



# 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**



Creating a cleaner, healthier River Thames

Thames Tideway Tunnel  
Thames Water Utilities Limited



# Application for Development Consent

Application Reference Number: WWO10001

## Environmental Statement

Doc Ref: **6.2.18**

### Volume 18: Blackfriars Bridge Foreshore figures

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

Hard copy available in  
Box **67** Folder **C**  
January 2013

Thames  
Tideway Tunnel   
Creating a cleaner, healthier River Thames

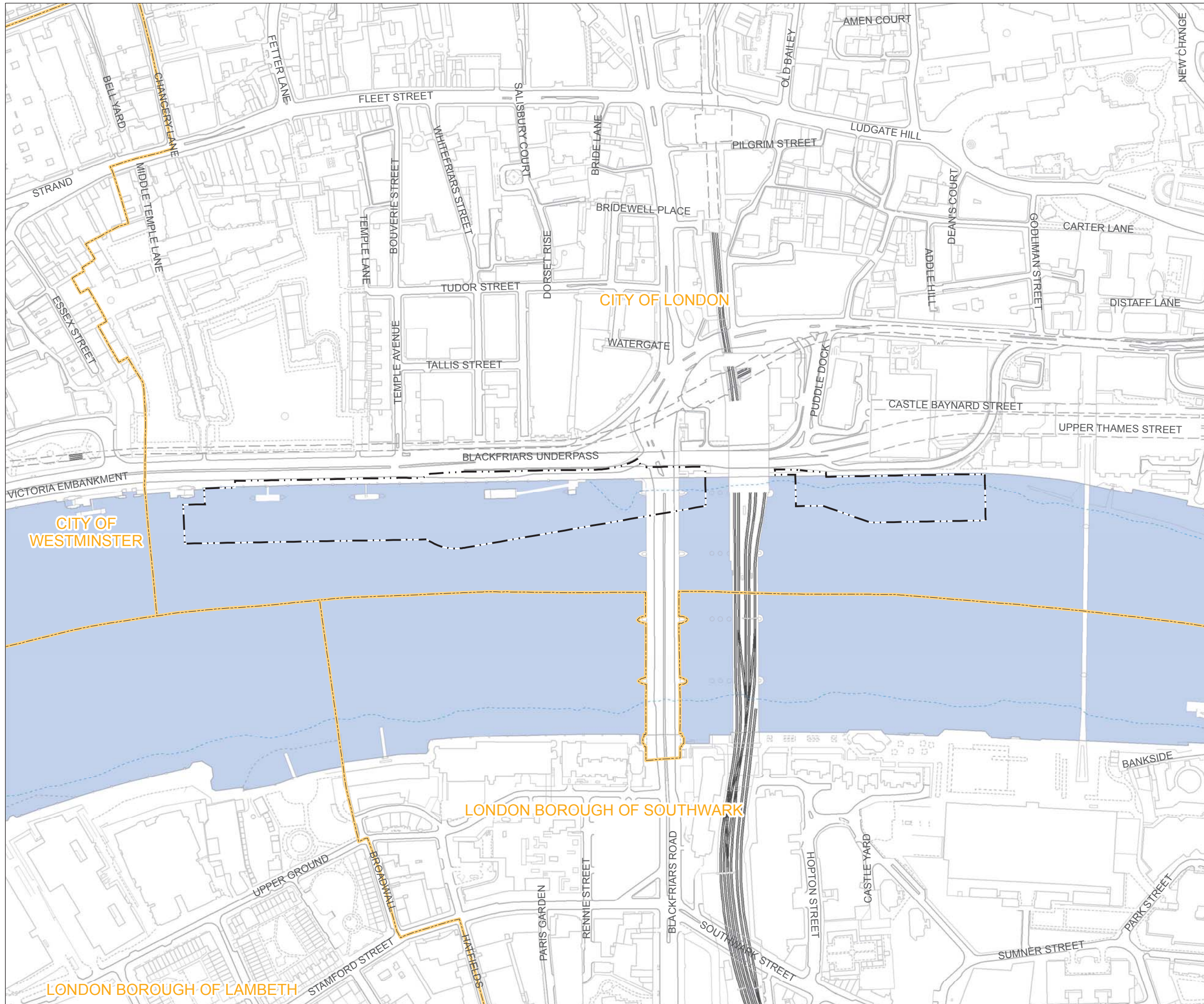
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## 2 Environmental impact assessment figures

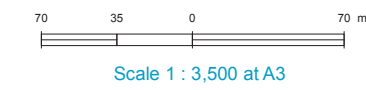
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- Key
- Limits of Land to be Acquired or Used
  - Local Authority Boundary
  - River Thames



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Site location plan  
 Vol. 18 Figure 2.1.1

1PL03-MG-00711  
 January 2013

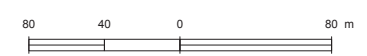




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- Key**
- Limits of Land to be Acquired or Used
  - Local Authority Boundary
- Land Use**
- Class A1-A5 (Shops, Financial & Professional Services, Restaurants, Drinking Establishments and Hot Food Takeaways)
  - Class B1 (Business (Offices except A2) Research and Development, Light Industry)
  - Class C1 (Hotels)
  - Class C2-C2A (Residential Institutions)
  - Class C3-C4 (Dwelling Houses)
  - Class D1-D2 (Non Residential Institutions (Community Facilities) and Assembly and Leisure)
  - Mixed Use
  - Other
  - Open Space



Scale 1 : 4,000 at A3

## FOR INFORMATION

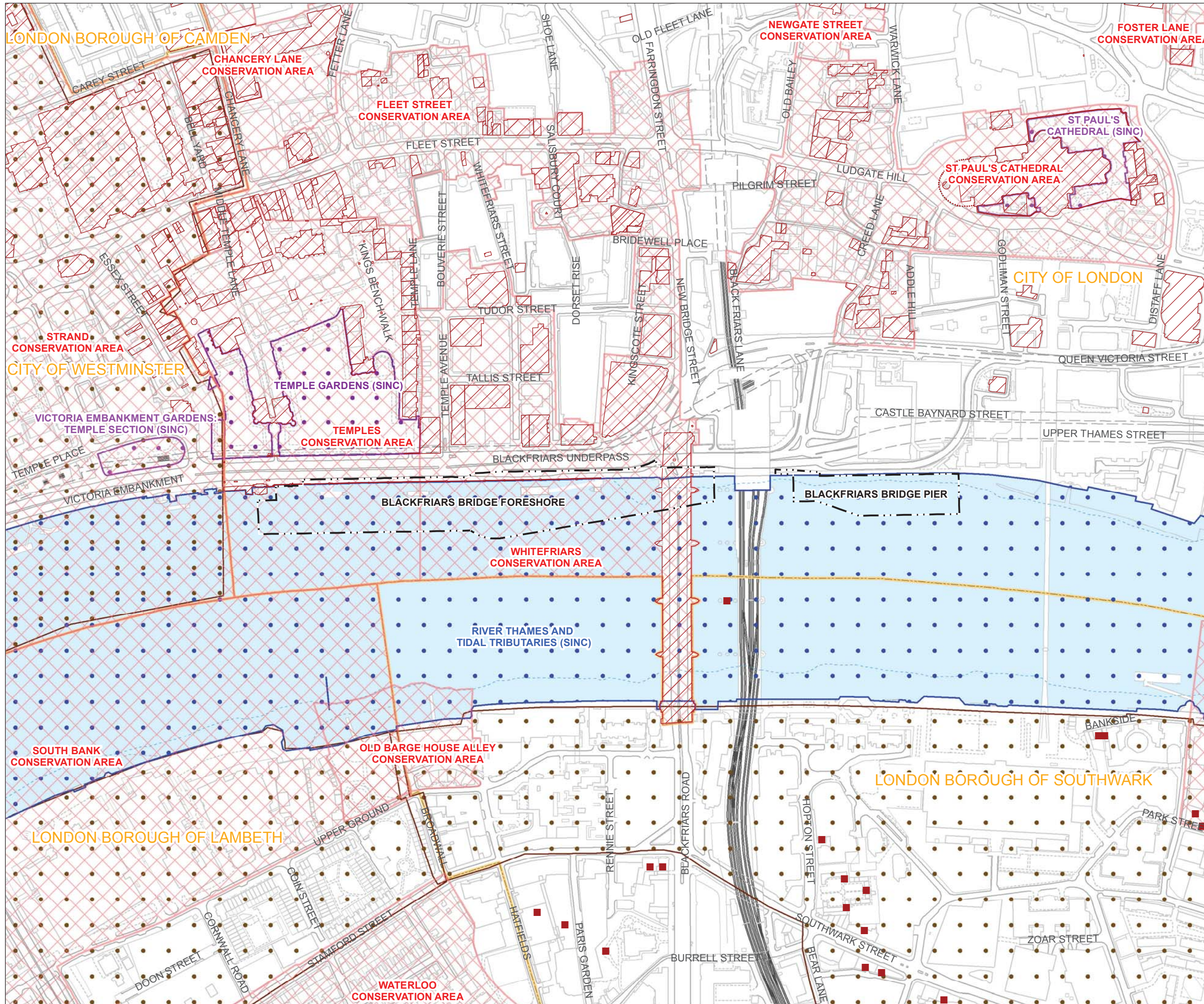
**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**

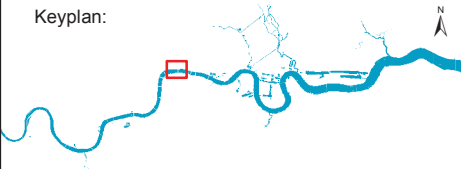
Land use  
 Vol. 18 Figure 2.1.2

1PL03-MG-00752  
 January 2013

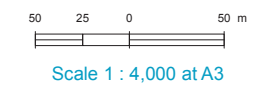




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- Key**
- Listed Building Point
  - Limits of Land to be Acquired or Used
  - ▨ Listed Building Area
  - ▧ LPA Conservation Area
  - LPA Archaeological Area
  - ▭ Local Authority Boundary
  - River Thames
- Sites of Importance for Nature Conservation (SINC)**
- Metropolitan Importance
  - Borough Importance
  - Local Importance



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Environmental setting  
 Vol. 18 Figure 2.1.3

1PL03-MG-00678  
 January 2013

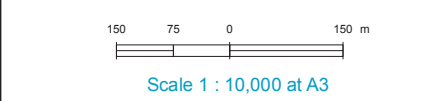
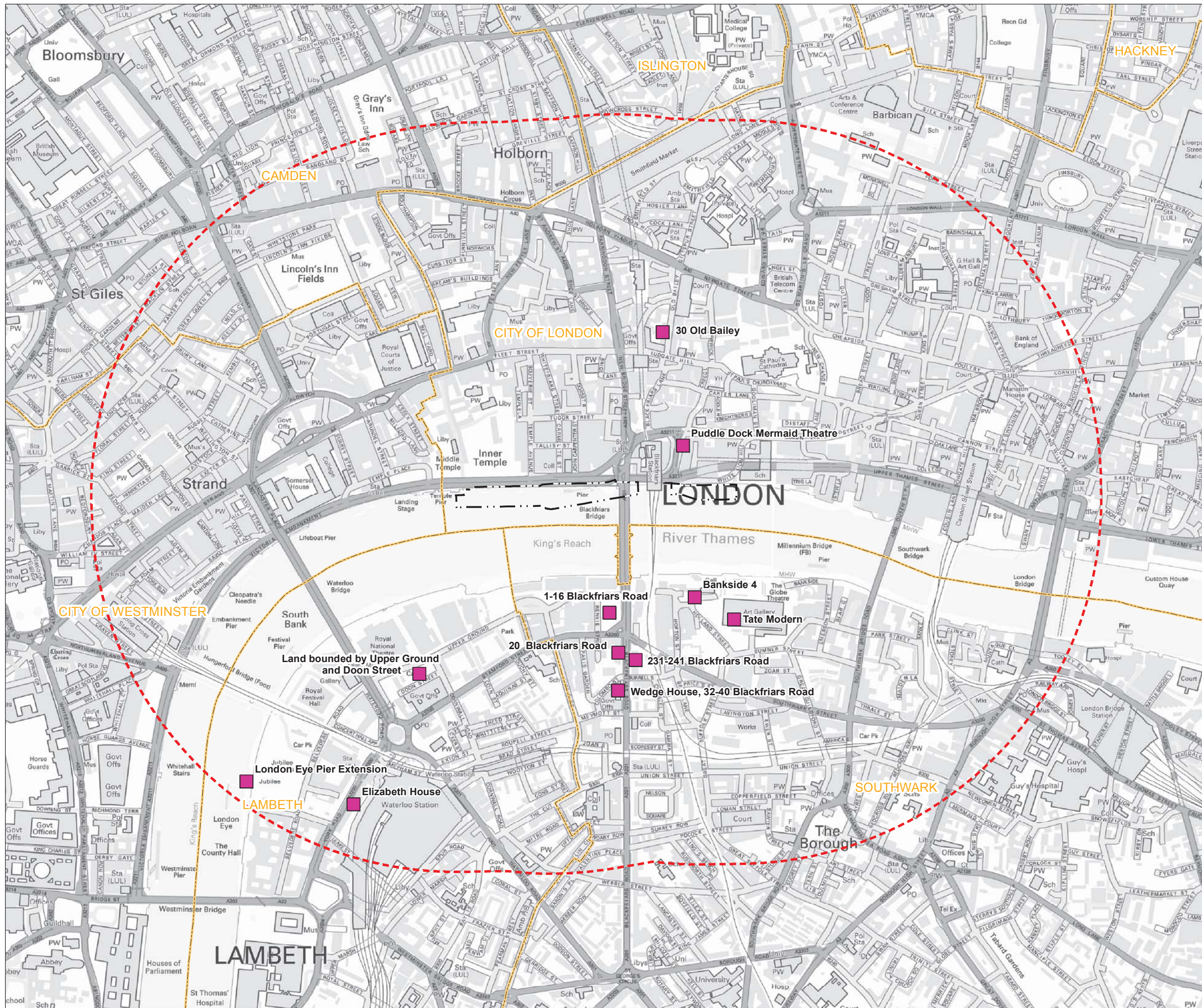






