



Development Consent Order

Application Reference Number: WW010001

Documents for Certification September 2014

We, Lindsay Speed and Sarah Fairbrother hereby certify that this is a true copy of the environmental statement referred to in Article 61 (1) (f) of the Thames Water Utilities Limited (Thames Tideway Tunnel) Order 2014.

Lindsay Speed

Sarah Fairbrother

September 2014

**Thames
Tideway Tunnel**



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Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Environmental Statement

Doc Ref: **6.2.01**

Volume 1: Introduction to the Environmental Statement

Appendix A: Code of Construction Practice

APFP Regulations 2009: Regulation **5(2)(a)**

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January 2013

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Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Acton Storm Tanks

APFP Regulations 2009: Regulation **5(2)(q)**

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Thames Tideway Tunnel

Code of Construction Practice Part B

Acton Storm Tanks

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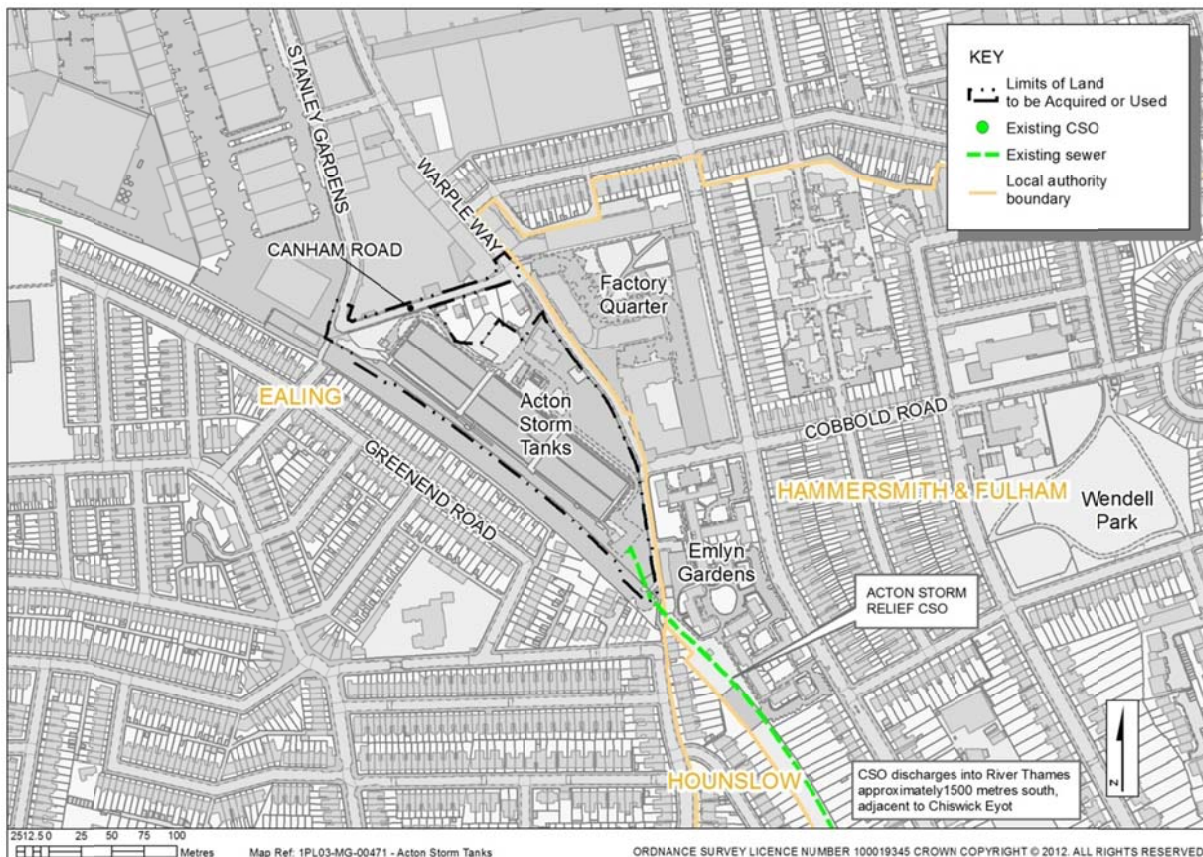
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1 Acton Storm Tanks

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Acton Storm Tanks site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough (LB) of Ealing and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> standard continuous for main tunnel secondary lining phase. <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	As per text in <i>CoCP</i> Part A
Site security / hoarding requirements	<p>Hoarding height on the boundary of the site with 1-5 Canham Road and with Greenend Road will be increased from 2.4m to 3.6m.</p> <p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a incorporating suitable art work on public facing sections.</p>
Other items	When mains power is not used, the contractor will document why this is the case in advance to LB of Ealing.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The site access will be from The Vale via Warple Way and Canham Road with only a left turn into the site and left turn out. Vehicles will egress to The Vale via Canham Road and Stanley Gardens.</p> <p>The site entrance will be designed to prevent any vehicles over swinging the footpath.</p> <p>Safe access for construction vehicles will be maintained during winter conditions, along Warple Way, Canham Road and Stanley Gardens.</p> <p>The security barrier will be positioned to allow a standard rigid tipper vehicle to be wholly off the road whilst awaiting barrier operation.</p>
Traffic management	<p>Five sections of on street parking on Canham Road, Warple Way and Stanley Gardens will be suspended with no re-provision.</p> <p>Access to a third party vehicle parking area to be reduced to one lane at entrance for short period during construction. Access for general traffic will be maintained throughout, unless agreed otherwise</p>

Topic	Site-specific requirement
	<p>with the local authority.</p> <p>Some temporary parking suspension will be required in a third party vehicle parking area during construction.</p> <p>The contractor will manage entry and egress of vehicles across the entrance and potential conflicts with pedestrians crossing, by use of measures such as traffic marshals. This is particularly for pedestrians going to/from the existing nursery.</p>
Event restrictions	N/A
River transport	N/A
Other	As per text in <i>CoCP</i> Part A.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>See hoarding requirements above.</p> <p>The construction area around the shaft will be covered by an enclosure/building during the main tunnel secondary lining works. The building will have cladding with a specified sound reduction value. The building openings will be designed to be away from sensitive noise receptors and will be kept closed when not in use at night. Only essential use of openings at night.</p> <p>Movements of vehicles on the site outside standard hours to be restricted.</p> <p>Enclose with suitable structure and acoustic attenuation material the concrete batching plant.</p> <p>Compaction of the fill material in the storm tanks will be undertaken using machinery generating the lowest practicable vibration levels which still enables the required level of compaction to be completed. Specifically, the use of large twin-drum vibrating rollers will only be used in locations where vibration levels can be controlled to less than the impact criteria.</p>
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in CoCP Part A.
Dust emissions/control	Reference should be made to Part A para. 7.5.1 in agreeing locations and data provisions to LB of Hounslow and LB of Ealing. Monitoring should incorporate locations to cover receptors on Greenend Road. Baseline monitoring for PM ₁₀ and NO ₂ will be undertaken for a minimum of 12 months. Note that the nearest AURN monitor is currently at North Kensington. The monitoring layout will include a continuous monitor located at each end of a transect of the site, with regards to the prevailing wind direction. An additional monitor will be located at the boundary of the site with 2-10 Greenend Road.
Odour	As per text in CoCP Part A.
Other	As per text in CoCP Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in CoCP Part A.
Control on abstraction	As per text in CoCP Part A.
Ground treatment / dredging	As per text in CoCP Part A.
Other	As per text in CoCP Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in CoCP Part A.
Site-specific issues / mitigation	As per text in CoCP Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	Where possible excavated material arising from works on site will be utilised to fill the northern tanks.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Bird and bat boxes will be installed.
Protection of trees	Replanting of moderate quality (prominent) existing trees with high quality trees upon completion. See below for details of advance planting.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Visual	Advanced planting to provide tree line screen down eastern boundary and south eastern corner of CSO site hoarding.

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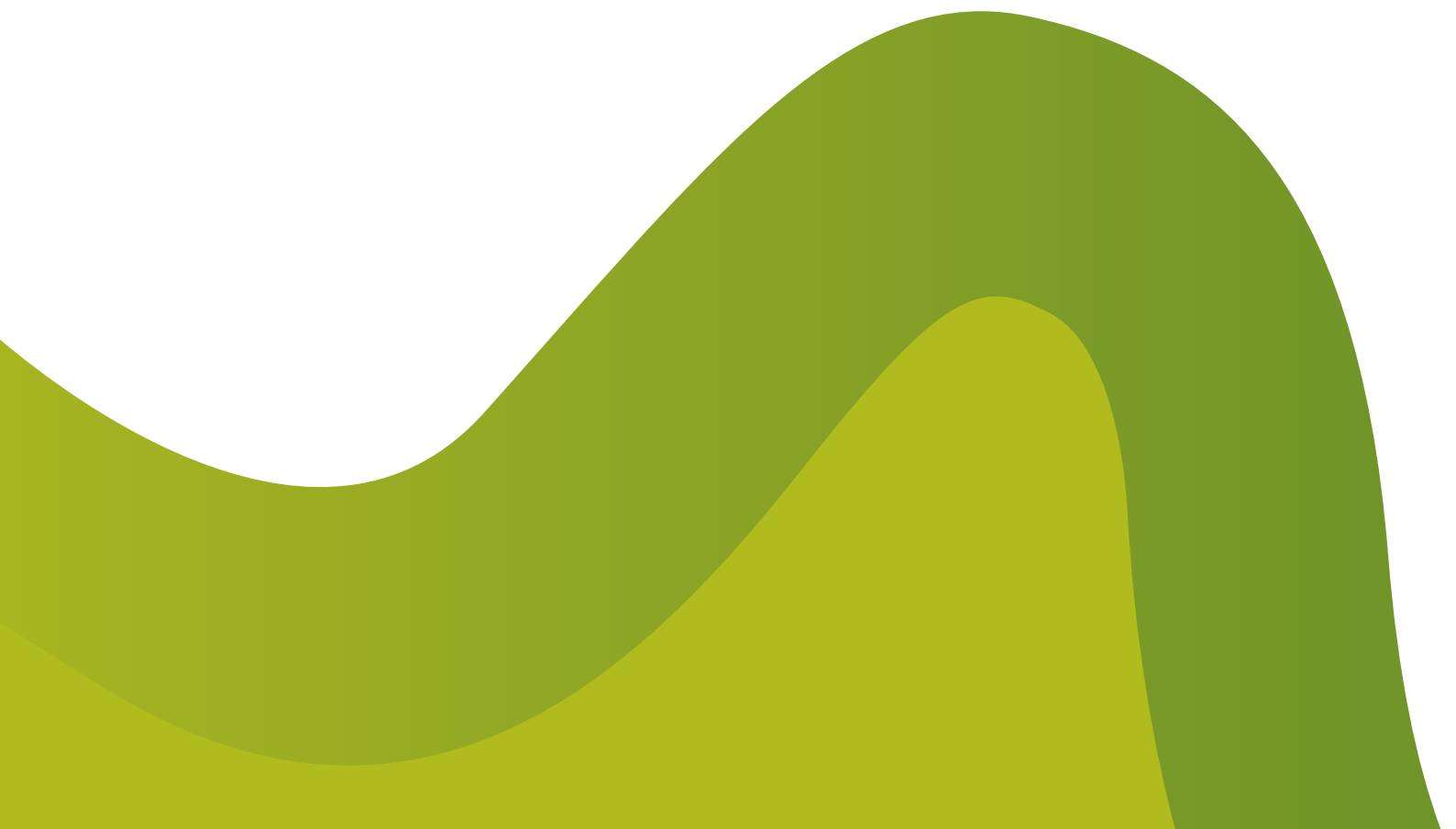
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DCO-DT-000-ZZZZ-071902



Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Hammersmith Pumping Station

APFP Regulations 2009: Regulation **5(2)(q)**

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Code of Construction Practice Part B

Hammersmith Pumping Station

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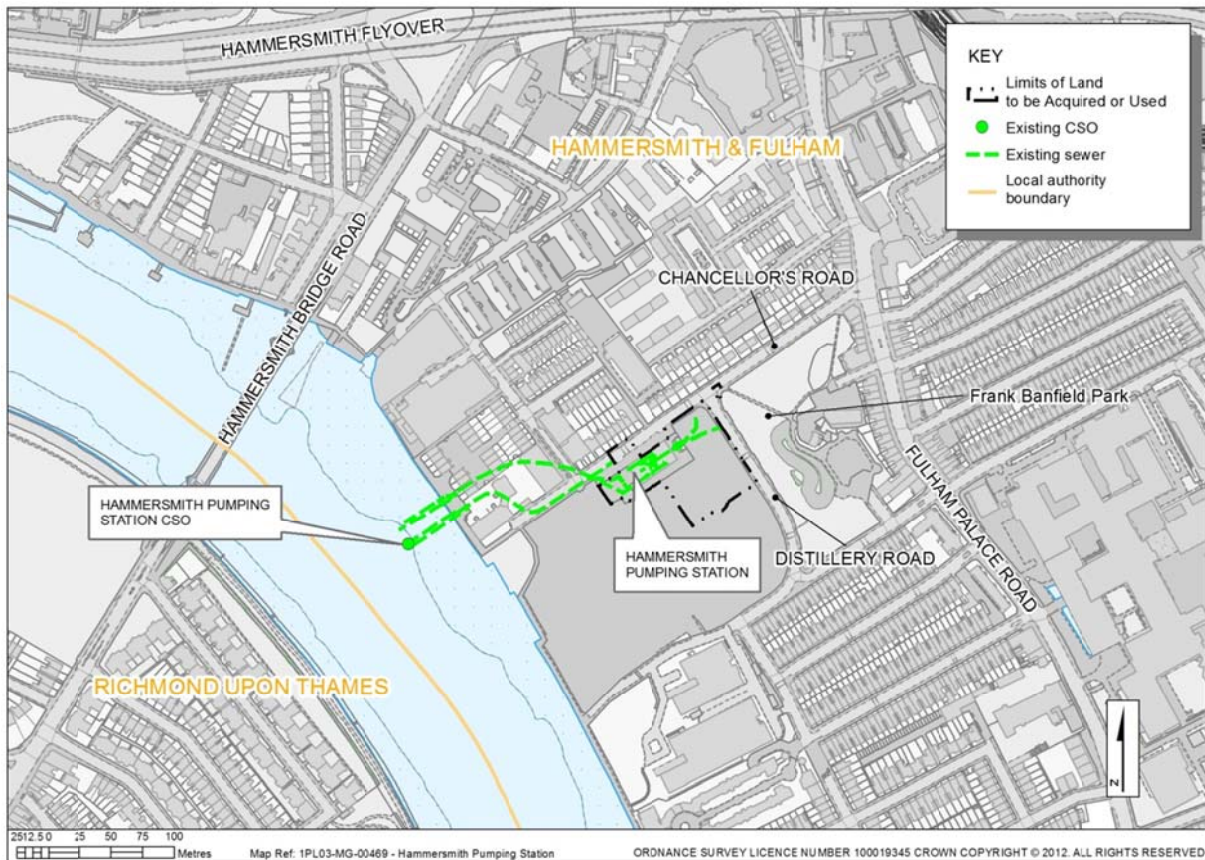
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1 Hammersmith Pumping Station

1.1 General

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- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Hammersmith Pumping Station site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Hammersmith and Fulham and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Hammersmith Pumping Station: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 The Contractor will liaise and coordinate with the Fulham Reach Developer on community liaison and communications to local residents and stakeholders.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ul style="list-style-type: none"> a. standard b. continuous for Hammersmith connection tunnel works. <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	As per text in <i>CoCP</i> Part A.
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a incorporating suitable art work on public facing sections.</p> <p>The hoarding is to be a height of 3.6m.</p>
Other items	The site offices have been arranged so that they will be positioned along the northern boundary of the site to act as a screen for the construction activities from Chancellor's Road.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>Main site entrance to be from Distillery Road with right turn in, left turn out.</p> <p>Contractor to manage arrivals and departures to minimise potential conflicts with other road users along Chancellor's Road.</p>
Traffic management	<p>All vehicles will access/egress the site from Fulham Palace Road (A219) and Chancellor's Road, turning into the site at an entrance on Distillery Road.</p> <p>Two-way operation of Chancellor's Road to be maintained during short term lane closure to connect utilities.</p> <p>A small section of parking equivalent to one parking space would be suspended along the southern side of Chancellor's Road.</p> <p>The single yellow line parking restrictions on Distillery Road and Chancellor's Road would be extended.</p>
Event restrictions	As per text in <i>CoCP</i> Part A.

Topic	Site-specific requirement
River transport	As per text in <i>CoCP</i> Part A.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	Requirement for pressed in sheet piling methods. During connection tunnel works outside of standard working hours the use of surface cranes will be minimised. This will involve the stockpiling of materials/ equipment at the bottom of the shaft for use during the evening and night for removal during standard working hours. In addition the work will utilise measures to reduce noise including the use of electric gantry cranes, gas/electric fork lift and measures to reduce noise from skip movements and unloading. See hoarding requirements above.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	All hardstanding (as far reasonably practical) on non-foreshore sites to incorporate permeable surfacing.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	As per text in <i>CoCP</i> Part A.
Protection of trees	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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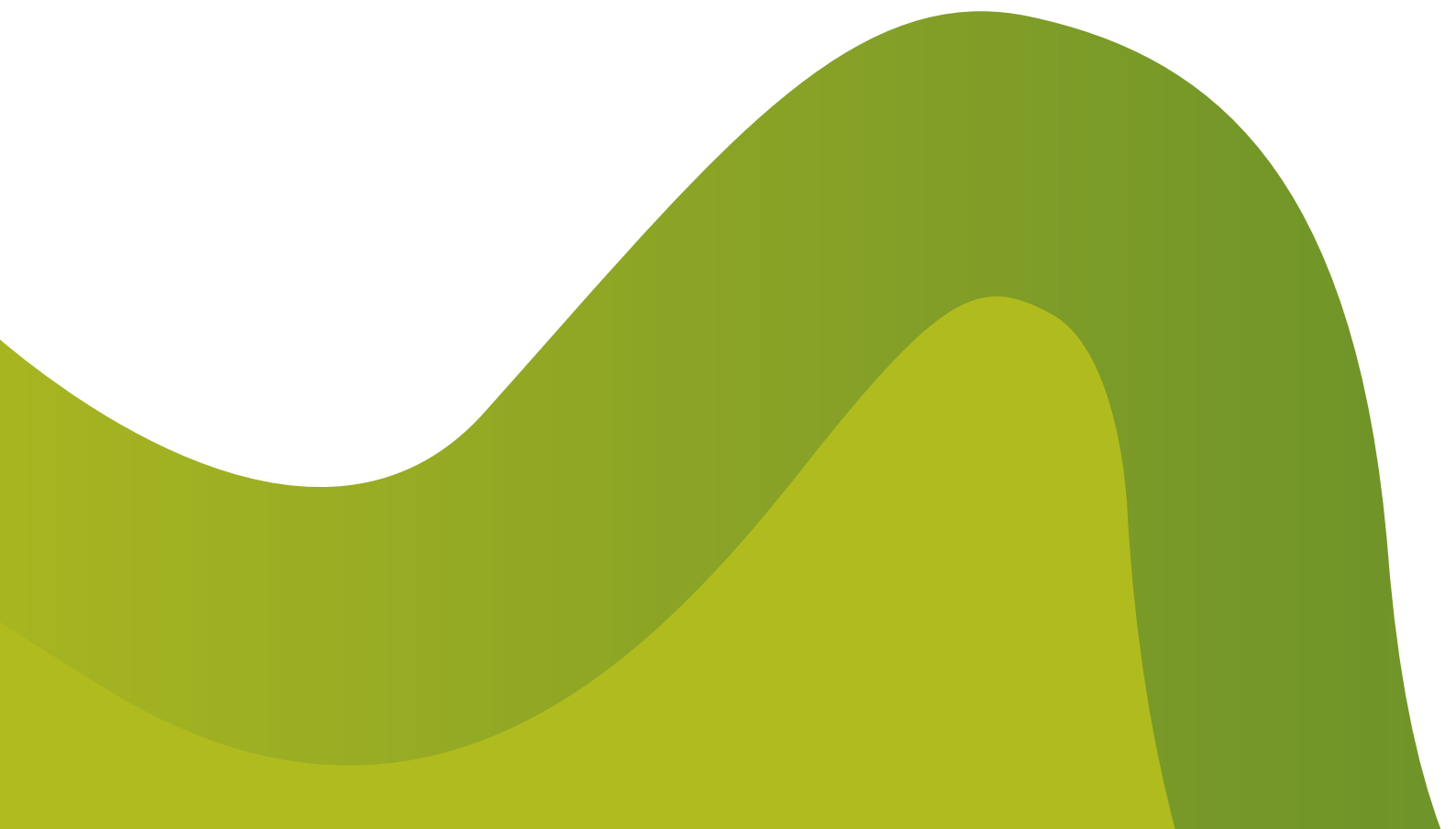
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Barn Elms

APFP Regulations 2009: Regulation **5(2)(q)**

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Code of Construction Practice Part B

Barn Elms

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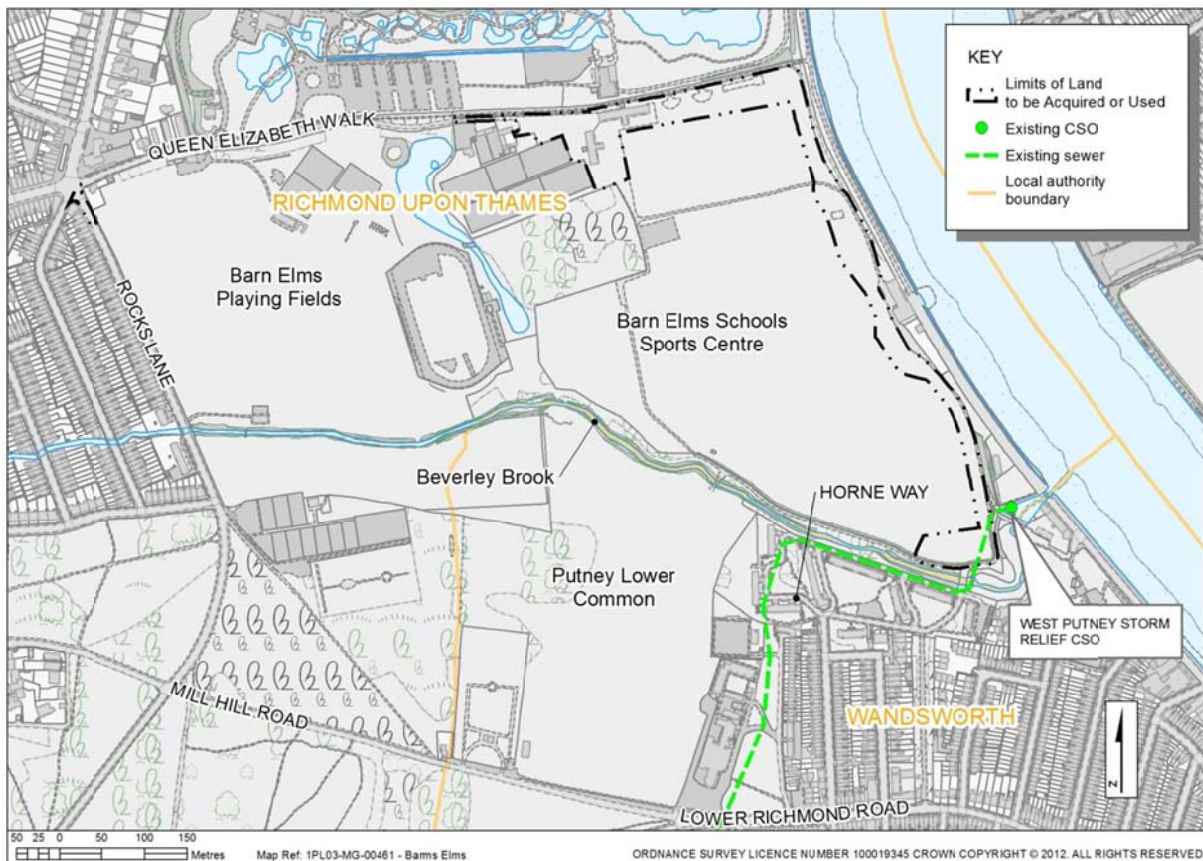
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1 Barn Elms

1.1 General

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- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Barn Elms site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Richmond upon Thames and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Barn Elms: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours.</p> <ol style="list-style-type: none"> standard continuous (for the West Putney connection tunnel construction). <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	<p>Operating plant and equipment will be set back from the bank of the Beverley Brook to leave an 8m buffer zone, unless agreed otherwise.</p>
Site security / hoarding requirements	<p>The main site compound is to be fully hoarded. A buried fencing / steel mesh netting will be extended at least 500mm below the hoarding to prevent badgers, etc from accessing the working site (see Section 11).</p> <p>The access route will have green painted steel open mesh fencing suitably supported for weather conditions or similar and will be designed to allow badgers, etc access across the road at night.</p> <p>The hoarding is to be as defined in <i>CoCP Part A Section 4.3.4c</i>, planted hoarding on public facing sections.</p> <p>The hoarding height is to be 3.6m at this site.</p>
Other items	<p>High pole suspended vertical netting of sufficient height will be erected above the hoarding where required to prevent balls from entering the hoarded construction works from the playing field.</p> <p>Site cabins and welfare facilities to be dark green color to tie in with the planted hoardings.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The site access/egress will be from Upper Richmond Road (A205), travelling along Rocks Lane (A306) and turning right into Queen Elizabeth Walk. Vehicles will access the site via the Barn Elms Schools Sports Centre car park. A new access road will route along the northern boundary of the sports centre to the River Thames and then along the eastern boundary parallel to the river.</p>

Topic	Site-specific requirement
	<p>The access route design will minimise the impact on the existing ecology where practical. It will be single track with passing places.</p> <p>Access and construction activities will be minimised during times of heavy recreational use of the playing fields.</p> <p>Access to the existing car park and sports facilities will be maintained throughout the works.</p> <p>EA emergency access to Ashlone Wharf tidal barrier will be retained.</p>
Traffic management	<p>Unless otherwise agreed in writing with the local planning authority, no heavy goods vehicles shall enter or leave the construction site during the hours of 08.00 to 09.00am Monday to Friday excluding bank holidays, and 08.00 to 13.00pm Saturday to avoid local congestion.</p> <p>Works during standard hours on a Saturday will consider avoiding periods of high recreational activity.</p> <p>Access to the boathouse to be maintained for vehicles and pedestrians, unless otherwise agreed.</p> <p>Parking changes within the Sports Centre car park required to facilitate the construction site access road, will include temporary relocation/ re-provision of car parking spaces for the duration of the works (note: land may be available from the London Borough of Wandsworth for the re-provision).</p> <p>Rocks Lane is part of the London Lorry Control Scheme and HGV movements along this road between 9pm and 7am Monday to Friday, 1pm to midnight Saturday and all day Sunday would need to be agreed with the Lorry Control Unit.</p> <p>At locations along Queen Elizabeth Walk and at the Sports Centre car park access where carriageway width may not permit two-way vehicle flow for HGVs traffic marshals will be required.</p>
Event restrictions	To be advised from discussions with the London Borough of Richmond upon Thames.
River transport	N/A
Other	Access to the Beverly Brook footpath would be maintained during construction.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>During connection tunnel works outside of standard working hours the use of surface cranes will be minimised. This will involve the stockpiling of materials/ equipment at the bottom of the shaft for use during the evening and night for removal during standard working hours. In addition the work will utilise measures to reduce noise including the use of electric gantry cranes, gas/electric fork lift and measures to reduce noise from skip movements and unloading.</p> <p>Screened on-site batchers or screened static concrete re-mixer plant shall be used for tunnel works outside standard hours.</p> <p>See hoarding height above.</p>
Other	Reference should be made to Part A Section 6.3.5 for Section 61 application to be shared with LB of Wandsworth in addition to the London Borough of Richmond upon Thames.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	Reference should be made to Part A Section 7.5.1 on agreeing locations and data provisions to both the London Boroughs of Wandsworth and Richmond upon Thames.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water groundwater	The temporary access route will have suitable temporary drainage and will prevent any local flooding of adjacent playing areas.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.

