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**DECARBONISATION**

# FRAMEWORK CONSTRUCTION TRAFFIC MANAGEMENT PLAN: 7.7

## Cory Decarbonisation Project

PINS Reference: EN010128

~~March~~September 2024

Revision AB



## QUALITY CONTROL

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## 1. INTRODUCTION

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### 1.1. OVERVIEW

1.1.1. This **Framework Construction Traffic Management Plan (Framework CTMP) (Document Reference 7.7)** has been prepared for the Cory Decarbonisation Project, to be located at Norman Road, Belvedere in the London Borough of Bexley (LBB; National Grid Reference/NGR 549572, 180512). The following figures which show the location of Cory Decarbonisation Project are also available in **Volume 2** of [this](#) the Environmental Statement (ES):

- **Figure 1-1: Site Boundary Location Plan (Volume 2);** and
- **Figure 1-2: Satellite Imagery of the Site Boundary Plan (Volume 2).**

1.1.2. The Applicant intends to construct and operate the Proposed Scheme to be linked with the River Thames. It comprises of the following key components, which are described below, and further detail is provided within **Chapter 2: Site and Proposed Scheme Description (Volume 1)**:

- The Carbon Capture Facility (including its associated Supporting Plant and Ancillary Infrastructure): the construction of infrastructure to capture a minimum of 95% of carbon dioxide (CO<sub>2</sub>) emissions from Riverside 1 and 95% of CO<sub>2</sub> emissions from Riverside 2 once operational, which is equivalent to approximately 1.3Mt CO<sub>2</sub> per year. The Carbon Capture Facility will be one of the largest carbon capture projects in the UK.
- The Proposed Jetty: a new and dedicated export structure within the River Thames as required to export the CO<sub>2</sub> captured as part of the Carbon Capture Facility.
- The Mitigation and Enhancement Area: land identified as part of the **Outline Landscape, Biodiversity, Access and Recreation Delivery Strategy (Document Reference 7.9)** to provide improved access to open land, habitat mitigation, compensation and enhancement (including forming part of the drainage system and Biodiversity Net Gain delivery proposed for the Proposed Scheme) and planting. The Mitigation and Enhancement Area provides the opportunity to improve access to outdoor space and to extend the area managed as the Crossness Local Nature Reserve (LNR).
- Temporary Construction Compounds: areas to be used during the construction phases for activities including, but not limited to office space, warehouses, workshops, open air storage and car parking, as shown on the **Works Plans (Document Reference 2.3)**. These include the core Temporary Construction Compound, the western Temporary Construction Compound and the Proposed Jetty Temporary Construction Compound.
- Utilities Connections and Site Access Works: The undergrounding of utilities required for the Proposed Scheme in Norman Road and the creation of new, or the improvement of existing, access points to the Carbon Capture Facility from Norman Road.

1.1.3. Together, the Carbon Capture Facility (including its associated Supporting Plant and Ancillary Infrastructure), the Proposed Jetty, the Mitigation and Enhancement Area, the Temporary Construction Compounds and the Utilities Connections and Site Access Works are referred to as the 'Proposed Scheme'. The land upon which the Proposed Scheme is to be located is referred to as the 'Site' and the edge of this land referred to as the 'Site Boundary'. The Site Boundary represents the Order Limits for the Proposed Scheme as shown on the **Works Plans (Document Reference 2.3)**.

## 1.2. **REPORT PURPOSE & STRUCTURE OBJECTIVES**

1.2.1. The purpose of this document is to identify potential measures to be implemented to control the routing and minimise, where practicable, the effects of Heavy Goods Vehicles (HGV) on the surrounding road network, local communities, and the environment during construction of the Proposed Scheme. The effects are assessed in **Chapter 18: Landside Transport Assessment (Volume 1)**, **(Document Reference 6.1)** and **Appendix 18-1: Transport Assessment (Volume 3)** **(Document Reference 6.3)** of the ES.

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1.2.2. This document also contains a framework for the implementation of travel planning measures for the movement of construction staff to and from the Site over the duration of the construction works. These effects are also assessed in **Chapter 18: Landside Transport (Volume 1) (Document Reference 6.1)** and **Appendix 18-1: Transport Assessment (Volume 3)** **(Document Reference 6.3)** of the ES.

1.2.3. The objectives of this Framework CTMP are to:

- outline the construction programme for the Proposed Scheme;
- minimise the impact of the movement of construction-related vehicles on the local community and road network;
- encourage construction staff to use active and sustainable forms of transport to travel to and from the Site;
- minimise emissions from construction vehicle movements;
- manage car parking on Site to ensure demand does not exceed supply; and
- provide safe and suitable Site access during the construction phase.

1.2.4. This document will be developed into a full CTMP upon the appointment of the Contractor(s), to be in substantial accordance with this outline framework, as secured by a DCO requirement. The full CTMP will draw from the range of potential measures set out in this framework.

1.2.5. It is important to recognise at this planning stage information is not available on the origin of the construction staff. Therefore, the full CTMP will be a 'live' document that will be regularly reviewed and updated to respond to changes in the number, distribution and travel patterns of the construction staff over the duration of the construction programme.

### 1.3. REPORT STRUCTURE

4.2.2.1.3.1. The remainder of this document is structured as follows:

- **Section 2** – describes the local setting and considerations, including location context, local access and key assumptions applied to date; and
- **Section 3** – describes the potential measures that may be implemented to control HGV routeing and minimise impacts during construction.

## 2. LOCAL CONTEXT & CONSIDERATIONS

### 2.1. INTRODUCTION

- 2.1.1. This section provides an overview of the [local context site location, the construction compounds](#) and access to the Site, before outlining the key [construction](#) considerations and assumptions contained within **Chapter 18: Landside Transport Assessment (Volume 1) (Document Reference 6.1)** and **Appendix 18-1: Transport Assessment (Volume 3) (Document Reference 6.3) of the ES** upon which the potential measures (outlined in **Chapter 3: Consideration of Alternatives (Volume 1) of the ES (Document Reference 6.1)**) are based upon.

