



Application for Development Consent

Application Reference Number: WWO10001

Examining Authority's Second Written Round of Questions and Requests for Information

Response from Thames Water

**Code of Construction Practice Part B: Site Specific Requirements
- Barn Elms (Revised 13 January 2014)**

Doc Ref: **APP72.4**





Code of Construction Practice Part B: Site-specific requirements

Barn Elms

This page left intentionally blank

Thames Tideway Tunnel

Code of Construction Practice Part B

Barn Elms

List of contents

| | Page number |
|-----------------------------------------------------------------|-------------|
| 1 Barn Elms | 1 |
| 1.1 General..... | 1 |
| 2 General requirements | 2 |
| 3 Communications and community/stakeholder liaison | 2 |
| 4 Site operation | 2 |
| 5 Public access, highway and river transport | 3 |
| 6 Noise and vibration | 5 |
| 7 Air quality..... | 6 |
| 8 Water resources | 6 |
| 9 Land quality | 6 |
| 10 Waste management and resource use..... | 6 |
| 11 Ecology (aquatic and terrestrial) | 7 |
| 12 Historic environment | 7 |
| 13 Other | 7 |

List of figures

| | Page number |
|------------------------------------------------------------|-------------|
| Figure 1.1 Barn Elms: Site context and location plan | 2 |

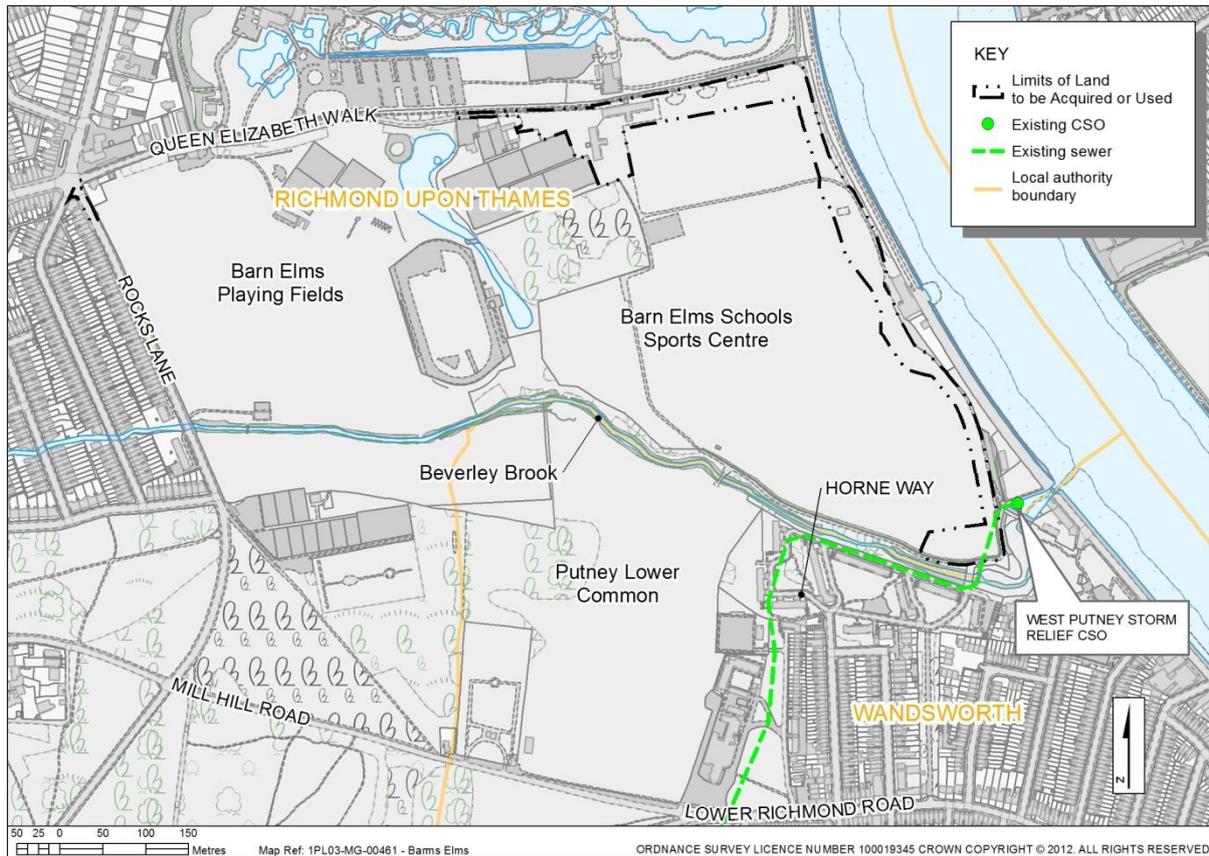
This page left intentionally blank

1 Barn Elms

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 Incidents, 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 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 shall adhere to the following working hours.</p> <ul style="list-style-type: none"> a. standard b. continuous (for the West Putney connection tunnel construction). <p>When other types of working hours (CoCP Part A, Table 4.1) are required, these shall be subject to</p> |