Other	All temporary hardstanding (as far as reasonably practicable) on non-foreshore sites will incorporate permeable surfacing (SUDS/flood risk alleviation/surface water runoff reduction).
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9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	Topsoil to be removed will be retained on site for future use where required as part of Thames Tideway Tunnel project works.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>Bird and bat boxes will be provided at the start of construction.</p> <p>Use of permeable (non-restricting) open fencing along access fence to allow badgers access through landscape around construction access road (see Section 4). Used buried fencing/hoardings around work site or excavation boundary to prevent badgers access working site, with planting around site to encourage movement.</p>
Protection of trees	Tree protection measures to be implemented to protect trees and scrub along the southern boundary of the site and along the eastern side of the site and access road.
Other	The trees and scrub adjacent to the site provide important foraging areas for bats and nesting habitat for birds. Therefore, lighting will be directed away from this habitat and light spill will be minimised through the use of cowling.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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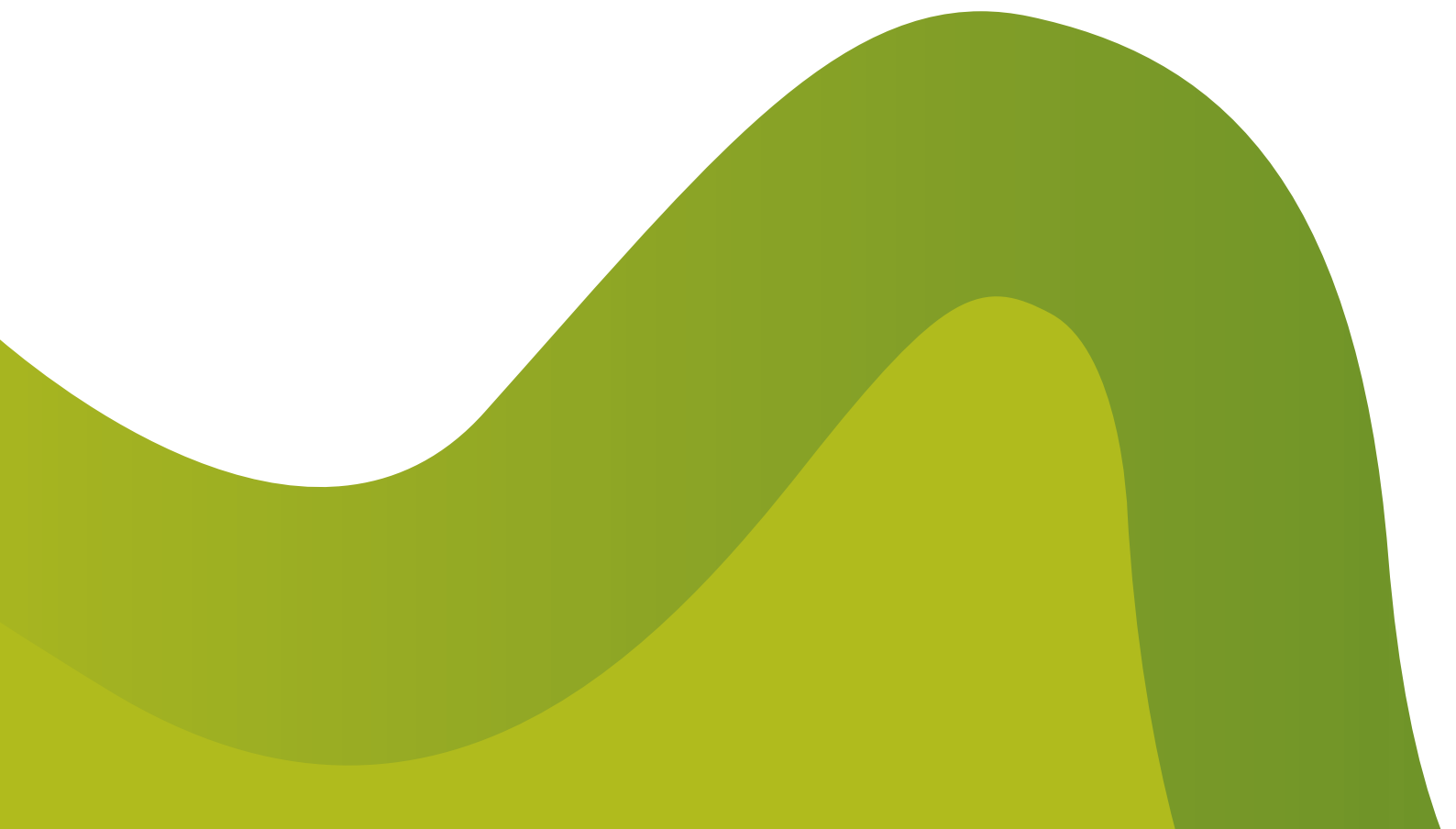
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Putney Embankment Foreshore

APFP Regulations 2009: Regulation **5(2)(q)**

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Putney Embankment Foreshore

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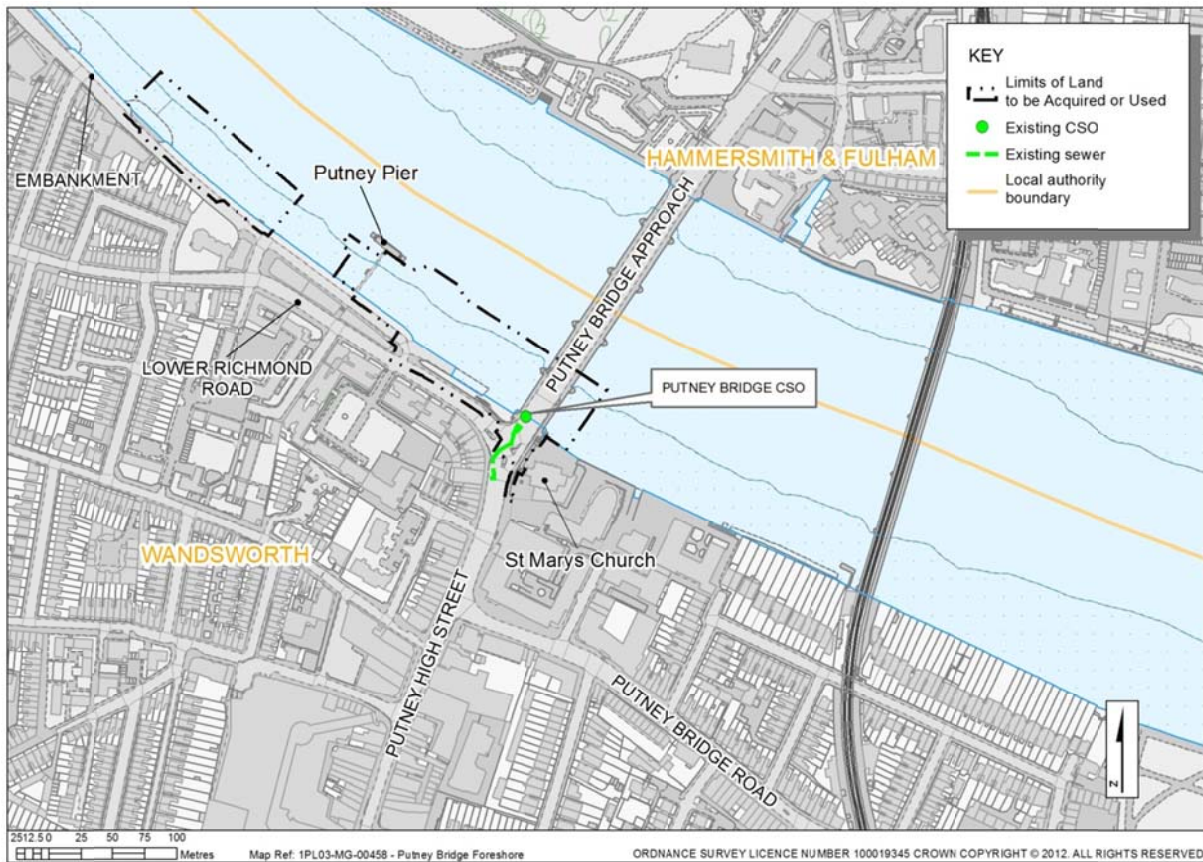
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1 Putney Embankment Foreshore

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Putney Embankment Foreshore site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Wandsworth and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Putney Embankment Foreshore: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> a. standard b. continuous (for the Putney Bridge connection tunnel construction). <p>Other working hours are subject to agreement with local authority.</p>
Site layout	<p>The existing public slipway/drawdock to be maintained until the temporary slipway is operational. The temporary slipway will be maintained until reinstatement of the public slipway/drawdock.</p> <p>The slipway construction is to be of steel modular elements or similar.</p> <p>Emergency egress points for vaults located beneath Lower Richmond Road, egress across Waterman's Green to be maintained during the majority of the construction period, and their use will remain unaffected should existing planning permission into cafes or restaurants be implemented.</p> <p>Access across Waterman's Green will be restricted during the later stages of construction. During this period, pedestrian access to the eastern end of the Green will be available by utilising the existing stairway located adjacent to the disused public convenience.</p>
Site security / hoarding requirements	<p>Timber hoarding will be used on Waterman's Green to limit the worksite to the western part and provide protection from construction for users of Waterman's Green.</p> <p>The hoarding is to be as defined in <i>CoCP</i> Part A paras. 4.3.4(a) and (b) and be incorporating suitable art work and viewing windows. If cafe businesses occupy Waterman's Green during construction period, Thames Tideway Tunnel will need to work with cafe owner(s) to develop suitable hoarding. Transparent hoarding may be considered for use, if agreed with the relevant stakeholders.</p>
Other items	<p>Ensure integrity of retaining wall to Waterman's Green and other flood defence walls are maintained during works.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The site will be accessed from Putney High street (A219) via Putney Bridge Road, traffic will then turn left onto lower Richmond road and right into the site from the embankment.</p> <p>During the construction of temporary slipway construction traffic will access the site by turning right from Lower Richmond Road into Glendarvon Street and turning right into Embankment. Construction vehicles will then stop at a designated location on Embankment adjacent to the site to load/unload. When leaving the site construction vehicles will route east along Embankment and right turn into Thames Place then left turn into Lower Richmond Road.</p>
Traffic management	<p><u>Main site:</u></p> <p>It is proposed to change the operation of Embankment between the new site access and the junction with Lower Richmond Road to two-way for construction vehicles only, during the main site works. A minimum carriageway width of 3.25m will be retained in each direction.</p> <p>Two-way flow on Embankment at temporary slip way construction to be maintained for general traffic using a priority traffic management system as required.</p> <p>Construction vehicles associated with the main construction site will not use Glendarvon Street.</p> <p>Small section of on-street parking to be suspended on the eastern end of Embankment where Embankment will operate as two-way for construction vehicles.</p> <p><u>Temporary slipway site:</u></p> <p>Construction vehicles associated with either the construction or subsequent dismantling of the temporary slipway will only access via Glendarvon Street between the hours of 10.00 and 15.00 hrs Monday to Friday. Construction vehicles will not be permitted to use Glendarvon Street outside this period.</p> <p>Suspension of the majority of on-street parking on Embankment between Thames Place and Glendarvon Street during construction of temporary slipway and subsequent removal.</p>

Topic	Site-specific requirement
	<p>Suspension of a small section of parking on the southern end of Glendarvon Street to facilitate the passing of vehicles during construction of the slipway and subsequent removal.</p> <p>Parking bays located at the southern end of Glendarvon Street to facilitate construction vehicle movements will be replaced (subject to agreement with the London Borough of Wandsworth) with parking restrictions, such that local residents may park outside of these hours, when the parking restrictions are inactive. A traffic marshal will be in place if large vehicles are required to reverse out of the site onto Embankment.</p> <p>Traffic management plan to address potential conflict between construction vehicles and other large vehicles such as vehicles transporting boats at Glendarvon Street junction with Embankment by measures such as timed deliveries, traffic marshals or priority signage.</p> <p>Construction vehicle drivers to be advised in advance of the restricted road width along Glendarvon Street and to look out for potential conflicts with oncoming vehicles.</p> <p>The cycle stands on Embankment will be relocated approximately 20m to the west.</p>
Event restrictions	<p>Further event restrictions may be required following discussions with key stakeholders. The University Boat Race will not be restricted by the works. The construction site will not be removed but construction will be temporarily suspended. Any barges associated with the works will be removed for any identified key events.</p> <p>For the University Boat Race the contractor will be required to have arrangements in place for additional security and other measures within the site security plan, to ensure the site is contained and to prevent public climbing hoardings or entering the site.</p>
River transport	<p>River transport and working is restricted to Monday to Friday.</p> <p>Access to the Putney Pier will be maintained for the duration of the construction works. The contractor will liaise with Transport for London (London River Services), and the pier owners.</p>

Topic	Site-specific requirement
Other	A removable chain will be installed across the temporary slipway to prevent unauthorised parking whilst maintaining access for launching vessels. Where appropriate signage and warning systems will be installed to direct rowers and other river users around structures within the foreshore.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	See hoarding requirement above. The loading and unloading of barges will only be carried out during standard working hours. During connection tunnel works outside of standard working hours the use of surface cranes will be minimised. This will involve the stockpiling of materials/ equipment at the bottom of the shaft for use during the evening and night for removal during standard working hours. In addition the work will utilise measures to reduce noise including the use of electric gantry cranes, gas/electric fork lift and measures to reduce noise from skip movements and unloading. 2.4m high noise screen to be located on the western edge of the cofferdam sections perpendicular to the river wall.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A
Energy usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>Membrane to be installed between the river bed and temporary back fill material to prevent contamination of juvenile fish habitat.</p> <p>Areas of foreshore used for temporary works will be restored to similar condition and material prior to the works.</p>
Protection of trees	<p>Root survey required to ascertain location of tree routes in relation to slipway, highways and footpaths</p> <p>Protect roots of large London Plane trees from damage during installation of cable ducts.</p> <p>Suitable protection to be laid on existing cobbled slipway to provide root protection to London Plane tree, located upon Waterman's Green.</p>

Topic	Site-specific requirement
	Tree pruning for trees located along the Embankment and on Waterman's Green to be agreed with the local authority.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	<p>The attachment of the cofferdam against the Listed southern abutment of Putney Bridge will avoid cutting into the stonework facings of the abutment, unless agreed otherwise through a separate consent.</p> <p>Hand railings along Waterman's Green will be protected and reinstated after the completion of construction activities.</p> <p>Existing slipway to be protected during construction. Localised areas of cobbles to be removed, stored and reinstated to the existing conditions of the slipway as far as is possible.</p> <p>Protect University Boat Race starting stone from damage.</p> <p>Remove, protect and reinstate Listed bollards. Listed bollards will be securely stored for the duration of the works.</p> <p>The Contractors working methods are to minimise risk of accidental striking the listed bridge. Protection barriers will be installed as required but not attached to the structure unless otherwise agreed.</p>

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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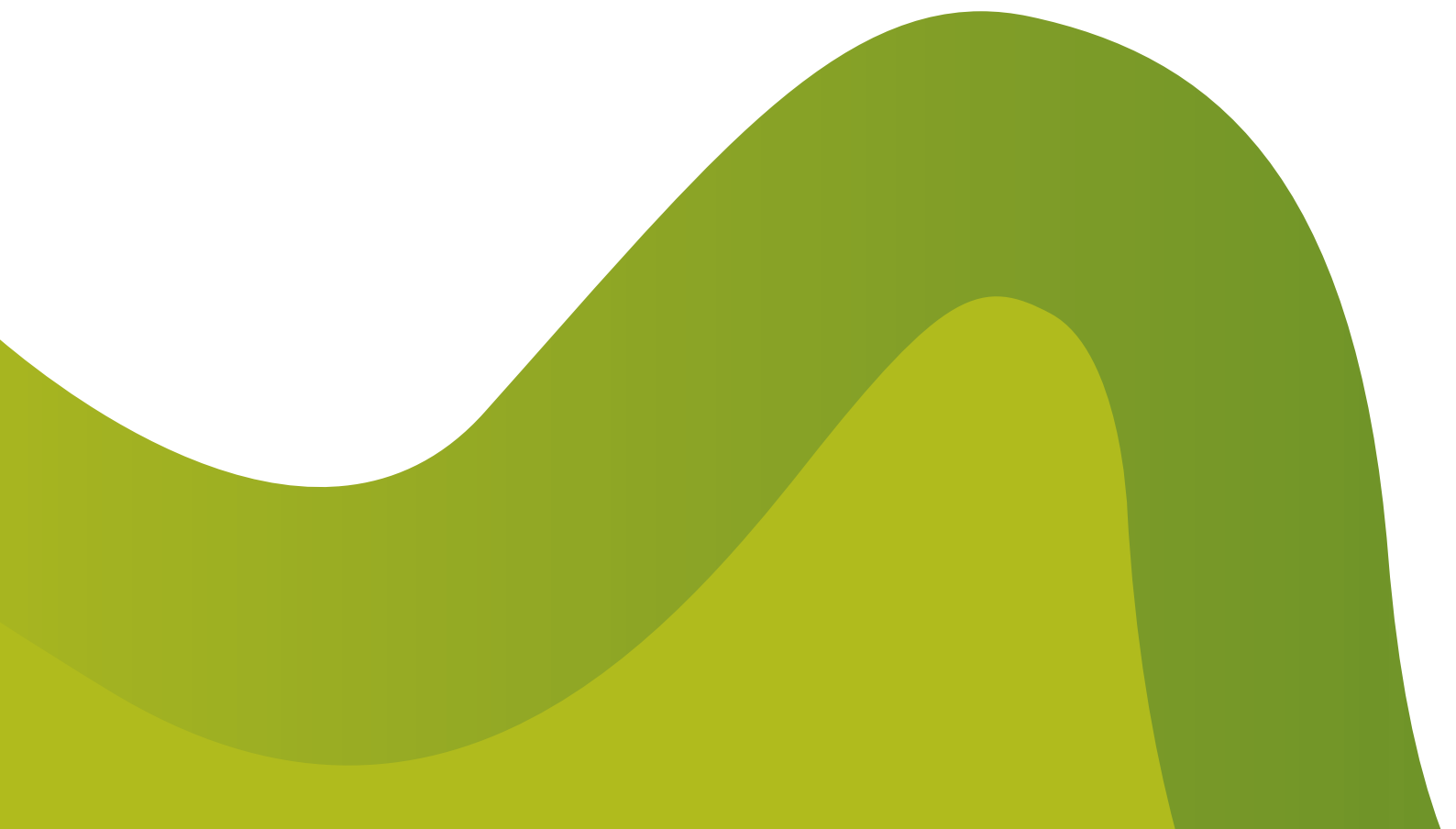
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DCO-DT-000-ZZZZZ-071902



Thames Tideway Tunnel
Thames Water Utilities Limited



Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7:19.2**

Dormay Street

APFP Regulations 2009: Regulation **5(2)(q)**

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Thames Tideway Tunnel

Code of Construction Practice Part B

Dormay Street

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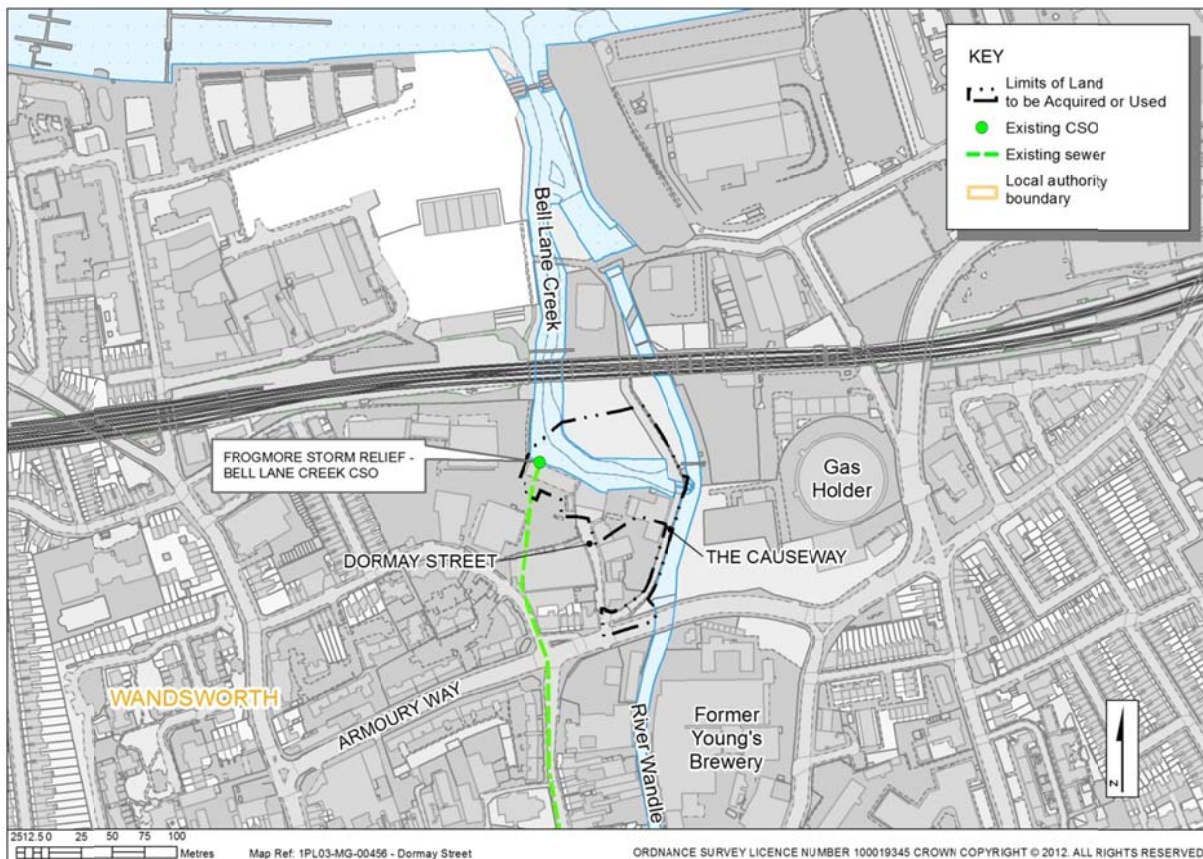
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1 Dormay Street

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Dormay Street site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Wandsworth and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Dormay Street: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> a. standard b. continuous for the Frogmore connection tunnel construction. <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	<p>Site layout to be designed to minimise the Thames Tideway Tunnel project working area on the south side of Bell Lane Creek (maximising land available to the London Borough of Wandsworth).</p>
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a incorporating suitable art work on public facing sections.</p> <p>The hoarding height is to be 3.6m at this site.</p>
Other items	<p>As per text in <i>CoCP</i> Part A.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>Provision of site access from Armoury Way on to Dormay Street and right turn onto the site.</p> <p>Provision of site access for light vehicles (up to 10 tonnes gross weight) only on The Causeway.</p> <p>Vehicular and pedestrian access along The Causeway will be maintained for the duration of the works.</p> <p>The section of Dormay Street from Armoury Way to the site is narrow and is a primary vehicle route from the London Borough of Wandsworth Frogmore Depot. The Contractor will manage and coordinate the access and egress of site vehicles along Dormay Street. This includes, but is not limited to:</p> <ol style="list-style-type: none"> a. Liaise with the London Borough of Wandsworth Depot on planned construction vehicles movements and where practical avoid times where there are a frequent number of vehicles exiting the depot. This will specifically include buses exiting the depot. b. Liaise with other local businesses, including

Topic	Site-specific requirement
	<p>the adjacent public house, plumber merchants and stone masons, to avoid planned construction vehicle movements during scheduled third party delivery periods where practical.</p> <p>c. Coordinate and communicate with deliveries and suppliers to manage vehicle arrival and departure times to minimise likelihood of site vehicles meeting on the narrow section of the Dormay Street and also meeting council vehicles.</p> <p>d. Utilise a suitable remote lorry holding area and have radio communication to call in vehicles to site.</p> <p>e. Use traffic marshals as required to direct vehicle movements in Dormay Street and, when required, manage turning of vehicles in from Armoury Way. Vehicles will be prevented from queuing on Armoury Way when attempting to turn into Dormay Street.</p> <p>f. Advise deliveries and suppliers that queuing on Armoury Way is prohibited and all drivers are required to continue around the one way system and not queue on Armoury Way.</p>
Traffic management	As per text in <i>CoCP</i> Part A.
Event restrictions	N/A
River transport	N/A

6 Noise and vibration

Topic	Site-specific requirement
Control measures	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	Maintain river flood defence integrity during construction.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	River wall strengthening/replacement may require construction in Bell Lane Creek which may affect habitats and wildlife in the creek. The Contractor will put in place various control measures at the worksite to minimise these effects.
Protection of trees	Replacement tree and scrub planting will be provided for vegetation lost during construction adjacent to Bell Lane Creek. This is to restore a habitat corridor for the movement of bats and a foraging resource for bats, in addition to a nesting

Topic	Site-specific requirement
	and foraging resource for birds.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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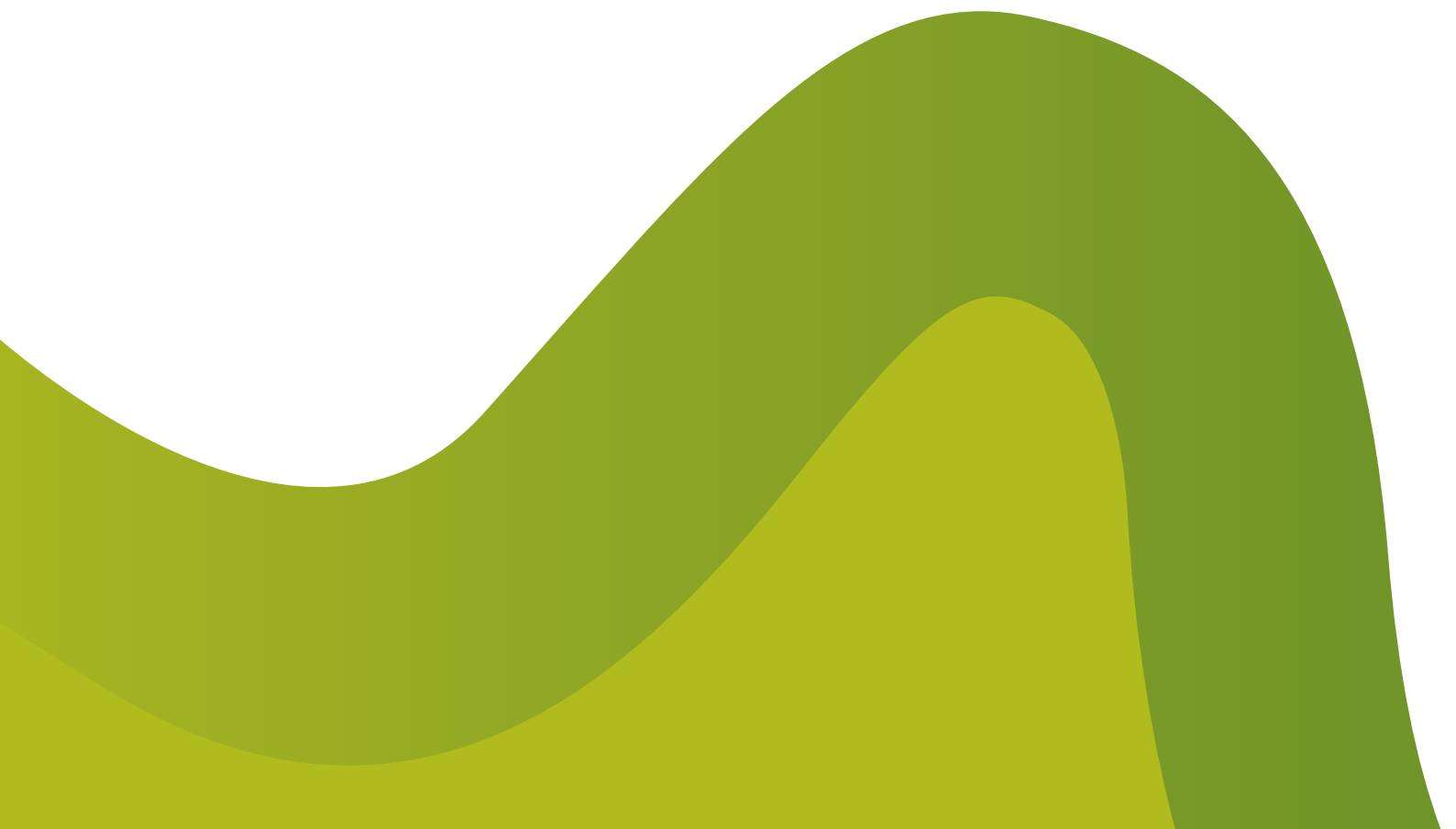
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

King George's Park

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Thames Tideway Tunnel
Code of Construction Practice Part B
King George's Park
Errata

Section	Paragraph No.	Page No.	Errata / Clarification
Section 11 Ecology (aquatic and terrestrial)	N/A	5	Incorrect reference to the provision of invertebrate boxes and a hedgehog house. No invertebrate boxes and / or hedgehog house will be provided at this site.

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Thames Tideway Tunnel

Code of Construction Practice Part B

King George's Park

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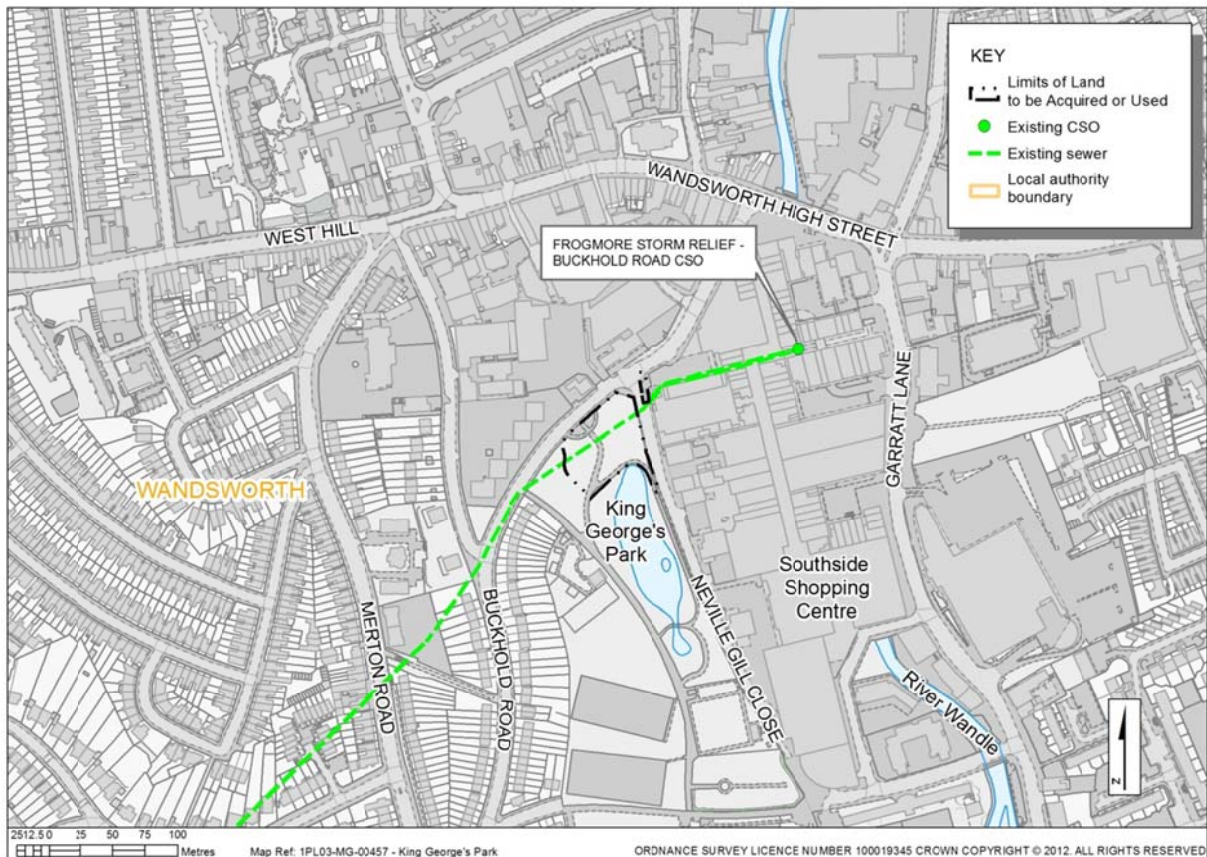
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1 King George's Park

1.1 General

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- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at King George's Park site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the King George's Park and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 King George's Park: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	This site will adhere to the following working hours: a. standard. Other working hours are subject to agreement with the local authority.
Site layout	Site layout to consider existing trees and root zones as detailed in <i>CoCP</i> Part A. Layout to enable pedestrian access to/from park on Buckhold Road to be maintained during relevant construction phases. Particular care is to be taken around the root zone of the black poplar tree located to the east of the site along the Neville Gill Close boundary. Operating plant and equipment will be set back from the bank of the lake to leave an 8m buffer zone, unless agreed otherwise.
Site security / hoarding requirements	The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4c, planted hoarding on public facing sections.
Other items	Protective hoarding is required to be installed around the existing memorial tree and bench. Site cabins and welfare facilities to be dark green colour to tie in with the planted hoardings.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	Access is to be from Neville Gill Close with right turn in, left turn out only. Pedestrian access diversion will be maintained throughout the works.
Traffic management	As per text in <i>CoCP</i> Part A.
Event restrictions	N/A
River transport	N/A
Other	The footpath diversion within the park is to be adequately signed.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions / control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	All hard standing (as far as reasonably practicable) on non-foreshore sites will incorporate permeable surfacing (SUDS/flood risk alleviation).

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>Possible bat roosts have been identified within trees on site that will be removed as part of works. Bat surveys of the tree will be undertaken in advance of works. Where a bat roost is confirmed, mitigation measures will be proposed and a licence from Natural England may be required; advice will be sought from a suitably qualified ecologist in advance of works commencing on site.</p> <p>Bat and invertebrate boxes and a hedgehog house will be provided.</p>
Protection of trees	<p>Protection of trees, in particular the Black Poplar tree along the Neville Gill Close boundary, (as it is potential bat habitat), and of the red oak tree located at the northern edge of the park adjacent to the junction between Neville Close and Buckhold Road, is required.</p>
Other	<p>Replacement tree planting. Advance planting, avoiding trees where possible, will provide higher quality planting to that lost.</p> <p>The trees and scrub adjacent to the site provide important foraging areas for bats and nesting habitat for birds. Therefore, lighting will be directed away from this habitat and light spill will be minimised through the use of cowling.</p> <p>Pruning of trees to be agreed with the local authority.</p>

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	The existing park railings will be appropriately and securely stored for the duration of the works, for final reinstatement.