### 2.2. SITE LOCATION CONTEXT

- 2.2.1. The Site is located immediately south of the River Thames, on Norman Road and within the Belvedere Industrial Area, which is land designated as a Strategic Industrial Location<sup>1</sup>. The Belvedere Industrial Area comprises of a number of industrial estates. The key highway links that are likely to be subject to daily traffic flow changes resulting from the construction period, which form the Study Area, are shown in **Figure 18-1: Landside Transport Study Area (Volume 2-) of the ES (Document Reference 6.2)**.

### 2.3. LOCAL ACCESS CONTEXT

#### 2.3. PROPOSED WORKS

##### TEMPORARY CONSTRUCTION COMPOUNDS

- 2.3.1. Construction works will take place across the Site as required. However, there are three areas of focus proposed for construction related activities: two temporary construction compounds designated for terrestrial works, and one specifically for the construction activities related to the Proposed Jetty and Belvedere Power Station Jetty (disused), shown on the **Works Plans (Document Reference 2.3)**.

##### THE CORE TEMPORARY CONSTRUCTION COMPOUND

- 2.3.2. The core Temporary Construction Compound will be located centrally within the Site, within the Carbon Capture Facility component.
- 2.3.3. The core Temporary Construction Compound will be used during construction for uses including but not limited to, construction activities, site offices, welfare, warehouses, workshops, open air storage and car parking. The core Temporary Construction Compound will be located across Borax North, Borax South, Creekside, Munster Joinery and Gannon land parcels. These land parcels other than Munster Joinery are currently in use as part of the construction of Riverside 2. This is beneficial in that these sites are already set up, surfaced and have utilities



connections (drainage, water and power). Additionally, there are appropriately made, existing accesses from Norman Road.

- 2.3.4. Site clearance, levelling and ground preparation works for the Munster Joinery land parcel may be undertaken to provide a suitable working compound if the existing ground and surface is found to be inadequate.
- 2.3.5. Following completion of the construction works, the land in the core Temporary Construction Compound will be utilised as part of the Caborn Capture Facility.
- 2.3.6. Designated Contractor(s) car parking will be focussed on the core Temporary Construction Compound.

### **THE WESTERN TEMPORARY CONSTRUCTION COMPOUND**

- 2.3.7. The western Temporary Construction Compound will be utilised to support the construction of flue gas ducting from Riverside 2, which borders the southern, western and partial northern perimeters of Riverside 2. The western Temporary Construction Compound can be accessed utilising the Riverside 2 internal access roads (which are currently under construction) and by a new ditch crossing.
- 2.3.8. Following completion of construction works most of the western Temporary Construction Compound will be reinstated to its prior use. A small section along the eastern border of the compound, will be utilised for the Flue Gas Supply Ductwork.

### **PROPOSED JETTY TEMPORARY CONSTRUCTION COMPOUND**

- 2.3.9. The Proposed Jetty Temporary Construction Compound will be used to facilitate construction activities related to the Proposed Jetty and Belvedere Power Station Jetty (disused), specifically to support construction of the Access Trestle for the Proposed Jetty.
- 2.3.10. The Proposed Jetty Temporary Construction Compound will be accessed via the Iron Mountain Records Storage and Asda Access Road, which will remain accessible to existing businesses throughout the construction period.
- 2.3.11. Following completion of the construction works of the Proposed Scheme, the Proposed Jetty Temporary Construction ~~Compound~~compound will be reinstated to its prior use but will be available for maintenance access during the operation phase. However, the Applicantapplicant is seeking permanent rights to utilise part of this land in the future for any required maintenance works to the Proposed Jetty, as shown on the **Land Plans (Document Reference 2.2)**.

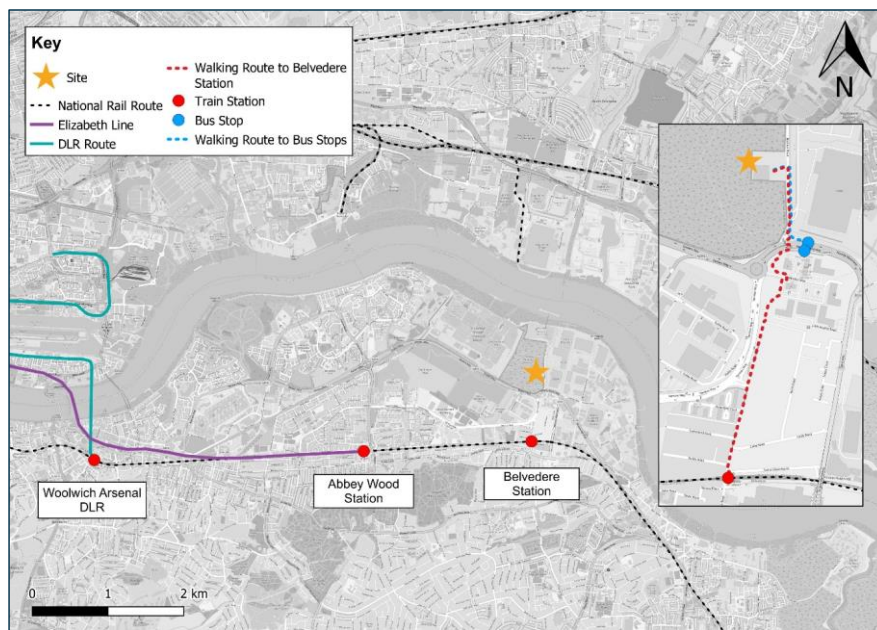
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## **2.4. CONSTRUCTION SITE ACCESSIBILITY**

- 2.4.1. The purpose of this section is the set out the accessibility of the construction compounds by HGV construction vehicles and construction staff. The Site location, its proximity to existing transport networks and the standard of the transport networks has the biggest influence on travel patterns. This section demonstrates that the Site is accessible by appropriate standard of roads for construction HGV access and is well-

[located for construction staff to be able to access and egress the Site by non-car modes.](#)