- Key**
- Planning Application
  - Limits of Land to be Acquired or Used
  - Planning Application (1km Boundary)
  - Local Authority Boundary

Note: This plan does not show the full extent for each planning application, but a single point within the application site.



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

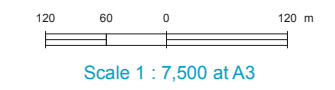
**Document Information**  
**Environmental Statement**  
 Base case and cumulative development projects  
 Vol.18 Figure 3.5.1  
 1PL03-MG-00734  
 January 2013



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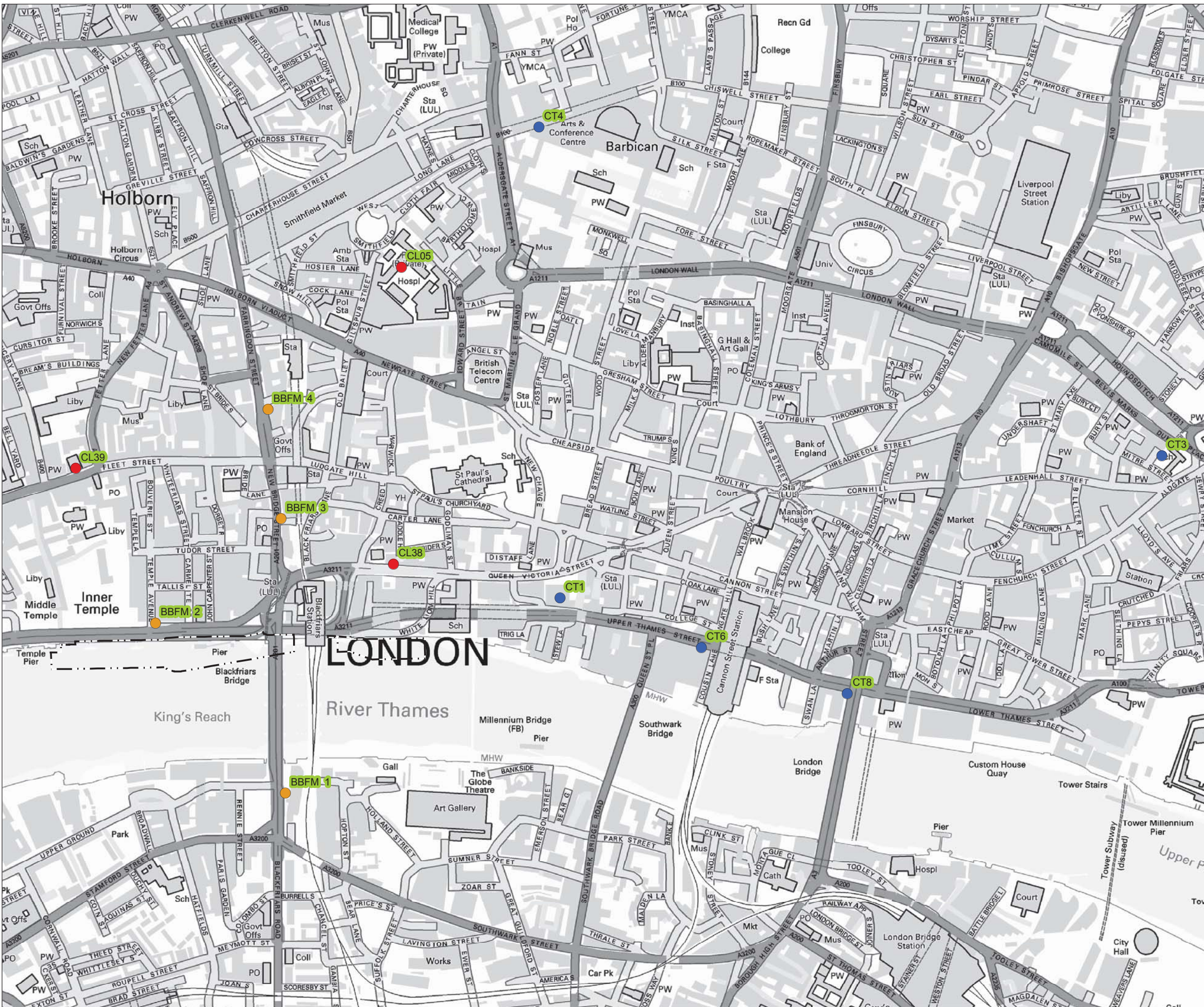
- Key**
- Limits of Land to be Acquired or Used
  - Existing Local Authority Continuous Monitors
  - Existing Local Authority Diffusion Tubes
  - New Diffusion Tubes (Project)



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Air quality and odour - air quality monitoring sites  
 Vol.18 Figure 4.4.1  
 1PL03-AQ-10816  
 January 2013



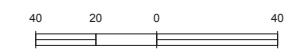
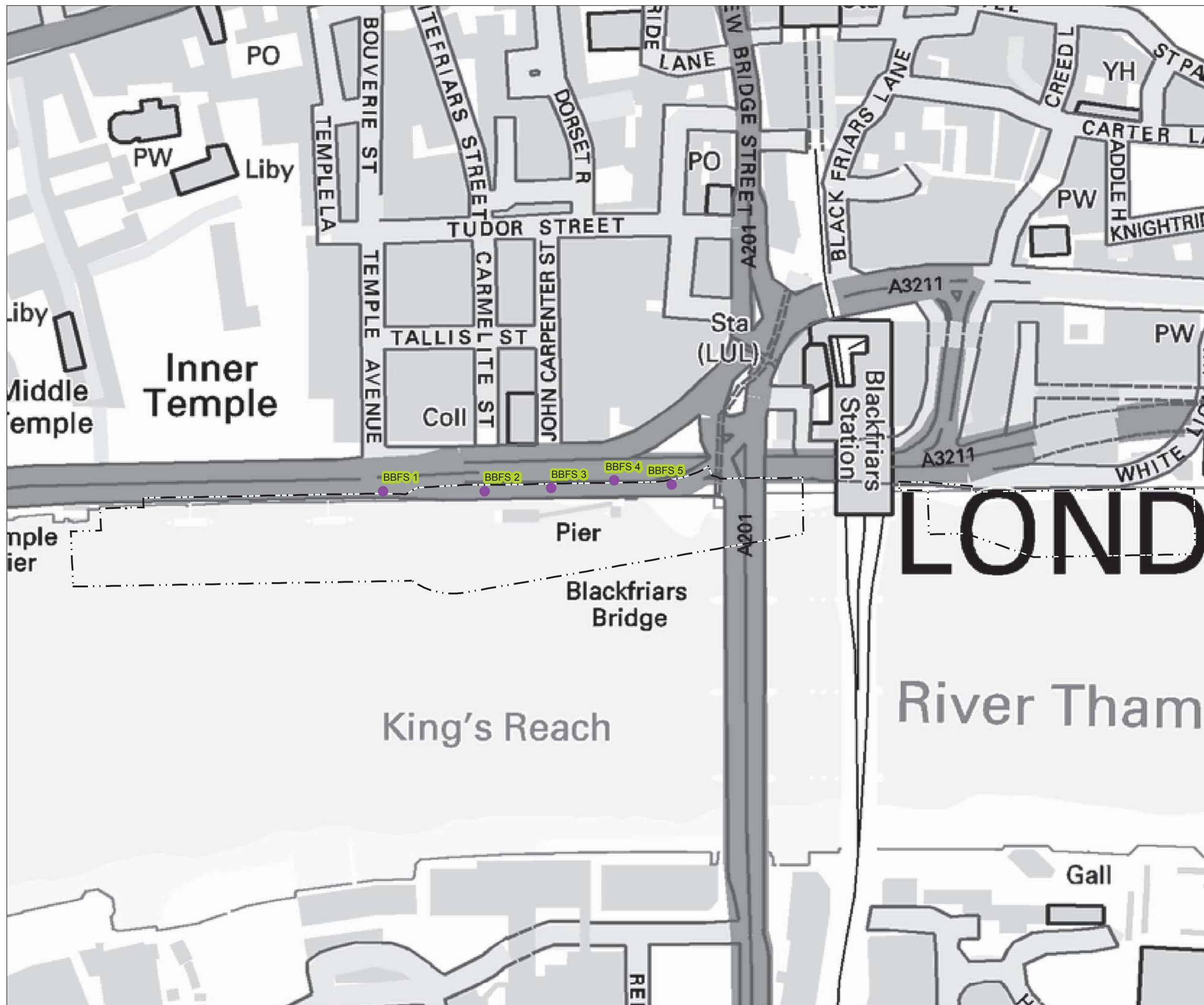
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Keyplan:



Key

- Limits of Land to be Acquired or Used
- H<sub>2</sub>S Monitoring Locations



Scale 1 : 2,500 at A3

## FOR INFORMATION

Location

**Blackfriars Bridge Foreshore**  
City of London

Document Information

**Environmental Statement**

Air quality and odour - H<sub>2</sub>S monitoring locations

Vol.18 Figure 4.4.2

1PL03-AQ-10817

January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames





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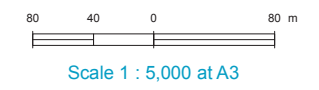


**Key**

- Limits of Land to be Acquired or Used
- Modelled Receptors

Note: The receptors are selected on the basis that they are representative of sensitive land uses closest to the site.