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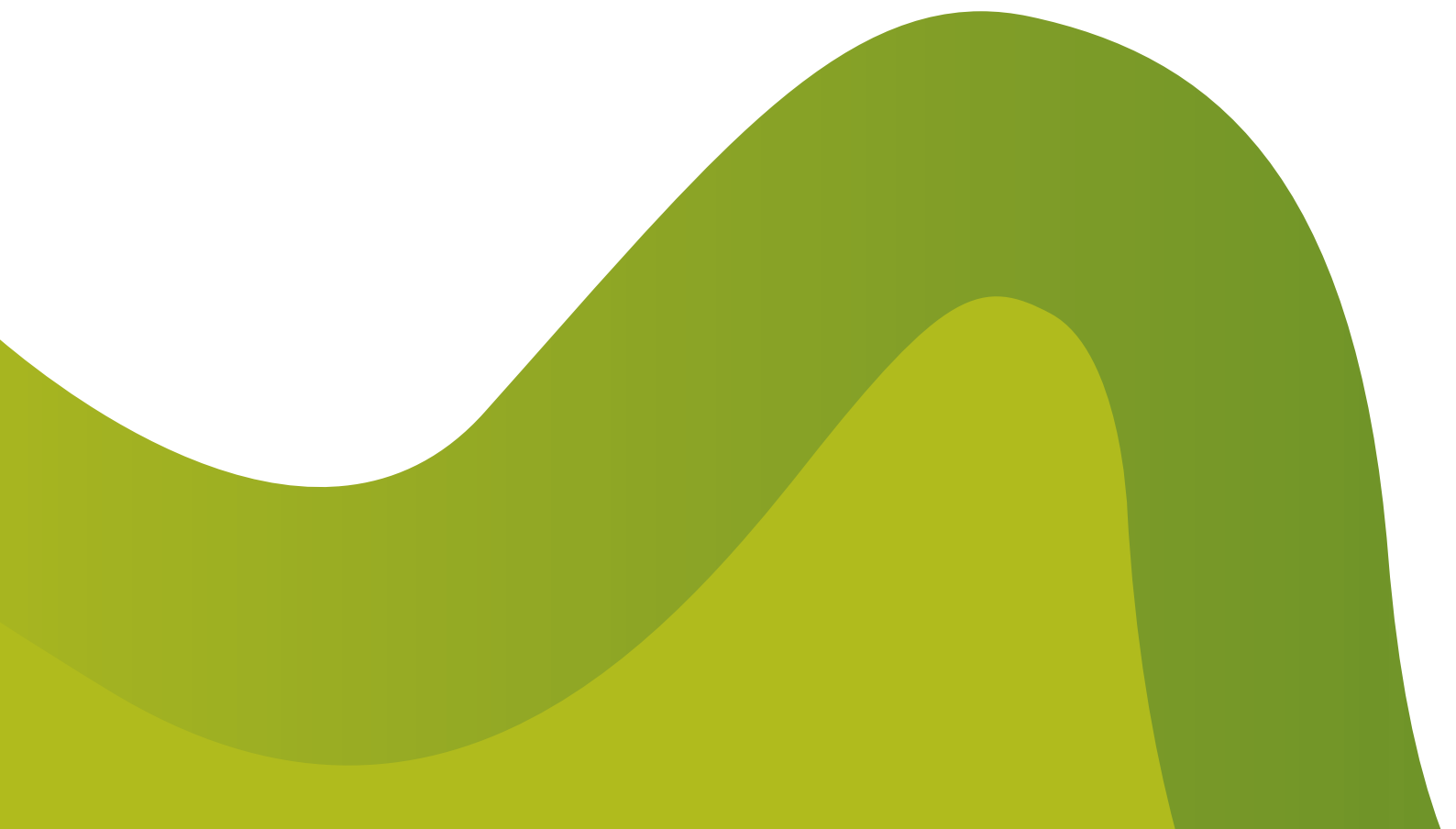
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Carnwath Road Riverside

APFP Regulations 2009: Regulation **5(2)(q)**

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Code of Construction Practice Part B

Carnwath Road Riverside

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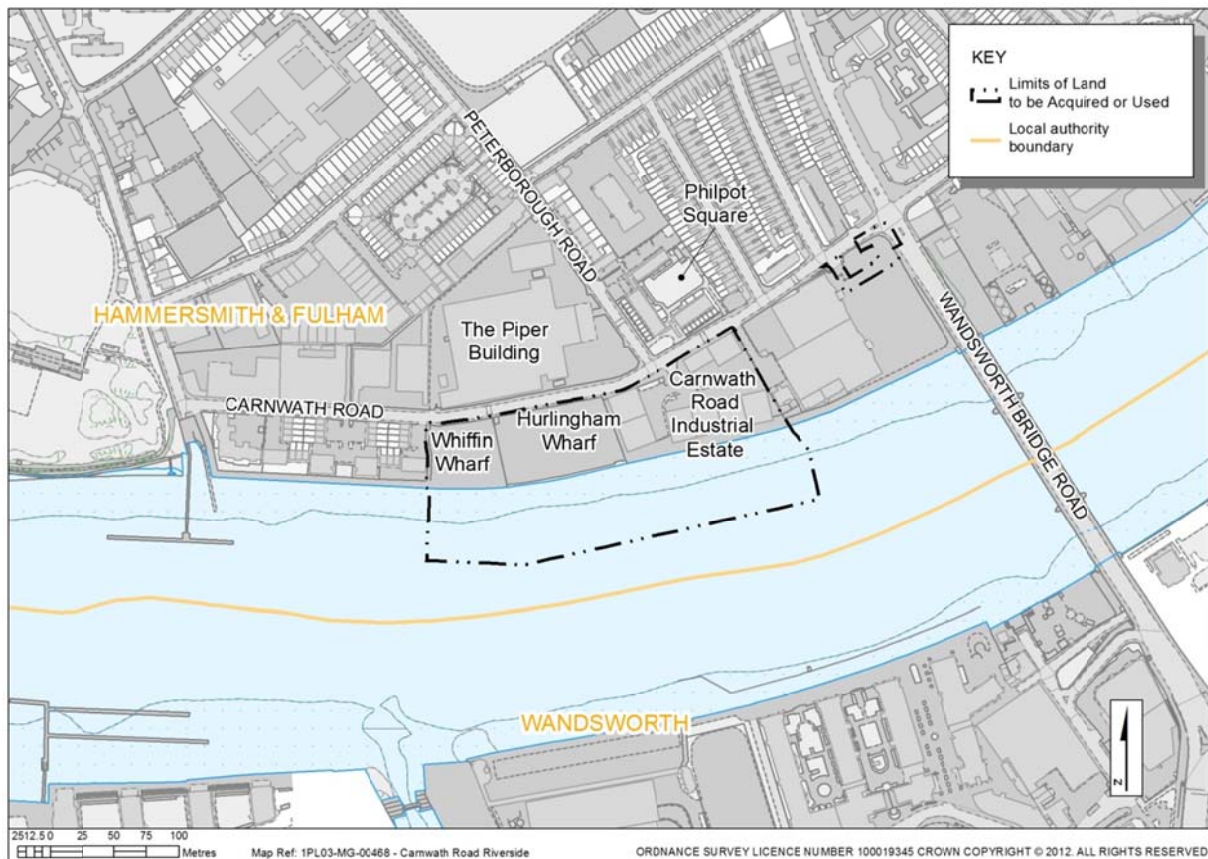
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1 Carnwath Road Riverside

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel Project works at Carnwath Road Riverside site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Hammersmith and Fulham and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Carnwath Road Riverside: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General Requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ul style="list-style-type: none"> a. standard b. extended standard c. continuous for main tunnel construction works. <p>Other working hours are subject to agreement with the local authority.</p>

Topic	Site-specific requirement
Site layout	<p>The site layout will consider the use of required offices and storage containers as noise barriers.</p> <p>The layout of noise barriers and structures will also consider potential impacts</p>
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para 4.3.4a incorporating suitable art work on public facing sections.</p> <p>5m high hoarding/noise barrier on western end of site and 7.5m on eastern end of site, 3.6m on the northern edge, and 2.4m on the southern edge (on the river side). Barriers on east/west end can be office /welfare facilities.</p>
Other items	<p>A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements.</p> <p>Works to reduce the foreshore level, build campsheds, and/or jetties, and strengthen existing river wall required at the start of the construction period to enable the use of river transport.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The security barrier will be positioned to allow a standard rigid tipper vehicle to be wholly off the road whilst awaiting barrier operation.</p> <p>The western access will be only used for emergency access or specific deliveries and not routinely used due to proximity of adjacent properties.</p>
Traffic management	<p>All vehicles will access/egress the site from the Wandsworth Bridge Road (A217) and Carnwath Road. The junction between Carnwath Road and Wandsworth Bridge Road will be altered at the start of the construction period to enable HGV's to perform a left turn off of Wandsworth Bridge Road onto Carnwath Road.</p> <p>The eastern access will be left turn in right turn out.</p> <p>The western access will be left turn in only.</p> <p>Three sections of parking to be suspended comprising a potential 12 parking spaces on Carnwath Road. Single yellow line parking</p>

Topic	Site-specific requirement
	<p>restrictions will be added where these sections of parking are suspended.</p> <p>An extension to the hours of operation of the existing single yellow line parking restrictions and loading restrictions on Carnwath Road. This will be extended to no parking or loading from 8am to 6pm, Monday to Friday and 8am to 1pm Saturday.</p>
Event restrictions	As per text in <i>CoCP</i> Part A.
River transport	As per text in <i>CoCP</i> Part A.
Other	<p>The diversion of the Thames Path is to be adequately signed.</p> <p>The new route on the eastern boundary is to have high quality directional lighting for security.</p>

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>The construction area around the main shaft will be covered by an enclosure/building during the main tunnel construction and secondary lining works. The building will have cladding with a specified sound reduction value. The building openings will be designed to be away from sensitive noise receptors and will be kept closed when not in use at night. Only essential use of openings at night.</p> <p>The western site access will not be routinely used to reduce noise on adjacent properties. See above.</p> <p>Screening or enclose all static plant including pumps.</p> <p>Enclose with suitable structure and acoustic attenuation material concrete batching plant, grout plant, conveyors to load barges and storage / handling areas.</p> <p>Movements of vehicles on the site outside standard hours to be restricted.</p> <p>2.4m hoarding/noise barrier on river wall to screen barge loading areas.</p> <p>The material handling area will be screened by a three sided enclosure and roof clad with suitable noise attenuation material.</p>

Topic	Site-specific requirement
	The barge loading area to be suitably located to consider the noise impacts on riverside properties on both the east and west of the site. See hoarding requirements.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	All hardstanding (as far as reasonably practicable) on non-foreshore sites to incorporate permeable surfacing.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	To enable river transport dredging is anticipated.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	Due to levels of contaminants that exceed the Probable Effects Level (PEL), dredging will be undertaken using a method to minimise sediment loss and thus mobilisation of contaminants, such as with an enclosed bucket on the backhoe.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Areas of foreshore used for temporary works will be restored prior to the completion of works, with similar material and to a similar baseline condition. Protection measures for bats apply at this site (no roosts on site).
Protection of trees	Planting of replacement native trees after the construction period required to replace moderate quality trees at site entrance. Ensure protection measures are in place for trees along the eastern boundary of the site.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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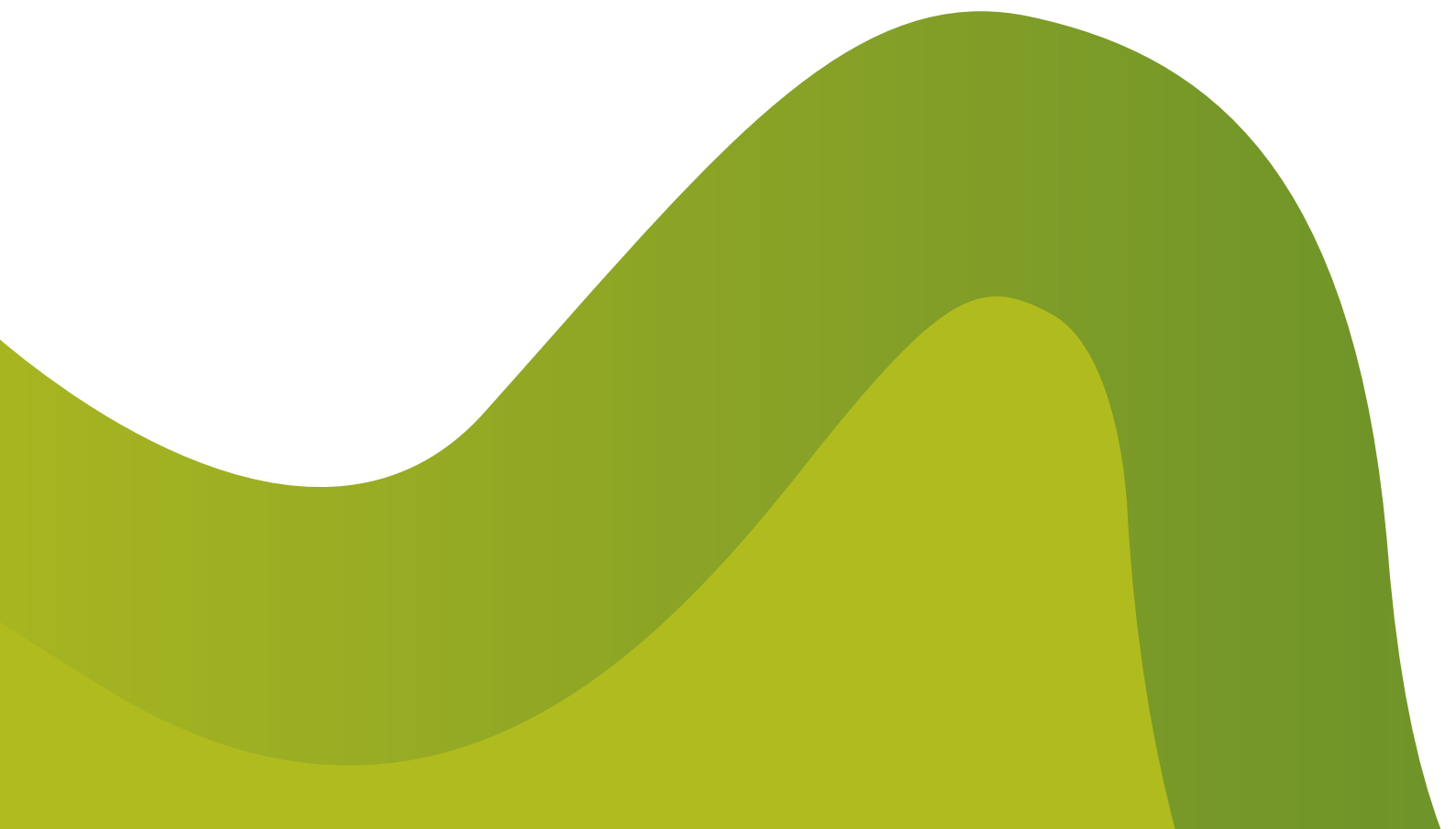
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Falconbrook Pumping Station

APFP Regulations 2009: Regulation **5(2)(q)**

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Thames Tideway Tunnel

Code of Construction Practice Part B Falconbrook Pumping Station

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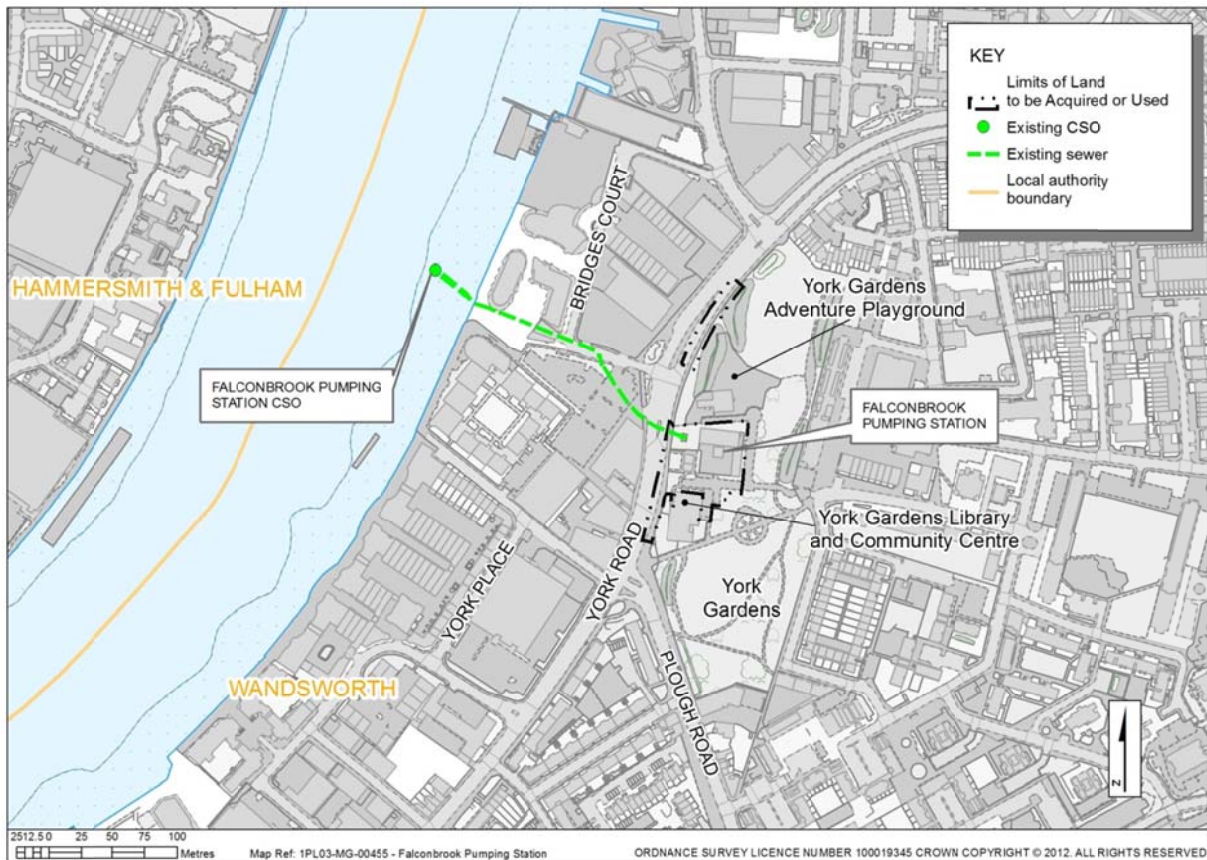
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1 Falconbrook Pumping Station

1.1 Introduction

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Falconbrook Pumping Station site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Wandsworth and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.1 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Falconbrook Pumping Station: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General Requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ul style="list-style-type: none"> a. standard b. continuous for duration of the Falconbrook connection tunnel construction. <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	As per text in <i>CoCP</i> Part A.
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4c, planted hoarding on public facing sections.</p> <p>Increased height of the hoarding adjacent to the York Gardens Library and Community Centre, and along the boundary with the York Gardens Adventure Playground to 3.6m.</p>
Other items	Site cabin and welfare facilities to be dark green colour to tie in with the planted hoardings.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>New access/egress points are required off York Road.</p> <p>Left turn in from York road and left turn out.</p> <p>The security barrier will be positioned to allow a standard rigid tipper vehicle to be wholly off the road whilst awaiting barrier operation.</p> <p>Only emergency access through Lavender Road/housing area is to be permitted unless agreed otherwise.</p> <p>Existing access arrangements for Thames Water operational vehicles will be maintained as per the existing regime through Lavender Road.</p>

Topic	Site-specific requirement
Traffic management	<p>Access to York Gardens Library and Community Centre, and York Gardens Adventure Playground to be maintained. Existing bus stop on York Road (A3205) will be relocated to a suitable alternative position as necessary. The alternative position will be located approximately 15m south of the existing location, as agreed with Transport for London.</p> <p>Pedestrian access from York Road to York Gardens will be maintained during construction.</p> <p>Disabled parking facility (1 bay) for community centre to be maintained during the construction period at an accessible location.</p> <p>A vehicle marshal or similar will be provided where required to ensure the safety of pedestrians crossing the construction access.</p> <p>A small area available for car parking adjacent to the York Gardens Library and Community Centre will be suspended during construction.</p> <p>The existing pedestrian access to the York Gardens Library and Community Centre will be maintained.</p> <p>Access to the existing pedestrian drop-off area immediately east of the York Gardens Library and Community Centre will be maintained.</p>
Event restrictions	N/A
River transport	N/A
Other	The footpath diversion is to be adequately signed.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	As per text in <i>CoCP</i> Part A.

Topic	Site-specific requirement
Other	<p>The site layout and hoarding design will take into account the York Gardens Adventure Playground to the north of the site with regards to noise attenuation and screening.</p> <p>During connection tunnel works outside of standard working hours the use of surface cranes will be minimised. This will involve the stockpiling of materials/ equipment at the bottom of the shaft for use during the evening and night for removal during standard working hours. In addition the work will utilise measures to reduce noise including the use of electric gantry cranes, gas/electric fork lift and measures to reduce noise from skip movements and unloading.</p>

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions / control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	All hardstanding (as far as reasonably practicable) on non-foreshore sites will incorporate permeable surfacing (SuDS/flood risk alleviation).

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	As per text in <i>CoCP</i> Part A.
Protection of trees	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	Granite sets removed from the area adjacent to existing venturi structure and disused public convenience will be stored, reinstated/reused.

13 Other

Topic	Site-specific requirement
Visual	Advance planting within York Gardens as necessary as per agreements with the London Borough of Wandsworth.

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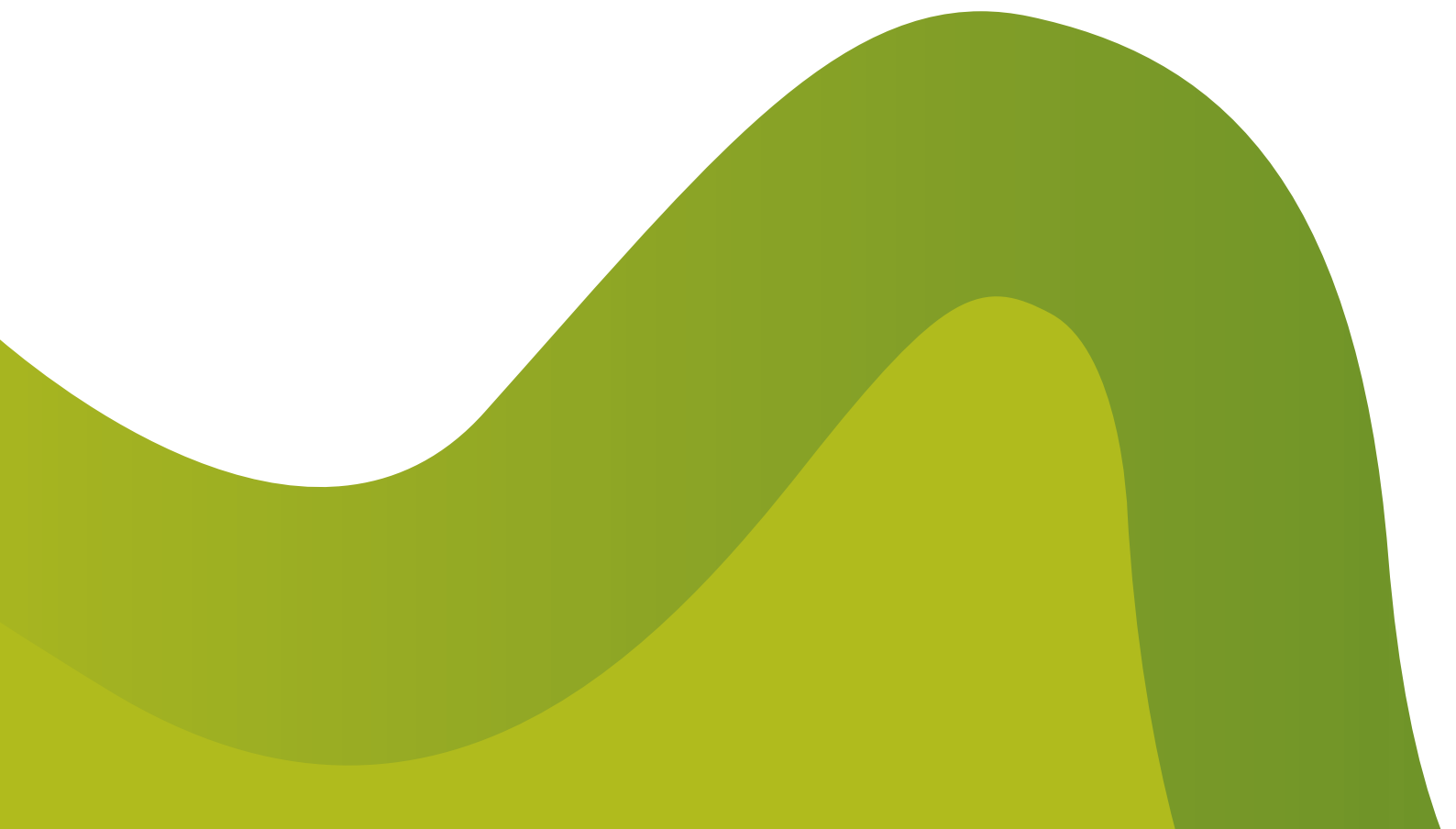
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Cremorne Wharf Depot

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Thames Tideway Tunnel

Code of Construction Practice Part B

Cremorne Wharf Depot

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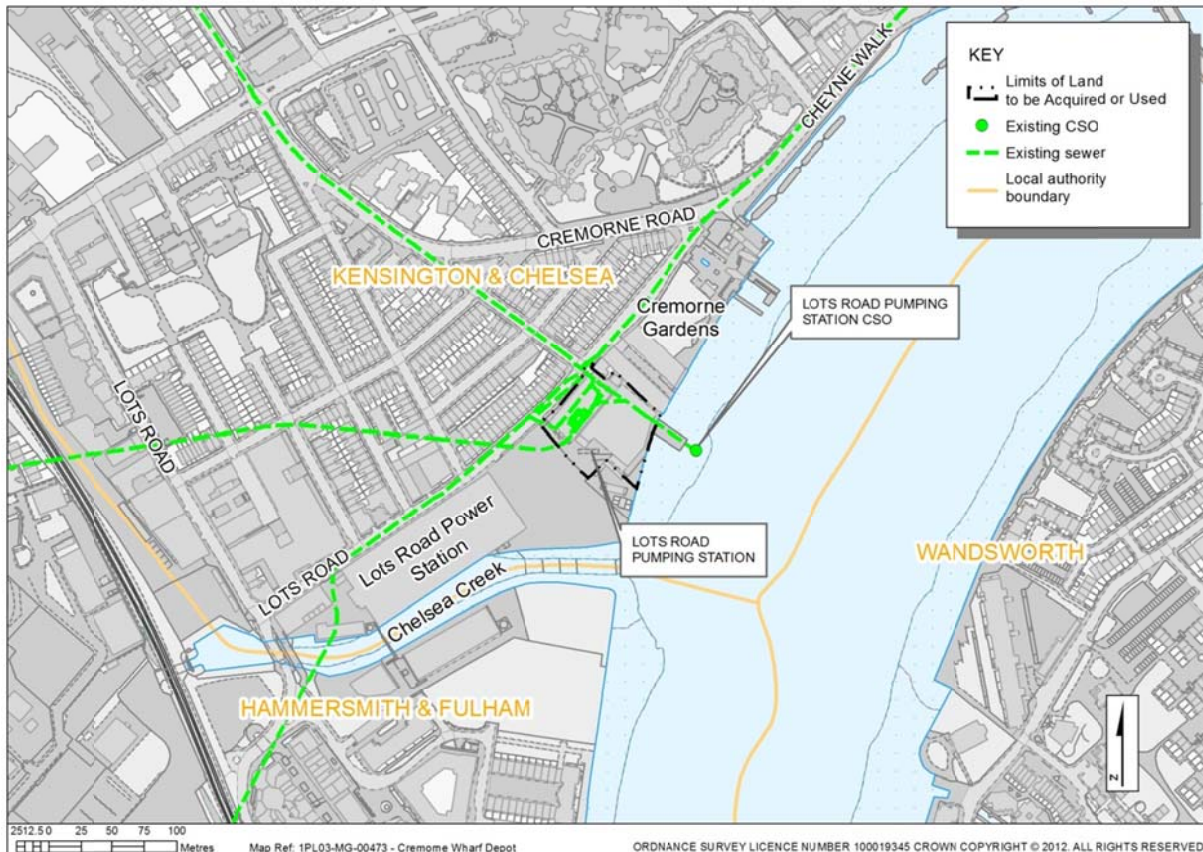
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1 Cremorne Wharf Depot

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Cremorne Wharf Depot site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the Royal Borough of Kensington and Chelsea and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Cremorne Wharf Depot: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> standard continuous for duration of the Lots Road connection tunnel construction. <p>Other working hours are subject to agreement with the local authority.</p> <p>Standard hours on this site are in accordance with the Royal Borough of Kensington and Chelsea's normal working hours of 8am to 6.30pm Monday to Friday, and 8am to 1.30pm Saturday. Mobilisation is only permitted from 7:30am to 8am for staff arrival and briefings, unless otherwise agreed with the council.</p>
Site layout	As per text in <i>CoCP</i> Part A.
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a incorporating suitable art work on public facing sections.</p> <p>The hoarding height is proposed to be a height of 3.6m at this site.</p>
Other items	A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	A one way system in and out of the site will operate. The access will be from the east end of the site and egress from the west.
Traffic management	<p>Lots Road is a residential road. Where practical, heavy goods vehicles accessing and egressing the site will be between 09:30 and 15:00 to avoid school traffic outside these hours.</p> <p>All vehicles will access/egress the site from the Cremorne Road and Lots Road Junction from the east.</p> <p>The eastern access will be left turn in.</p>

Topic	Site-specific requirement
	<p>The western access will be right turn out.</p> <p>There will be suspension of five parking bays on Lots Road.</p> <p>The southern footway on Lots Road will only be closed to construct the crossovers for site access, otherwise it will remain open and unobstructed.</p>
Event restrictions	As per text in <i>CoCP</i> Part A.
River transport	As per text in <i>CoCP</i> Part A.