2.4.2. [A Site Accessibility Plan is provided in Error! Reference source not found. Figure 1, with a description of the Site accessibility by mode provided below.](#)



**Figure 1 - Site Accessibility Plan**

**ACTIVE TRAVEL**

2.4.3. [The Site will be accessible on-foot and by bicycle for construction staff living locally within the surrounding area and as part of a longer trip by public transport.](#)

2.4.4. [Norman Road has a footway that extends along its eastern side from the A2016 Picardy Manorway/Norman Road signalised junction up to the Riverside 1 and Riverside 2 \(under construction\) entrance. At the southern end of Norman Road, there is a signalised Toucan crossing which provides onward active travel connectivity to the east \(towards the eastbound bus stop on the A2016 Picardy Manorway\), to the south \(towards Belvedere Park, the westbound bus stop on the A2016 Picardy Manorway and Belvedere Railway Station via Norman Road/Yarnton Road\) and to the east \(facilitating access to the Crossness LNR via Footpath 2 \(FP2\)\).](#)

2.4.5. [The surrounding network is typified by providing good, wide, lit footways adjacent to the major carriageways \(A2016 Picardy Manorway, A2016 Eastern Way, Yarnton](#)

Way, B253 Picardy Manorway, A2016 Bronze Age Way, Anderson Way) which fosters an environment that is conducive to active travel.

- 2.4.6. Suitable crossing facilities (signalised crossings across multi-lane carriageways and uncontrolled crossings of single carriageways) with dropped kerbs and tactile paving are provided at key locations and on desire lines to support movements to and from the local facilities and residential areas surrounding the Site, thereby providing opportunities for journeys to be undertaken to and from the Site on-foot.
- 2.4.7. On-carriageway cycle lanes (delineated by white lining) are present along both the eastern and western sides of Norman Road. The northbound on-road cycle lane starts approximately 100m north of the A2016 Picardy Manorway/Norman Road signalised junction and extends for approximately 400 metres. After this, cyclists are taken off carriageway and cross (uncontrolled priority with dropped kerbs) to the adjacent side of Norman Road towards the shared-use path.
- 2.4.8. The England Coast Path (FP3/NCN1) routes through the Site, following the southern edge of the River Thames. This offers a traffic-free cycle route providing connectivity to Thamesmead to the west and Erith to the east and other destinations further afield along the River Thames corridor.
- 2.4.9. A wide range of areas south of the River Thames can be accessed from the Site within a 25-minute cycle, including Long Reach, Old Bexley, East Wickam, Plumstead and Royal Arsenal West. Importantly, both Belvedere Station and Abbey Wood Station – both of which offer a number of regular services – can be accessed from the Site within a 10–15-minute cycle.

### **BUS ROUTES**

- 2.4.10. The closest bus stops to the Site are located on the A2016 Picardy Manorway, approximately 350 metres from the main construction site, which translates to a 5-minute walk. Both bus stops are serviced by the 180, 401 and school service 601, all operated by Transport for London (TfL), which provide connectivity to Greenwich, Woolwich, Plumstead, Abbey Wood, Erith Thamesmead, Belvedere and Bexleyheath as well as Belvedere Station and Abbey Wood Station which connect the Site to the London Underground Network as well as to National Rail services.

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2.4.11. **Table 1** provides a summary of the available bus services. As the 601 service is a school bus service, this has been excluded from the analysis as it would not be available to future construction staff.

**Table 1 - Bus Timetable Information**

<u>Direction</u>	<u>Frequency</u>	<u>Day of the Week</u>		
		<u>Weekday</u>	<u>Saturday</u>	<u>Sunday</u>
<b>180</b> <u>Towards North Greenwich Station (Westbound)</u>	<u>First Bus</u>	<u>04:30</u>	<u>04:30</u>	<u>06:15</u>
	<u>Daytime Frequency</u>	<u>Every 8-12-minutes</u>	<u>Every 8-12-minutes</u>	<u>Every 15-minutes</u>
	<u>Last Bus</u>	<u>23:46</u>	<u>23:46</u>	<u>23:46</u>
<b>180</b> <u>Towards Erith Quarry / Fraser Road (Eastbound)</u>	<u>First Bus</u>	<u>05:06</u>	<u>05:06</u>	<u>07:25</u>
	<u>Daytime Frequency</u>	<u>Every 8-12-minutes</u>	<u>Every 8 to 11-minutes</u>	<u>Every 15-minutes</u>
	<u>Last Bus</u>	<u>01:01</u>	<u>01:01</u>	<u>01:01</u>
<b>401</b> <u>Towards Thamesmead Town Centre (Northbound)</u>	<u>First Bus</u>	<u>06:08</u>	<u>06:08</u>	<u>07:30</u>
	<u>Daytime Frequency</u>	<u>Every 15-minutes</u>	<u>Every 15-minutes</u>	<u>Every 30-minutes</u>
	<u>Last Bus</u>	<u>00:25</u>	<u>00:25</u>	<u>00:25</u>
<b>401</b> <u>Towards Bexleyheath Clock Tower (Southbound)</u>	<u>First Bus</u>	<u>05:40</u>	<u>05:40</u>	<u>06:58</u>
	<u>Daytime Frequency</u>	<u>Every 15-minutes</u>	<u>Every 15-minutes</u>	<u>Every 30-minutes</u>
	<u>Last Bus</u>	<u>23:55</u>	<u>23:55</u>	<u>23:55</u>

2.4.12. The frequent 180 and 401 bus services arrive from early in the morning and continue late into the evening, covering times before and after the construction hours and therefore provide a viable and attractive mode of travel for construction staff.

### **RAILWAY/UNDERGROUND/DLR**

2.4.13. The Site is well located to be accessed by National Rail and Docklands Light Rail (DLR) services. Belvedere Station is an approximate 17-minute walk from the Site on Norman Road and provides frequent services to London Cannon Street and Dartford. Stations along the route provide excellent interchange connectivity to a wide range of destination across London and beyond, making public transport a viable and attractive option for construction staff.