- BBFR 1 - King's Bench Walk
- BBFR 2 - Inner Temple Gardens
- BBFR 3 - Sion Hall
- BBFR 4 - 60, Victoria Embankment
- BBFR 5 - 100, Victoria Embankment
- BBFR 6 - Crown Plaza Hotel
- BBFR 7 - Blackfriars PH, Queen Victoria St
- BBFR 8 - Puddle Dock Mermaid Theatre (Proposed)
- BBFR 9 - The Mermaid Conference Centre
- BBFR 10 - City of London School
- BBFR 11 - St Paul's Choir School
- BBFR 12 - Globe View, High Timber St
- BBFR 13 - 1 - 16 Blackfriars Road (Proposed)
- BBFR 14 - River Court
- BBFR 15 - HMS President
- BBFR 16 - Thames Path
- BBFR 17 - River Thames
- BBFR 18 - Blackfriars Station
- BBFR 19 - HMS President (Relocated)
- BBFR 20 - 1 Temple Avenue



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

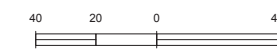
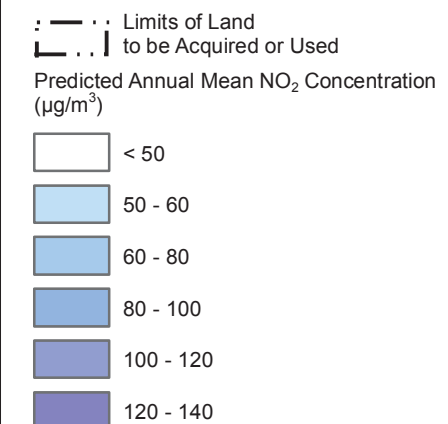
**Document Information**  
**Environmental Statement**  
 Air quality and odour - modelled air quality receptors  
 Vol.18 Figure 4.4.3  
 1PL03-AQ-10818  
 January 2013



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Key



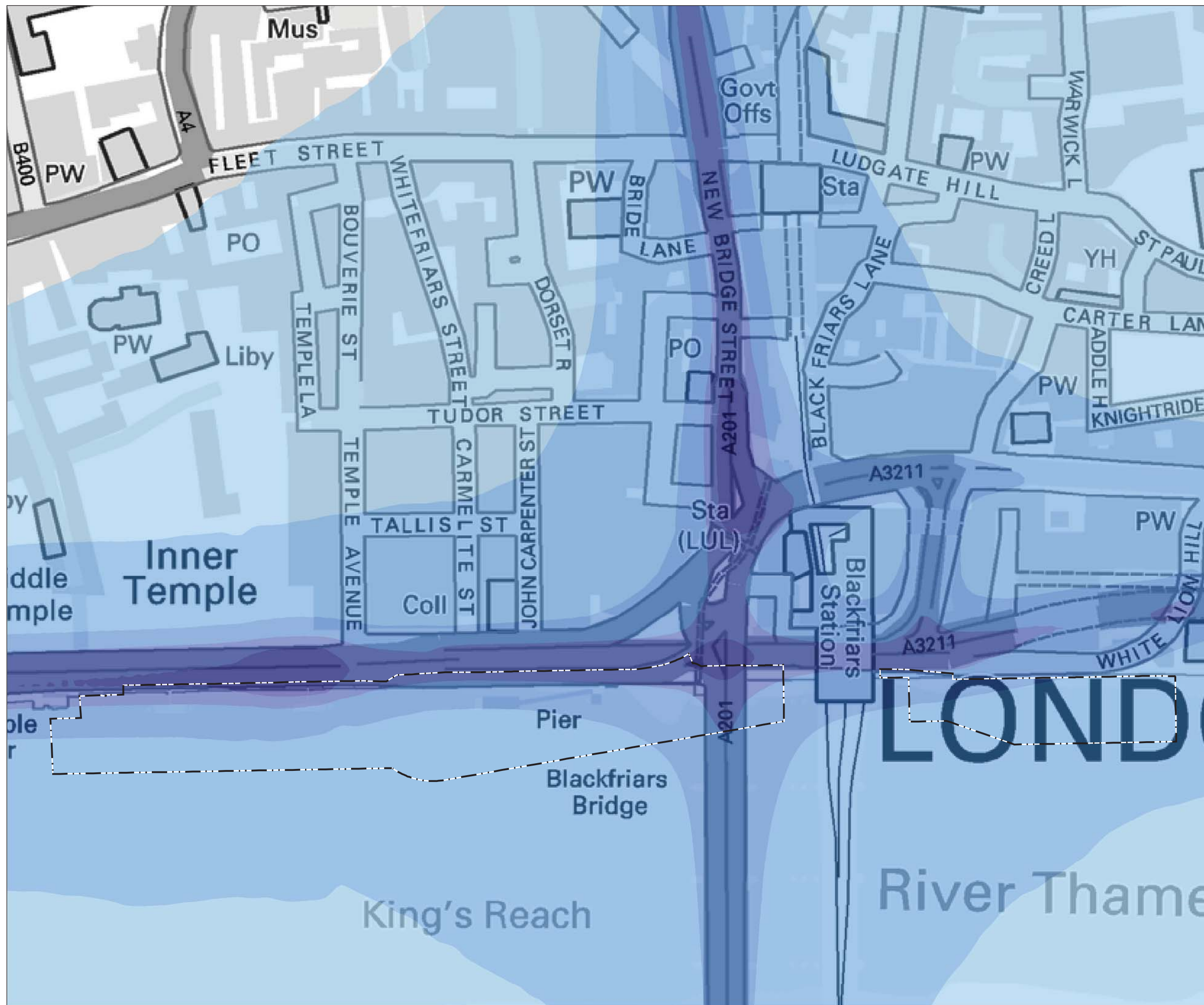
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FOR INFORMATION

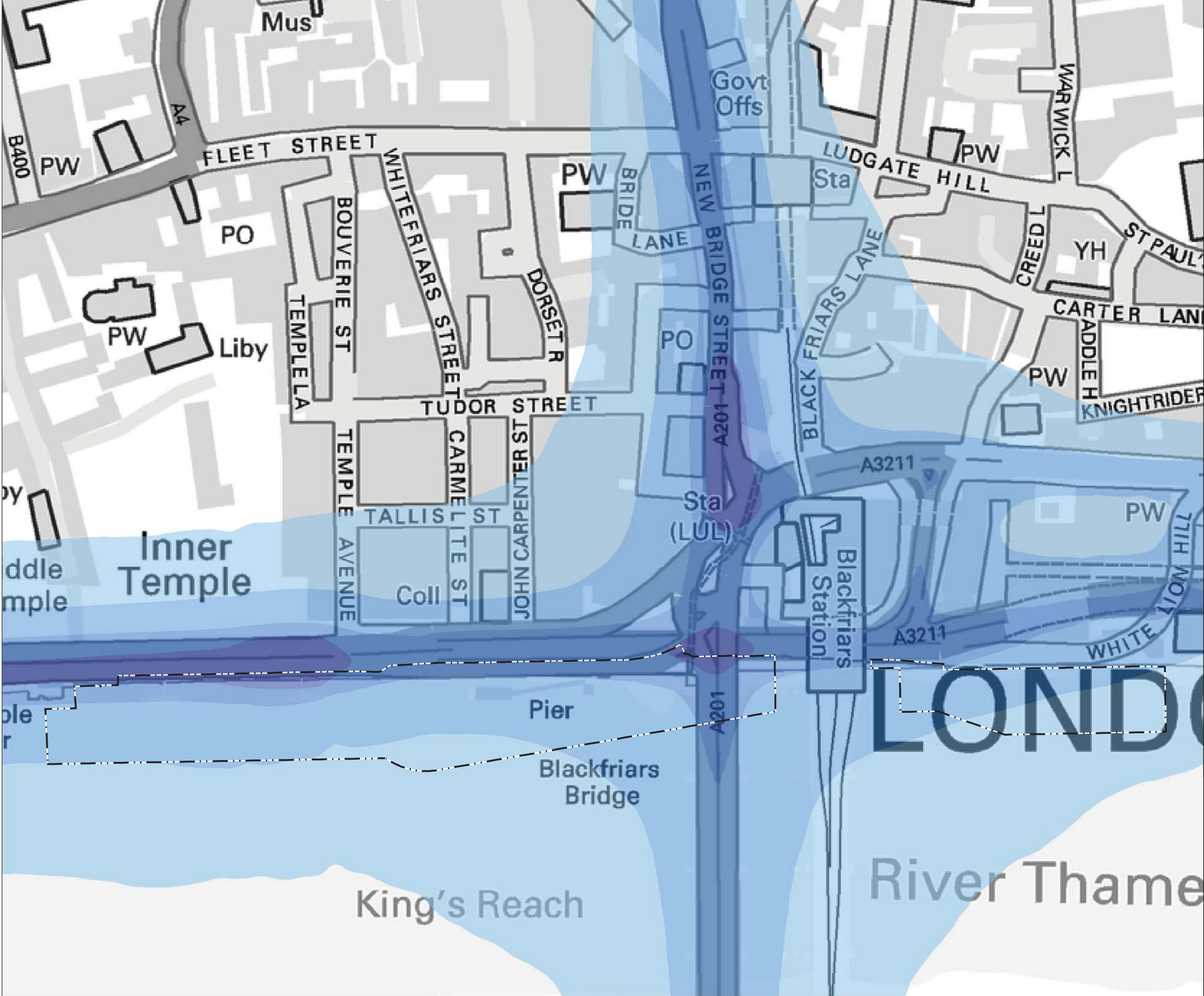
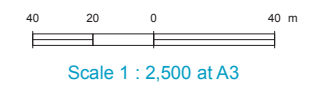
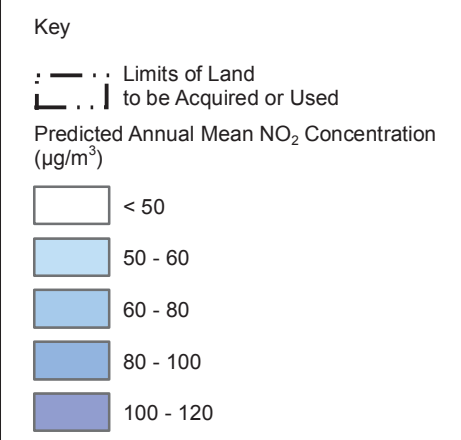
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 Blackfriars Bridge Foreshore  
 City of London

**Document Information**  
 Environmental Statement

Air quality and odour - annual mean NO<sub>2</sub>  
 for 2010 baseline  
 Vol.18 Figure 4.5.1  
 1PL03-AQ-10819  
 January 2013



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**FOR INFORMATION**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Air quality and odour - annual mean NO<sub>2</sub> for peak construction year base case  
 Vol.18 Figure 4.5.2  
 1PL03-AQ-10820  
 January 2013



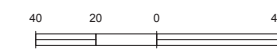
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Keyplan:



Key

- Limits of Land
- - - to be Acquired or Used
- Predicted Annual Mean NO<sub>2</sub> Concentration (µg/m<sup>3</sup>)
- < 50
- 50 - 60
- 60 - 80
- 80 - 100
- 100 - 120



Scale 1 : 2,500 at A3

## FOR INFORMATION

Location

**Blackfriars Bridge Foreshore**  
City of London

Document Information

**Environmental Statement**

Air quality and odour - annual mean NO<sub>2</sub> for peak construction year development case Vol.18 Figure 4.5.3

1PL03-AQ-10821  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames

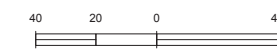
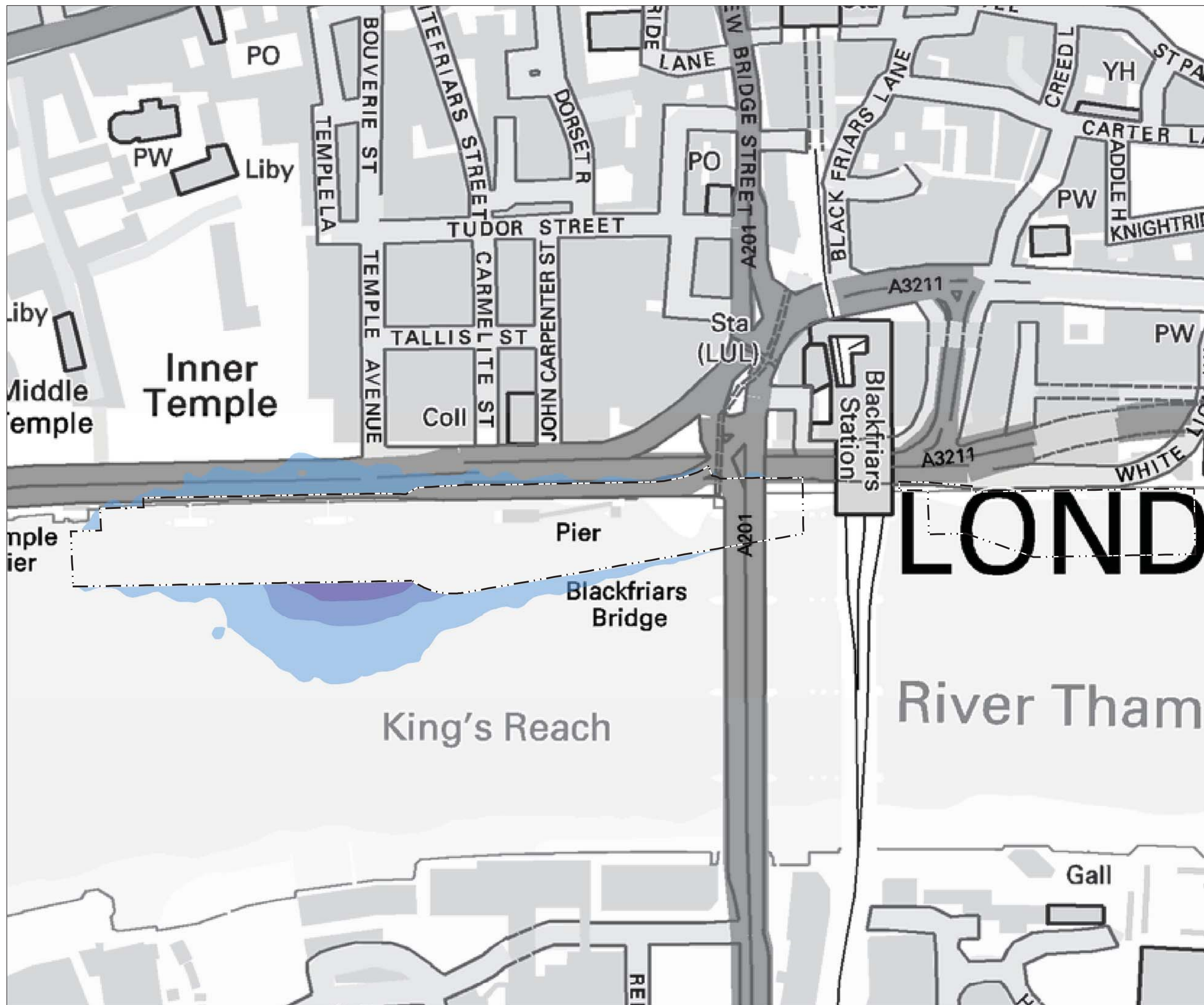


