0075	36567	1648	35032	1493	2028	1.095	1.109	40037	1827	38356	1654	14	1	14	1	40051	1829	38370	1656	0.0%	0.1%
21 B	2116 Patridge Green Road	6374	362	6264	353	29	2019	1.0306	1.0075	6569	364	6455	355	2028	1.095	1.109	7193	404	7068	394	1	0	1	0	7193	404	7068	394	0.0%	0.0%
22 A	281, South Shermanbury	7739	341	7652	334	40	2018	1.0454	1.016	8090	346	7999	340	2028	1.095	1.109	8858	384	8758	376	12	4	12	4	8870	388	8770	381	0.1%	1.1%
23 A	281, South of Cowfold	6081	141	5866	125	30	2019	1.0306	1.0075	6267	142	6045	126	2028	1.095	1.109	6862	157	6619	140	9	1	9	1	6871	158	6628	141	0.1%	0.5%
24 A	281, Cowfold Center	22389	991	21596	882	30	2019	1.0306	1.0075	23074	998	22257	888	2028	1.095	1.109	25264	1107	24369	985	21	1	21	1	25285	1108	24390	986	0.1%	0.1%
25 A	272, Station Road, Cowfold	16904	745	16305	663	30	2019	1.0306	1.0075	17421	751	16804	668	2028	1.095	1.109	19075	832	18399	740	21	1	21	1	19095	833	18420	742	0.1%	0.1%
26 V	Vineham Lane, South of A272	853	16	823	14	60	2019	1.0306	1.0075	879	16	848	14	2028	1.095	1.109	963	18	928	16	5	1	5	1	968	19	933	17	0.5%	5.2%
27 A	272, West of A23	16889	724	16291	644	40	2019	1.0306	1.0075	17406	729	16789	649	2028	1.095	1.109	19058	809	18383	719	23	4	23	4	19080	813	18405	723	0.1%	0.5%
28 A	23, North of the A272	71894	4024	69347	3581	60	2019	1.0306	1.0075	74094	4054	71469	3607	2028	1.095	1.109	81125	4494	78252	3999	17	10	17	10	81143	4504	78269	4009	0.0%	0.2%
29 B	2188, Sayers Common		2022	ATC		37.6	2022			7356	1497	7212	1461	2028	1.095	1.109	8054	1660	7896	1620	0	0	0	0	8054	1660	7896	1620	0.0%	0.0%
30 B	2116, Henfield Road, Albourne	3147	149	3036	133	30	2019	1.0306	1.0075	3243	150	3128	134	2028	1.095	1.109	3551	166	3425	148	0	0	0	0	3551	166	3425	148	0.0%	0.0%
31 A	23, North of the A272	78611	3118	75826	2774	60	2019	1.0306	1.0075	81016	3141	78147	2795	2028	1.095	1.109	88705	3482	85563	3099	15	10	15	10	88720	3492	85578	3109	0.0%	0.3%
32 A	27, West of A23	65068	2421	62763	2154	60	2019	1.0306	1.0075	67059	2439	64684	2170	2028	1.095	1.109	73423	2704	70822	2406	19	16	19	16	73442	2720	70841	2422	0.0%	0.6%
33 A	.27, East of A23	71173	2852	68652	2538	60	2019	1.0306	1.0075	73351	2873	70753	2557	2028	1.095	1.109	80312	3185	77467	2834	13	8	13	8	80325	3193	77480	2842	0.0%	0.2%
34 /	259, West of Church Street	25835	548	24920	488	40	2019	1.0305	1.0075	26623	552	25680	491	2028	1.092	1.109	29062	612	28032	545	5	1	5	1	29067	613	28038	546	0.0%	0.2%
35 A	259 East of Wick	24757	469	23880	417	40	2019	1.0305	1.0075	25512	473	24608	420	2028	1.092	1.109	27849	524	26863	466	8	0	8	0	27857	524	26870	466	0.0%	0.0%



Annex B Figures



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Annex C Construction Traffic Peak Movements



This table shows, for each access, the week when the total number of vehicle movements (all vehicles) is highest, and how many vehicles this would be. Additionally it seeks to represent the duration of this effect, by showing the number of weeks at which vehicle movements would be at or above 90% of this peak, as well as 75% and 50%.



Access	Peak Week	Two-way mov	ements					
		Total (LGV+HGV)	>=90% Threshold	No. of Weeks	>=75% Threshold	No. of Weeks	>=50% Threshold	No. of Weeks
A-01	70	244	220	1	183	5	122	16
A-05	72	1498	1348	2	1124	7	749	23
A-09	161	244	220	1	183	2	122	5
A-12	162	246	221	1	185	1	123	1
A-13	64	226	203	1	170	2	113	2
A-16	70	282	254	3	212	9	141	15
A-21	61	224	202	4	168	4	112	23
A-26	70	310	279	4	233	10	155	17
A-33	85	302	272	3	227	3	151	5
A-35	60	88	79	2	66	2	44	3
A-39	83	1656	1490	1	1242	2	828	29
A-40	116	222	200	1	167	5	111	13
A-42	122	128	115	2	96	2	64	4



Access	Peak Week	Two-way mov	ements					
		Total (LGV+HGV)	>=90% Threshold	No. of Weeks	>=75% Threshold	No. of Weeks	>=50% Threshold	No. of Weeks
A-43	162	248	223	3	186	6	124	23
A-47	157	172	155	1	129	1	86	9
A-48	158	210	189	2	158	2	105	15
A-50	90	196	176	3	147	4	98	12
A-53	162	242	218	2	182	2	121	2
A-56	98	198	178	1	149	1	99	12
A-57	111	222	200	3	167	5	111	14
A-61	160	154	139	2	116	9	77	14
A-62	125	866	779	2	650	2	433	12
A-63	83	900	810	20	675	29	450	99
A-64	162	286	257	1	215	2	143	2
A-67	125	186	167	2	140	2	93	5
A-68	127	272	245	3	204	9	136	25



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