2.4.14. From Abbey Wood Station (one stop and a 3-minute journey time west of Belvedere Station) construction staff can access the Elizabeth Line, which provides frequent

[services to key destinations across central and west London and terminating at Reading.](#)

2.4.15. [From Woolwich Arsenal \(a 9-minute train journey from Belvedere Station\) the DLR is accessible providing an additional frequent public transport option. The access provided by Belvedere Station to a wide number of transport interchanges across London and beyond means the site is highly accessible by frequent and attractive public transport. Error! Reference source not found. Table 2 presents the information associated with the local railway stations including train services to key destinations and their frequency.](#)

**Table 2 - Train Service Information**

	<a href="#">Belvedere Railway Station</a>	<a href="#">Abbey Wood Railway Station</a>
<b>Managed By</b>	<a href="#">Southeastern</a>	<a href="#">TfL</a>
<b>Fare Zone</b>	<a href="#">5</a>	<a href="#">4</a>
<b>Passenger Service Operators</b>	<a href="#">Thameslink (National Rail)</a> <a href="#">Southeastern (National Rail)</a>	<a href="#">Elizabeth Line (TfL)</a> <a href="#">Thameslink (National Rail)</a> <a href="#">Southeastern (National Rail)</a>
<b>Service Information for Direct Trains</b>	<a href="#">London Cannon Street</a> <a href="#">40-minute journey</a> <a href="#">4 trains per hour</a>	<a href="#">London Cannon Street</a> <a href="#">35-minute journey</a> <a href="#">4 trains per hour</a>
<b>[Key Destination]</b>	<a href="#">Dartford</a>	<a href="#">Luton</a>
<b>[Approximate Journey Time]</b>	<a href="#">11-minute journey</a> <a href="#">2 trains per hour</a>	<a href="#">1 hour and 33-minute journey</a> <a href="#">2 trains per hour</a>
<b>[Trains per Hour]</b>	<a href="#">Eltham</a> <a href="#">27-minute journey</a> <a href="#">2 per hour</a>	<a href="#">Gravesend</a> <a href="#">31-minute journey</a> <a href="#">2 trains per hour</a>
	<a href="#">Gravesend</a> <a href="#">29-minute journey</a> <a href="#">2 per hour</a>	<a href="#">Maidenhead</a> <a href="#">1 hour and 10-minute journey</a> <a href="#">4-5 trains per hour</a>
		<a href="#">Reading</a> <a href="#">1 hour and 23-minute journey</a> <a href="#">2-3 trains per hour</a>
		<a href="#">Heathrow Terminal 4</a> <a href="#">1 hour and 1-minute journey</a> <a href="#">4 trains per hour</a>

2.4.16. [Importantly, rail services from both stations start early in the morning and continue late into the evening, covering times before and after the construction hours. This will enable construction staff to access and egress the Site by public transport.](#)



Planning Inspectorate Reference: EN010128  
**Framework Construction Traffic Management Plan**  
Application Document Number: 7.7

## HIGHWAY NETWORK

- 2.4.17. The Site will be accessed from Norman Road. Norman Road is single carriageway of circa 7 metres in width, is lit along its length and has a posted speed limit of 30mph. Norman Road provides access to Riverside 1 and Riverside 2 (under construction) and three large industrial units (via an adjacent spur) to the A2016 Picardy Manorway.
- 2.4.18. Norman Road is an appropriate standard road to accommodate construction HGV and staff vehicle movements. Norman Road currently accommodates regular HGV movements to and from Riverside 1, the other industrial units and the Riverside 2 construction site.
- 2.4.19. Norman Road forms the minor arm of a signalised junction (left-in left-out) with the A2016 Picardy Manorway. The A2016 and A206 are urban dual carriageway standards roads which function as an important east-west route from the A282/M25 (Junction 1a) in the east. The A2016 and A206 are appropriate standard roads to accommodate a temporary increase in construction HGV and staff vehicle movements.
- 2.4.20. It is recognised that this main vehicular access route to and from the Site is congested during peak travel times. This existing issue, particularly around the Dartford Crossing will act as a substantial 'stick' that will positively influence construction staff travel behaviour to and from the Site during the construction period. This existing congestion issue will encourage construction staff to access and egress the site by non-car modes using the options set out in this section or avoid the peak times through arriving at the site early and leaving later in the evening.

## 2.4.2.5. CONSIDERATIONS AND ASSUMPTIONS

### **INDICATIVE CONSTRUCTION PROGRAMME**

2.4.1-2.5.1. Construction for the Proposed Scheme is expected to start in 2026. There are two options for construction of the Carbon Capture Facility:

- Option 1 – Two-Phase Construction: First, one Carbon Capture Plant and CO<sub>2</sub> Processing Plant is constructed along with the LCO<sub>2</sub> Buffer Storage Area and LCO<sub>2</sub> Piping and Utilities to Proposed Jetty, the Supporting Plant, Proposed Jetty, and Ancillary Infrastructure. Then the second Carbon Capture Plant and CO<sub>2</sub> Processing Plant is constructed sequentially (expected duration 60 months).
- Option 2 – Single-Phase Construction: All elements of the Carbon Capture Facility, the Proposed Jetty and the Ancillary Infrastructure are constructed in



parallel (expected duration 42 months). Option 2 encapsulates either two plant design or a single plant design<sup>a</sup>.

2.4.2.2.5.2. Option 2 has been considered in **Chapter 18: Landside Transport Assessment (Volume 1)** and **Appendix 18-1: Transport Assessment (Volume 3)** as this presents the worst case scenario. This is because there would be greater construction traffic due to the consolidated construction programme. The use of Option 2 in the assessment is also representative of the worst case scenario for this topic for single plant design or two plant design.