Keyplan:



Key

- Limits of Land
- - - to be Acquired or Used
- Predicted Annual Mean NO<sub>2</sub> Impact (µg/m<sup>3</sup>)
- < 0.5
- 0.5 - 1
- 1 - 1.5
- 1.5 - 2



Scale 1 : 2,500 at A3

### FOR INFORMATION

Location

**Blackfriars Bridge Foreshore**  
City of London

Document Information

**Environmental Statement**

Air quality and odour - annual mean NO<sub>2</sub> impact for peak construction year  
Vol.18 Figure 4.5.4

1PL03-AQ-10822  
January 2013





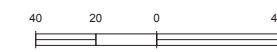
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Keyplan:



Key

- Limits of Land
- - - to be Acquired or Used
- Predicted Annual Mean PM<sub>10</sub> Concentration (µg/m<sup>3</sup>)
- < 25
- 25 - 28
- 28 - 32
- 32 - 36
- 36 - 40
- 40 - 45



Scale 1 : 2,500 at A3

## FOR INFORMATION

### Location

**Blackfriars Bridge Foreshore**  
City of London

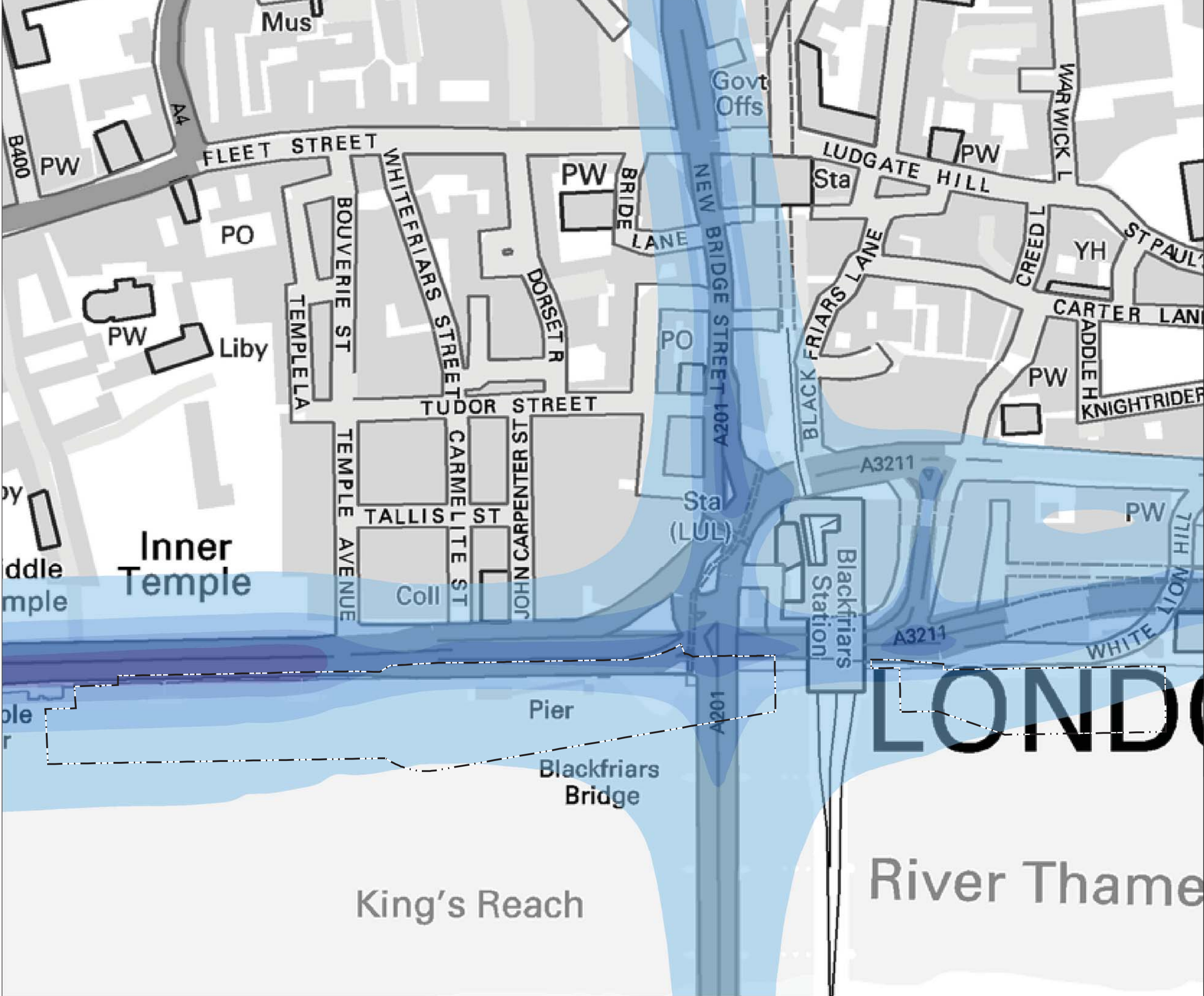
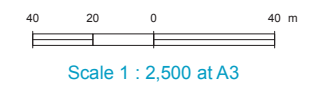
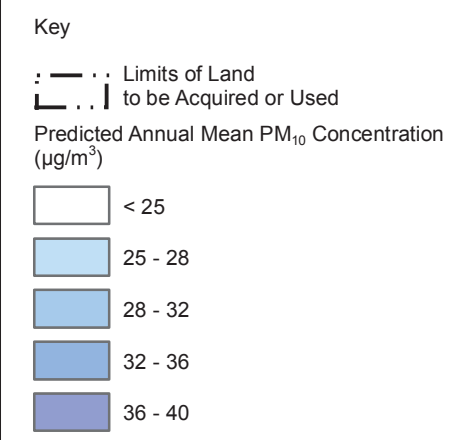
### Document Information

#### Environmental Statement

Air quality and odour - annual mean PM<sub>10</sub>  
for 2010 baseline  
Vol.18 Figure 4.5.5  
1PL03-AQ-10823  
January 2013



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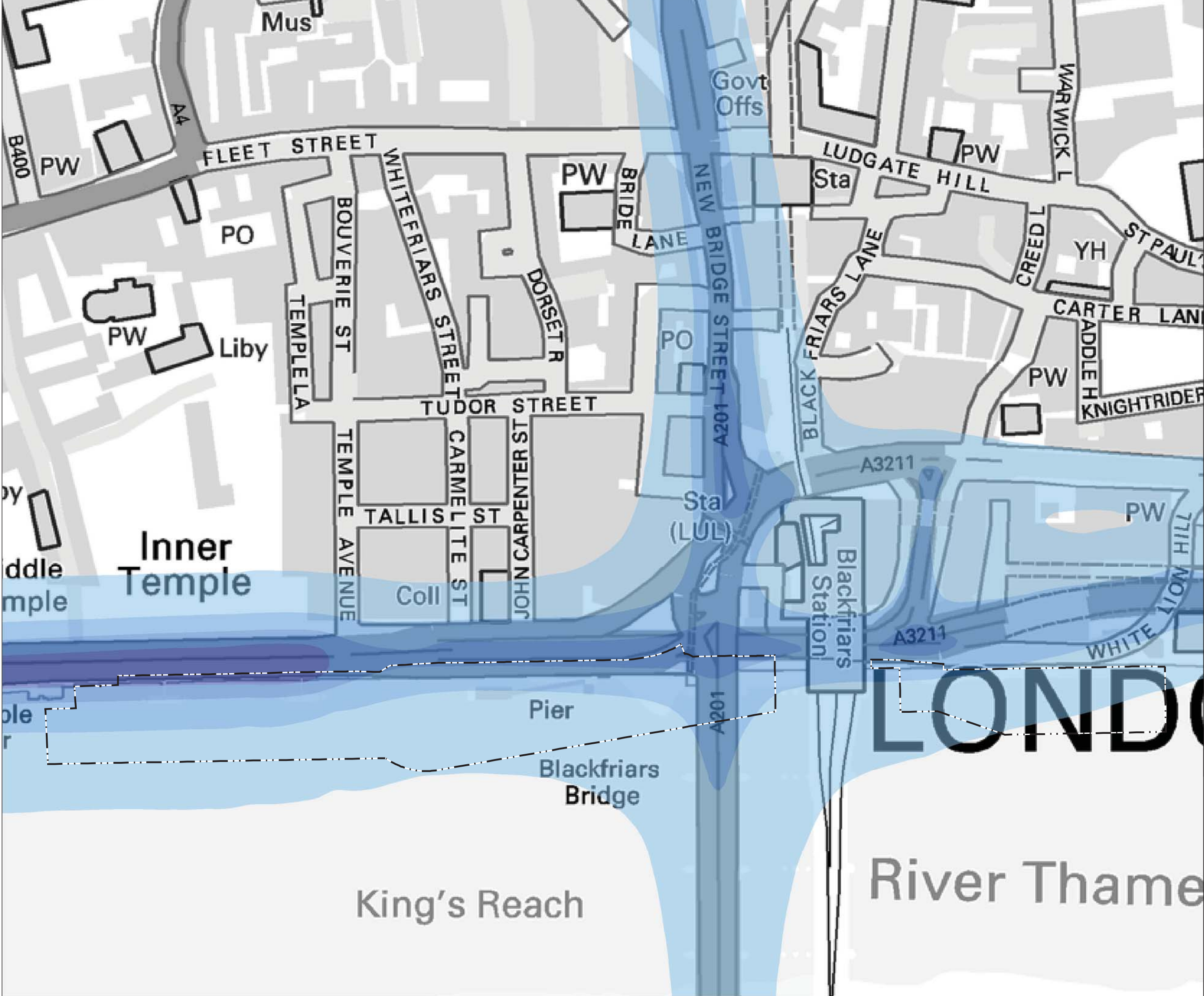
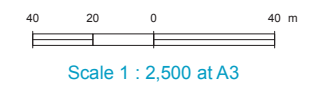
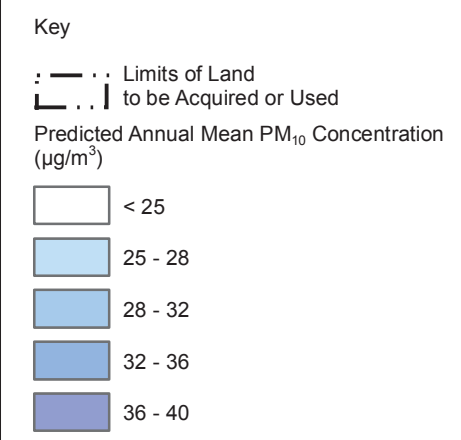
**FOR INFORMATION**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Air quality and odour - annual mean PM<sub>10</sub> for peak construction year base case  
 Vol.18 Figure 4.5.6  
 1PL03-AQ-10824  
 January 2013