6 Noise and vibration

Topic	Site-specific requirement
General	Real-time monitoring of noise is required at locations agreed with the Royal Borough of Kensington and Chelsea.
Control measures	<p>See Hoarding requirement above.</p> <p>The gates to the construction site will remain closed as far as reasonably practicable and either clad (with a material of similar specification the site hoarding) or replaced with solid gates. The gates will include an overlapping section at the centre and minimal gap at the bottom and edges.</p> <p>Barge loading and movements will be restricted to 08.00 to 18.00. This can be extended to 22.00 subject to agreement of LA.</p>
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	Real-time monitoring of particles is required at locations agreed with the Royal Borough of Kensington and Chelsea.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	A bat roost has been identified within Lot's Road Pumping Station building. Activities that could cause disturbance to the roost will be avoided where possible. Where such activities are not avoidable, then the need for a license from Natural England in respect of disturbance to bats may be required; advice will be sought from a suitably qualified ecologist in advance of works commencing on site.
Protection of trees	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Listed building	Works to install equipment in Lots Road Power Station will be in accordance with the requirements set out in the application. Measures will be put into place to prevent accidental strike damage to Grade II Listed Lots Road Pumping Station.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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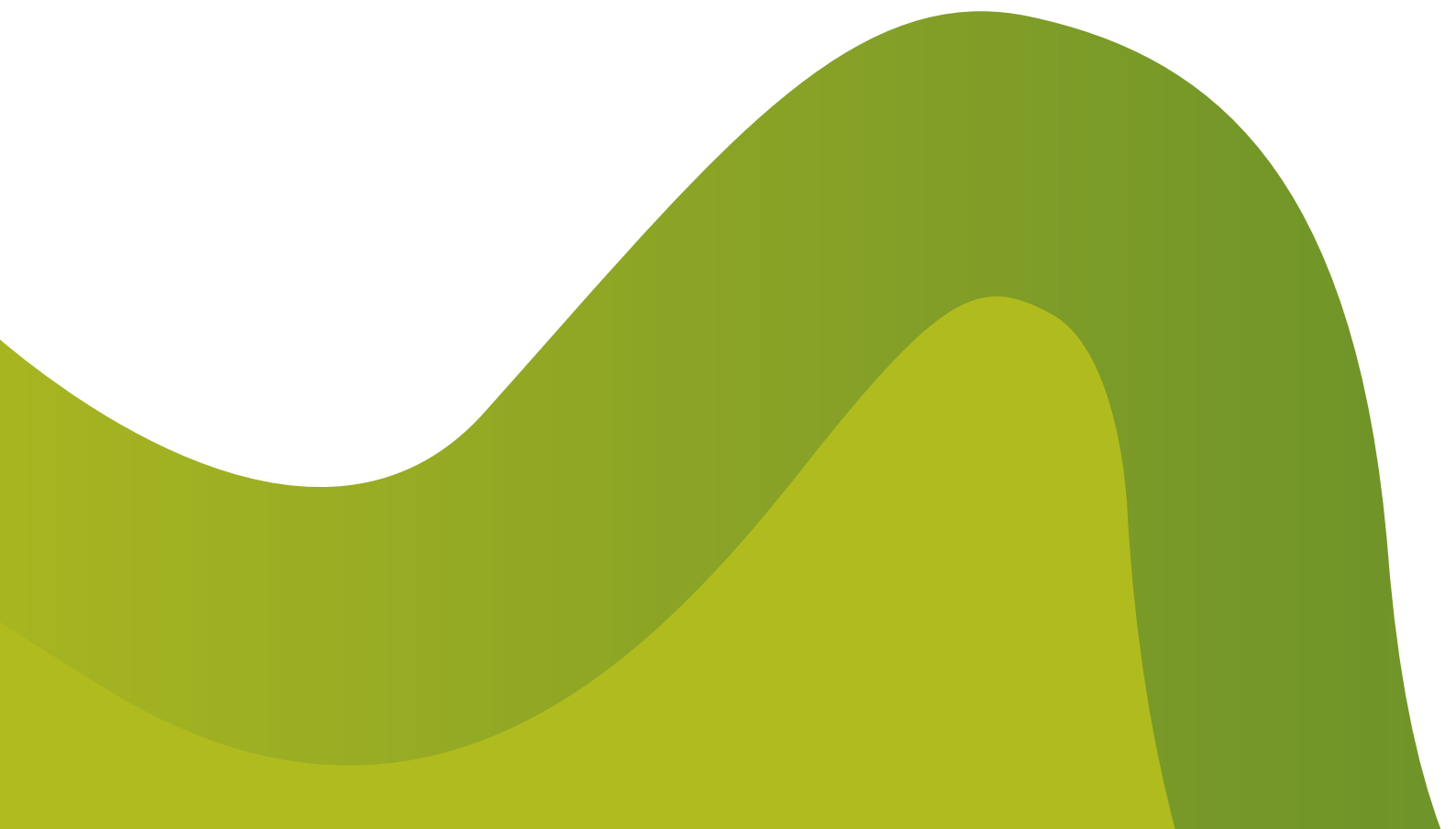
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Chelsea Embankment Foreshore

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Code of Construction Practice Part B

Chelsea Embankment Foreshore

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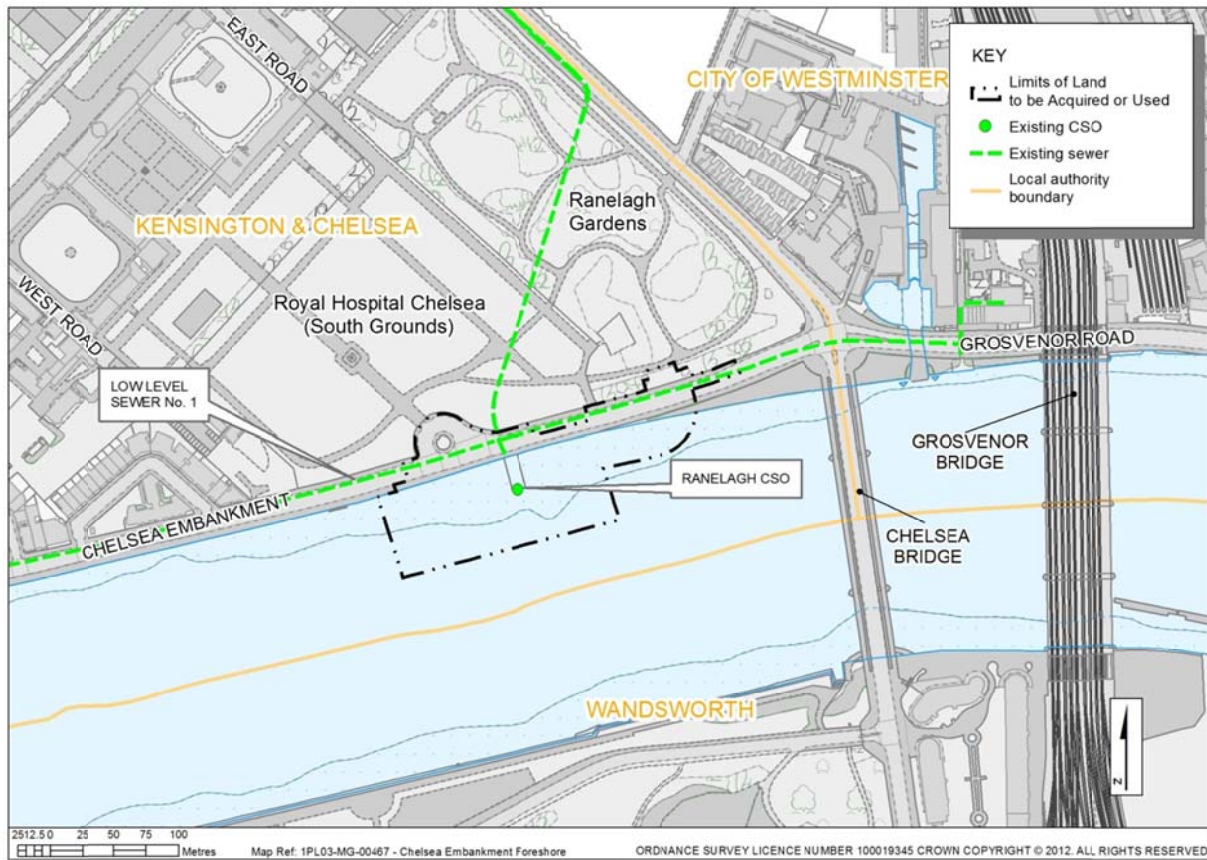
1 Chelsea Embankment Foreshore

1.1 General

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- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Chelsea Embankment Foreshore site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the Royal Borough of Kensington and Chelsea and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in

1.1.6 Figure 1.1 below.

Figure 1.1 Chelsea Embankment Foreshore: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> standard continuous for duration of the Ranelagh connection tunnel construction. <p>Other working hours to be subject to agreement with the local authority.</p> <p>Standard hours on this site are in accordance with the Royal Borough of Kensington and Chelsea's normal working hours of 8am to 6.30pm Monday to Friday, and 8am to 1.30pm Saturday. Mobilisation is only permitted from 7:30am to 8am for staff arrival and briefings, unless otherwise agreed with the council.</p>
Site layout	As per text in <i>CoCP</i> Part A.
Site security / hoarding requirements	The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a and b incorporating suitable art work and viewing windows.
Other items	A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	All vehicles will access/egress site from the westbound lane, using a left turn in and left turn out arrangement.
Traffic management	<p>Site areas will be designed to maintain two-way flow on traffic on Chelsea Embankment (A3212). If required a suitable central safety barrier to be installed between alternate directional lanes. Minimum lane width 3.25m subject to agreement with Transport for London. The existing traffic island directly to the northeast of Bull Ring Gate will be removed.</p> <p>Access through the Bull Ring entrance for set-up and take-down of the Chelsea Flower Show and Masterpiece events, and for VIP access, will be maintained during these events. Emergency access</p>

Topic	Site-specific requirement
	from Chelsea Embankment (A3212) will be maintained during the events.
Event restrictions	Management arrangements during events in the adjacent area to be confirmed in consultation with the Local Highway Authority, the Royal Horticultural Society, and Transport for London.
River transport	As per text in <i>CoCP</i> Part A.
Other	<p>The diversion of the Thames Path will be adequately signed, and a temporary signalised pedestrian crossing will be provided between the foreshore site and the worksite on the eastbound carriageway of Chelsea Embankment (A3212).</p> <p>The riverside footway on Chelsea Embankment (A3212) will be reinstated for public use outside of working hours at weekends.</p> <p>Arrangements to allow buses to turn right from A3212 into the bus stop in the 'Bull ring' area will be maintained, except during landscaping works in this area, unless agreed otherwise.</p> <p>The bus stop in the Bull Ring area would be suspended temporarily only during landscaping works.</p>

6 Noise and vibration

Topic	Site-specific requirement
Control measures	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Energy usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>Membrane to be installed between river bed and temporary back fill material to prevent contamination of juvenile fish habitat.</p> <p>Areas of foreshore used for temporary works will be restored to similar condition and material as was present prior to the works.</p>
Protection of trees	<p>Replacement tree planting to be provided for those lost along Chelsea Embankment. Specification for replacement trees to be agreed with Transport for London and includes species, size, source, pit design and finish.</p> <p>Replacement shrub planting will be provided where removed as part of works within Ranelagh Gardens. Retained vegetation will be protected during works.</p>

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	<p>A proportion of the brickwork of the river wall as well as all of the granite parapet stones will be retained for reinstatement and reuse in accordance with the procedures set out within the Heritage Statement.</p> <p>Retain materials and reuse or reinstate where possible. The railings that form the boundary of the Grade II Registered Ranelagh Gardens will be carefully removed, stored and reinstated.</p> <p>Protective measures to mitigate potential strike damage to the Grade II listed Chelsea Royal Hospital Gardens park gates, the boundary of the Grade II Registered Ranelagh Gardens, and the Chelsea Embankment river wall.</p>

13 Other

Topic	Site-specific requirement
Other	Any materials to be used on highway construction works on the Transport of London Road network to be agreed with Transport for London.

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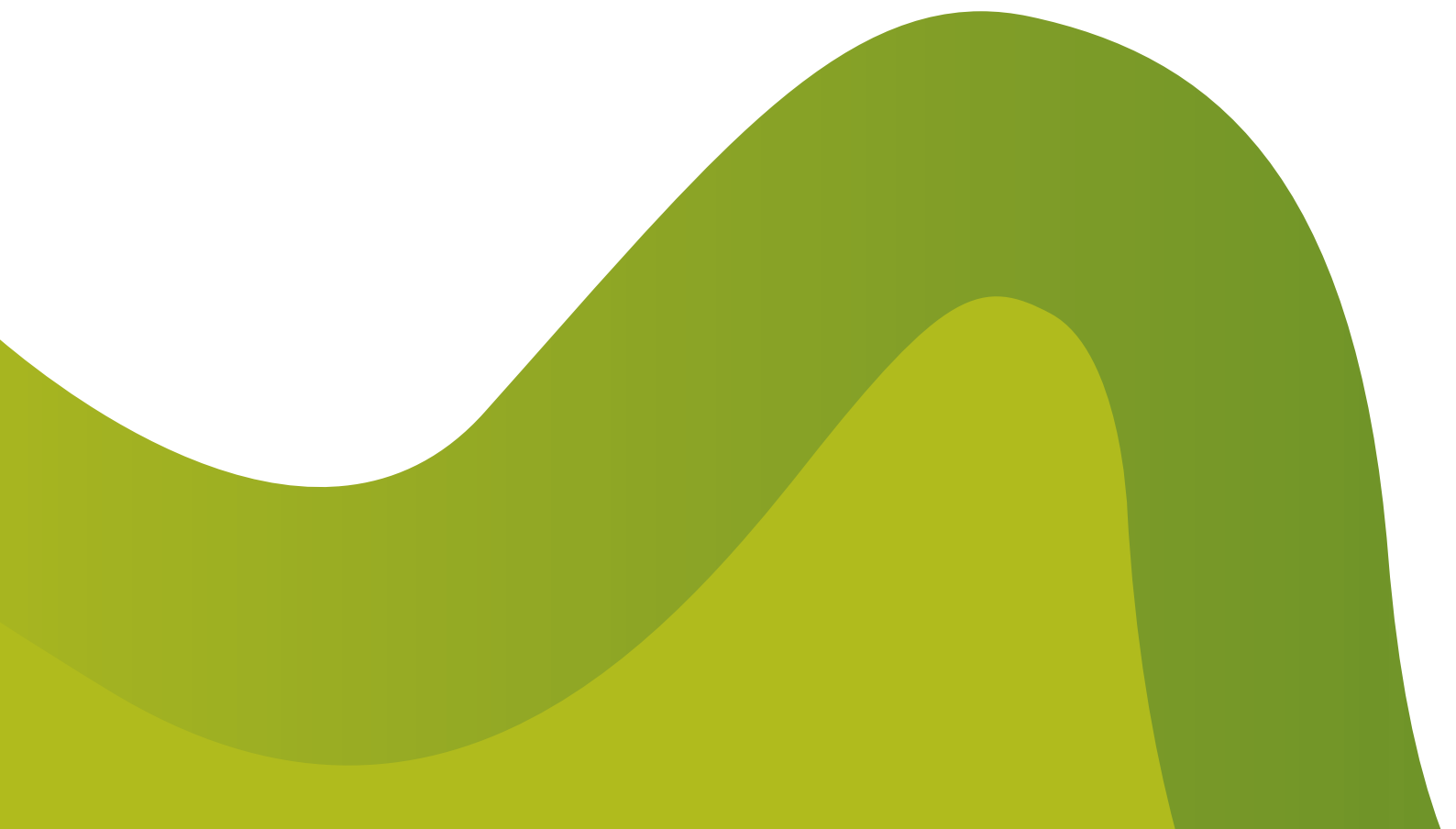
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DCO-DT-000-ZZZZ-071902



Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7:19.2**

Kirtling Street

APFP Regulations 2009: Regulation **5(2)(q)**

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Thames Tideway Tunnel

Code of Construction Practice Part B

Kirtling Street

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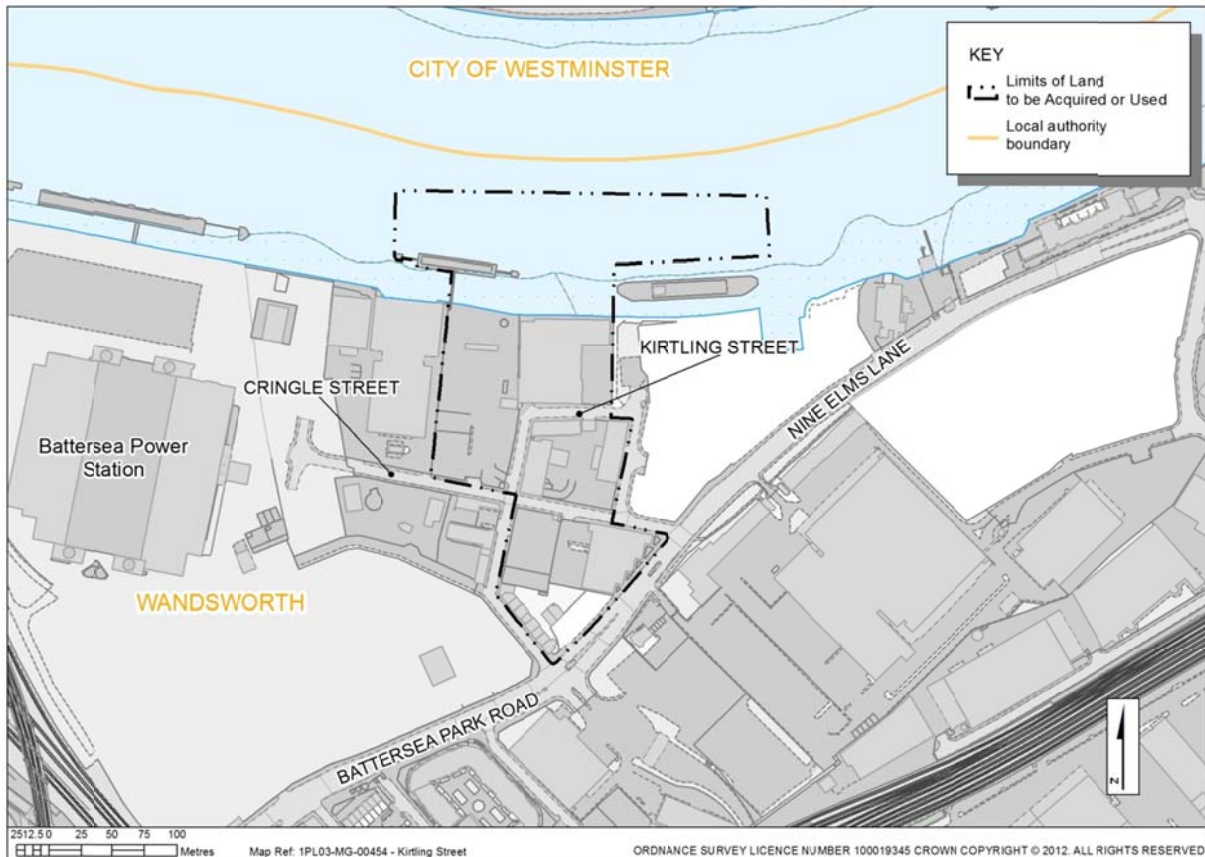
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1 Kirtling Street

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Kirtling Street site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Wandsworth and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Kirtling Street: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> standard extended standard continuous for construction of the main tunnel. <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	<p>The site encompasses part of the existing Cemex site. Access to the Cemex site will be maintained throughout the construction period via Kirtling Street with egress via Cringle Street.</p>
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a incorporating suitable art work on public facing sections.</p> <p>The hoarding height is to be a standard height of 3.6m.</p>
Other items	<p>A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>Access to and from the site will be from Kirtling Street and Cringle Street.</p> <p>There will be no direct access to and from the Kirtling Street site from Nine Elms Lane (A3205), between the Kirtling Street and Cringle Street junctions.</p>
Traffic management	<p>Construction traffic will utilise a one-way system on Kirtling Street and Cringle Street.</p> <p>Kirtling Street and Cringle Street will be kept open for two-way movements for general (non-construction) traffic, except where being shown as stopped up on the access plan.</p> <p>The exit from the site onto Kirtling Street is by the Riverlight development including the car park</p>

Topic	Site-specific requirement
	<p>entrance/exit and nursery. The contractor will put in place measures to manage potential conflicts with vehicles entering and exiting the development, and pedestrians and cyclists on the Thames Path diversion. The contractor will put in measures to manage potential conflicts between vehicles entering/exiting the site at these access points and other traffic on Cringle Street and pedestrians and cyclists on the Thames Path.</p> <p>The site access onto the southern side of Cringle Street will operate as right turn in and right turn out only for construction vehicles. The site exit on the northern side of Cringle Street will operate as left turn out only.</p> <p>The site encompasses part of the existing Cemex site. Access to the Cemex site will be maintained throughout the construction period via Kirtling Street with egress via Cringle Street.</p> <p>Bus stand in Cringle Street to be relocated.</p>
Event restrictions	As per text in <i>CoCP</i> Part A.
River transport	As per text in <i>CoCP</i> Part A.
Site access and gates	The diversion of the Thames Path is to be adequately signed.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>The construction area around the main shaft will be covered by an enclosure/building during the main tunnel construction and secondary lining works. The building will have cladding with a specified sound reduction value.</p> <p>The building openings will be designed to be away from sensitive noise receptors and will be kept closed when not in use at night. Only essential use of openings at night.</p> <p>Compaction of material during demolition will be undertaken using machinery generating the lowest practicable vibration levels which still enables the required level of compaction to be completed. Specifically, the use of large twin-drum vibrating rollers will only occur on occasions where vibration levels can be controlled to less than the impact criteria.</p>

Topic	Site-specific requirement
	<p>The concrete batching plant, grout plant, conveyors to load barges and storage / handling areas will be enclosed with suitable structure acoustic attenuation materials.</p> <p>Screening or enclose of all static plant including enhanced enclosure for pumps.</p> <p>Movement of vehicles on site outside standard hours to be restricted.</p>
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	<p>All hardstanding (as far as reasonably practicable) on non-foreshore sites to incorporate permeable surfacing.</p> <p>Appropriate measures to avoid water runoff to the river need to be adopted specifically in consideration of local un-remediated former gas works.</p>
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Areas of foreshore used for temporary works will be restored to similar condition and material prior to the works.
Protection of trees	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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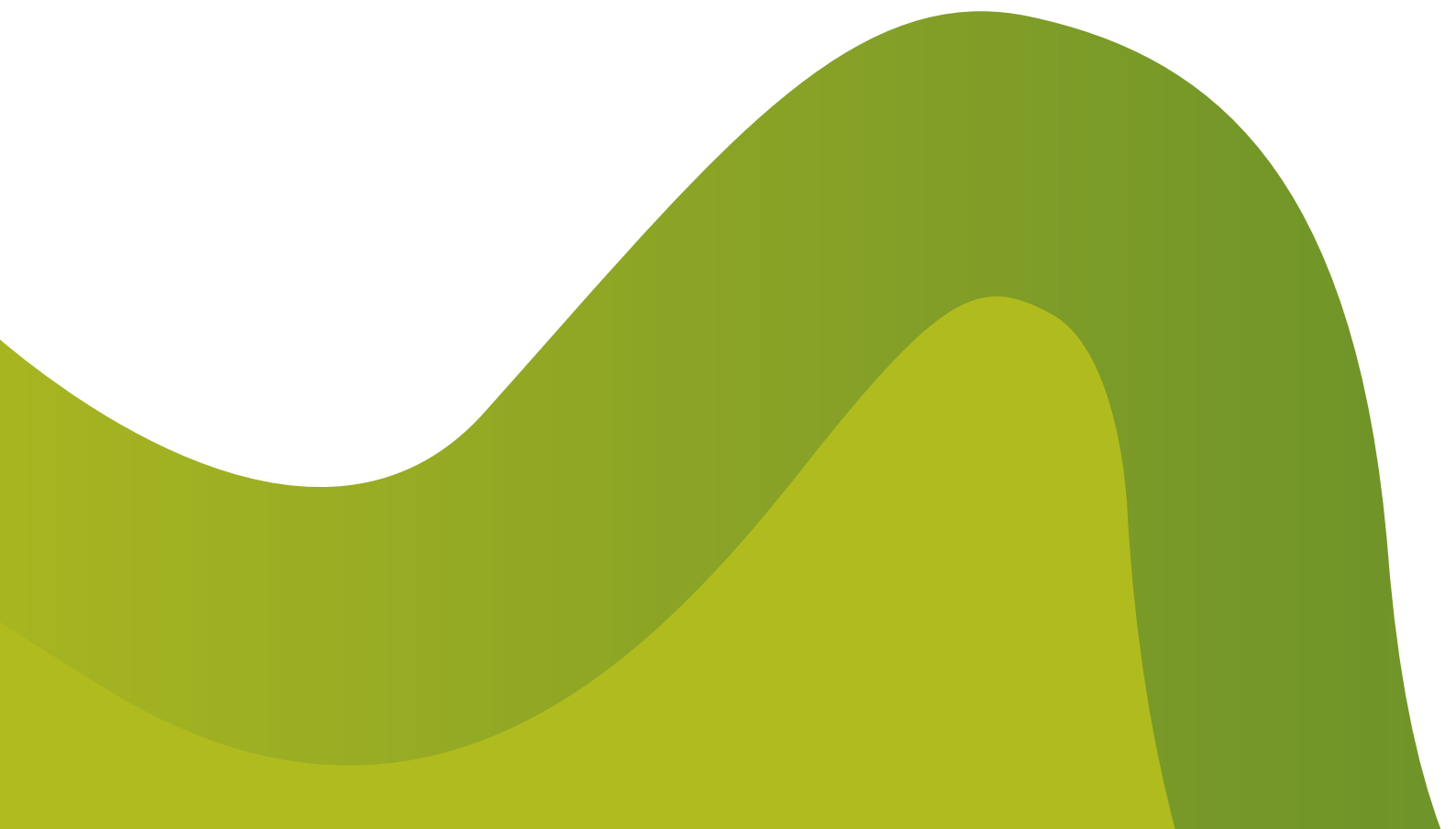
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7:19.2**

Heathwall Pumping Station

APFP Regulations 2009: Regulation **5(2)(q)**

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Code of Construction Practice Part B

Heathwall Pumping Station

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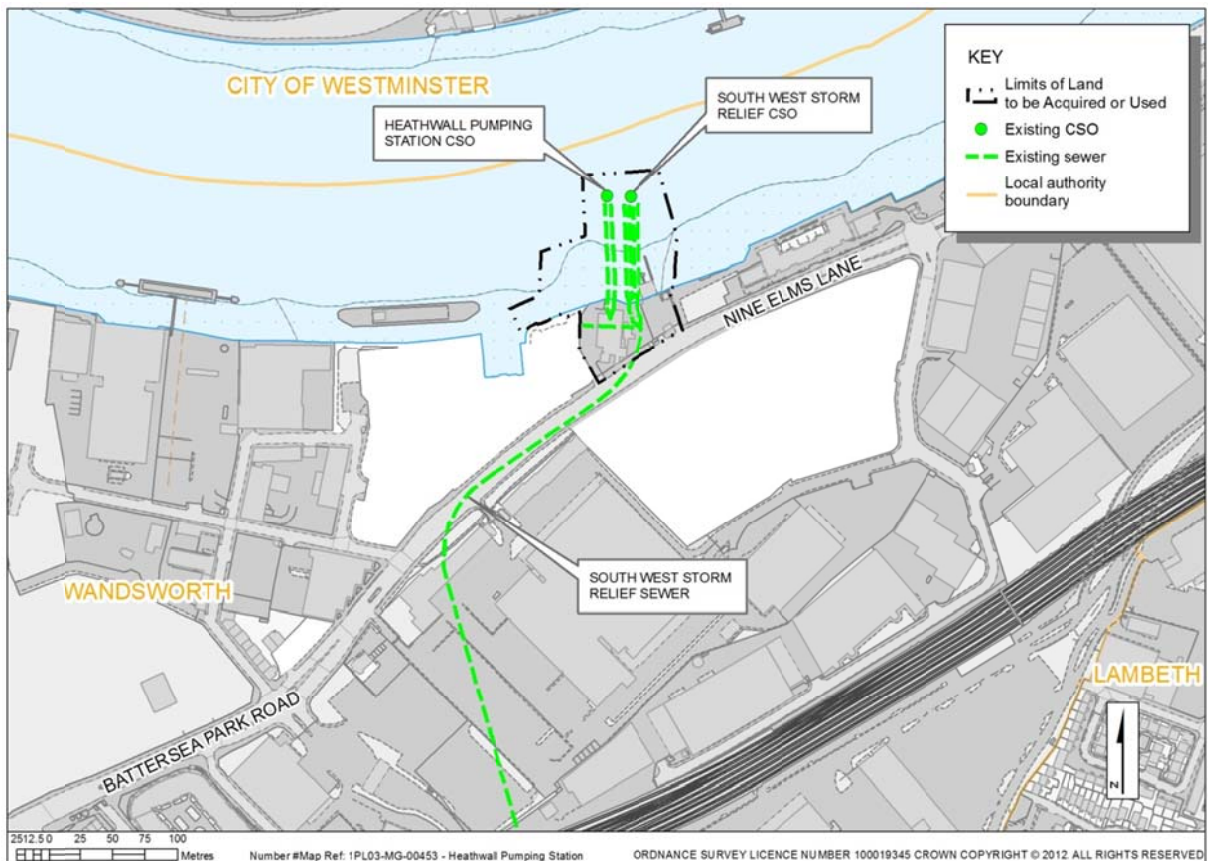
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1 Heathwall Pumping Station

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.1 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Heathwall Pumping Station site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Wandsworth and other stakeholders.
- 1.1.2 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.3 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Heathwall Pumping Station: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> a. standard b. continuous for duration of the Heathwall/SWSR connection tunnel construction <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	As per text in <i>CoCP</i> Part A.
Site security / hoarding requirements	The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a incorporating suitable art work on public facing sections.
Other items	A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The site access will be located as the existing access to the pumping station, and one of the existing accesses to the adjacent Middle Wharf.</p> <p>The contractor is required to put measures into place to prevent vehicles halting on Nine Elms Lane when entering the site. This may include the vehicle notifying the site in advance to ensure that the entrance gate is open, locating the security barrier at a distance within the site and use of a traffic marshal.</p> <p>For general construction vehicle access, no reversing to/from the site onto Nine Elms Lane is allowed. Thames Water operations will require 'business as usual' access to the pumping station.</p> <p>Pedestrian access will be maintained to and from Battersea Barge during construction, including during its temporary relocation.</p>

Topic	Site-specific requirement
Traffic management	<p>Access to the site is from the west with left turn into the site from Nine Elms Lane (A3035). Egress from the site will be left turn out travelling east towards Vauxhall.</p> <p>Due to the site being constrained, the contractor may need to consider the use of a turntable, or restrict lorry size to meet the requirement to prevent reversing onto Nine Elms Lane.</p> <p>Signage, safe crossing points, and other required measures will be provided for pedestrians and cyclists at site accesses to address the potential hazards.</p>
Event restrictions	As per text in <i>CoCP</i> Part A.
River transport	As per text in <i>CoCP</i> Part A.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>2.4m noise barrier on edges of temporary cofferdam.</p> <p>Compaction of material on site will be undertaken using machinery generating the lowest practicable vibration levels which still enables the required level of compaction to be completed. Specifically, the use of large twin-drum vibrating rollers will only occur on occasions where vibration levels can be controlled to less than the impact criteria.</p> <p>The loading and unloading of barges will only be carried out during standard working hours.</p>
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	All hardstanding (as far as reasonably practicable) on non-foreshore sites to incorporate permeable surfacing.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Membrane to be installed between the river bed and temporary back fill material to prevent contamination of juvenile fish habitat. Areas of foreshore used for temporary works will be restored to similar condition and material as was present prior to the works.
Protection of trees	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	During construction of the new river wall including any in-river activities, the Contractor's method for the river works will minimise the risk of impact on the known Saxon fish trap located on the foreshore outside of the northeastern corner of the site, by selecting suitable river plant and operating procedures.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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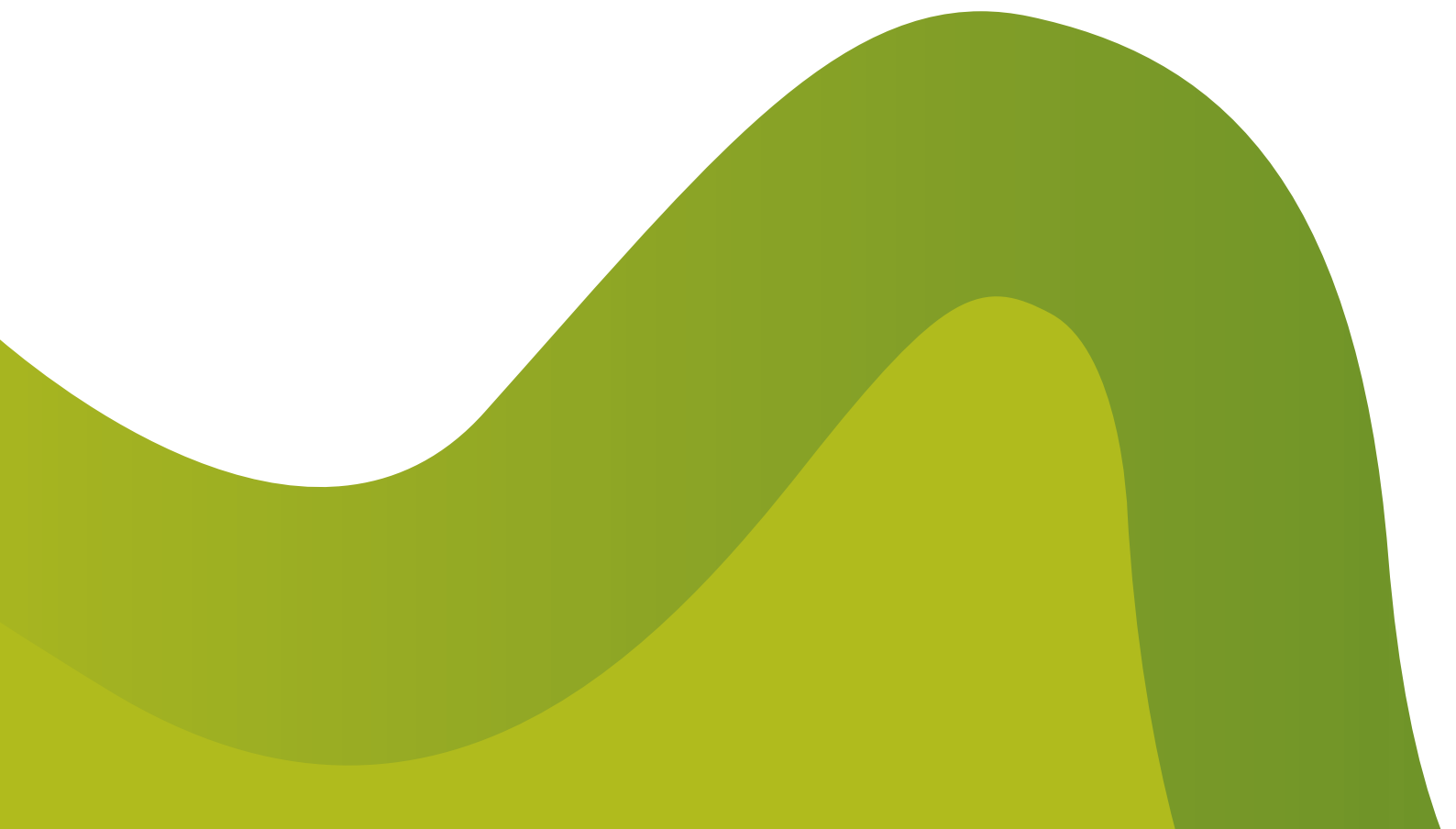
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Albert Embankment Foreshore

APFP Regulations 2009: Regulation **5(2)(q)**

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Code of Construction Practice Part B

Albert Embankment Foreshore

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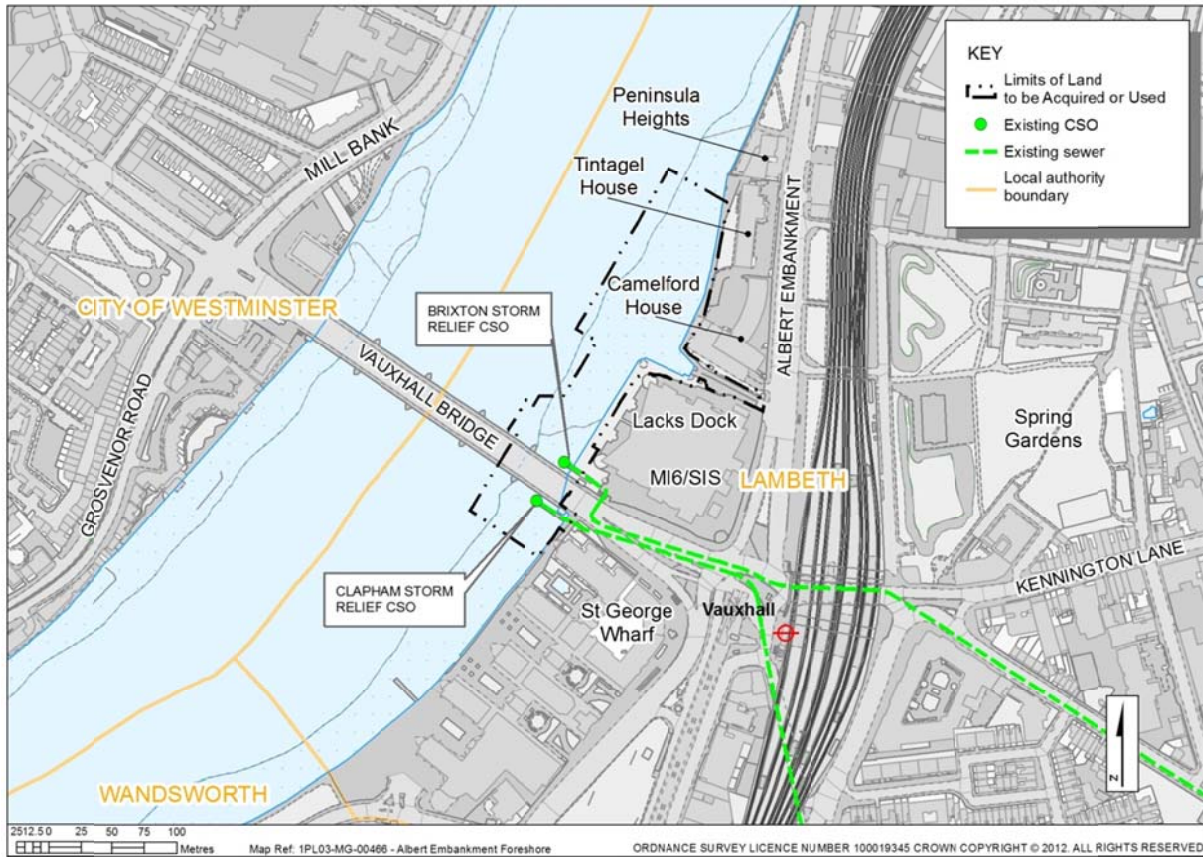
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1 Albert Embankment Foreshore

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of ‘Zero Accidents, Zero Harm, Zero Compromise’.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Albert Embankment Foreshore site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Lambeth and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.
- 1.1.6 The application for development consent includes two options for temporary construction access to the site. Option A provides construction access to the site from Lack’s Dock. Option B provides construction access to the site from a new access created between Camelford House and Tintagel House. In both options, occasional access for construction plant to the work site under Vauxhall Bridge will be required along the Lack’s Dock slipway. The Secretary of State will be asked to confirm which option should be provided in any decision to grant development consent for the project. Where control measures relate to one access option but not to the other, they are identified as such within this document. All other control measures apply regardless of which access option is confirmed.