### ESTIMATED PEAK TRIP ATTRACTION

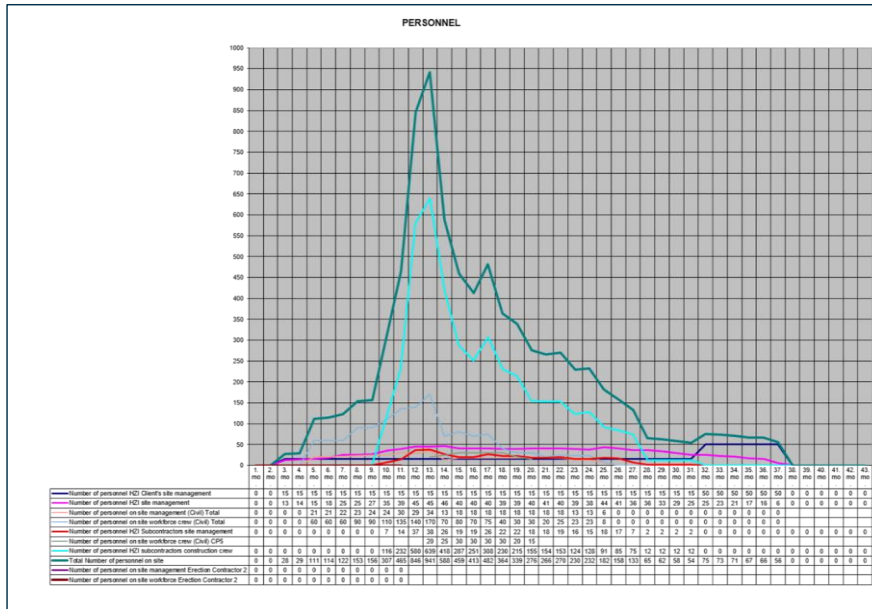
2.4.3.2.5.3. As outlined in **Chapter 18: Landside Transport Assessment (Volume 1)** ([Document Reference 6.1](#)) and **Appendix 18-1: Transport Assessment (Volume 3)**, ([Document Reference 6.3](#)) of the **ES**, during the peak construction year (2028), it is anticipated that there will be up to 1,000 ~~workers~~[construction staff](#) on Site per day, of which 480 ~~are anticipated~~[were predicted](#) to use a private vehicle. In addition, there will be approximately 25 daily HGV deliveries (50 two-way movements).

2.5.4. [At this stage, Contractor\(s\) have not been appointed; therefore, it is difficult to accurately predict the profile of staff numbers that would be on Site across the construction programme. It is, however, recognised that the nature of construction work would change over time, resulting in different demands for staff, both in terms of quanta and skills.](#)

2.5.5. [Error! Reference source not found. Figure 2 provides an overview of the staff projection associated with Riverside 2 \(adjacent to the Proposed Scheme\). The construction staff projection for Riverside 2 provides an appropriate comparable proxy to the construction projection of the Proposed Scheme due to it being similar in scale, location and duration.](#)

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<sup>a</sup> A two-plant design will be the worst case scenario, requiring a larger quantity of plant and equipment in comparison to the single-plant design and having a longer duration at 42 months. A single-plant design will have a duration of 36 months.



**Figure 2 - Riverside 2 Construction Staff Projection**

2.5.6. The construction staff projection for Riverside 2 demonstrates a defined “peak” – Month 13 (941 personnel) – with the shouldering months also exhibiting personnel numbers >500. However, it can be seen that the peak construction is short-term (circa 3-months whereby personnel on Site is >500), with personnel numbers much lower throughout the rest of the construction programme.

**ASSUMED WORKING HOURS**

2.4.4.2.5.7. During construction, it is expected that standard working hours for the landside activities are Monday to Friday 07:00 to 19:00. On Saturdays, standard working hours are 07:00 to 13:00, with no working on Sundays or Bank Holidays. The working hours do not apply to construction works where these are (a) are carried out within existing buildings or buildings constructed as part of Proposed Scheme; (b) are carried out with the prior approval of the relevant planning authority; or (c) are associated with an emergency.

**ASSUMED HGV ROUTEING**

4.0.0. The Transport Assessment for the adjacent Riverside 2 (now under construction)<sup>2</sup> assumed construction HGV routing from the north/west via the A2016 Eastern Way (25%), and the southeast (towards the M25) via the A2016 Bronze Age Way and



A206 (75%). Yarnton Way has a 3.0t weight restriction so would not be suitable for any HGV. The Riverside 2 Transport Assessment was developed with input and approval from the local highways authorities; therefore, the same assumptions have been applied for the Proposed Scheme. Agreement on these assumptions was sought from the relevant local highways authorities for this Proposed Scheme, as detailed in **Chapter 18: Landside Transport Assessment (Volume 1)**. These form the basis of the designated routes set out below.

## 5.3. MEASURES

### 5.1.3.1. INTRODUCTION

5.1.4.3.1.1. This section outlines potential measures that will/could be implemented to minimise, where practicable, the effects of construction vehicles on the surrounding transport networks, local communities, and the environment. These measures have been grouped into:

- Construction HGV Movements and Site Access:
  - safety/environmental standards and programmes;
  - delivery schedules;
  - designated routes;
  - site signage;
  - mud/debris management;
  - dust management;
  - traffic management;
- ~~construction workforce travel plan;~~
  - ~~communication, with local residents~~Construction Workforce Travel Plan (CWTP):
    - SMART targets;
    - measures;
  - Communication Strategy; and ~~neighbouring businesses;~~
  - Implementation, Monitoring and Updating.
- ~~implementing, monitoring and updating.~~

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## 3.2. CONSTRUCTION HGV MOVEMENTS AND SITE ACCESS

### SAFETY/ENVIRONMENTAL STANDARDS AND PROGRAMMES

5.2.1.3.2.1. The Contractor(s) would seek to ensure all HGV/HGVs arriving at the Site comply with sufficient safety measures and requirements relating to Work Related Road Risk (WRRR), as detailed by Transport for London (TfL); TfL. The full CTMP(s) prepared by the Contractor(s) would detail how compliance would be enforced, monitored and managed.