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**Location**  
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City of London

**Document Information**  
**Environmental Statement**  
Air quality and odour - annual mean PM<sub>10</sub> for peak construction year development case Vol.18 Figure 4.5.7  
1PL03-AQ-10825  
January 2013

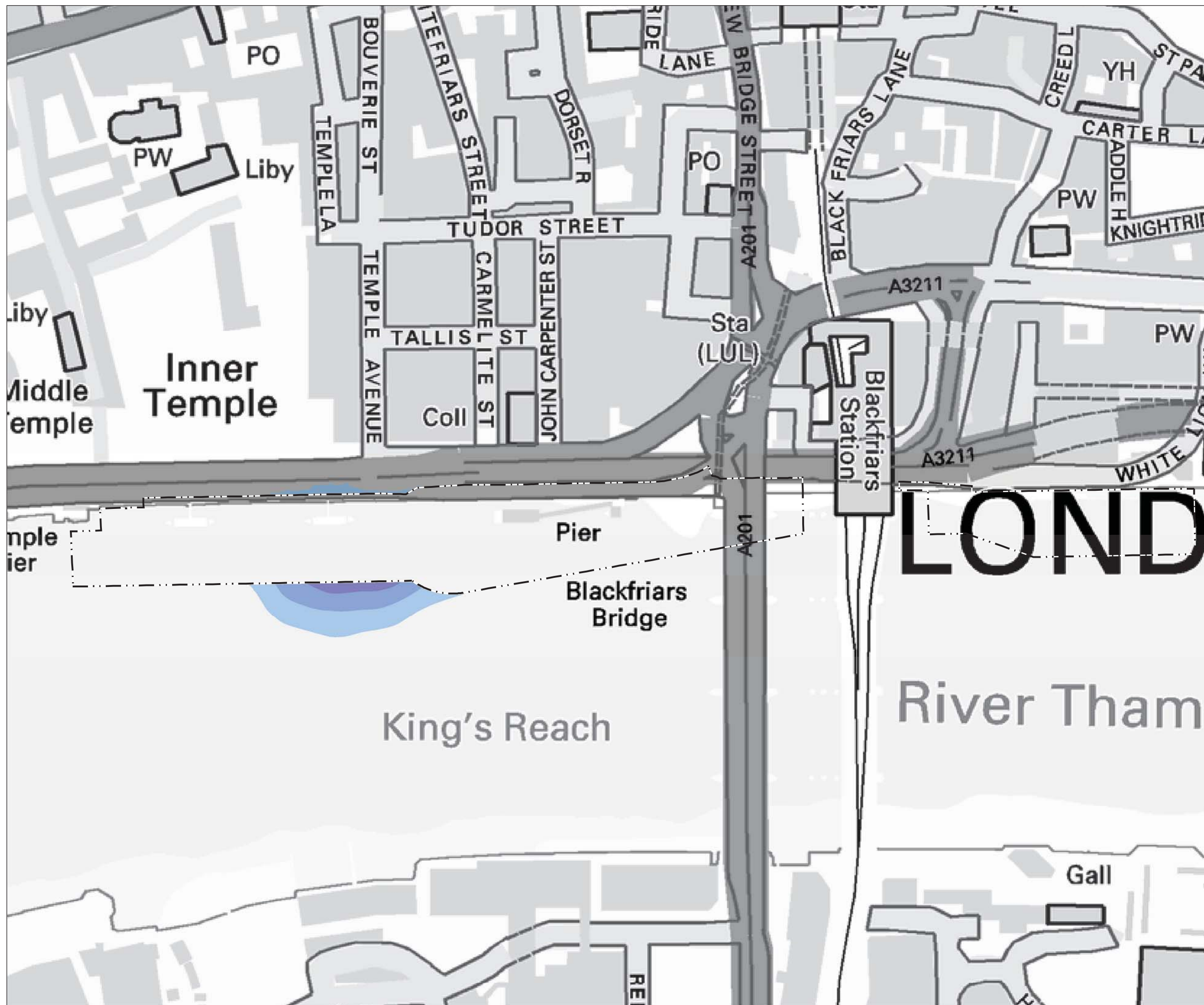


Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean PM<sub>10</sub> Impact (µg/m<sup>3</sup>)
- < 0.2
- 0.2 - 0.3
- 0.3 - 0.4
- 0.4 - 0.5



### FOR INFORMATION

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Environmental Statement**  
Air quality and odour - annual mean PM<sub>10</sub> impact for peak construction year  
Vol.18 Figure 4.5.8  
1PL03-AQ-10826  
January 2013

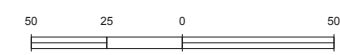


Keyplan:



Key

- Limits of Land to be Acquired or Used
- Sampling Area for Fish and Benthic Invertebrates
- Coordinates of Sampling Area
- Algae Survey Area
- CSO (Directly Controlled)
- River Wall
- Habitats**
- Exposed Silt and Sand
- Shingle, Pebbles and Cobble
- Fish**
- Boat Fish Trawl
- Seine Netting
- Invertebrates**
- Airlift
- Quadrat
- Sweep/Kick Sample



Scale 1 : 2,500 at A3

## FOR INFORMATION

Location

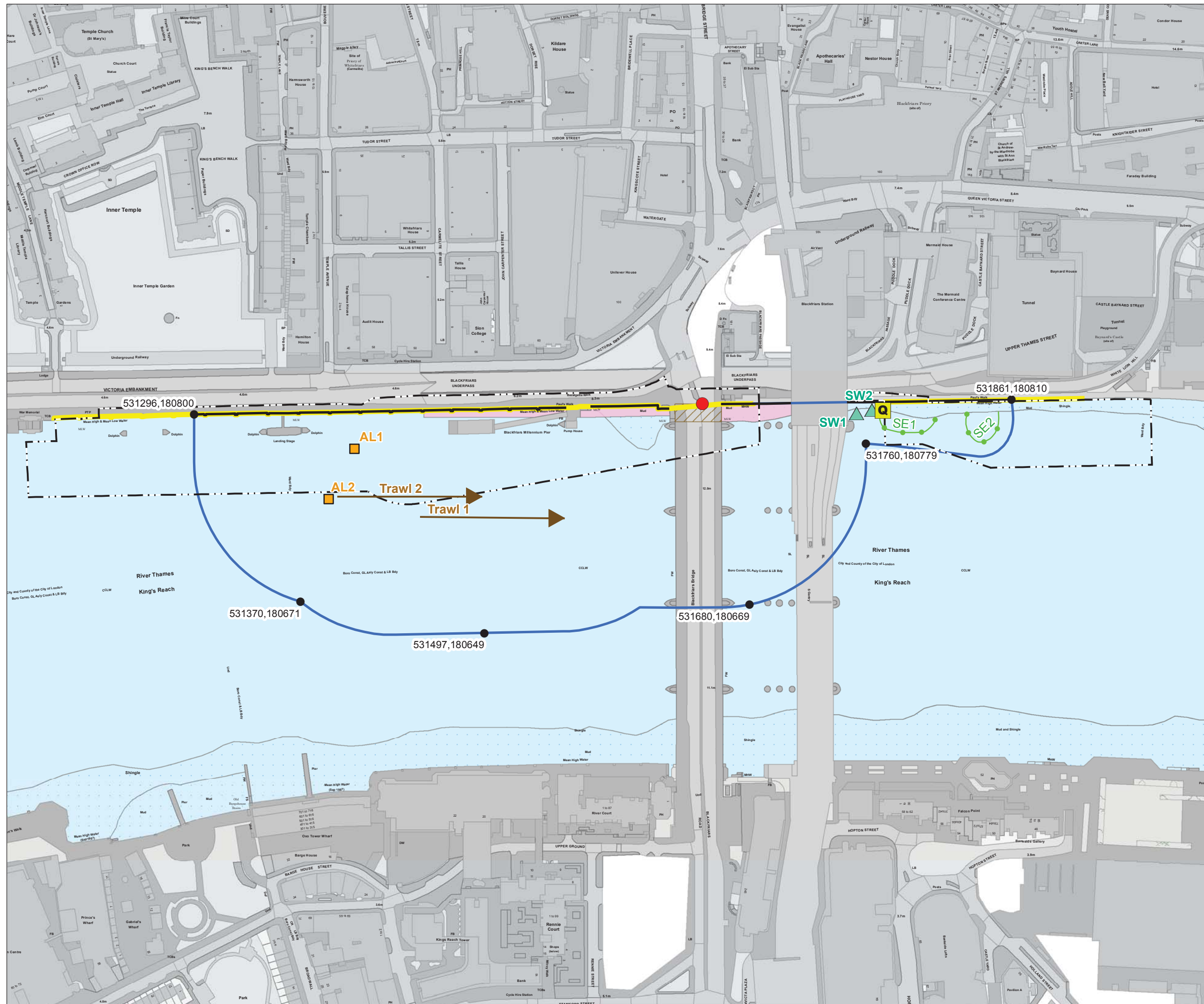
**Blackfriars Bridge Foreshore**  
City of London

Document Information

**Environmental Statement**

Aquatic ecology - habitats and sampling locations  
Vol.18 Figure 5.4.1

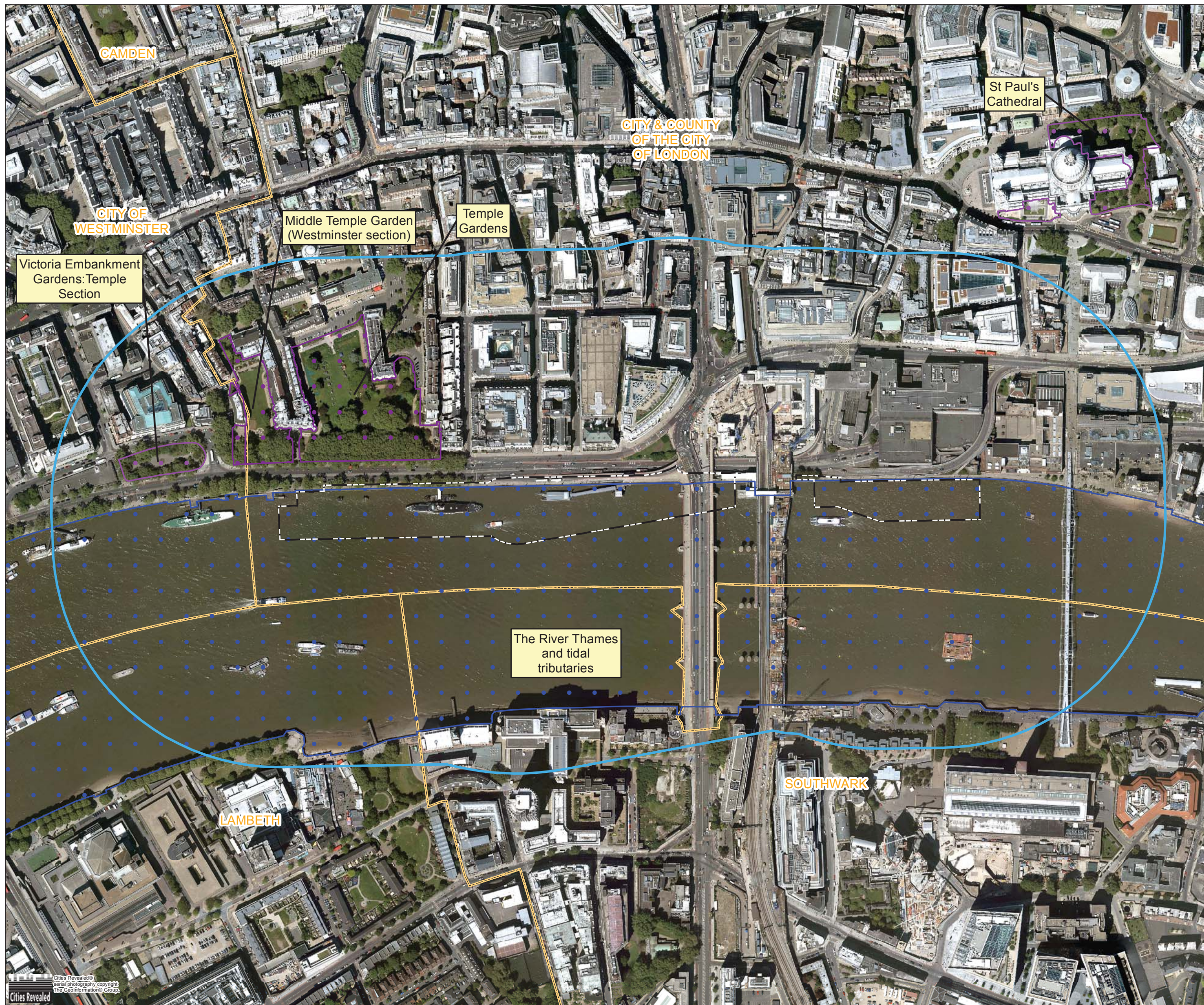
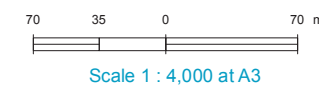
1PL03-AE-20080  
January 2013