Figure 1.1 Albert Embankment Foreshore: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> standard extended continuous for duration of the Clapham/Brixton connection tunnel construction. <p>Other working hours are subject to the agreement with the local authority.</p>
Site layout	<p>Areas of foreshore between the working areas are to have suitable protection placed for vehicle transport such as concrete 'armorloc' or similar product.</p>
Site security / hoarding requirements	<p>The hoarding height to be increased from 2.4m to 3.6m at this site.</p> <p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a and b incorporating suitable art work and viewing windows.</p>
Other items	<p>A separate Thames Tideway Tunnel project specification for security measures applies on this site.</p> <p>A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>Access to Lacks Dock for Duck Tours will be maintained throughout the works unless agreed otherwise.</p> <p>The security barrier will be positioned at the entrance to the site access road to allow a standard rigid tipper vehicle to be wholly off the Albert Embankment road whilst awaiting barrier operation.</p> <p>Option A: The existing security kiosk will be relocated and be utilised for a tandem Thames Tideway Tunnel project site access and Duck Tours access security.</p> <p>Access to the site will be from Vauxhall Gyratory and</p>

Topic	Site-specific requirement
	<p>Albert Embankment. The new site access road is adjacent to Lacks Dock.</p> <p>Option B: The new site access road is between Camelford House and Tintagel House, with a new crossover constructed in the pavement.</p> <p>Options A and B: Vehicles will left-turn in and left-turn out only and exit northbound along Albert Embankment.</p> <p>Drivers of construction vehicles accessing the site will be required to obtain security clearance before arriving at the site. The method for obtaining security clearance is to be confirmed. Vehicles arriving at the site entrance without clearance to access the site will be denied entry. Vehicles denied entry will leave the site via a left turn onto Albert Embankment (A3036) under the supervision of a traffic marshal to prevent conflict with other road users on Albert Embankment (A3036), or vehicles entering Lack's Dock or Camelford House vehicle entrance. Large vehicles denied access, that are unable to turn off the highway, will reverse onto Albert Embankment (A3036) under the supervision of a traffic marshal.</p> <p>Option A: A traffic marshal is to be stationed at site entrance to manage potential conflicting movements (eg with incoming/outgoing Duck Tours vehicles) and ensure no vehicles queue/wait on Albert Embankment.</p>
Traffic management	Drivers of large vehicles exiting the site must be aware that the vehicle may encroach into the off-side northbound lane.
Event restrictions	As per text in <i>CoCP</i> Part A.
River transport	Note that large crowds are expected in the Vauxhall area during New Year's Eve, and the contractor will be required to have arrangements in place for additional security, and other measures within the site security plan.
Other	<p>Provision of signage for pedestrian diversions (Thames Path) will clearly identify alternative routes during the construction works at the Albert Embankment Foreshore site.</p> <p>The site is subject to separate security requirements.</p>

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>See hoarding height requirements above.</p> <p>The use of low vibration piling, eg. hydraulic jacking/hydraulic press methods, are required for the construction of the cofferdam where practicable and where ground conditions allow these methods to be adopted. In the piling methods, the contractor needs to give consideration to the proximity of sensitive receptors including Bridge House, Camelford House and Vauxhall Cross.</p> <p>Compaction of material on site will be undertaken using machinery generating the lowest practicable vibration levels which still enables the required level of compaction to be completed. Specifically the use of large vibratory rollers will only be used in locations where vibration levels can be controlled to less than the impact criteria.</p>
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	The area of foreshore between working sites will be monitored for spillage of oils, fuels and other materials during use. The Contractors Environmental Management Plan (CEMP) will include specific control and mitigation measures at this location.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Membrane to be installed between the river bed and temporary back fill material to prevent contamination of juvenile fish habitat and benefits in preserving potential archaeology. Areas of foreshore used for temporary works will be restored to similar condition and material as was prior to the works.
Protection of trees	Option B: Replacement tree planting to be provided for those lost along Albert Embankment. Retained vegetation will be protected during works.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	The Contractors working methods are to minimise risk of accidental striking the listed bridge. Protection barriers will be installed as required but not attached to the structure unless otherwise agreed.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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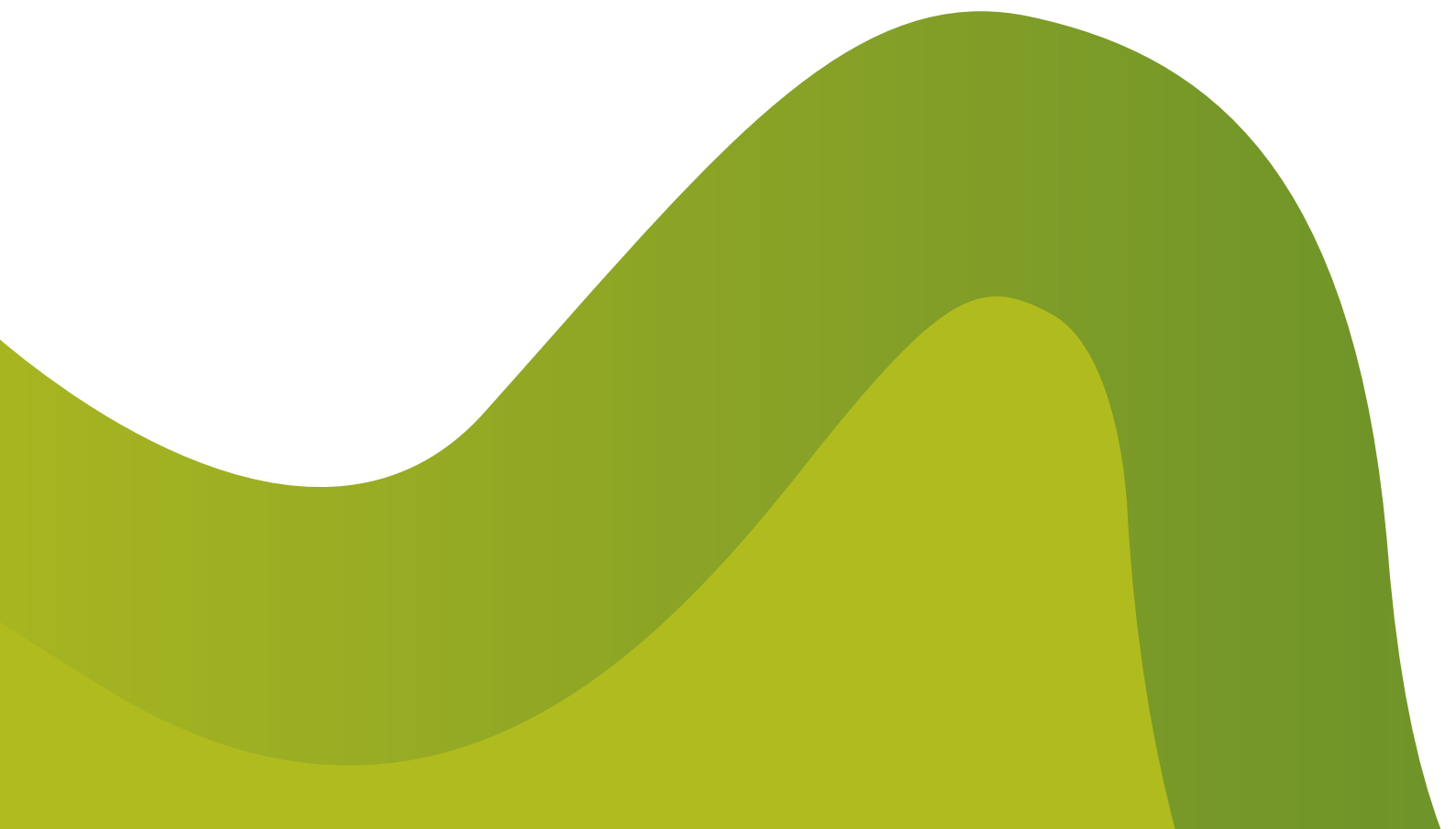
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DCO-DT-000-ZZZZZ-071902



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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7:19.2**

Victoria Embankment Foreshore

APFP Regulations 2009: Regulation **5(2)(q)**

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Thames Tideway Tunnel

Code of Construction Practice Part B

Victoria Embankment Foreshore

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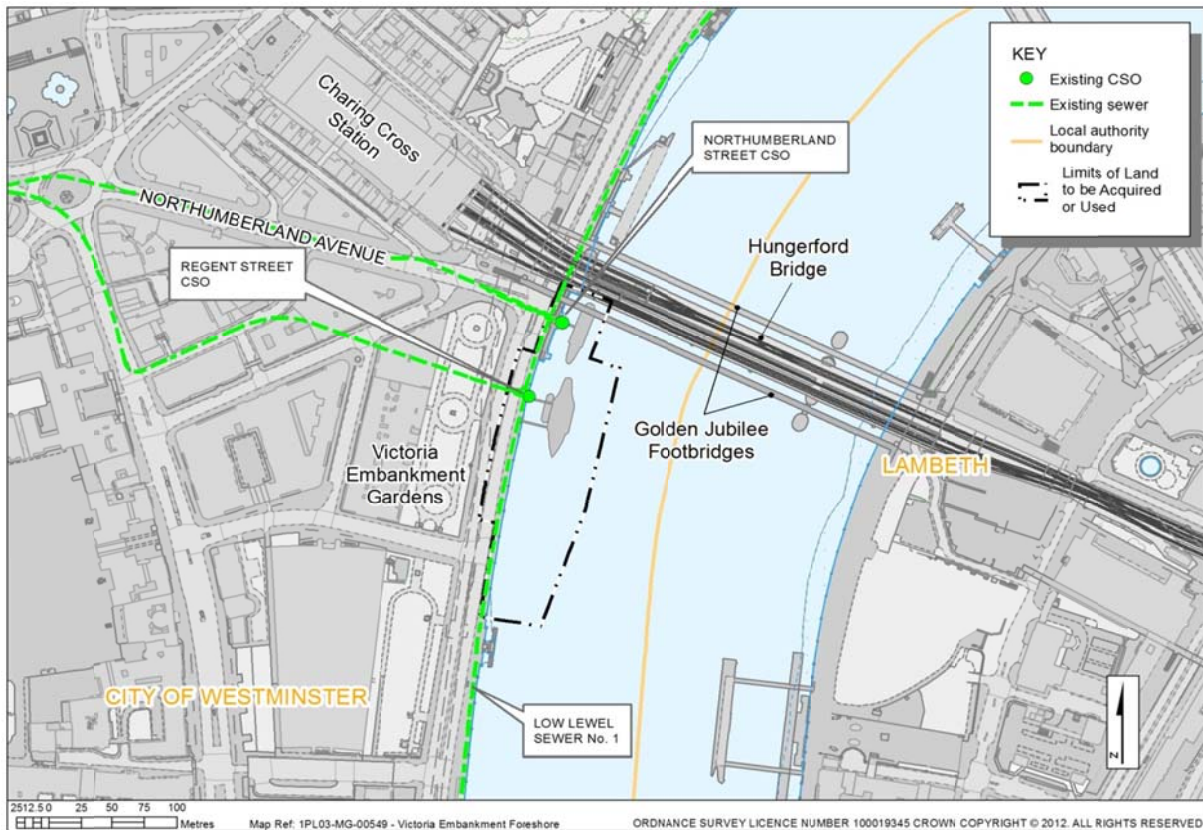
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1 Victoria Embankment Foreshore

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Victoria Embankment Foreshore site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the Westminster City Council and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Victoria Embankment Foreshore: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> standard continuous for duration of the Regent Street connection tunnel construction. <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	<p>Temporary works construction within the river will be limited within the navigational channel. The detailed methods are to be agreed with the PLA, EA and MMO and subject to required licenses navigational risk assessments and consents.</p>
Site security / hoarding requirements	<p>Hoarding on western boundary to increase from 2.4m to 3.6m.</p> <p>The hoarding is to be as defined in <i>CoCP</i> Part A para 4.3.4a and b incorporating suitable art work and viewing windows.</p>
Other items	<p>A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>Access to the site will be from Victoria Embankment with left turn into the site. Egress from the site will be left turn out travelling south.</p>
Traffic management	<p>Site areas to be designed to maintain two-way flow for traffic along Victoria Embankment.</p> <p>Construction works to maintain two lanes on both carriageways, except for short durations during utility diversions where only one lane on the west bound carriageway will be maintained.</p> <p>Coach parking spaces would be relocated to Albert Embankment (A3036) between Tinworth Street and Black Prince Road, Millbank (A3212) between Thorney Street and Atterbury Street, or Lambeth Palace Road (A3036) to the north of Lambeth Road (A3203) / Lambeth Bridge (A3203) / Albert</p>

Topic	Site-specific requirement
	<p>Embankment (A3036) / Lambeth Palace Road (A3036) roundabout.</p> <p>The minimum width of traffic lanes along Victoria Embankment to be retained is one outer lane of 3.0m in each direction, and a second inner lane (where applicable) of 3.25m. Suitable central safety barrier to be installed between alternate direction lanes.</p> <p>Site areas impact into traffic lanes extent and duration to be minimised. Traffic barriers to be moved in and out as construction progresses as Transport for London require minimum land take within highway.</p>
Event restrictions	<p>To be confirmed in consultations with local authority and Transport for London.</p> <p>The London Marathon. Contractor to take appropriate measures prior to and for the duration of the event including items such as minimising extent of works within the highway.</p>
River transport	<p>Access to the existing Embankment Pier to be maintained for both pedestrians and services. Liaison with London River Services (Transport for London) is required.</p>
Other	<p>The diversion of the Thames Path is to be clearly signed.</p>

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>See hoarding requirements above.</p> <p>2.4m noise barrier on the northern and southern boundary of the temporary cofferdam, to screen receptors on the water.</p> <p>The loading and unloading of barges will only be carried out during standard working hours.</p> <p>Baseline noise studies will be required for the worksite. Agreement of action levels and permanent noise monitoring locations will be required with the local authority as part of the Section 61 process.</p>
Other	<p>As per text in <i>CoCP</i> Part A.</p>

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>Membrane to be installed between river bed and temporary back fill material to prevent contamination of habitat and benefits in preserving potential archaeology.</p> <p>Areas of foreshore used for temporary works will be restored to similar condition and material as was present prior to the works.</p>
Protection of trees	Specification for replacement trees to be agreed with Transport for London and includes species, size, source, pit design and finish.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	<p>Intrusive structural investigations to the Listed river wall beyond the area of proposed fabric removal will be required.</p> <p>Existing granite blocks are to be used to make up the joint between new and old river wall sections.</p> <p>The sturgeon lamp stands will be removed and their reuse sought in accordance with the procedures set out in the Heritage Statement.</p>

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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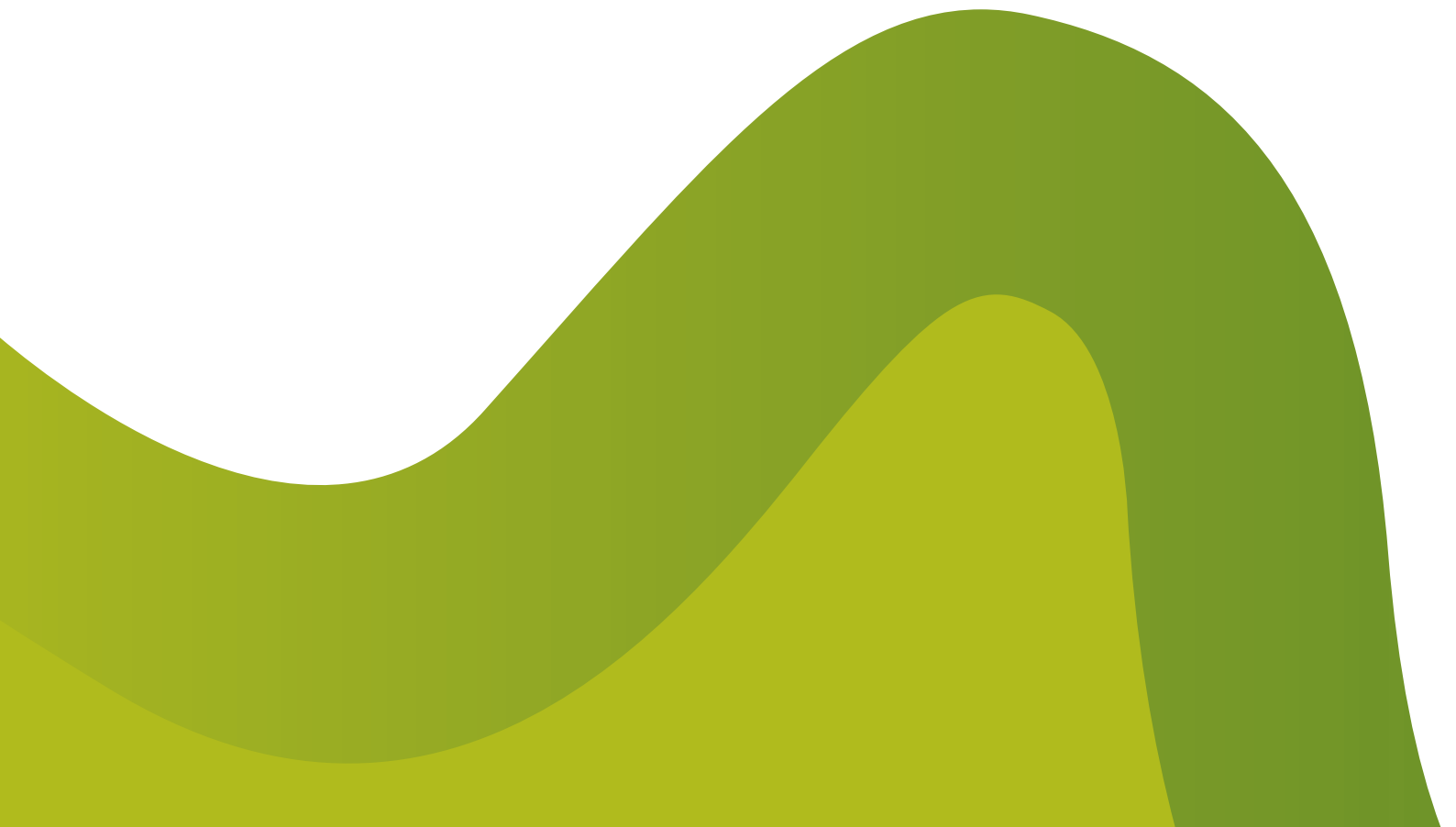
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Blackfriars Bridge Foreshore

APFP Regulations 2009: Regulation **5(2)(q)**

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Thames Tideway Tunnel

Code of Construction Practice Part B

Blackfriars Bridge Foreshore

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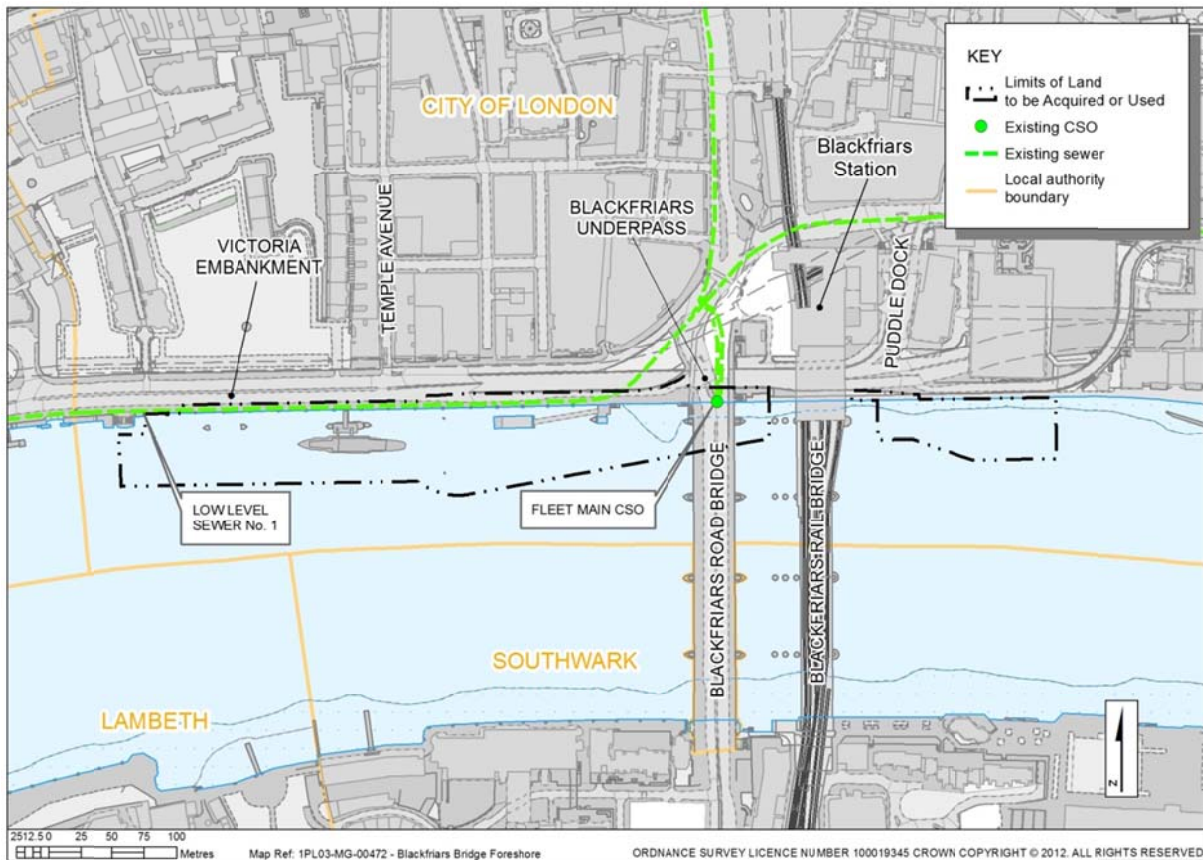
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1 Introduction

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
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 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Blackfriars Bridge Foreshore site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the City of London Corporation and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in the Figure 1.1 below.

Figure 1.1 Blackfriars Bridge Foreshore: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General Requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ul style="list-style-type: none"> a. standard b. extended standard. <p>Other working hours are subject to agreement with the local authority.</p> <p>The contractor is required to engage with the City of London on the planned works, working hours and predicted noise levels, as part of the required construction environmental management plan.</p> <p>It should be noted that the City of London normally restrict noisy work to six hours on weekdays. The works are required to schedule noisy working operations to hours on weekdays (8am to 10am, 12pm to 2pm, 4pm to 6pm), Saturdays 8am to 1pm, with no noisy work on Sundays or Bank Holidays. However, the site is a significant distance from sensitive receptors and standard hours will apply.</p> <p>Other noisy work that may be generated (including deliveries and maintenance) outside of these standard hours need to be the subject of an application to, and agreement by, the City of London. (a 'Site Hours Variation Request' - justifying the work and methods). This includes work categorised in <i>CoCP</i> Part A as extended working hours, continuous working, out of hours, possession working, tidal working and short notice working.</p>
Site layout	<p>The temporary works construction within the river will minimise the works within the navigational channel. The detailed methods are to be agreed with the Port of London Authority, Environment Agency and Marine Management Organisation subject to required licenses, navigational risk assessments and consents.</p>
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a and b incorporating suitable art work and viewing windows.</p>
Other items	<p>A site-specific lighting plan is required. The lighting will address the impact on aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The site access for construction is to be from the new entrance from the westbound ramp leading down from Blackfriars Bridge apart from the period where the low level no1 interception chamber works are undertaken.</p> <p>During this construction phase access will be from Blackfriars underpass.</p>
Traffic management	<p>Lorry arrivals are to be strictly controlled and coordinated to set times to ensure that no lorries queue outside of the site.</p> <p>The westbound ramp can only take standard HGV's and not abnormal loads.</p> <p>The area shown for temporary traffic lane closure at the end of the down ramp is to be used only when required. After use, the area is to be restored to highway use. Given notice by the City of London/ Transport for London for traffic reasons, the area will be restored to traffic as soon as practical after notice.</p> <p>The minimum width of traffic lanes to be retained on the westbound ramp will be 3.25m.</p> <p>Existing coach parking and loading bay on the westbound ramp and Victoria Embankment (A3211) will be suspended.</p> <p>The duration of works effecting traffic lanes including the ramp closure are to be minimised.</p>
Event restrictions	<p>The London Marathon. Contractor to take appropriate measures prior to and for the duration of the event, including items such as minimising extent of works within the highway.</p>
River transport	<p>The new pier is to be in place before the closure of the existing pier. Access to the existing and relocated pier to be maintained for both pedestrians and services. Liaison with London River Services (Transport for London) is required.</p> <p>A detailed navigational risk assessment is required as part of the River Works License to confirm that the arrangements for river transport from the works are safe and acceptable to the Port of London Authority.</p>
Other	<p>The diversion of the Thames Path is to be clearly signed.</p>

Topic	Site-specific requirement
	Coordination is required with both City of London and Transport for London on the requirements of amended pedestrian routes to the relocated Blackfriars Pier. This includes notices, pamphlets, guides and signage to the public.

6 Noise and vibration

Topic	Site-specific requirement
General	<p>The City of London require the submission of the contractors site-specific Construction and Demolition Statement for agreement. This supersedes the requirement for a separate Section 61 application as required in Section 6.3 of Part A. The submission should include details of:</p> <ol style="list-style-type: none"> a. noise and vibration assessment and calculations normally included within a S61 application b. noise and vibration level monitoring details, including real-time monitoring c. non-compliance procedures for noise and vibration monitoring, including notification procedure d. monitoring required for air quality as detailed in Part A. <p>The Contractor should liaise with the City of London on these elements in advance of the submission. The loading and unloading of barges would be carried out during standard hours only. It should be noted that the Employer retains the right to submit Section 61 applications to the City of London.</p>
Control measures	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	Reference should be Section 8.3 of <i>CoCP</i> Part A on protection of water courses. The contractors environmental management plan will include specific control and mitigation measures for minimising risk of contaminated site run off directly to the river during the works, particularly during diaphragm wall construction works
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>Membrane to be installed between river bed and temporary back fill material to prevent contamination of juvenile fish habitat and benefits in preserving potential archaeology.</p> <p>Areas of foreshore used for temporary works will be restored to similar condition and material as was present prior to the works.</p>
Protection of trees	Specification for replacement trees to be agreed with Transport for London and includes species, size, source, pit design and finish.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	<p>The contractors working methods are to minimise risk of accidental striking the listed bridge. Protection barriers will be installed as required but not attached to the structure unless otherwise agreed.</p> <p>During construction of the new river wall as part of the Blackfriars underpass work a Roman boat was uncovered in the cofferdam (see Figure 13.1). The location is between the road and rail bridges. The Contractors method for the river works will minimise the risk of impact on the boat location by selecting suitable river plant and operating procedures.</p> <p>The sturgeon lamp stands will be carefully removed, stored and reinstated in their current positions as far as it is possible. The existing replica lamp stands will be replaced with originals from elsewhere (by agreement) or new castings from the original moulds.</p> <p>Existing granite blocks are to be used to make up the joint between new and old river wall sections.</p>

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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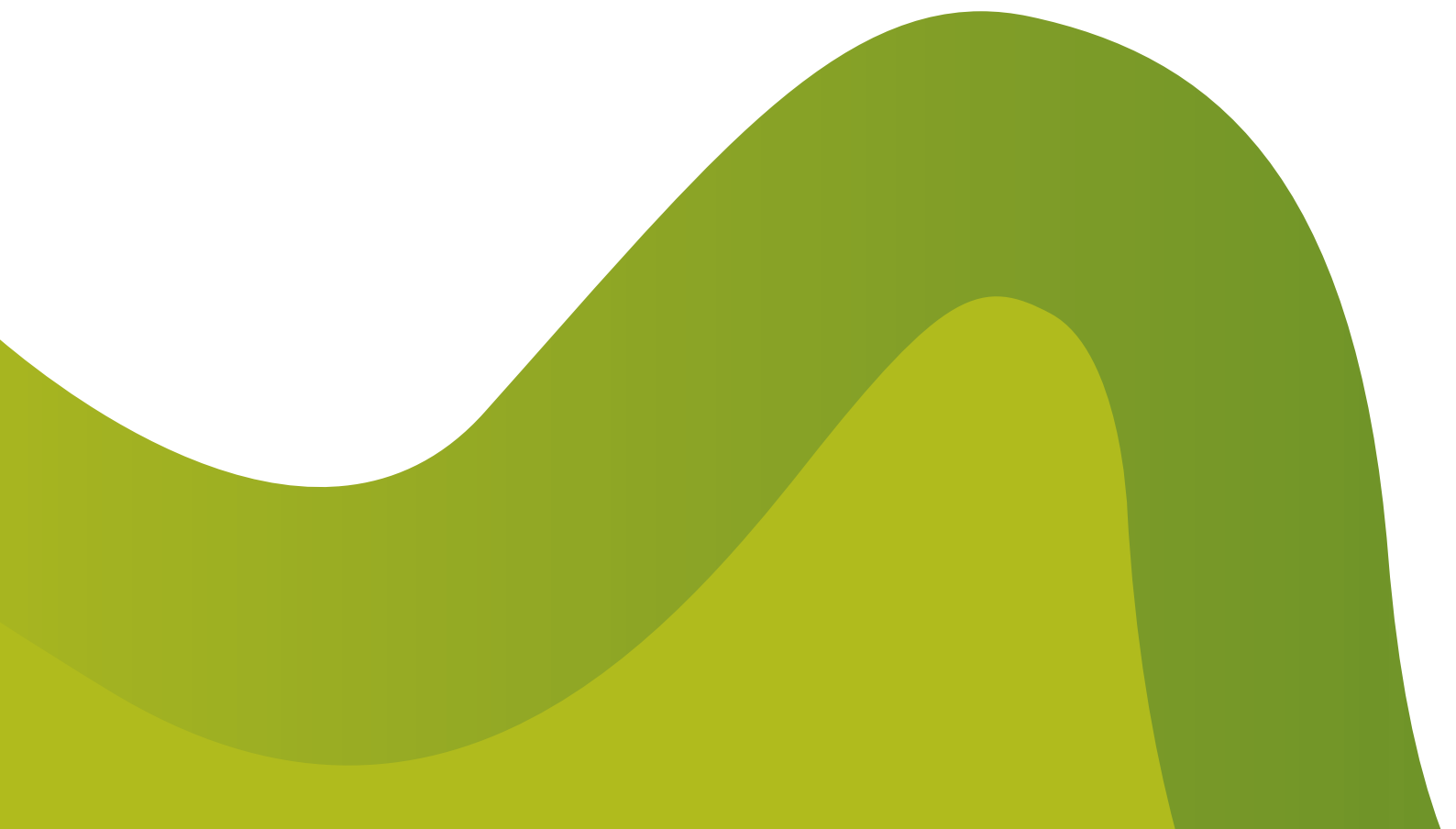
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Shad Thames Pumping Station

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Code of Construction Practice Part B

Shad Thames Pumping Station

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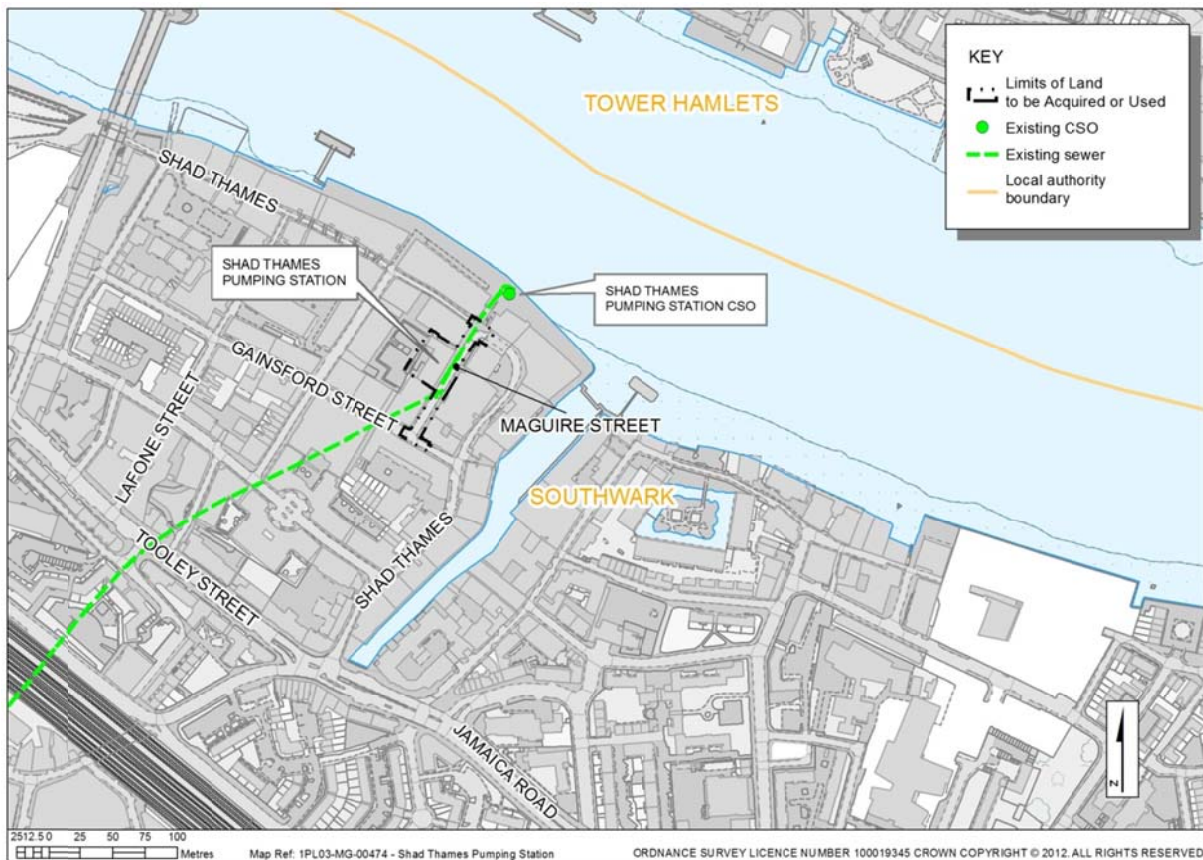
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1 Shad Thames Pumping Station

1.1 General

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- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
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 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Shad Thames Pumping Station site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Southwark and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Shad Thames Pumping Station: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 The project will convene a working group with representatives made up from residents, local councillors, contractors, the employer, and officers from the London Borough of Southwark.