5.2.2.3.2.2. Industry best practice would be adopted, wherever practicable, to support the construction stage of the Proposed Scheme. Through the procurement process, the Contractor(s) and their subcontractors, could be members of, or signatories to, relevant best practice schemes and initiatives including, for example:

- Considerate Contractors Scheme (CCS) – promotes best practice that relates to on Site activities and those in the vicinity of the Site. The Site could be registered under CCS.
- Fleet Operator Recognition Scheme (FORS) – for suppliers that would deliver to, and hauliers that visit the Site, the Contractor(s) could mandate these businesses to be members of FORS before they could deliver to Site – unless a specific exception is agreed with the relevant local [highways/highway](#) authorities prior to that haulier or supplier visiting Site.
- Construction Logistics and Community Safety (CLOCS) – brings the construction logistics industry together to revolutionise the management of work-related road risk and ensure a road safety culture is embedded across the industry. The Contractor(s) could require all hauliers and suppliers to be CLOCS compliant – unless a specific exception is agreed with the relevant local [highways/highway](#) authorities prior to that haulier or supplier visiting Site.
- Construction Logistics Improvement Group (CLIG) – comprises around 50 construction industry stakeholders which are involved in TfL's behaviour change project, aimed at minimising the impact of the increasing amount of construction and to ultimately reducing the congestion and improve safety and air quality for London and the surroundings.

## DELIVERY SCHEDULES

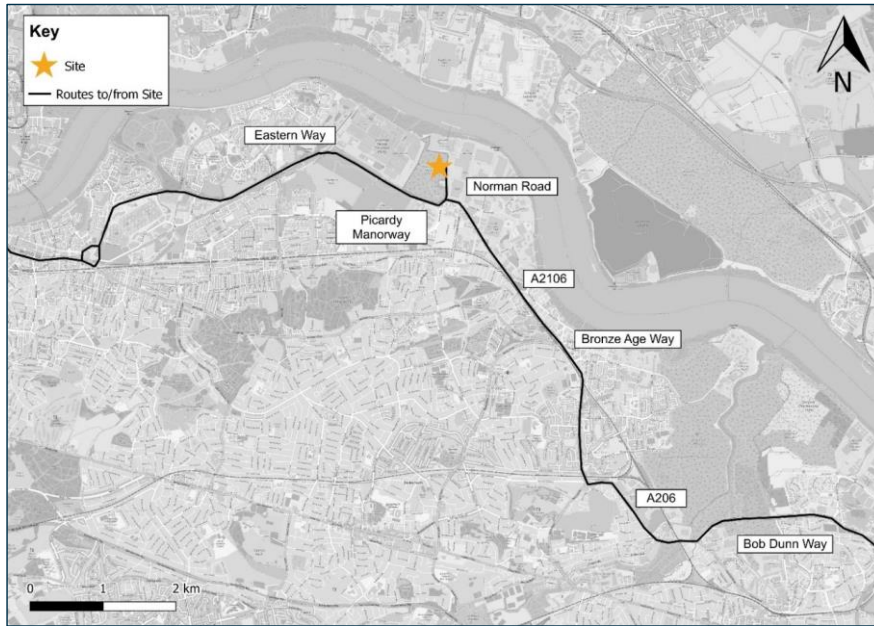
[5.2.3.3.2.3.](#) To minimise disruption, HGV deliveries could be scheduled to arrive/depart the Site to avoid the network peaks, whilst still occurring during the construction operating hours. HGV deliveries will be made during the standard working hours, unless agreed in exceptional circumstances in advance with the relevant local [highways/highway](#) authorities. The only expected HGV deliveries outside these hours are likely to be associated with Abnormal Indivisible Loads (AIL), if required, and these deliveries/their enabling mechanisms (e.g. traffic management) will be agreed on a case-by-case basis with the relevant local [highways/highway](#) authorities.

## DESIGNATED ROUTES

[5.2.4.](#) HGVs associated with the construction of the Proposed Scheme would be required to access/depart the Site from Norman Road. The Contractor(s) will prepare and distribute [aan](#) HGV routing plan to all HGV drivers during their induction. [A draft routing plan is provided in Error! Reference source not found.Figure 3.](#) The Contractor(s) will ensure that construction HGV deliveries use the designated routes to access and egress the Site.

[5.2.5.](#) If required, sanctions can be put in place by the Contractor(s) to deal with any non-compliance issues.

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**Figure 3 - Draft HGV Routeing Plan**

- 3.2.4. [As shown in Error! Reference source not found. Figure 3](#), the proposed designated construction HGV Routeing Plan would require vehicles to route to and from the Site via the A2016 and the A206 towards the M25. Routes through Dartford Town Centre are excluded from the proposed routeing plan.
- 3.2.5. The Transport Assessment for the adjacent Riverside 2 (now under construction)<sup>3</sup> assumed construction HGV routeing from the north/west via the A2016 Eastern Way (25%), and the southeast (towards the M25) via the A2016 Bronze Age Way and A206 (75%). The Riverside 2 Transport Assessment was developed with input and approval from the local highway authorities; therefore, the same assumptions have been applied for the Proposed Scheme. Agreement on these assumptions was sought from the relevant local highway authorities for this Proposed Scheme, as detailed in **Chapter 18: Landside Transport (Volume 1) of the ES (Document Reference 6.1)**.
- 3.2.6. With 75% of the construction HGVs assumed to route to/from the southeast along A2016 Bronze Age Way (a route designated as 'permitted' on the London Lorry

Control Scheme (LLCS) map), this would mean that the majority of construction-related movements would occur along routes that are already permitted for use by HGVs over 18 tonnes maximum gross weight.

3.2.7. LLCS controls the movement of HGVs over 18 tonnes and operates during evenings and at weekends on specific roads in London to minimise noise pollution. Enforcement is carried out in residential areas during unsociable hours through restricted use of these roads. The primary aim of the LLCS is to assist with minimising noise pollution in residential areas during the prescribed hours of:

- Monday - Friday: 9pm - 7am (including 9pm Friday night to 7am Saturday morning);
- Saturday: 1pm - 7am Monday morning; and
- Normal restrictions apply during public and bank holidays.