- Key**
- Limits of Land
  - to be Acquired or Used
  - 250m from Site
  - Local Authority Boundary
- Sites of Importance for Nature Conservation (SINC)**
- Metropolitan Importance
  - Borough Importance
  - Local Importance

**Note:**  
Aerial Imagery taken in 2010, before assessment.



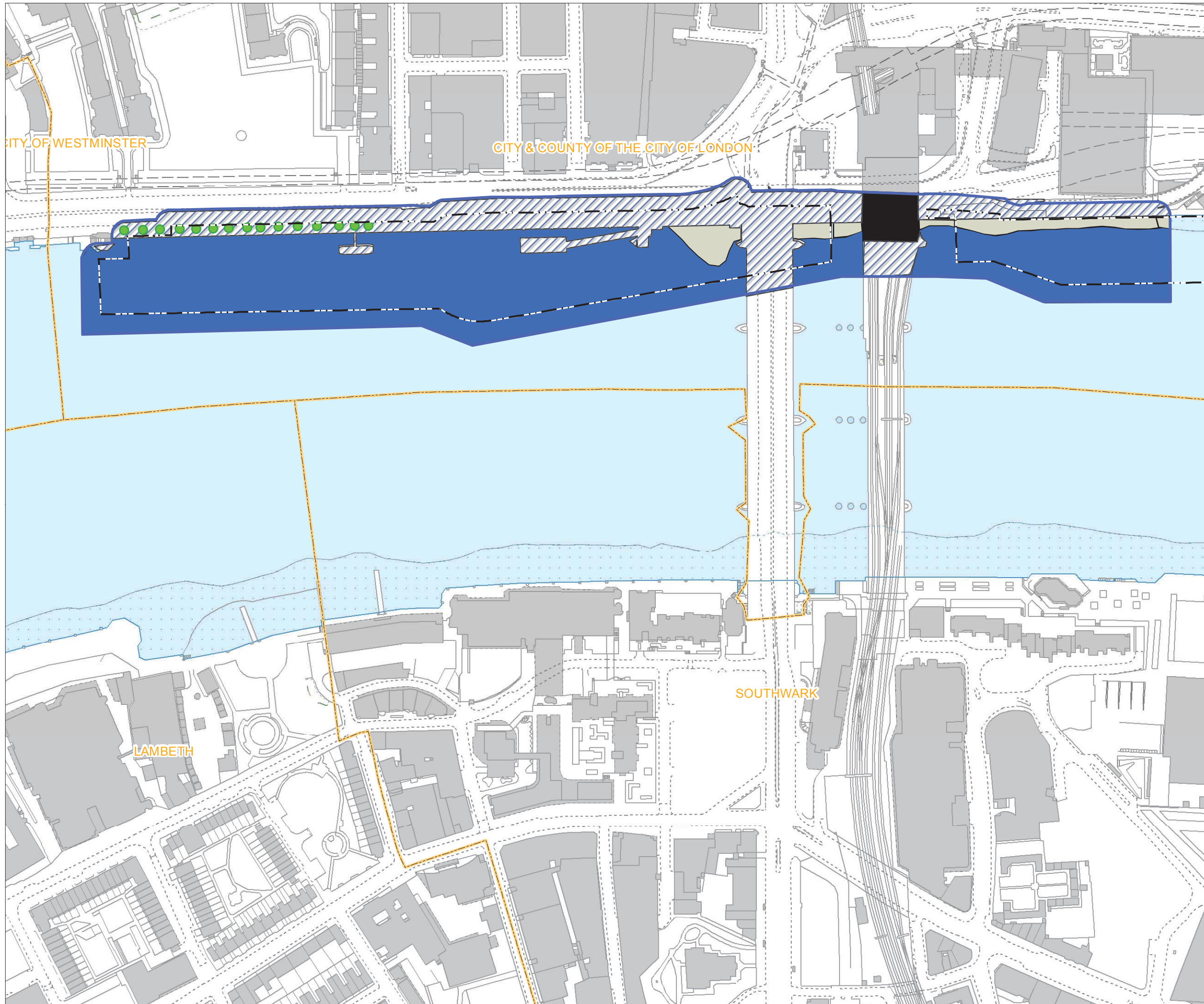
## FOR INFORMATION

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Environmental Statement  
Terrestrial ecology - designated sites

Vol. 18 Figure 6.4.1  
1PL03-TE-40154  
January 2013

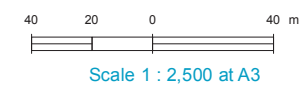




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- Key**
- Limits of Land to be Acquired or Used
  - Local Authority Boundary
  - Survey Area
  - Built-Up Areas - Buildings
  - Running Water
  - ▨ Hard Standing
  - Intertidal - Mud/Sand
  - Scattered Trees



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Terrestrial ecology – Phase 1 Habitat Survey

Vol. 18 Figure 6.4.2  
 1PL03-TE-40179  
 January 2013



Keyplan:

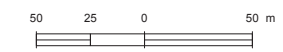


Key

- Limits of Land to be Acquired or Used
- Assessment Area
- Heritage Feature/Findspot
- Past Archaeological Investigation
- Scheduled Monument
- Statutorily Listed Building
- Wreck/Obstruction
- Bazalgette Sewer
- Statutorily Listed Building
- Registered Park/Garden

The reference numbers for historic environment features correspond to the descriptions in the 'Gazetteer of known heritage assets' in Environmental Statement Vol. 18 Appendix E.1

Note: Archaeological Priority Zones/Conservation Areas not shown



Scale 1 : 3,500 at A3

## FOR INFORMATION

Location

**Blackfriars Bridge Foreshore**  
City of London

Document Information

**Environmental Statement**

Historic environment -  
historic environment features map  
Vol.18 Figure 7.4.1

1PL03-HE-60086  
January 2013

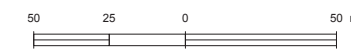




- Key**
- Limits of Land to be Acquired or Used
  - Local Authority Boundary
  - Heritage Feature/Findspot
  - Statutorily Listed Building
  - Statutorily Listed Building
  - Registered Park/Garden
  - Wreck/Obstruction
  - Conservation Area
  - View of Heritage Value (VHV)
  - Operational phase ZTV
  - Construction phase ZTV



The reference number for historic environment features correspond to the descriptions in the 'Gazetteer of known heritage assets' in Environmental Statement Vol. 18 Appendix E.1



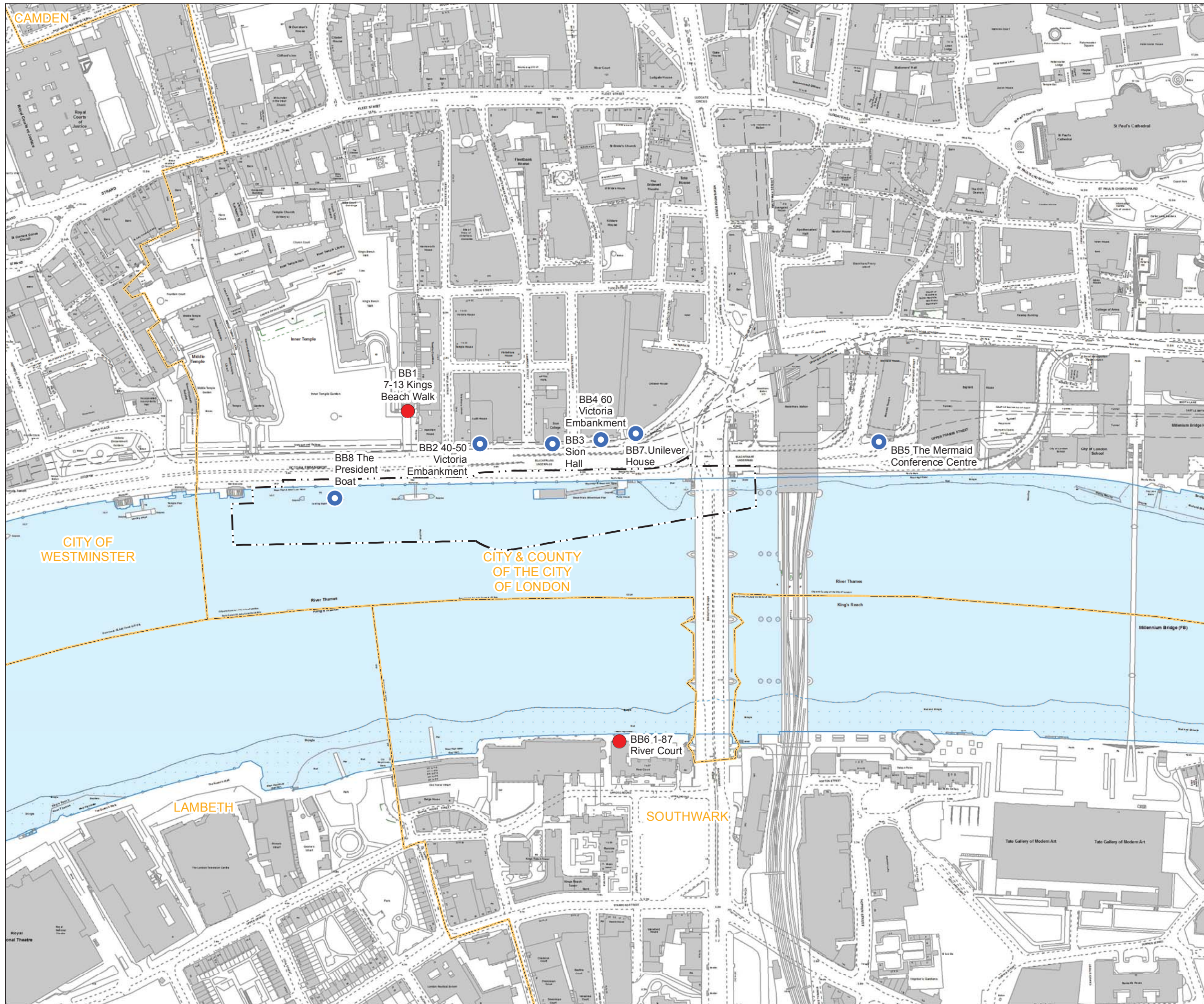
Scale 1 : 2,500 at A3

## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Historic environment - historic character and setting of heritage assets  
 Vol. 18 Figure 7.4.2  
 1PL03-HE-65203  
 January 2013



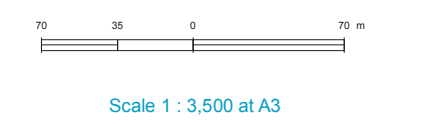


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- Key**
- Limits of Land to be Acquired or Used
  - Local Authority Boundary
- Representative Receptor Locations:**
- Residential
  - Non-Residential

**Note:**  
The receptors are selected on the basis that they are representative of sensitive land uses closest to the site.