4 Site operation

Topic	Site-specific requirement
Working hours	This site will adhere to the following working hours: a. standard Other working hours are subject to agreement with the London Borough of Southwark.
Site layout	As per text in <i>CoCP</i> Part A.
Site security / hoarding requirements	Standard hoarding is to be installed on existing kerblines to provide barrier for noise and dust spill onto Maguire Street in front of Shad Thames Pumping Station. It will also be provided between Wheat Wharf and the pumping station and at the rear of the pumping station in the private car park of Vanilla Court and Sesame Court. A hoarding licence will be required. If practical hoarding to include clear material, (Perspex or similar), in upper sections to mitigate potential sunlight/ daylight impacts.
Other items	As per text in <i>CoCP</i> Part A.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	Site access will be from Jamaica Road (A200), Shad Thames and Maguire Street. Traffic leaving the site will turn right from Maguire Street into Gainsford Street, left into Lafone Street and left onto Tooley Street. Gainsford Street and Maguire Street junction will be closed for the duration of the required manhole works.
Traffic management	Existing parking on Maguire Street opposite the Pumping Station to be suspended. The period of closure of Maguire Street for the construction of the manhole and sewer connection will be minimised. Shad Thames to be made two-way during the closure. Liaison and consultation with the London Borough of Southwark to agree details including notices, publicity and coordination with other potential works.
Event restrictions	N/A

Topic	Site-specific requirement
River transport	N/A
Other	The closure of the footpath outside of the pumping station to be clearly signed. During the construction of the manhole and sewer connection in Maguire Street, pedestrian access to the existing building entrances is to be maintained at all times.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	During the construction of the manhole and sewer connection in Maguire Street suitable fencing will be used including insulation to minimise noise impacts on adjacent properties during these construction works. If practical hoarding to include perspex/clear material in upper sections to maintain natural sunlight/daylight to potential effected properties. During demolition works to the back of the pumping station, the building will be scaffolded and have noise attenuating cladding to screen the works.
Other	The adjacent Wheat Wharf building adjacent to the pumping station will be specifically monitored for vibration in advance and during the works.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions / control	The scaffolding and other arrangements for the demolition of the existing building will have appropriate sheeting to minimise risk of dust emissions. Refer to Section 7 Air quality of the <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Pre demolition ecology checks are required (birds and bats). Refer to <i>CoCP</i> Part A, Section 11 Ecology.
Protection of trees	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	Reuse bricks from beneath the current window where possible in completing the new doorway. Ensure new door is in keeping with current door.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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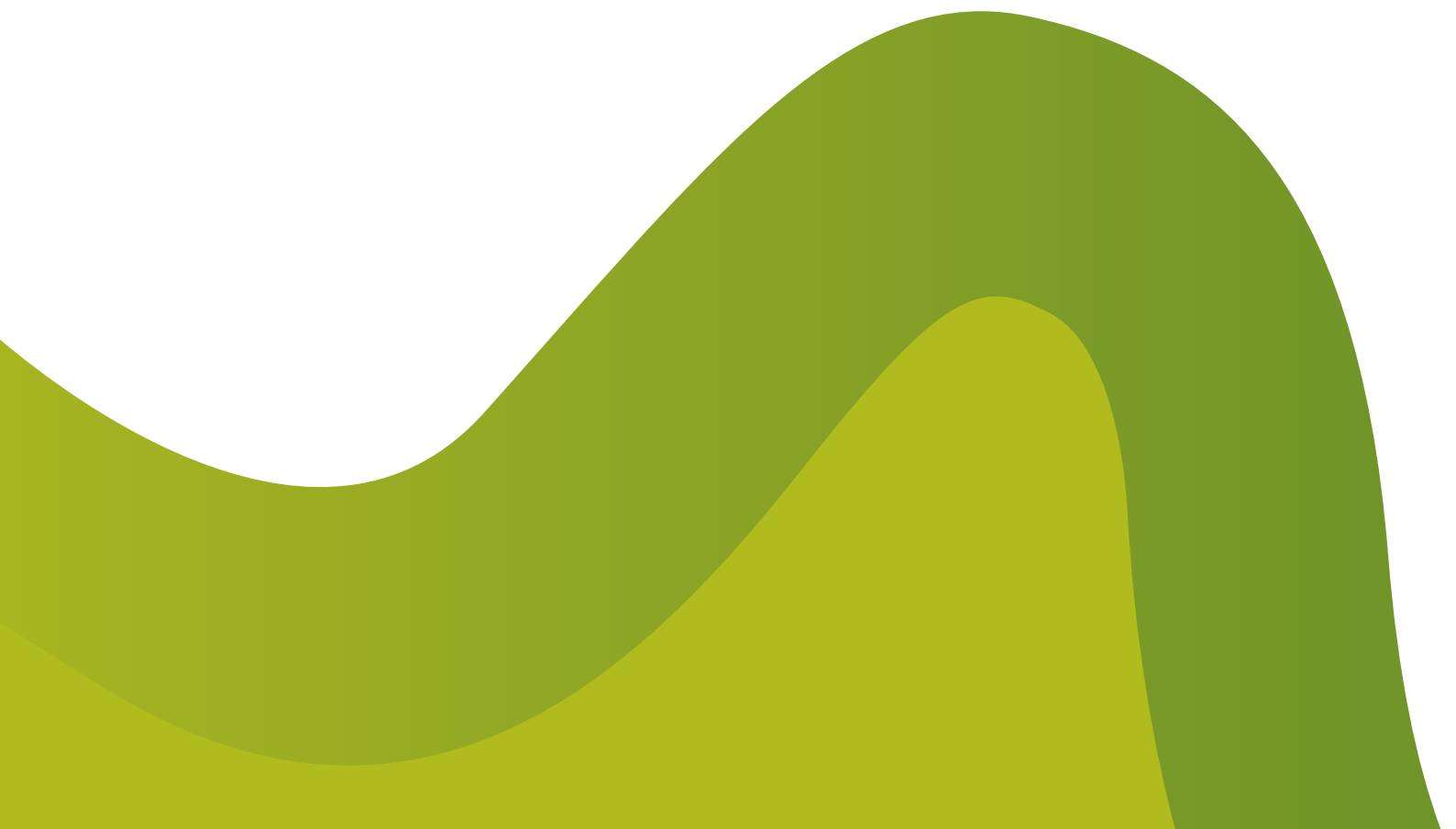
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7:19.2**

Chambers Wharf

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Code of Construction Practice Part B

Chambers Wharf

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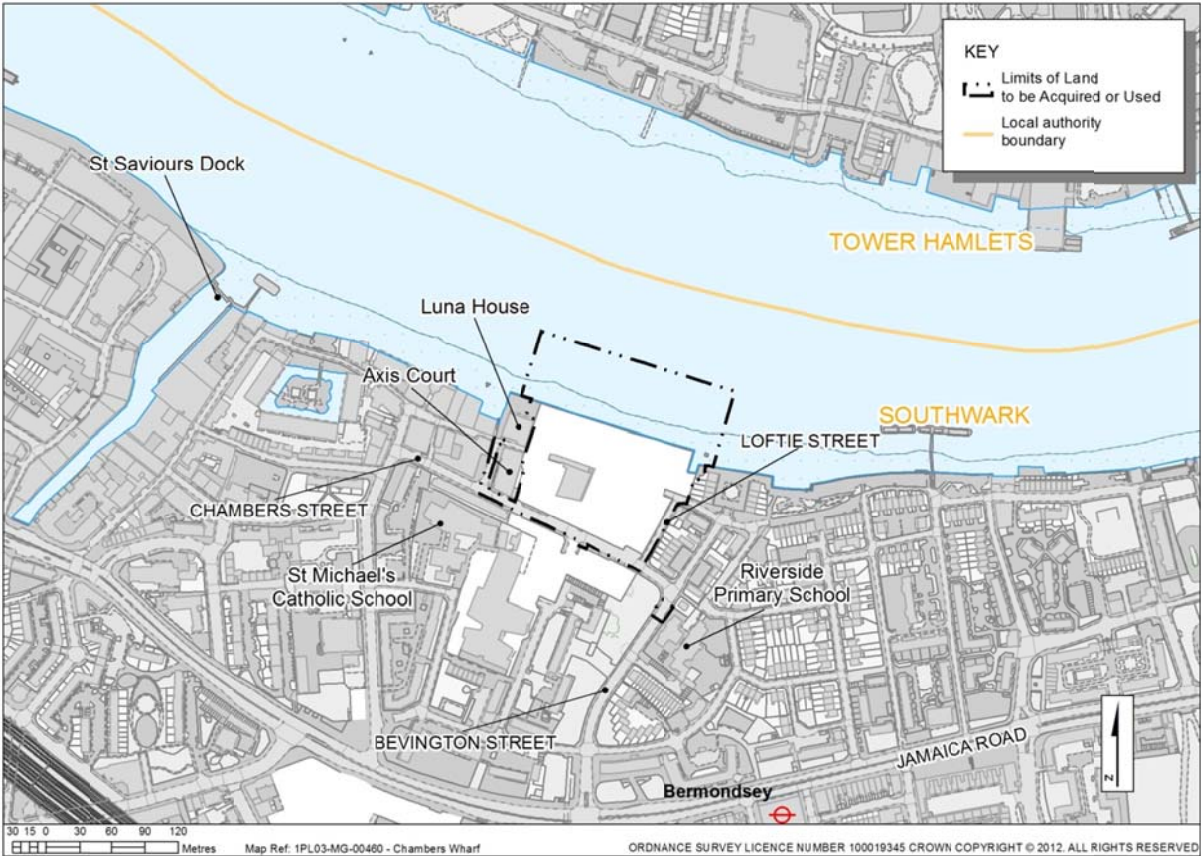
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1 Chambers Wharf

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Chambers Wharf site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Southwark and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Chambers Wharf: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 The project will convene a working group with representatives made up from residents, local councillors, contractors, the employer, and officers from the London Borough of Southwark.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> standard extended standard continuous for main tunnel construction. <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	<p>The site layout will consider the use of required offices and storage containers as noise barriers. Specifically on the southwest corner by Chambers Street 3 story offices or equivalent will be used. This area of the site is closest to St Michaels School.</p> <p>The site layout, hoarding and noise barriers on the west of the site shall be designed where practical to minimise potential sunlight/daylight impacts on the lower floors of Axis Court.</p> <p>The site layout will ensure that noise generating operations will be located away from sensitive receptors.</p>
Site security / hoarding requirements	<p>The standard hoarding will be increased to 3.6m high around this site.</p> <p>5m high hoarding/ noise barrier to eastern edge of site.</p> <p>The hoarding is to be as defined in <i>CoCP Part A</i> para. 4.3.4a incorporating suitable art work on public facing sections.</p>
Other items	<p>A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements. The Lighting plan is to be submitted to the London Borough of Southwark.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The security barrier will be positioned to allow a standard rigid tipper vehicle to be wholly off the road whilst awaiting barrier operation.</p>

Topic	Site-specific requirement
	The site gates will be solid panels and will remain closed, and only opened for vehicle access and egress, to mitigate against noise and other impacts.
Traffic management	<p>All vehicles will access/egress the site from the A200 Jamaica Road via Bevington Street/Chambers Street.</p> <p>The site access will operate as right turn in, left turn out.</p> <p>Parking along Chambers Street from the site entrance to Bevington Street will be suspended.</p> <p>Sections of parking on Bevington Street at the junction with Chambers Street will be suspended.</p> <p>A new pedestrian refuge on Bevington Street 20m south west of the junction of Bevington Street / Chambers Street will be provided to accommodate a safe pedestrian crossing.</p> <p>Signage to inform pedestrians of safe routes and the presence of construction vehicles will be provided.</p>
Event restrictions	To be confirmed in consultation with local authority and Transport for London.
River transport	As per text in <i>CoCP</i> Part A.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>See hoarding and site layout requirements detailed above.</p> <p>The use of low vibration piling, eg. hydraulic jacking/hydraulic press methods, are required for the construction of the cofferdam where practicable and where ground conditions allow these methods to be adopted. In the piling methods, the contractor needs to give consideration to the proximity of sensitive receptors including Axis Court and 8-14 Fountain Green Square.</p> <p>Compaction of material on site will be undertaken using machinery generating the lowest practicable vibration levels which still enables the required level of compaction to be completed. Specifically, the use of large twin-drum vibrating rollers will only occur on occasions where vibration levels can be controlled to less than the impact criteria.</p> <p>The construction area around the main shaft will be</p>

Topic	Site-specific requirement
	<p>covered by an enclosure/building during the main tunnel construction and secondary lining works. The building will have cladding with a specified sound reduction value. The building openings will be designed to be away from sensitive noise receptors and will be kept closed when not in use at night. Only essential use of openings at night.</p> <p>Enclosures with suitable structure and acoustic attenuation material required for concrete batching plant, grout plant, conveyors to load barges and material storage / handling areas.</p> <p>The material handling area will be screened by a three sided enclosure and roof, clad with suitable noise attenuation material.</p> <p>The slurry treatment plant will be screened by a four sided enclosure with roof, clad with suitable noise attenuation material.</p> <p>Screen or enclose all static plant including enhanced enclosure for pumps.</p> <p>Movement of vehicles on site outside standard hours is to be restricted.</p> <p>The barge loading area will be located to consider the noise impacts on riverside properties on both the east and west of the site.</p> <p>2.4m noise barrier on edge of cofferdam on east and west sides.</p> <p>Noise barrier on cofferdam is to be constructed with the transparent plastic (perspex/ plexiglass) with a minimum thickness of 6mm and to meet noise attenuation requirements. Barrier up to 1m from ground to be plywood and section above to be transparent to minimise visual impact. Baseline monitoring for noise will be undertaken for a minimum of 12 months.</p> <p>In-road utility works in Chambers Street to have suitable portable noise barriers including fixing noise attenuating cladding to any portable steel open mesh fencing used.</p>
Other	<p>For removal of the existing jetty decking piles see Part A. The contractor's method is to reduce potential river vibration.</p>

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	Baseline monitoring for PM ₁₀ and NO ₂ will be undertaken for a minimum of 12 months, prior to the works commencing.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water /groundwater	All hardstanding (as far as reasonably practicable) on non-foreshore sites to incorporate permeable surfacing.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>Membrane to be installed between river bed and temporary back fill material to prevent contamination of juvenile fish habitat and benefits in preserving potential archaeology.</p> <p>Areas of foreshore used for temporary works will be restored to similar condition and material as was present prior to the works.</p> <p>For removal of piles see <i>CoCP</i> Part A (Section 4.7 River works).</p>
Protection of trees	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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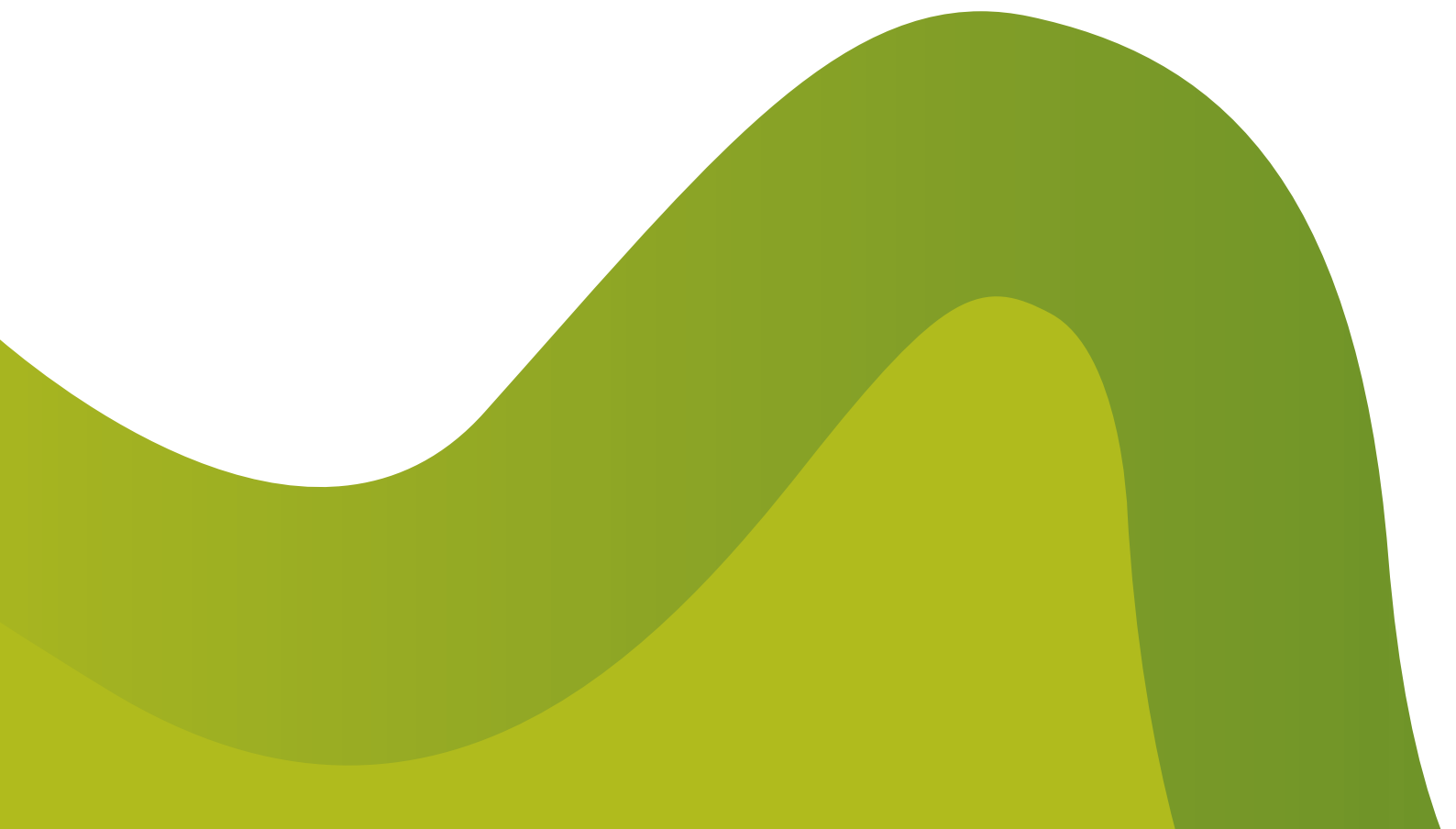
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

King Edward Memorial Park Foreshore

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Code of Construction Practice Part B

King Edward Memorial Park Foreshore

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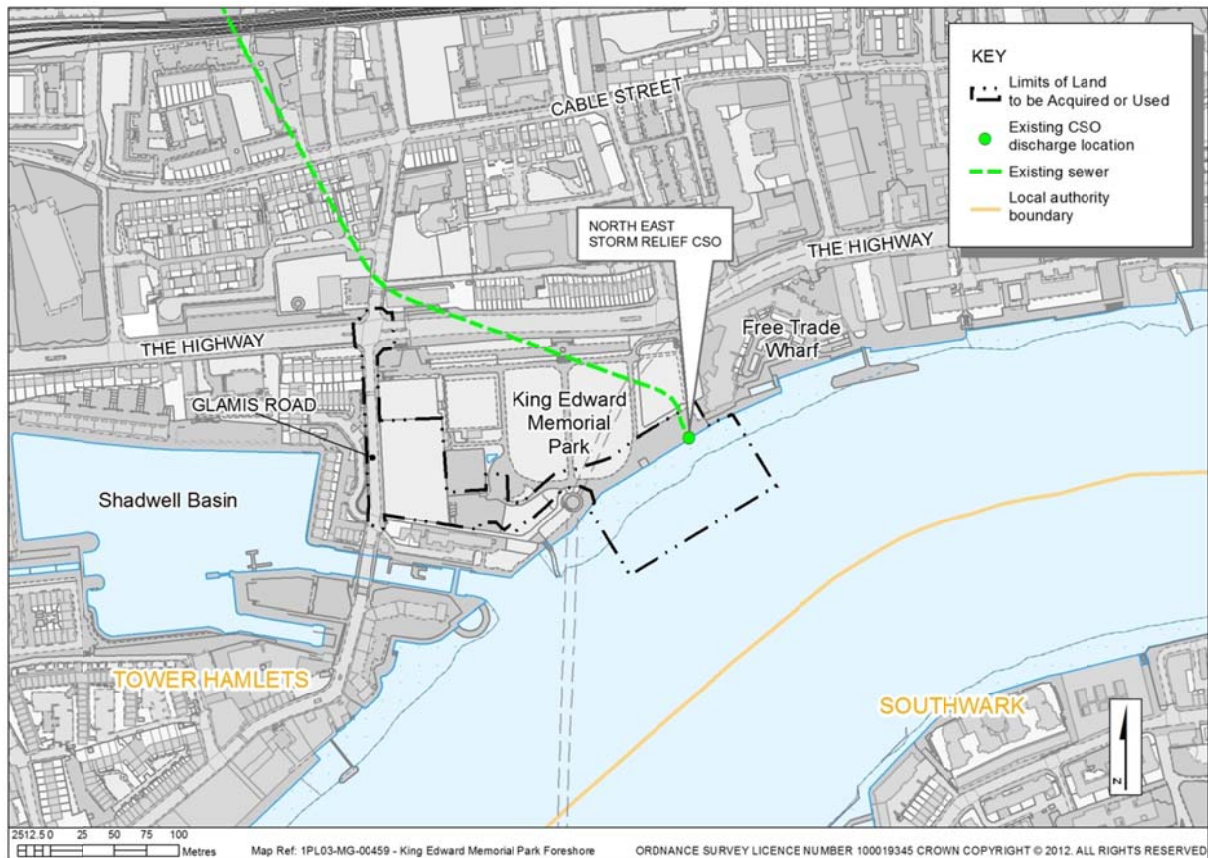
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1 King Edward Memorial Park Foreshore

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at King Edward Memorial Park Foreshore site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Tower Hamlets and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 King Edward Memorial Park Foreshore: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> a. standard b. extended standard. <p>Extended working hours are required at this site to allow for major concrete pours for shaft construction including diaphragm wall panels, base slab, roof slab and other large elements. The exact timing of any extended hours working are to be consulted and notified to the London Borough of Tower Hamlets in advance through S61 process.</p> <p>Other working hours are subject to agreement with the council.</p>
Site layout	<p>The site arrangements utilise areas of the park and foreshore.</p> <p>The existing children's playground is to be relocated in advance of the access road works.</p> <p>The use and duration of the areas within the park are to be minimised and reduced as appropriate between the construction phases. This includes reducing the area used in the existing football pitch and park maintenance area prior to and after shaft construction.</p>
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4c, planted hoarding on public facing sections. The areas around the shaft construction site and the multi sport/park maintenance site are to have full standard 2.4m hoarding.</p> <p>The site vehicle access route is to have secure, green painted steel open mesh fencing to allow views through to the river to be maintained.</p> <p>Outside of standard working hours at weekends the steel mesh fencing on the access route will be removed to allow for open access through the park to the river frontage.</p> <p>A gated crossing will be provided to enable the realigned Thames Path to cross the access road. The gates will only be closed to pedestrians and cyclists during vehicle movements. A traffic marshal will be deployed to ensure the safe movement of vehicles and public crossing.</p> <p>Hoardings to be increased from 2.4m to 3.6m around</p>

Topic	Site-specific requirement
	the main shaft working areas.
Other items	<p>Landscape plans to show retention of both tennis courts and a reduced multi sport pitches size.</p> <p>A site-specific lighting plan is required. The lighting will address the impact on terrestrial and aquatic ecology and include the use of low level directional lighting where possible whilst meeting safe work requirements. The Lighting Plan is to be submitted and agreed with the London Borough of Tower Hamlets.</p> <p>Site cabins and welfare facilities to be dark green color to tie in with the planted hoardings.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The site access is to be only via Glamis Road from the Highway. Access to the site will be from the north with left turn in to the site and right turn out.</p> <p>The security barrier will be positioned to allow a standard rigid tipper vehicle to be wholly off the road whilst awaiting barrier operation.</p> <p>The new site access road to the east of the existing playground between the Football Pitch/maintenance area and the foreshore will be a single lane only with appropriate traffic control.</p>
Traffic management	Areas of parking suspension to be confirmed with the London Borough of Tower Hamlets.
Event restrictions	To be confirmed in liaison with the London Borough of Tower Hamlets and Transport for London.
River transport	As per text in <i>CoCP</i> Part A.
Site access and gates	Adequate advance notice and signage will be provided for the diversion of the Thames Path. See Section 3 Communications and community/stakeholder liaison of the <i>CoCP</i> Part A.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>See item above on increased hoarding height.</p> <p>The use of low vibration piling, eg hydraulic jacking/hydraulic press methods, are required for the construction of the cofferdam where practicable and where ground conditions allow these methods to be adopted. In the piling methods, the contractor needs to give consideration to the proximity of sensitive receptors including Free Trade Wharf South.</p> <p>Compaction of material on site will be undertaken using machinery generating the lowest practicable vibration levels which still enables the required level of compaction to be completed. Specifically the use of large vibratory rollers will only be used in locations where vibration levels can be controlled to less than the impact criteria.</p> <p>Noise barriers at 2.4m high to be located on the cofferdam sections perpendicular to the river wall on both sides, and on the southern boundary of the lorry route (the section that backs onto the properties on Shadwell Pier head only) to the point where it meets Glamis road.</p> <p>The loading and unloading of barges will only be carried out during standard working hours.</p>
Other	<p>Refer to the <i>CoCP</i> Part A Section 6.5 on Noise Monitoring. Specific background baseline noise monitoring is required in advance of extended hours working. The method will be agreed with the London Borough of Tower Hamlets and submitted with information on the proposed extended hour working.</p>

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	12 months PM10 monitoring will be undertaken prior to the works commencing. Real-time monitoring will be utilised for the duration of the works.
Odour	As per text in <i>CoCP</i> Part A.

Topic	Site-specific requirement
Other	In the event of potentially contaminated soil being found onsite, chemical composition analysis will be undertaken in agreement with the London Borough of Tower Hamlets.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	The temporary access route will have suitable temporary drainage and will prevent any local flooding of adjacent areas and include where practical sustainable drainage methods.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	All temporary hard standing (as far as reasonably practicable) on non foreshore site areas to incorporate permeable surfacing.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Membrane to be installed between existing river bed and temporary back fill material to prevent contamination of juvenile fish habitat and benefits in preserving potential archaeology. Areas of foreshore used for temporary works will be restored to similar condition and material prior to the works.
Protection of trees	Access road layout to provide adequate clearance from the <i>Leylandii</i> to avoid root damage (minimum 4.5m from trunk).
Other	Advanced planting along north/south access of park and on the north of Rotherhithe tunnel shaft subject to approval from the London Borough of Tower Hamlets.