3.2.8. Vehicles over 18 tonnes maximum gross weight must obtain permission to use the restricted roads during the prescribed construction hours (detailed in Section 2.3 of the Outline Code of Construction Practice (Document Reference 7.4). The A2016 from the Eastern Way roundabout to the M25 Junction 1a is shown as a permitted route.

## **SITE SIGNAGE**

5.2.6-3.2.9. The Contractor(s) will prepare an appropriate signage strategy and erect the relevant signage at the main junctions to appropriately direct all HGV traffic relating to the Proposed Scheme (both accessing and egressing the site) via the approved designated routes. The Contractor(s) would be required to maintain all the HGV route signage for the duration of the construction phase and to regularly check to confirm they are visible and fit for purpose.

## **MUD/DEBRIS MANAGEMENT**

5.2.7-3.2.10. Any mud/debris arising from the Site should, so far as feasibly practicable, not be transferred onto the public highway. Therefore, in the interests of highway safety, wheel cleaning facilities (or a suitable alternative) could be installed, as required, at the Site from the start of the construction phase in accordance with the **Outline Code of Construction Practice (Outline CoCP) (Document Reference 7.4)**.

## **DUST MANAGEMENT**

5.2.8-3.2.11. Any dust arising from the Site should be minimised. The Contractor(s) will be aware of the potential human health and ecological effects of dust particulates and ensure that basic remedial action is taken to limit particle pollution.

5.2.9-3.2.12. It is anticipated that the construction activities will generate dust during extended periods of dry weather. This dust should be suppressed by water bowsers damping down site entrances and working areas, either on a continuous or as-required basis. Other techniques adopted to control dust during the construction phase could include:

- cleaning the wheels and chassis of vehicles to avoid the spread of mud, debris and dust;
- ensuring that HGV carrying debris or waste are properly covered and not overloaded;
- cleaning the public carriageway near the site entrances as required; and
- providing dust bags and water suppression where disk cutters are being used.

~~5.2.10-3.2.13.~~ Dust management measures such as these are set out in the **Outline CoCP (Document Reference 7.4)** in order to minimise the risk of adverse effects arising from dust. A full CoCP will be developed to be in substantial accordance with this outline document, which will set out the final measures to mitigate these impacts.

## TRAFFIC MANAGEMENT

~~5.2.11-3.2.14.~~ If required, traffic management ~~can~~will be implemented to effectively manage and control traffic flow where construction activities would likely impact the typical operation of a highway link. It is anticipated that the Contractor(s) would identify the need for traffic management and plan appropriate strategies that would enable the safe movement of all road users. Traffic management will be agreed on a case-by-case basis with the relevant local ~~highways~~highway authorities.

### 3.3. CONSTRUCTION WORKFORCE TRAVEL PLAN

~~5.2.12-3.3.1.~~ A ~~Construction Workforce Travel Plan~~ (CWTP) will be developed as a part of the full CTMP(s) (as secured by the **Draft DCO (Document Reference 3.1)**) to promote sustainable transport by ~~workers~~staff during construction of the Proposed Scheme. Through inclusion of details of travel planning initiatives and measures within the CWTP, construction staff engaged on the Proposed Scheme will be encouraged to use alternatives to single occupancy car travel to the Site which could include the promotion of walking, cycling, bus and rail (with potential supplementary linkages between transport interchanges for example, via minibus), car sharing and use/incentivisation of electric vehicles.

~~3.3.2.~~ Section 2.4 demonstrates the Site's accessibility, with the CWTP measures leveraging the benefits of the location to maximise sustainable travel by construction staff. The objectives of the CWTP are to:

- minimise construction staff car usage (particularly single occupancy car journeys);
- maximise the use of sustainable transport modes by construction staff accessing the Site; and
- minimise the impact of the movement of construction related vehicles on the local community and road network.

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### SMART TARGETS

- 3.3.3. As per guidance from TfL, Travel Plan targets should be Specific, Measurable, Attainable, Realistic and Time-bound (SMART). At present, there are a number of unknown factors and considerations including the origin and number of construction staff that would commute on a daily basis to the Site in each of the main construction stages.
- 3.3.4. The nature of construction work would change over time. Initially, work would involve Site establishment works, where labour may be sourced locally. However, as construction progresses, the proportion of staff with more specialist skills would increase and this, in turn, may influence the catchment area from which such staff can be drawn.
- 3.3.5. At this stage, an interim target can be provided to set the scale of ambition for the Full CWTP. Achieving a car driver mode share of 38% over the duration of the construction phase of the Proposed Scheme is considered appropriate taking into consideration the Site's accessibility by non-car modes and evidence from local commuting travel behaviour. This target would represent a 10% reduction in private vehicles arriving at the Site when compared to the existing travel to work mode share of staff within Bexley, based on the 2021 Census Journey to Work data for the Bexley 003 Middle Layer Super Output Area (MSOA).
- 3.3.6. This interim target would be refined as appropriate once more accurate construction worker mode share data is provided from an initial baseline travel survey that would take into account the location of the construction staff travelling to the Site on a daily basis.

### MEASURES

~~5.2.13.3.3.7.~~ It is anticipated that the Contractor(s) would undertake the role of Travel Plan Coordinator (TPC) who would ~~champion~~implement initiatives to ~~reduce~~minimise the environmental impacts of workforce travel and the impacts of commuting on the local road network. The TPC should:

- Implement and actively promote Travel Plan measures to maximise the use of non-car modes of travel to and from work, such as:
  - implementing a car share scheme or promoting existing car sharing schemes in the area (e.g Liftshare);
  - providing information on public transport services in the area and the walking routes to the local bus stops and Belvedere Station;
  - promoting the use of cycle routes and onsite supporting facilities (safe, secure cycle parking, washrooms and lockers) at the Core Temporary Construction Compound;

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- promote training (through TfL’s existing Cycle Skills training initiatives), to encourage appropriate safer cycling equipment and guidance on safe cycle maintenance; and
- extolling/promoting the virtues/benefits of active travel and encouraging walking for those living within 1km of the Site or cycling for those living within 5km.
- ensure the requirements for workforce inductions, briefings and communications include information and guidance on the importance of environmentally friendly commuting;
- act as a focal point for workforce commuting issues; and
- manage the monitoring, assessment and review of workforce travel patterns.