## FOR INFORMATION

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Environmental Statement**  
Noise and vibration - receptor locations

Vol.18 Figure 9.4.1  
1PL03-NV-40119  
January 2013

Keyplan:



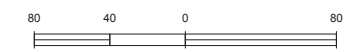
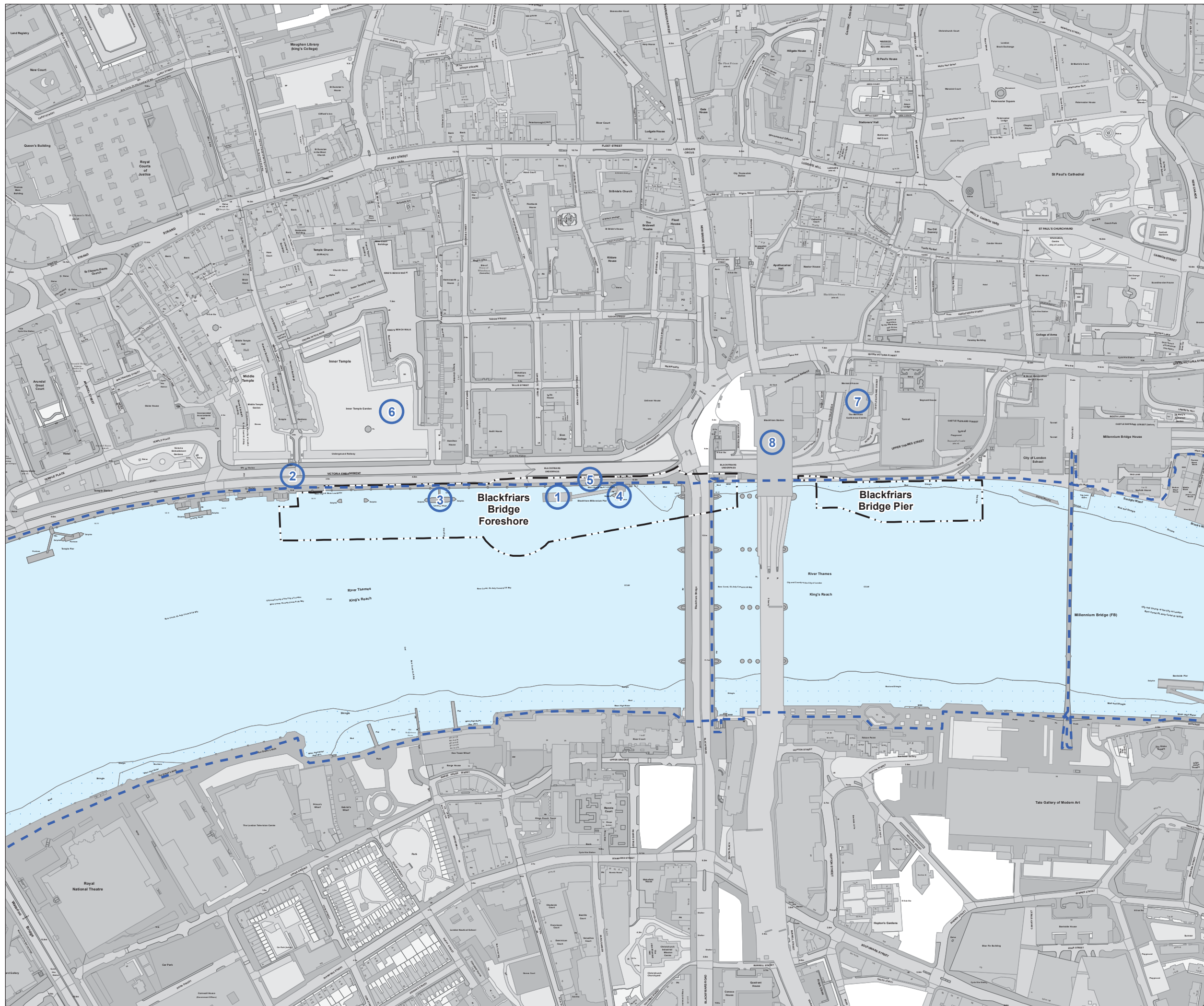
Key

- Limits of Land to be Acquired or Used
- Thames Path
- Receptors and Site Context Features

Receptors and Site Context Features

1. Blackfriars Millennium Pier
2. Victoria Embankment
3. The President
4. Crown River Cruises Office
5. Specialist Sports Facility
6. Inner Temple Garden
7. Mermaid Conference Centre
8. Blackfriars Station

Note: Residential receptors have been identified on land use plans for this site.



Scale 1 : 4,000 at A3

## FOR INFORMATION

Location

**Blackfriars Bridge Foreshore**  
City of London

Document Information

**Environmental Statement**

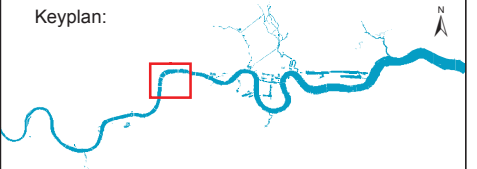
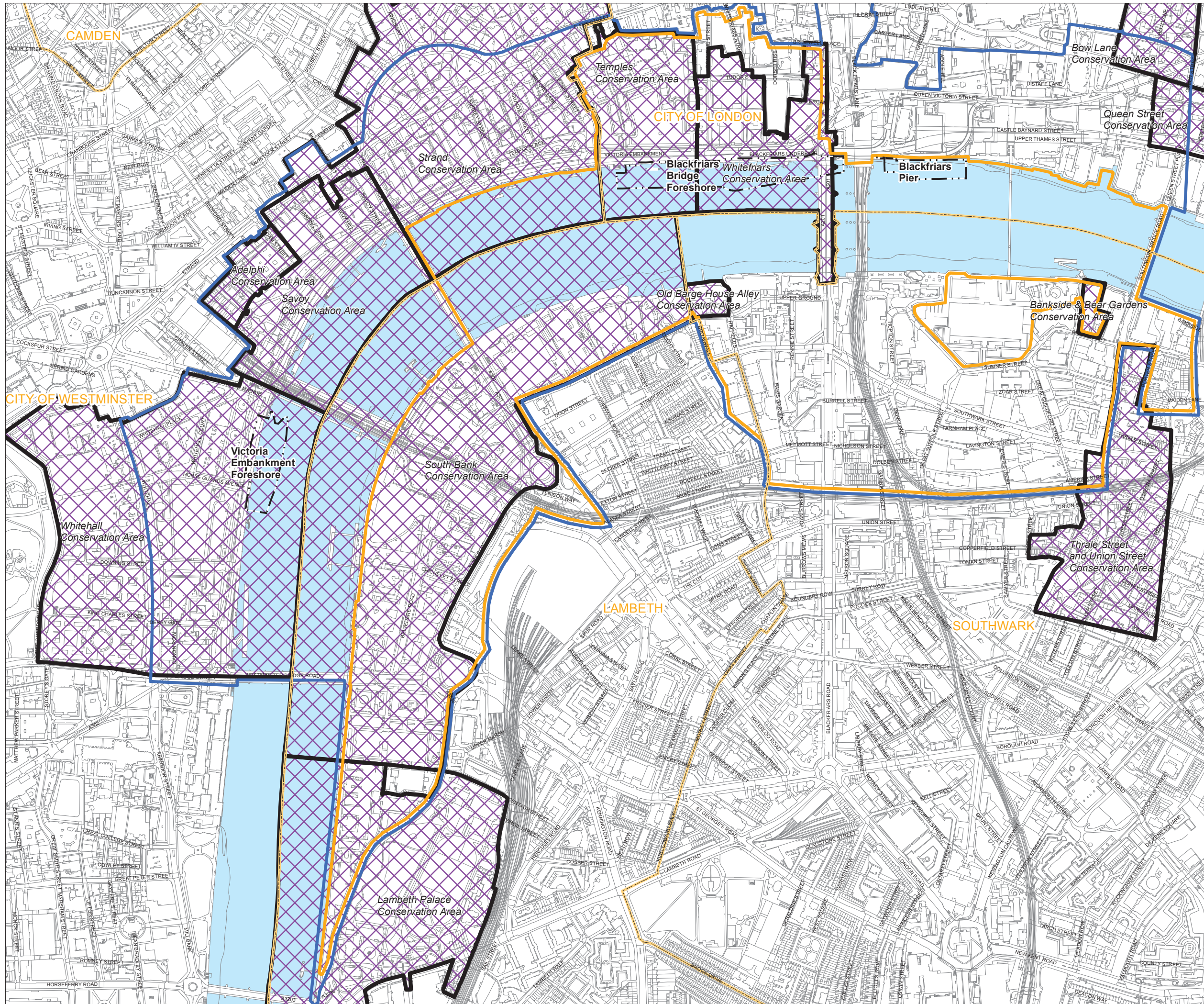
Socio-economics - context plan

Vol.18 Figure 10.4.1

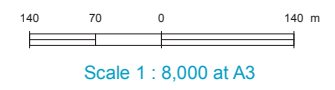
1PL03-SE-20051

January 2013

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- Key:**
- Limits of Land to be Acquired or Used
  - Local Authority boundary
  - Extents of construction phase townscape assessment area
  - Extents of operational phase townscape assessment area
  - Conservation areas
  - River Thames and tidal tributaries



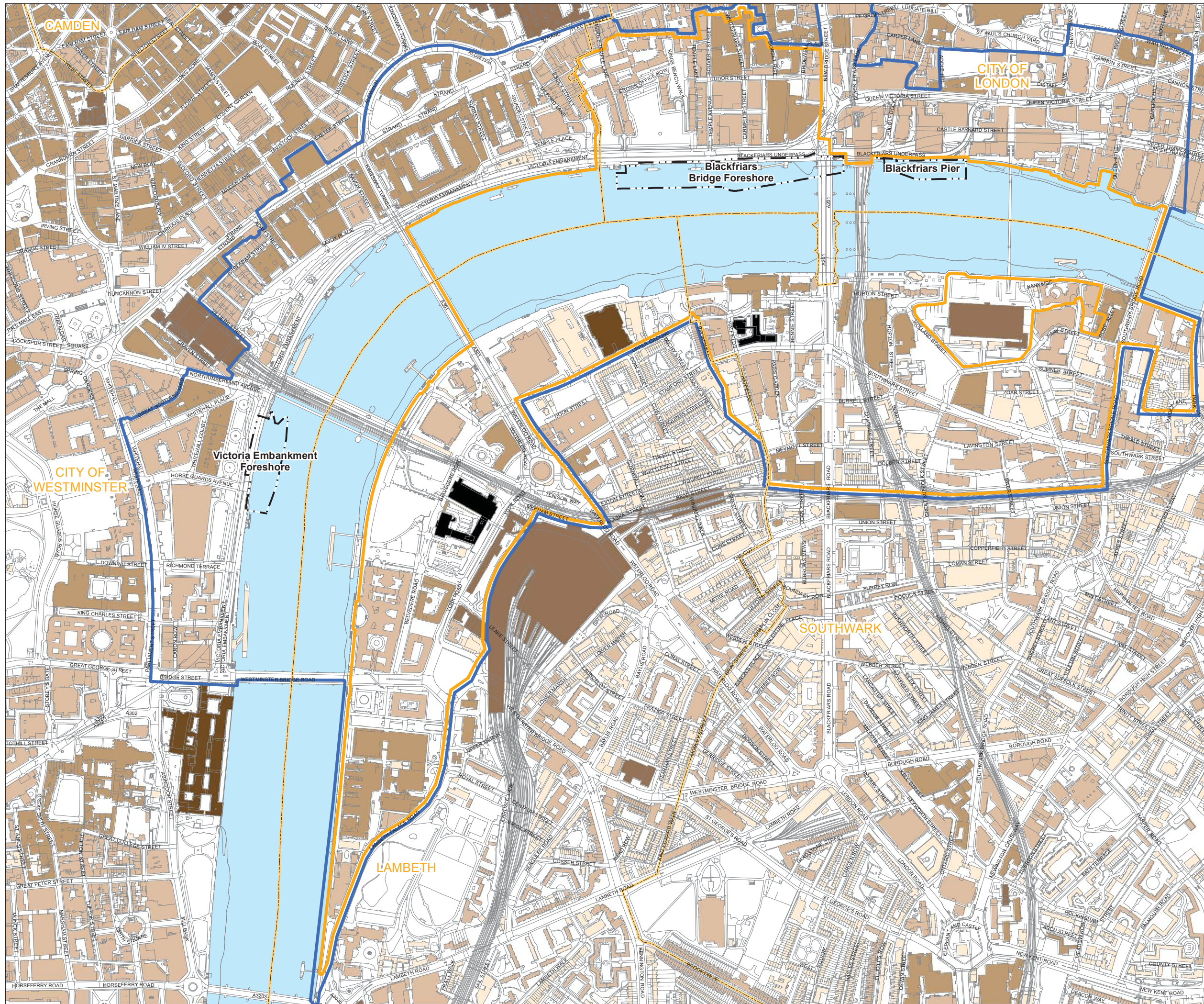
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**