12 Historic environment

Topic	Site-specific requirement
Other	Memorial benches, currently located on the riverfront, will be removed, stored and reinstated after construction.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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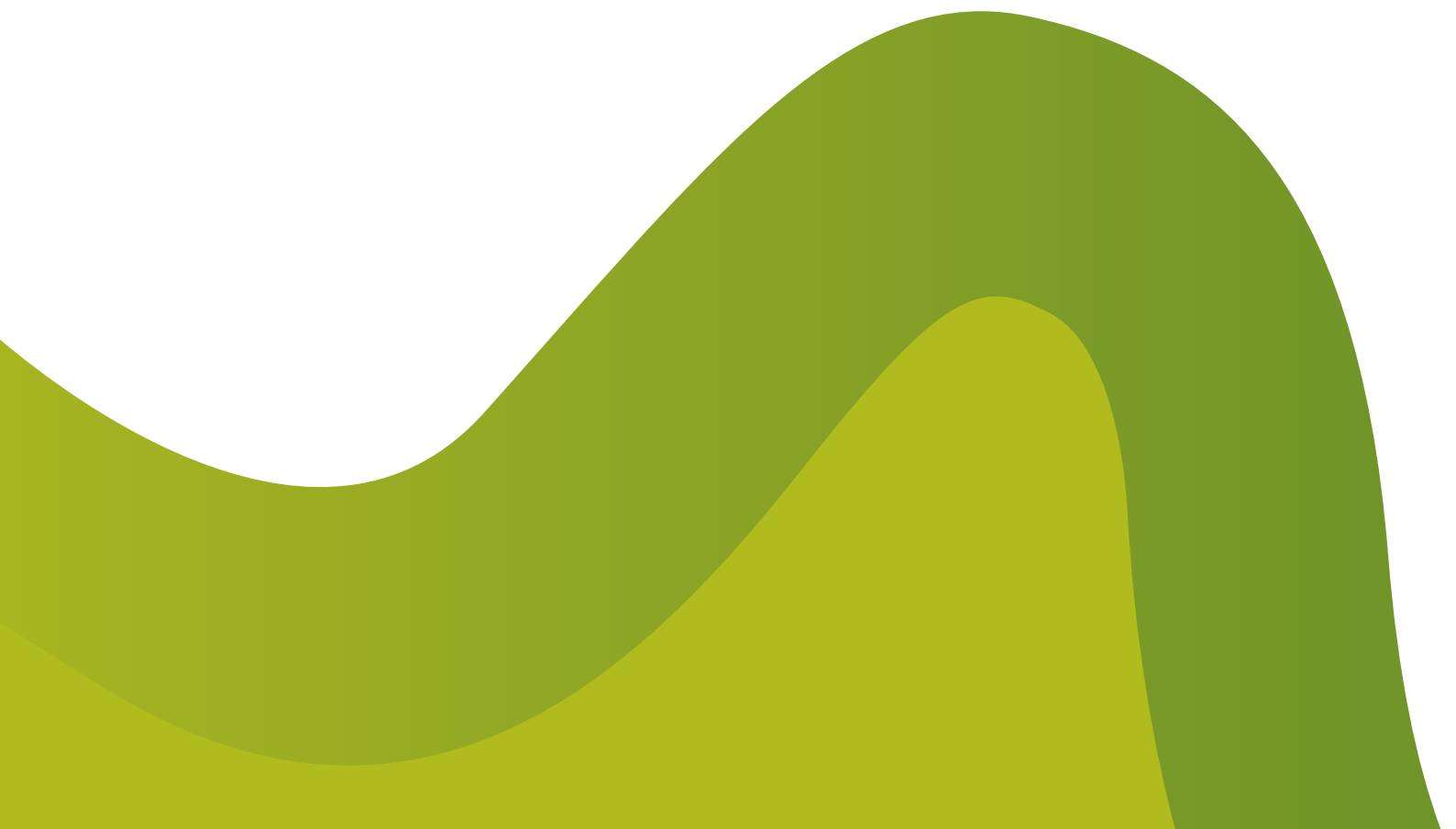
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Application for Development Consent

Application Reference Number: WWO10001

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Earl Pumping Station

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Code of Construction Practice Part B

Earl Pumping Station

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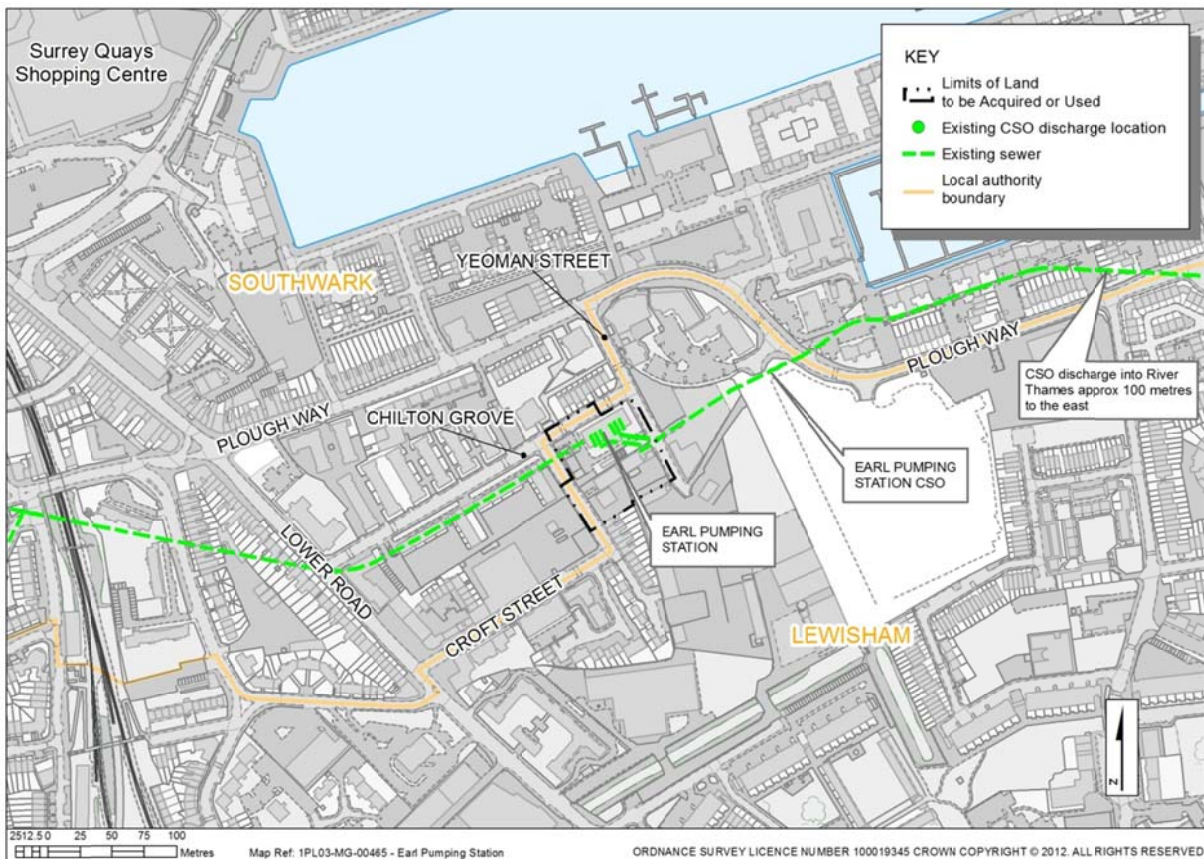
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1 Earl Pumping Station

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Earl Pumping Station site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Lewisham and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Earl Pumping Station: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General Requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ol style="list-style-type: none"> standard extended standard. <p>Other working hours are subject to agreement with the both the London Boroughs of Southwark and Lewisham.</p> <p>Extended working hours are required at this site to allow for major concrete pours for shaft construction including diaphragm wall panels, base slab, roof slab and other large elements only. The exact timing of any extended hours working will be consulted and notified to the London Borough of Lewisham in advance.</p>
Site layout	<p>The site layout is to be arranged to allow for a vehicle one way system with all routine vehicles entering from Yeoman Street and exiting from Croft Street.</p>
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a incorporating suitable art work on public facing sections.</p> <p>Local increase of the site hoarding adjacent to 62 Croft street to approximately 3.6m.</p> <p>The hoarding on the south boundary will be reviewed depending on development proposals and progress of adjacent land.</p>
Other items	<p>As per text in <i>CoCP</i> Part A.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>Access to the site will be from Plough Way (B206), right into Yeoman Street and right into the site.</p> <p>Site egress will be onto Croft Street with only a right turn out, along Chiltern Grove and Yeoman Street, then along Plough Way (B206) towards Lower road (A200). Access through Croft Street to the south and Chilton Grove to the west will not be permitted.</p>
Traffic management	<p>Suitable traffic management is required during the connection to the existing sewer and service diversion works in Chilton Grove and Croft Street during diversion of the Earl sewer around the shaft.</p>

Topic	Site-specific requirement
	<p>During this phase site egress can be onto Yeoman Street.</p> <p>Revised parking arrangements and necessary suspensions to be agreed between the London Borough of Lewisham, the London Borough of Southwark and the Thames Tideway Tunnel project.</p> <p>Highway layout changes including removal of traffic calming features and junction modifications (requiring short-term pedestrian and traffic management) to be agreed between the London Borough of Lewisham, London Borough of Southwark, and the Thames Tideway Tunnel project.</p>
Event restrictions	To be agreed in consultation with the local Borough and Transport for London.
River transport	N/A
Other	The footway diversions on Croft Street, Chilton Grove and Yeoman Street are to be adequately signed and protected.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>See hoarding height above.</p> <p>Compaction of material on site will be undertaken using machinery generating the lowest practicable vibration levels which still enables the required level of compaction to be completed. Specifically, the use of large twin-drum vibrating rollers will only occur on occasions where vibration levels can be controlled to less than the impact criteria.</p>
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	Pollution control measures are to be defined by the contractor and accepted by the relevant authorities prior to dewatering of potentially heavily contaminated materials.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	All temporary hardstanding (as far as reasonably practicable) on non-foreshore sites, to incorporate permeable surfacing.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	As per text in <i>CoCP</i> Part A.
Protection of trees	An assessment on retained vegetation is required on small excavation works within site that have potential for damage is required and any mitigation works associated with proposed construction methods identified.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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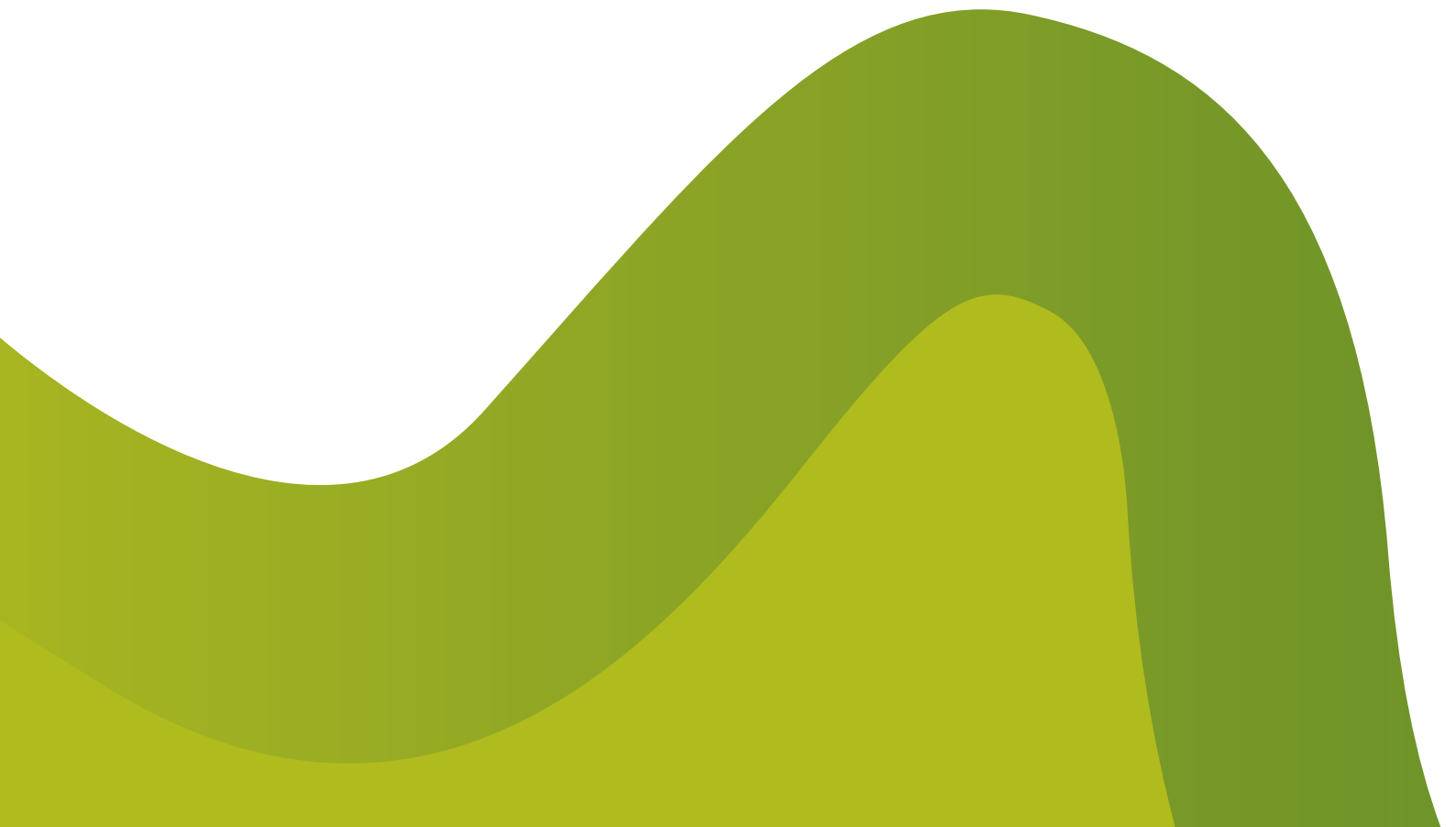
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DCO-DT-000-ZZZZ-071902



Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7:19.2**

Deptford Church Street

APFP Regulations 2009: Regulation **5(2)(q)**

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Thames Tideway Tunnel

Code of Construction Practice Part B

Deptford Church Street

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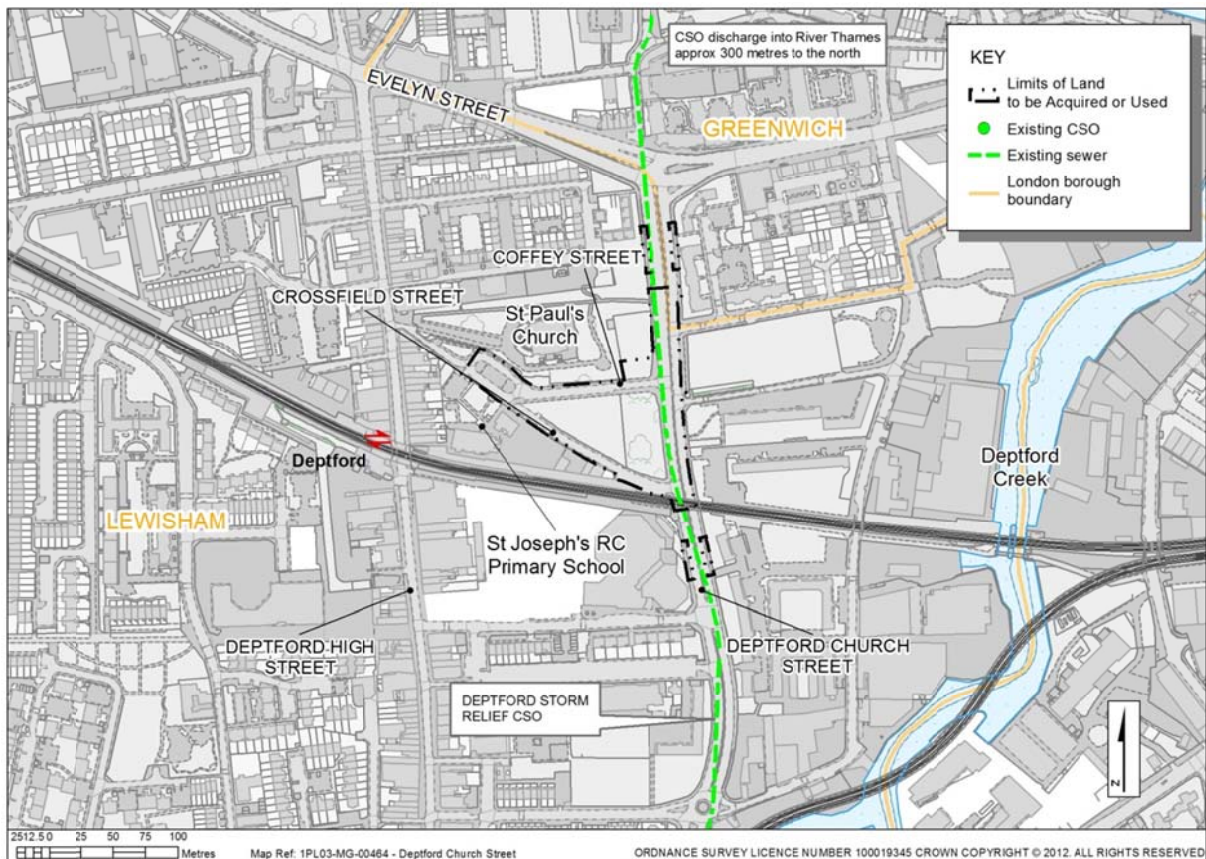
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1 Deptford Church Street

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Deptford Church Street site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Lewisham and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Deptford Church Street: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

- 3.1.1 The contractor is to liaise with St Paul's Church to coordinate traffic movements to and from site, including:
- Limit vehicle movements during funeral arrivals and departures
 - Facilitate horse delivery lorries for horse-drawn hearses
 - Complete Saturday works and traffic movements before 1pm.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ul style="list-style-type: none"> a. standard b. extended standard. <p>Other working hours are subject to agreement with London Borough of Lewisham.</p>
Site layout	<p>The site layout is to be arranged to allow for a vehicle one way system with all routine vehicles entering from Crossfield Street and exiting from Coffey Street.</p> <p>The site layout is to consider the external noise receptors and locate equipment and operations away from sensitive boundaries.</p>
Site security / hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4c, planted hoarding on public facing sections.</p> <p>The hoarding height is to be 3.6m at this site.</p>
Other items	<p>Site cabins and welfare facilities to be dark green colour to tie in with the planted hoardings.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>Site gate access will be from Deptford Church Street (A2209) and Crossfield Street. A right turn only is required from Crossfield Street.</p> <p>Site egress will be onto Coffey Street with only a right turn from the site and then left turn onto Deptford Church Street (A2209).</p> <p>No other access route is permitted.</p>
Traffic management	<p>See Section 3 relating to liaison with St Paul's Church relating to traffic movements.</p> <p>The connection works within Deptford Church Street site is to be planned to minimise the duration of the construction works. The bus lanes are to be suspended during this phase of works.</p> <p>One lane in each direction is to be maintained at all times. The minimum width of traffic lanes to be retained is 3.25m.</p> <p>Adequate notice is required for suspension of bus lanes and relocation of bus stops. Bus stop</p>

Topic	Site-specific requirement
	<p>relocation to be confirmed with Transport for London /the London Borough of Lewisham.</p> <p>Access/egress into Coffey Street to be maintained at all times unless otherwise agreed.</p> <p>On-street parking spaces along Coffey Street will be suspended, and the unmarked kerbside parking capacity along Crossfield Street will be prohibited.</p> <p>Relocation of the existing pedestrian crossing at the corner of Deptford Church Street (A2209) and Coffey Street is to be confirmed with Transport for London and the London Borough of Lewisham.</p>
Event restrictions	N/A
River transport	N/A
Other	<p>The footway diversion along Deptford Church Street site is to be adequately signed. Advance notice and publicity information is required to inform regular users of changes and timing. See <i>CoCP</i> Part A (Section 3 Communications and community/stakeholder liaison).</p>

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>See hoarding height and site layout requirements above.</p> <p>The Contractors site layout and operation will take into consideration the proximity to both St Pauls Church and St Joseph's Catholic School. Potential site specific noise mitigation measures will be required and include, enhanced noise barriers (additional, higher and/or double skinned barriers), design of egress gate on Coffey Street, gate closure during sensitive periods, consideration of limiting high noise generating activities during church services and school exam periods, and avoiding extended working hours where practical when there are special events in the church.</p>
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	All hardstanding (as far as reasonably practicable) on non-foreshore sites, to incorporate permeable surfacing.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	As per text in <i>CoCP</i> Part A.
Protection of trees	Construction activities at this site will result in the removal of all existing trees within the site. Permanent site landscaping will however incorporate the replacement of trees lost during construction with native species.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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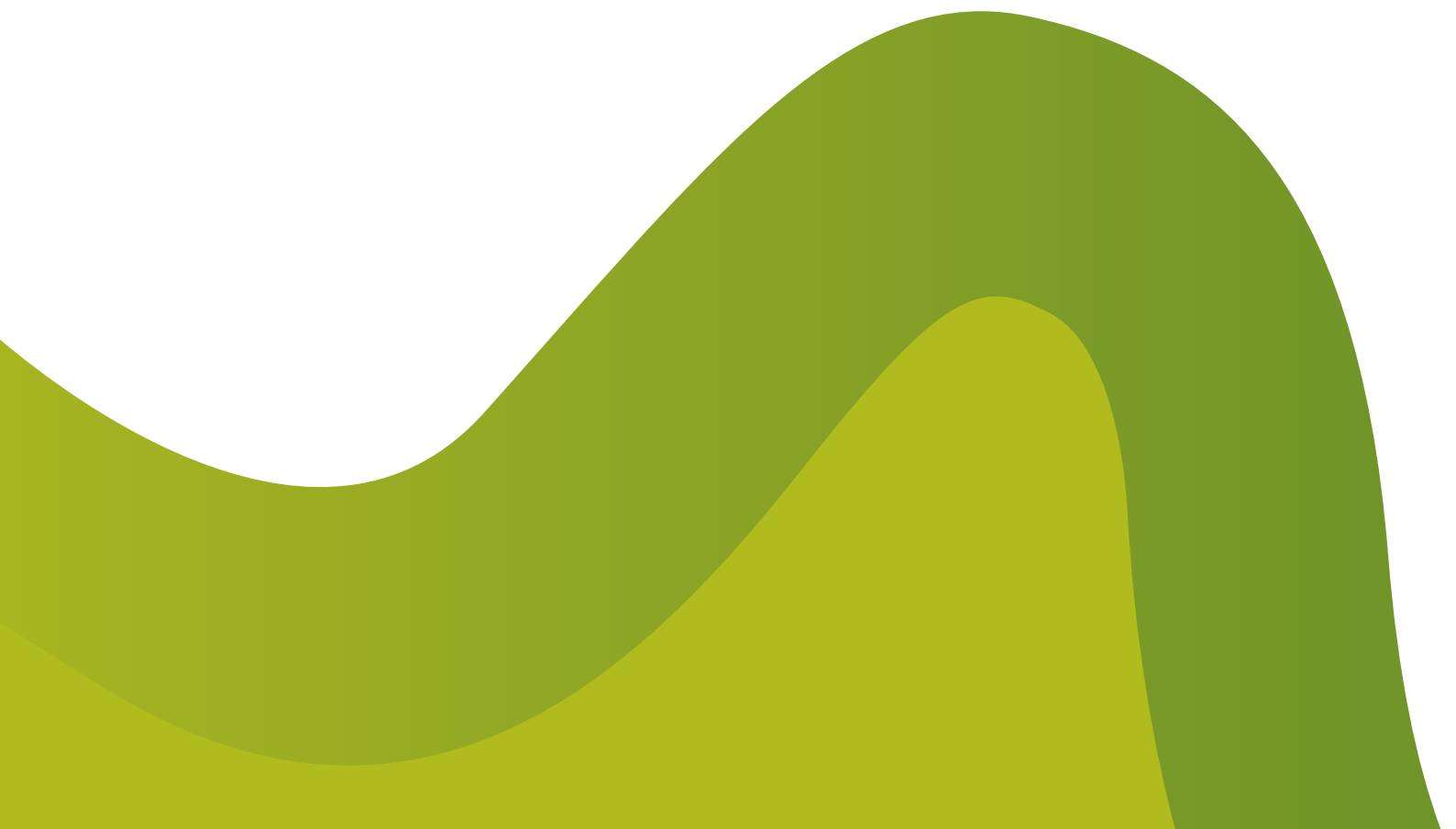
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7:19.2**

Greenwich Pumping Station

APFP Regulations 2009: Regulation **5(2)(q)**

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Thames Tideway Tunnel

Code of Construction Practice Part B: Greenwich Pumping Station

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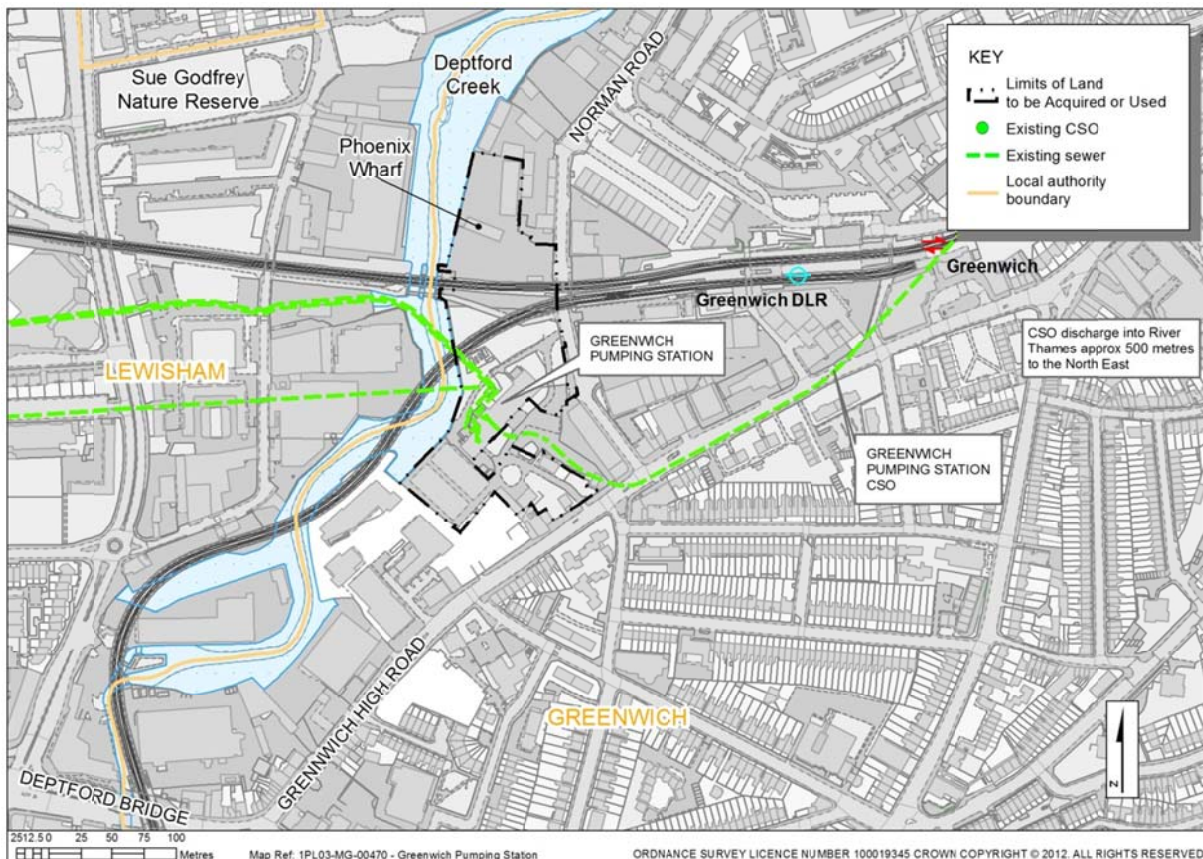
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1 Greenwich Pumping Station

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises of two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Greenwich Pumping Station site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Greenwich and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in **Error! Reference source not found.** below.

Figure 1.1 Greenwich Pumping Station: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site shall adhere to the following working hours:</p> <ol style="list-style-type: none"> standard extended standard continuous for Greenwich connection tunnel construction. <p>Other working hours are subject to agreement with the local authority.</p>
Site layout	<p>The site layout shall ensure that lorries can turn on site and no reversing onto the adjacent roads is required. Any exceptions such as abnormal loads shall be agreed in advance.</p>
Site security/hoarding requirements	<p>The hoarding is to be as defined in <i>CoCP</i> Part A para. 4.3.4a incorporating suitable art work on public facing sections.</p> <p>Hoarding height is to be of 3.6m at this site.</p>
Other items	As per text in <i>CoCP</i> Part A.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The overall site is separated into a number of areas around the existing operating pumping station. Each access is required to have adequate security arrangements.</p> <p>At the main site entrances the security barrier shall be positioned to allow a standard rigid tipper vehicle to be wholly off the road while awaiting barrier operation.</p>
Traffic management	<p>Construction traffic shall access the site from Greenwich High Road (A206) and Norman Road (A208) from the direction of Blackheath Road (A2). The existing entrance from Greenwich High Road (A206) shall be restricted to cars and light goods vehicle access apart from site setup and removal. The entrance is shared with Thames Water Operations access to the pumping station. Traffic shall egress via the same routes.</p> <p>One parking space suspension shall be required, which shall be agreed with the Royal Borough of</p>

Topic	Site-specific requirement
	Greenwich.
Event restrictions	N/A
River transport	As per text in <i>CoCP</i> Part A.
Other	The existing public footpath from Norman Road (B208) to Creekside shall be realigned, and suitable access for disabled users shall be maintained, unless agreed otherwise with the local authority.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	<p>The construction area around the main shaft shall be covered by an enclosure/building during the main tunnel construction and secondary lining works. The building shall have cladding with a specified sound reduction value.</p> <p>The building openings shall be designed to be away from sensitive noise receptors and shall be kept closed when not in use at night. Only essential use of openings at night.</p> <p>Provision of a three-sided noise screen with roof around the materials handling area.</p> <p>See hoarding requirement above.</p>
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	All temporary hard standing (as far as reasonably practical) on non foreshore sites, to incorporate permeable surfacing.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Replacement planting shall be provided for the trees and scrub that are to be removed for construction.
Protection of trees	As per text in <i>CoCP</i> Part A
Other	As per text in <i>CoCP</i> Part A

12 Historic environment

Topic	Site-specific requirement
Other	An archaeological standing structure survey of the East Beam Engine House, including the temporary

Topic	Site-specific requirement
	<p>removal of steps, in order to mitigate the effects of the proposed modifications and provide a record to guide subsequent repairs and reinstatement.</p> <p>The existing stairs attached to the East Beam Engine House to be dismantled, stored and re-assembled.</p> <p>Protective measures shall be put into place to prevent strike damage to the Grade II listed Beam Engine Houses, and Central Boiler House, the Grade II listed coal sheds, and the Grade II listed Network Rail viaduct.</p>

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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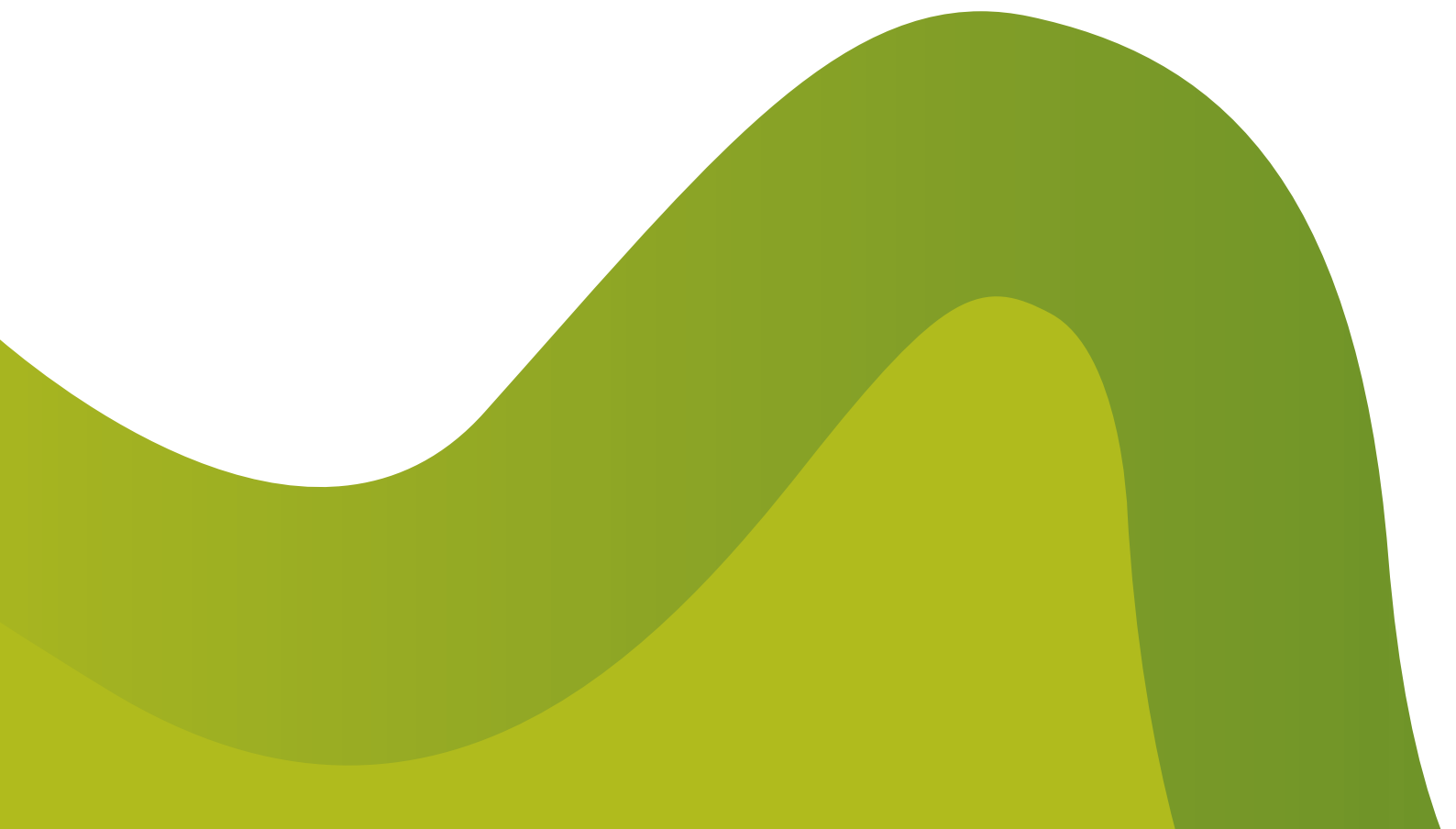
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Abbey Mills Pumping Station

APFP Regulations 2009: Regulation **5(2)(q)**

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Code of Construction Practice Part B

Abbey Mills Pumping Station

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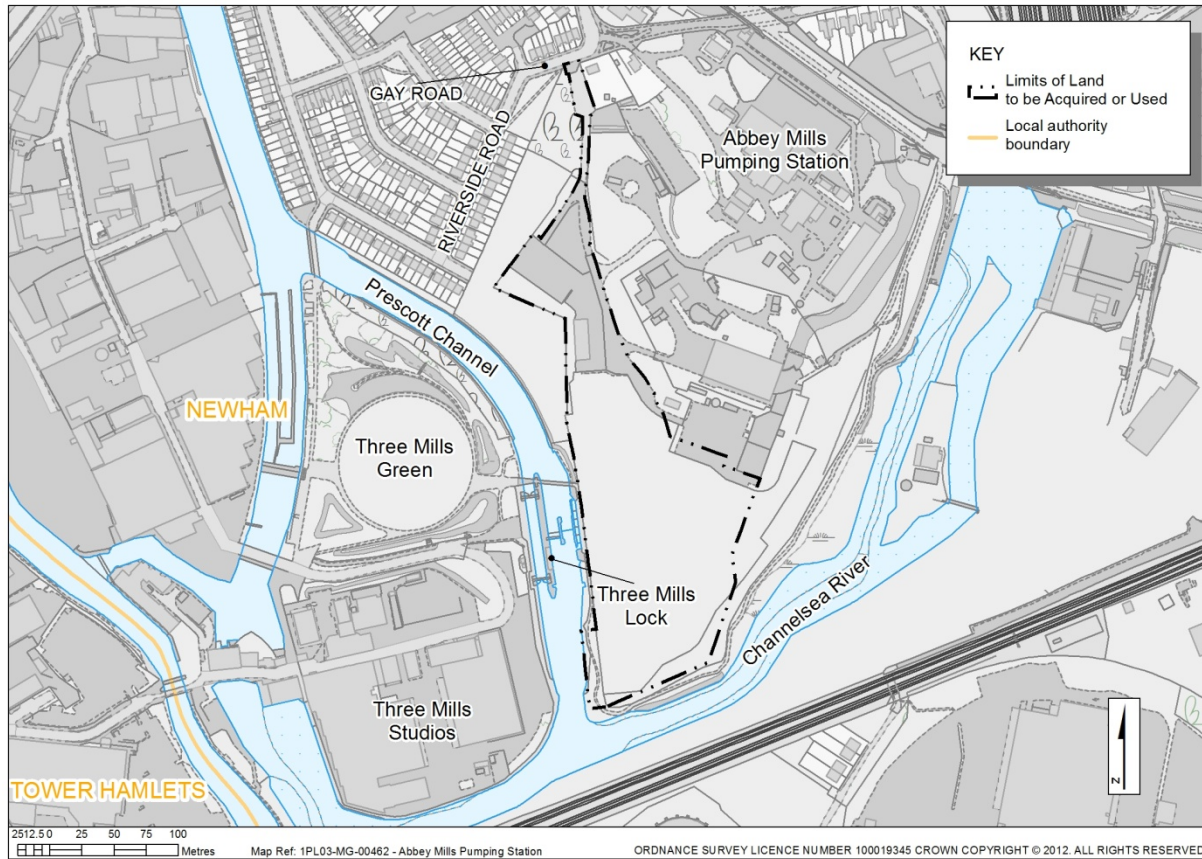
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1 Abbey Mills Pumping Station

1.1 General

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- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Abbey Mills Pumping Station site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Newham and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Abbey Mills Pumping Station: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General Requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	This site will adhere to the following working hours: <ol style="list-style-type: none"> a. standard b. extended standard c. continuous.