3.3.8. Appropriate levels and types of temporary car parking will be provided onsite to accommodate the anticipated number of drivers. Construction car parking will be monitored onsite to ensure demand does not exceed supply. As the Contractor(s) have not yet been appointed, the exact details of the required parking provisions are currently unknown.

3.3.9. It will be made clear to construction staff that all car parking must take place within the Site and no parking is permitted on the surrounding streets.

3.3.10. Should local residents or businesses experience parking issues related to the construction of the Proposed Scheme, they would be able to contact the Applicant using the details provided on the Proposed Scheme’s website, and appropriate measures would be implemented to address these concerns.

3.3.11. The monitoring of parking stress on the surrounding streets is considered unnecessary given that appropriate parking provision will be provided onsite.

3.3.12. Onsite storage facilities could be provided by the Contractor(s). This facility would encourage construction staff to store their tools and Personal Protective Equipment (PPE) onsite, reducing the number of tools that would need to be carried each day and assist those staff who are considering cycling, car sharing or public transport as a travel mode.

## 3.4. COMMUNICATION STRATEGY

### Local Residents

3.4.1. Achieving the objectives will require the HGV management and construction worker sustainable travel measures to be communicated to construction staff. Any construction traffic issues arising during the construction works also need to be communicated to the Applicant for investigation and the implementation of remedial measures. This section sets out the communications channels that would be used.

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### Site Induction Materials

3.4.2. For construction staff relevant information will be provided as part of the Site induction process. This will include relevant information on HGV routeing and site access locations, active travel and public transport options and car sharing.

3.4.3. Relevant information should be provided to construction staff in an information park prior to them starting work at the Site. This will enable staff to make informed decisions about their travel mode prior to starting work at the Site.

### Proposed Scheme's Website

3.4.4. To keep local residents and neighbouring businesses informed, relevant construction information will be provided on the Proposed Scheme's website, which would be regularly updated and provide sufficient advance notice of any significant changes to highway operations. The website will include contact details for local residents and business the discuss and raise any concerns with the Applicant.

### Noticeboards

~~5.2.15.~~3.4.5. Contact details ~~would~~will be displayed on a ~~notice board~~noticeboard adjacent to the Site entrance and the Temporary Construction Compounds, for members of the public. local residents and businesses to contact should they have any issues regarding construction traffic. ~~Local residents would be updated on the construction of the Proposed Scheme via a regular update bulletin posted on the project website.~~

### Neighbouring Businesses

#### Traffic Management Forum

~~5.2.16.~~3.4.6. The TPC would be responsible for ensuring ~~coordination with adjacent developments and that local~~ businesses and Royal Mail are kept informed about relevant construction works to minimise traffic disruption. They would also be responsible for promoting a good working relationship with the immediate neighbours to the Site and dealing with any traffic complaints arising from the construction of the Proposed Scheme.

3.4.7. If considered necessary by LBB when considering the full CTMP(s), a Traffic Management Forum (TMF) could be established to facilitate regular liaison with key stakeholders throughout the construction period. The TMF could meet (monthly/bi-monthly/quarterly) to discuss issues and opportunities over the duration of the construction period.

### **5.3.3.5. IMPLEMENTING, MONITORING AND UPDATING**

5.3.1.3.5.1. This document does not include a detailed and defined description of how the full CTMP(s) would be implemented, monitored and updated. However, the following approach could be implemented.

5.3.2-3.5.2. It is anticipated that a suitably qualified person from the Contractor(s) would be responsible for implementing the full CTMP(s) on behalf of the Contractor(s). Once implemented, it is expected that the data and information collected as part of the full CTMP(s) could include:

- Vehicle movements:
  - number of vehicle movements to Site providing data on:
    - total vehicles accessing the Site;
    - type/fuel type/size/age of vehicles; [and](#)
    - time spent on Site.
  - Breaches, complaints and non-compliance:
    - vehicle routeing;
    - unacceptable queuing;
    - unacceptable parking; and
    - Ultra Low Emissions Zone (ULEZ) compliance.
  - Safety:
    - logistics-related accidents;
    - record of associated injuries; and
    - vehicles and operations not meeting safety requirements.
  - Workforce Travel Patterns:
    - details of staff travel modes when commuting to Site;
    - summary of travel times; and
    - challenges and obstacles that are limiting the maximisation of non-car travel.

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~~5.3.3. The data collected could be made available, upon request, for transparency.~~

~~3.5.3. A robust monitoring process, developed in consultation with LBB and set out in the full CTMP, would be implemented to track progress and demonstrate whether the targets are being achieved. In the event that targets are not being met, alternative measures will be developed and implemented with the agreement of LBB.~~

## 6.4. REFERENCES

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<sup>1</sup> London Borough of Bexley. (2023). 'The Bexley Local Plan 2023'. Available at: <https://www.bexley.gov.uk/sites/default/files/2023-07/bexley-local-plan-adopted-26-april-2023.pdf>

<sup>2</sup> Cory Environment Holdings. (2018). 'Riverside Energy: Riverside Energy Park: Transport Assessment'. Available at: <https://infrastructure.planninginspectorate.gov.uk/wp-content/uploads/projects/EN010093/EN010093-000244-6.3%20ES%20Technical%20Appendices%20B.1%20Transport%20Assessment.pdf>

<sup>3</sup> Cory Environment Holdings. (2018). 'Riverside Energy: Riverside Energy Park: Transport Assessment'. Available at: <https://infrastructure.planninginspectorate.gov.uk/wp-content/uploads/projects/EN010093/EN010093-000244-6.3%20ES%20Technical%20Appendices%20B.1%20Transport%20Assessment.pdf>



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