| Topic | Site-specific requirement |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | agreement with the local authority through the Section 61 process. |
| Site layout | Operating plant and equipment shall be set back from the bank of the Beverley Brook to leave an 8m buffer zone, unless agreed otherwise. |
| Site security / hoarding requirements | <p>The main site compound is to be fully hoarded. A buried fencing / steel mesh netting shall 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 shall have green painted steel open mesh fencing suitably supported for weather conditions or similar and shall be designed to allow badgers, etc access across the road at night.</p> <p>The hoarding is to be as defined in <i>CoCP</i> Part A Section 4.3.4c, planted hoarding on public facing sections.</p> <p>The hoarding height is to be 3.6m at this site.</p> |
| River works | As per text in <i>CoCP</i> Part A. |
| Other items | <p>High pole suspended vertical netting of sufficient height shall 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> <p>The use and duration of the construction areas within the Barn Elms Schools Sports Centre are to be minimised and reduced, as appropriate, between the construction phases. This includes reducing the construction site area used after completion of the main civil engineering works, including shaft construction, but prior to mechanical and electrical works, commissioning and landscaping.</p> |

5 Public access, highway and river transport

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

| Topic | Site-specific requirement |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>and then along the eastern boundary parallel to the river. The access route design shall minimise the impact on the existing ecology where practical. It shall be single track with passing places.</p> <p>Access and construction activities shall be minimised during times of heavy recreational use of the playing fields.</p> <p>Access to the existing car park and sports facilities shall be maintained throughout the works.</p> <p>The Contractor shall provide vehicular access to Ashlone Wharf tidal barrier, for the EA and its contractors along the access route to be constructed on the northern and eastern perimeter of Barn Elms Playing Field, for the duration of the works.</p> <p>The entrance to the access route shall be kept secure at all times, whilst ensuring that the EA can access the asset whenever this is required (unrestricted 24hours a day, to ensure that they can fulfil their flood defence obligations).</p> |
| <p>Traffic management</p> | <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 09.00 and 17:00 to 18:00 Monday to Friday excluding bank holidays, and 08.00 to 13.00 Saturday to avoid local congestion.</p> <p>Works during standard hours on a Saturday shall 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, shall 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 21:00 and 07:00 Monday to Friday, 13:00 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</p> |

| Topic | Site-specific requirement |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>traffic marshals shall be required.</p> <p>The contractor shall provide safe segregation between the sport facilities and haul road throughout construction in consultation with the local authority and the Barn Elms School Sports Centre Management. This may include considering the suitable design of construction access fencing and or site hoarding to withstand potential impact from sports pitch users.</p> |
| Event restrictions | To be advised from discussions with the London Borough of Richmond upon Thames. |
| River transport | N/A |
| Other | <p>Access to the Beverly Brook footpath would be maintained during construction.</p> <p>Pedestrian access between Queen Elizabeth Walk and the Barn Elms School Sports Centre shall be maintained. The position of the existing pedestrian access gate in the northern perimeter fence, shall be relocated to reflect the final layout of the construction access.</p> <p>The position of the relocated pedestrian access gate shall remain in close proximity to the changing room facilities, and access to the facilities shall be maintained throughout the works.</p> |

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 shall be minimised. This shall 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 shall 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>Avoid the use of breakers at night (2200-0800) except in emergency. See hoarding height above.</p> |
| Other | Reference should be made to Part A Section 6.3.5 |

| Topic | Site-specific requirement |
|-------|--------------------------------------------------------------------------------------------------------------------------|
| | 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 shall have suitable temporary drainage and shall 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 shall incorporate permeable surfacing (SUDS/flood risk alleviation/surface water runoff reduction). |

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 shall 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 shall 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 shall be directed away from this habitat and light spill shall 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. |

Copyright notice

Copyright © Thames Water Utilities Limited January 2014.
All rights reserved.

Any plans, drawings, designs and materials (materials) submitted by Thames Water Utilities Limited (Thames Water) as part of this application for Development Consent to the Planning Inspectorate are protected by copyright. You may only use this material (including making copies of it) in order to (a) inspect those plans, drawings, designs and materials at a more convenient time or place; or (b) to facilitate the exercise of a right to participate in the pre-examination or examination stages of the application which is available under the Planning Act 2008 and related regulations. Use for any other purpose is prohibited and further copies must not be made without the prior written consent of Thames Water.

Thames Water Utilities Limited

Clearwater Court, Vastern Road, Reading RG1 8DB

The Thames Water logo and Thames Tideway Tunnel logo are © Thames Water Utilities Limited. All rights reserved.