Topic	Site-specific requirement
	Other working hours are subject to agreement with the local authority.
Site layout	As per text in <i>CoCP</i> Part A.
Site security / hoarding requirements	The site will have adequate security barriers around the works area. These are to be either steel open mesh fencing or closed board hoarding. The hoarding is to be as defined in <i>CoCP</i> Part A section 4.3.4a incorporating suitable art work on public facing sections.
Other items	As per text in <i>CoCP</i> Part A.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	The access to the Thames Tideway Tunnel project site is through the Thames Water Pumping Station lands. Access is from Abbey Lane/Gay Road only. The site access is to be from Gay Road with only left turn into the site and right turn out. Limited parking for workers is allowed at this site.
Traffic management	Sections of on-street parking along Abbey Lane will be suspended as shown in the Traffic Assessment. Site vehicles are not permitted to wait at any point along Abbey Lane. Special Types (General Order 2003) (STGO) vehicles and other long loads are required to have a suitable escort along Abbey Lane to forewarn other road users. Double yellow line parking restrictions will be used at some locations on Abbey Lane. Single yellow line parking restrictions will have extended hours, and additional single yellow line restrictions will be used on Abbey Lane. The Contractors Traffic Management Plan needs to take due consideration of the residents and other users of Abbey Lane from Stratford High Street to the existing Abbey Mills Pumping Station. It should be noted that Abbey Lane Sure Start Children's Centre includes services that include those for the blind/partially sighted. The Traffic Management Plan will include measures including requirements for all suppliers to be notified of risks and controls of using

Topic	Site-specific requirement
	Abbey Lane including no waiting constraint. This may include restrictions on delivery hours where practical and strict enforcement of speed limits.
Event restrictions	As per text in <i>CoCP</i> Part A.
River transport	As per text in <i>CoCP</i> Part A.
Other	The footpath around the south of the site by Prescott Channel/Channelsea to be maintained throughout works. If barging is used alternative access will be provided.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water/groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Tree and scrub planting to be provided along the boundaries of the site following completion of works.
Protection of trees	Tree protection measures to be implemented to protected trees and scrub along the southern and western boundaries of the site.
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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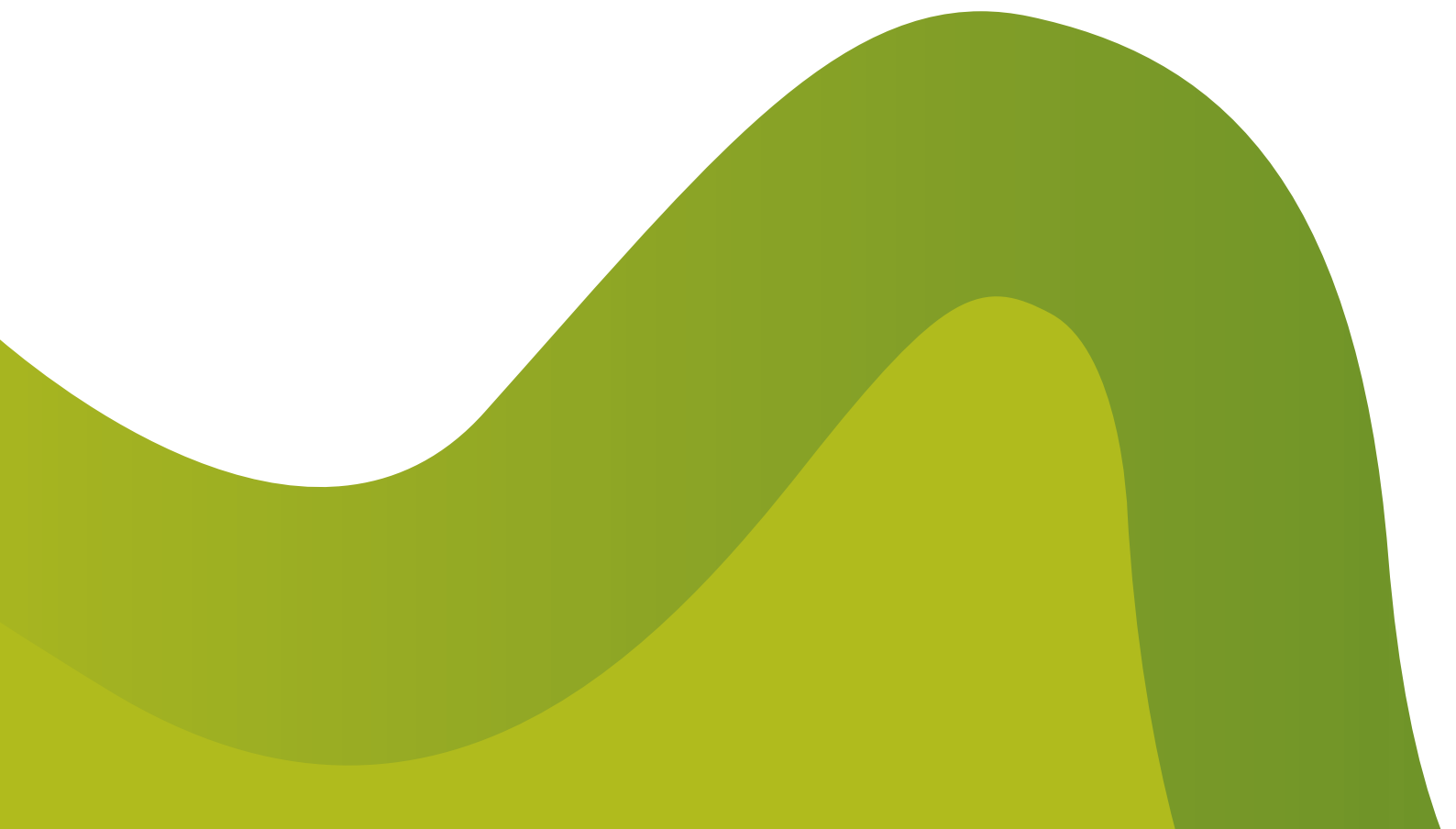
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7:19.2**

Beckton Sewage Treatment Works

APFP Regulations 2009: Regulation **5(2)(q)**

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Code of Construction Practice Part B

Beckton Sewage Treatment Works

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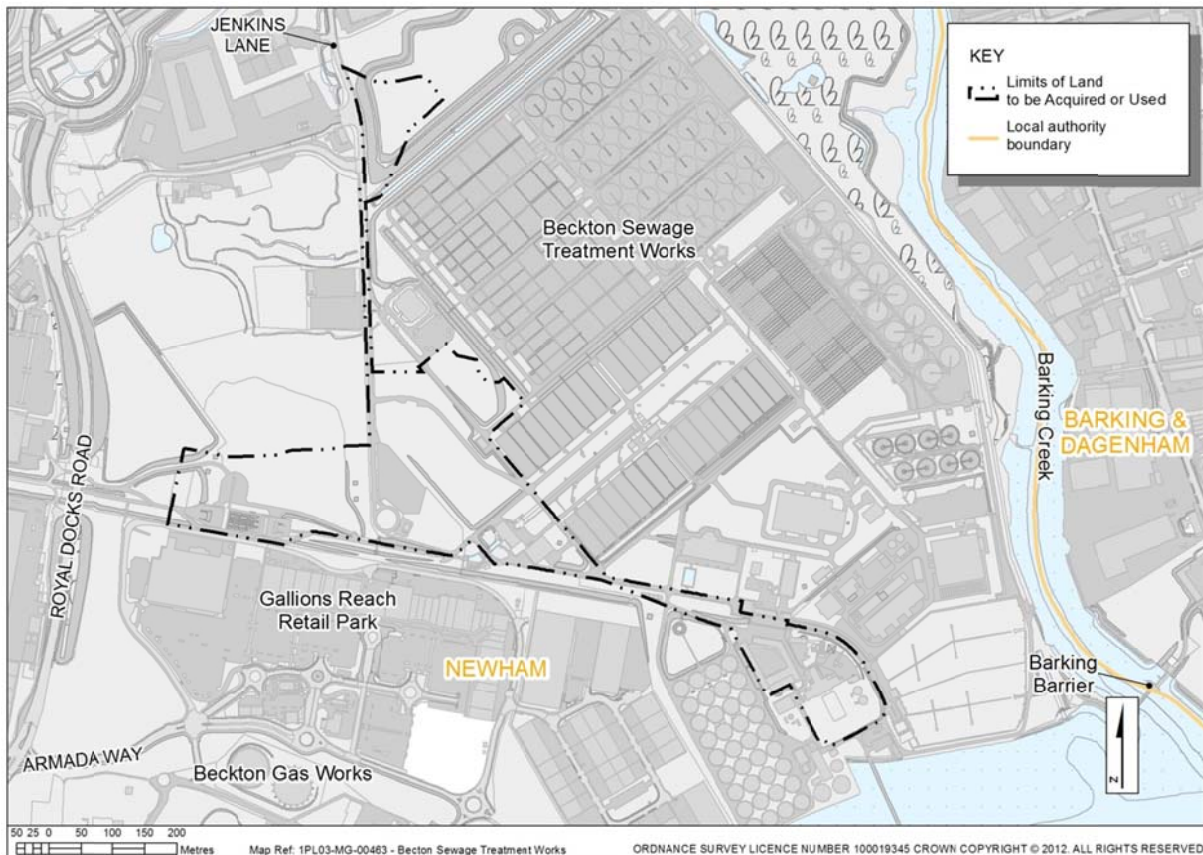
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1 Beckton Sewage Treatment Works

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.1 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Beckton Sewage Treatment Works site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Newham and other stakeholders.
- 1.1.2 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.3 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Beckton Sewage Treatment Works: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	<p>This site will adhere to the following working hours:</p> <ul style="list-style-type: none"> a. standard b. extended c. continuous (for tunneling operations). <p>Subject to agreement with the London Borough of Newham other operations such as shaft sinking could also be undertaken on a continuous basis. Other working hours subject to agreement with the council.</p>
Site layout	<p>The site area is within the existing Thames Water Sewage Treatment Works.</p> <p>The site area is to exclude the area of the Northern Outfall Sewer downstream of the Beckton Inlet Works that is part of the Greenway Site of Importance for Nature Conservation.</p>
Site security / hoarding requirements	<p>The site will have adequate security barriers around the works area. These are to be either steel open mesh fencing or closed board hoarding.</p>
Other items	<p>As per text in <i>CoCP</i> Part A.</p>

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The access to the Thames Tideway Tunnel project site is through the Thames Water Sewage Treatment Works lands.</p> <p>Access is from the A13 - Alfred's Way to the main Beckton Sewage Treatment Works entrance.</p> <p>Limited parking for workers is allowed at this site.</p>
Traffic management	<p>As per text in <i>CoCP</i> Part A.</p>
Event restrictions	<p>As per text in <i>CoCP</i> Part A.</p>
River transport	<p>As per text in <i>CoCP</i> Part A.</p>

6 Noise and vibration

Topic	Site-specific requirement
Control measures	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions / control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	<p>Inlet upgrade works will be undertaken outside the bird nesting season of March to September (inclusive) to avoid disturbing the barn owl nest identified on site. A suitably qualified ecologist will survey prior to works taking place to ensure the nest is not being used outside nesting season. If the nest is occupied, the steps described in CoCP Part A under 'Schedule 1 Bird Species' will be followed and mitigation such as alternative nest sites and noise control measures will be implemented.</p> <p>Habitat within the Greenway Site of Importance for Nature Conservation will be protected during works (any essential works required to be undertaken within the Greenway and Northern Outfall Sewer, are to be carried out so as to retain natural scrub).</p>
Protection of trees	The Site B area boundary is on the north side of the existing tree to provide protection to trunk and soft ground.
Other	As per text in CoCP Part A.

12 Historic environment

Topic	Site-specific requirement
Other	Protection is required for the Grade II listed chimney.

13 Other

Topic	Site-specific requirement
Other	As per text in CoCP Part A.

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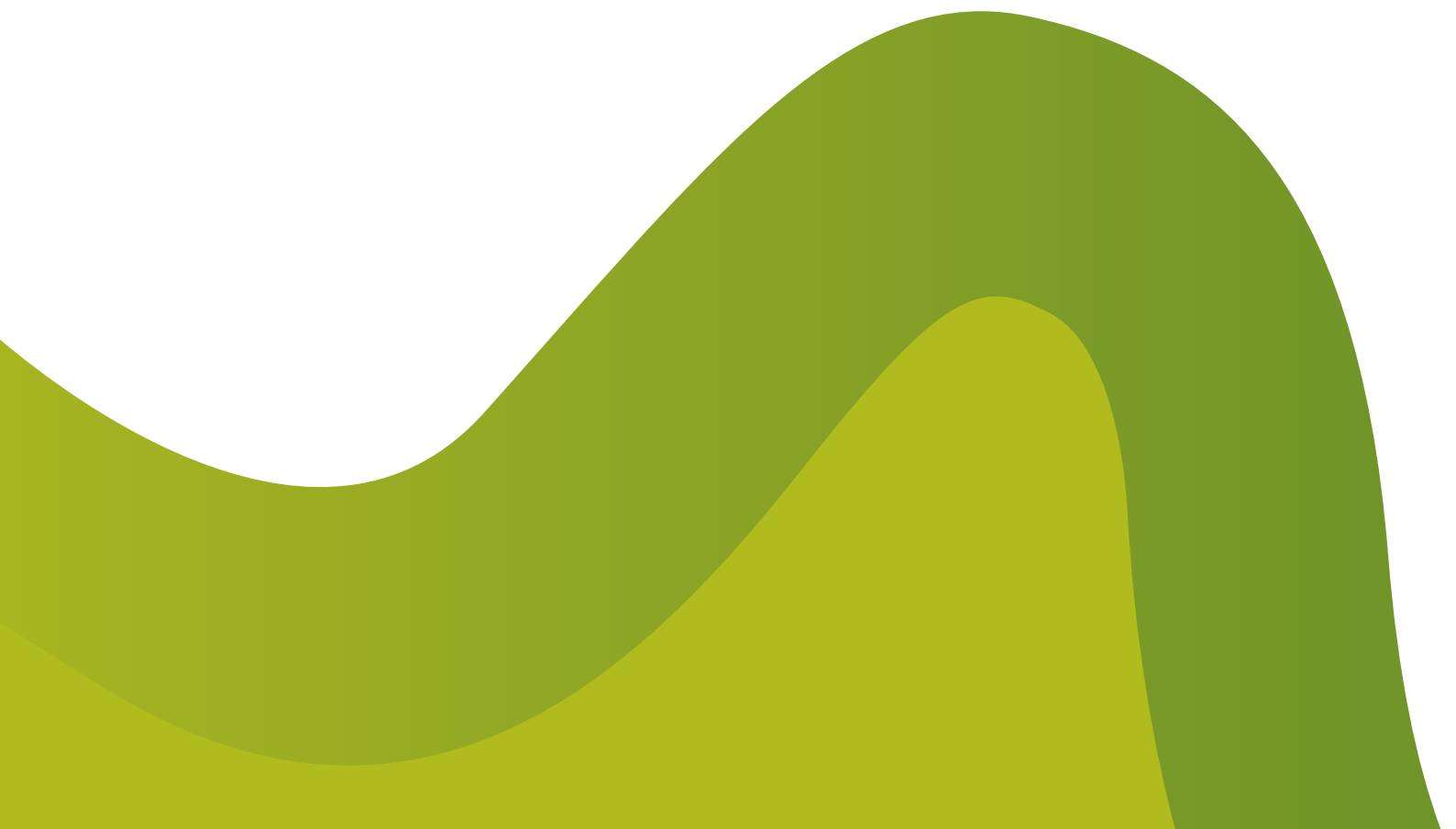
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Thames Tideway Tunnel
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Application for Development Consent

Application Reference Number: WWO10001

Code of Construction Practice Part B

Doc Ref: **7.19.2**

Bekesbourne Street

APFP Regulations 2009: Regulation **5(2)(q)**

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Code of Construction Practice Part B Bekesbourne Street

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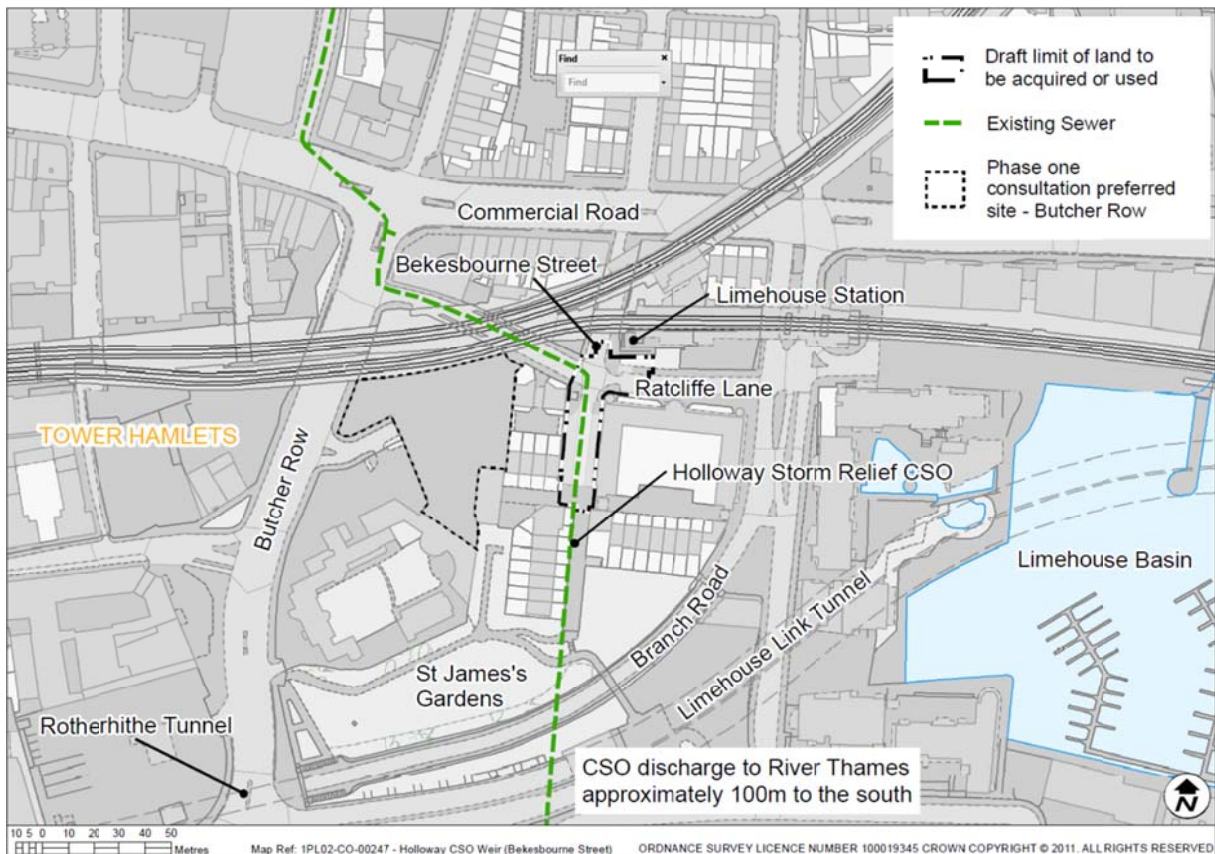
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1 Bekesbourne Street

1.1 General

- 1.1.1 All works covered within this document are to be managed and performed to the culture within the Thames Tideway Tunnel vision of 'Zero Accidents, Zero Harm, Zero Compromise'.
- 1.1.2 The *Code of Construction Practice (CoCP)* comprises two parts:
- a. Part A: General requirements. These measures are applicable project-wide.
 - b. Part B: Site-specific requirements. These are site-specific measures, where there are deviations from the general requirements indicated in Part A.
- 1.1.3 This document comprises the *CoCP* Part B for the Thames Tideway Tunnel project works at Bekesbourne Street site and identifies the detailed site-specific measures including working hours, site set up and servicing arrangements, taking into account the environmental issues and consultations with the London Borough of Tower Hamlets and other stakeholders.
- 1.1.4 For ease of reference the *CoCP* Part B mirrors the headings in Part A. The *CoCP* Part B sets out site-specific issues and deviations from Part A so where there are no site-specific measures reference should be made to the measures set out in Part A.
- 1.1.5 A plan showing the location of the site is shown in Figure 1.1 below.

Figure 1.1 Bekesbourne Street: Site context and location plan



Note: For detailed Limits of Land to be Acquired or Used, refer to drawings in the Book of Plans.

2 General requirements

2.1.1 As per text in CoCP Part A.

3 Communications and community/stakeholder liaison

3.1.1 As per text in CoCP Part A.

4 Site operation

Topic	Site-specific requirement
Working hours	This site will adhere to the following working hours: a. standard. Other working hours are subject to agreement with the local authority.
Site layout	As per text in <i>CoCP</i> Part A.
Site security / hoarding requirements	A 3.6m high hoarding is required around this site. The top 1m of hoarding on eastern extent to be clear, (Perspex or similar) to allow light to windows of adjacent properties.
Other items	As per text in <i>CoCP</i> Part A.

5 Public access, highway and river transport

Topic	Site-specific requirement
Site access and gates	<p>The site access will be from Commercial road (A13) turning into Branch Road (A101), right into Ratcliffe lane. Vehicles will reverse into the site along Bekesbourne Street under supervision of a traffic marshal. Vehicles will exit the site in forward gear into Bekesbourne Street and left into Ratcliffe Lane and right into Butcher Row (B126).</p> <p>Parking on the northern side of Ratcliffe Lane and the junction with Bekesbourne Street is to be suspended during construction.</p> <p>Parking on the southern side of Ratcliffe Lane and the junction with Bekesbourne Street is to be suspended during phase 2d of construction.</p> <p>The access route to the properties on Bekesbourne Street south of the site will be maintained throughout the construction period unless agreed otherwise. The access route will be a single lane, but adequate for its use by residents and light goods vehicles. Appropriate signage will be provided to make road users aware of the width restriction and likely conflict with oncoming vehicles. A traffic light system or traffic marshals will be used to manage traffic flow.</p>
Traffic management	<p>The realigned residential access route will be controlled by either signalised traffic control or by traffic marshals with 'stop, go' signs.</p> <p>The site is restricted and so the contractor will utilise</p>

Topic	Site-specific requirement
	small vehicles to reduce potential traffic conflicts and impacts. Existing parking on Bekesbourne Street is to be suspended during construction.
Event restrictions	N/A
River transport	N/A
Other	The pedestrian route along the eastern boundary adjacent to John Scurr House will be maintained throughout the construction period unless agreed otherwise, and will be clearly and adequately signed and lit. The pedestrian route will also be clearly and adequately signed. The route is to have bulkhead/directional lighting to provide security during use. Details to be agreed with property owner.

6 Noise and vibration

Topic	Site-specific requirement
Control measures	See item above on hoarding height.
Other	As per text in <i>CoCP</i> Part A.

7 Air quality

Topic	Site-specific requirement
Vehicle and plant emissions	As per text in <i>CoCP</i> Part A.
Dust emissions/control	As per text in <i>CoCP</i> Part A.
Odour	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

8 Water resources

Topic	Site-specific requirement
Control of pollution: surface water / groundwater	As per text in <i>CoCP</i> Part A.
Control on abstraction	As per text in <i>CoCP</i> Part A.
Ground treatment / dredging	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

9 Land quality

Topic	Site-specific requirement
Site works	As per text in <i>CoCP</i> Part A.
Site-specific issues / mitigation	As per text in <i>CoCP</i> Part A.

10 Waste management and resource use

Topic	Site-specific requirement
Excavated material	As per text in <i>CoCP</i> Part A.
Resource usage	As per text in <i>CoCP</i> Part A.
Other	As per text in <i>CoCP</i> Part A.

11 Ecology (aquatic and terrestrial)

Topic	Site-specific requirement
Protection of habitats	Replacement planting of trees required to mitigate any loss to habitat.
Protection of trees	Replanting of trees following construction (like for like).
Other	As per text in <i>CoCP</i> Part A.

12 Historic environment

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

13 Other

Topic	Site-specific requirement
Other	As per text in <i>CoCP</i> Part A.

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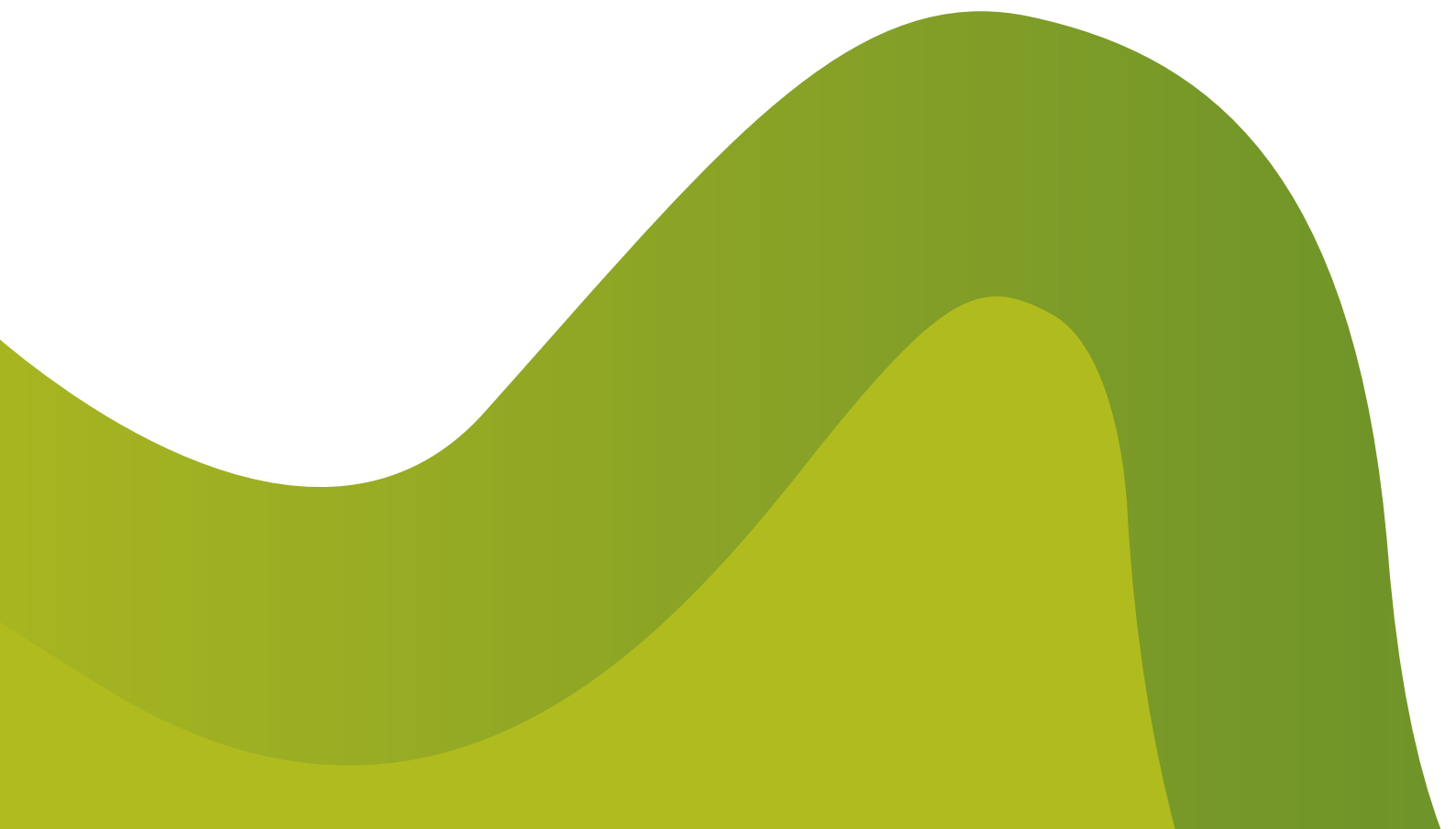
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