Townscape and visual  
 Conservation areas  
 Vol. 18 Figure 11.4.1  
 1PL03-TS-40464  
 January 2013



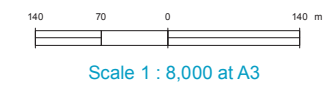


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- Key:
- - - Limits of Land to be Acquired or Used
  - Local Authority boundary
  - Extents of construction phase townscape assessment area
  - Extents of operational phase townscape assessment area
  - River Thames and tidal tributaries

- Building heights
- 0 - 20m
  - 20 - 40m
  - 40 - 60m
  - 60 - 80m
  - 80 - 100m
  - >100m



## FOR INFORMATION

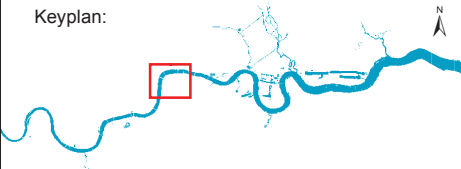
**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Townscape and visual  
 Development pattern and scale  
 Vol. 18 Figure 11.4.2  
 1PL03-TS-40465  
 January 2013

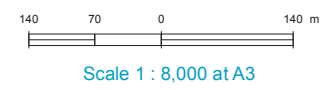




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- Key:
- Limits of Land to be Acquired or Used
  - Local Authority boundary
  - Extents of construction phase townscape assessment area
  - Extents of operational phase townscape assessment area



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

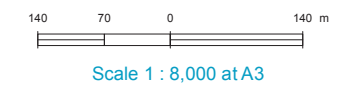
**Document Information**  
**Environmental Statement**  
 Townscape and visual  
 Aerial photo showing pattern of vegetation  
 Vol. 18 Figure 11.4.3  
 1PL03-TS-40466  
 January 2013



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- Key:**
- Limits of Land
  - - - to be Acquired or Used
  - Local Authority boundary
  - Extents of construction phase townscape assessment area
  - Extents of operational phase townscape assessment area
  - Designated open space
  - Public open space
  - Private open space
  - River Thames and tidal tributaries

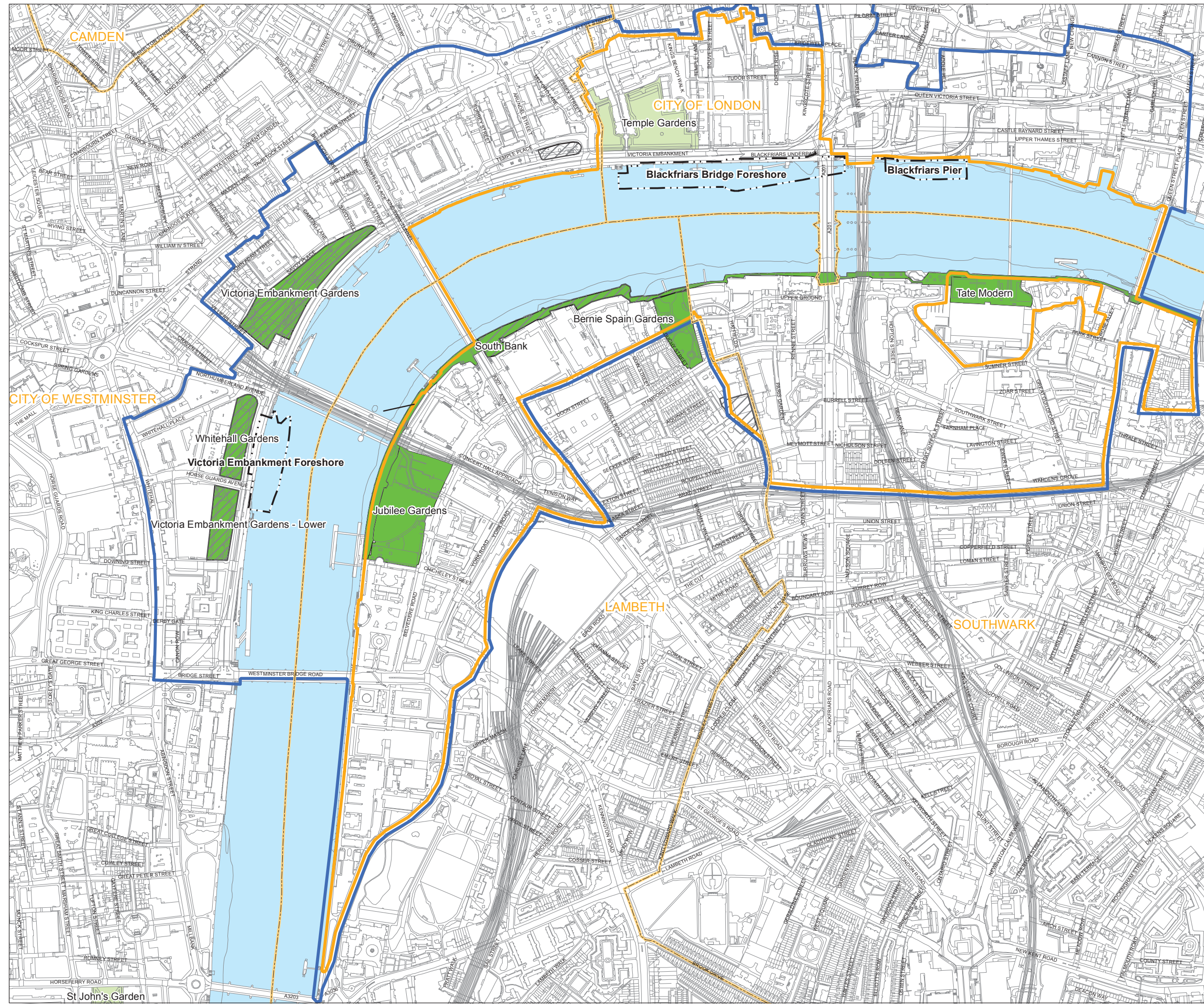


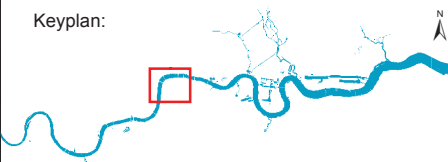
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

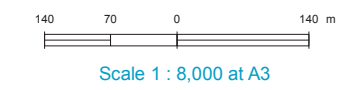
**Document Information**  
**Environmental Statement**

Townscape and visual  
 Open spaces  
 Vol. 18 Figure 11.4.4  
 1PL03-TS-40467  
 January 2013





- Key:**
- Limits of Land to be Acquired or Used
  - Local Authority boundary
  - Extents of construction phase townscape assessment area
  - Extents of operational phase townscape assessment area
  - National Rail stations
  - London Underground
  - Thames Path
  - Provision for cyclists alongside busy roads
  - London cycle routes
  - Rail
  - A roads
  - River Thames and tidal tributaries



## FOR INFORMATION

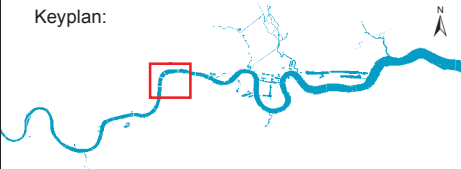
**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Townscape and visual  
 Transport routes  
 Vol. 18 Figure 11.4.5  
 1PL03-TS-40468  
 January 2013



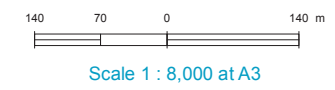


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- Key:**
- Limits of Land
  - to be Acquired or Used
  - Local Authority boundary
  - Extents of construction phase townscape assessment area
  - Extents of operational phase townscape assessment area
  - Townscape character sub areas

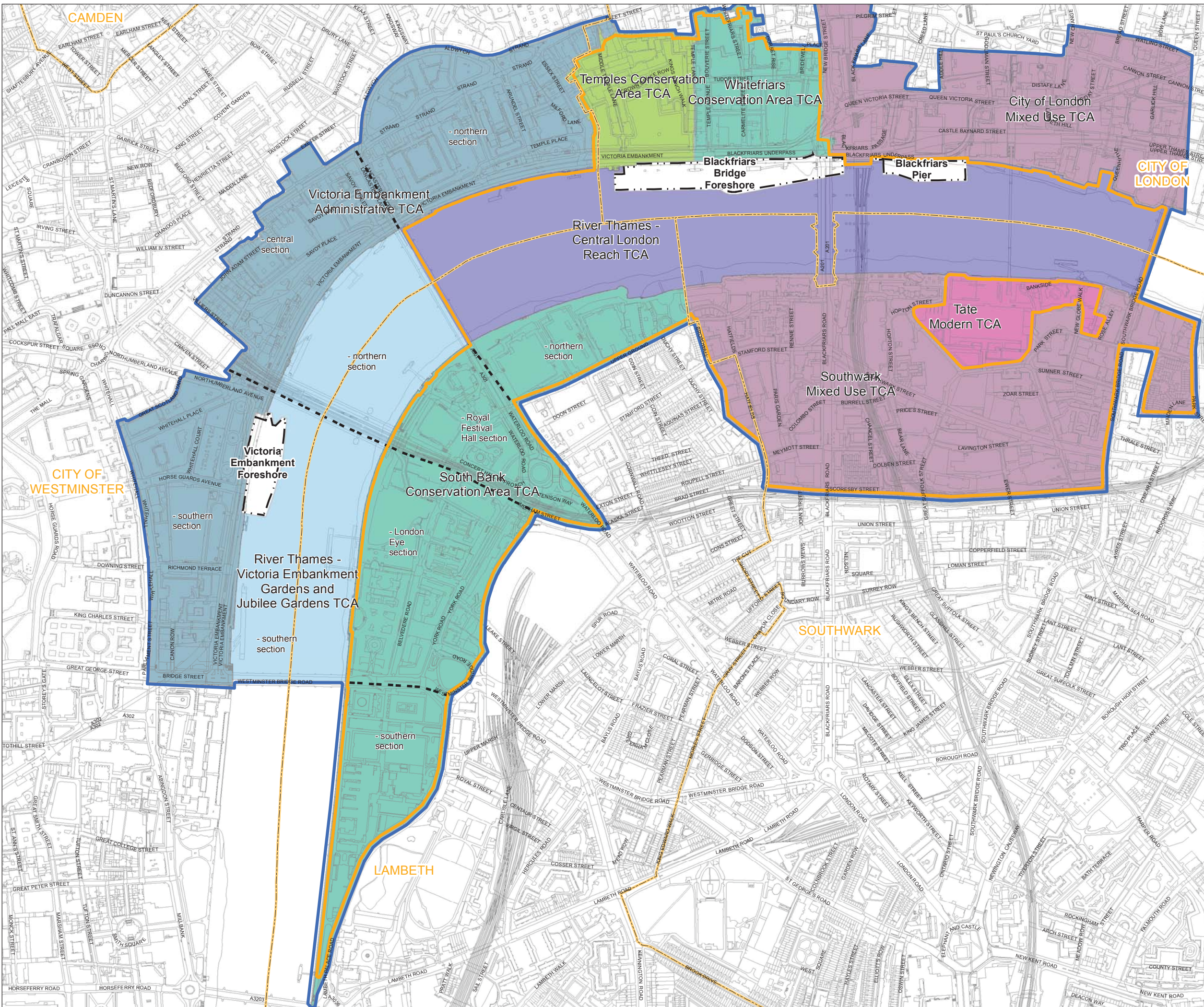
The colour fills shown on the plan are used to differentiate between townscape character areas



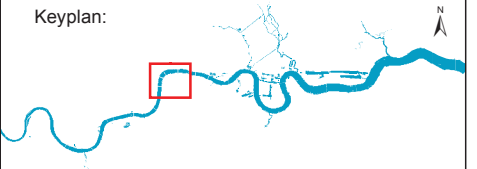
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Townscape and visual  
 Townscape character areas  
 Vol. 18 Figure 11.4.6  
 1PL03-TS-40469  
 January 2013

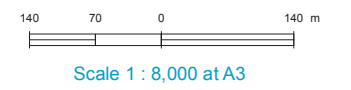


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**Key:**  
The zone of theoretical visibility (ZTV) is a computer generated model which indicates the theoretical visibility of the construction works (including cranes) and operational structures. As described in Volume 2 the ZTV is a starting point for defining the assessment area and for informing the assessment of likely significant effects. Theoretical visibility does not necessarily mean a location would be subject to adverse effects.

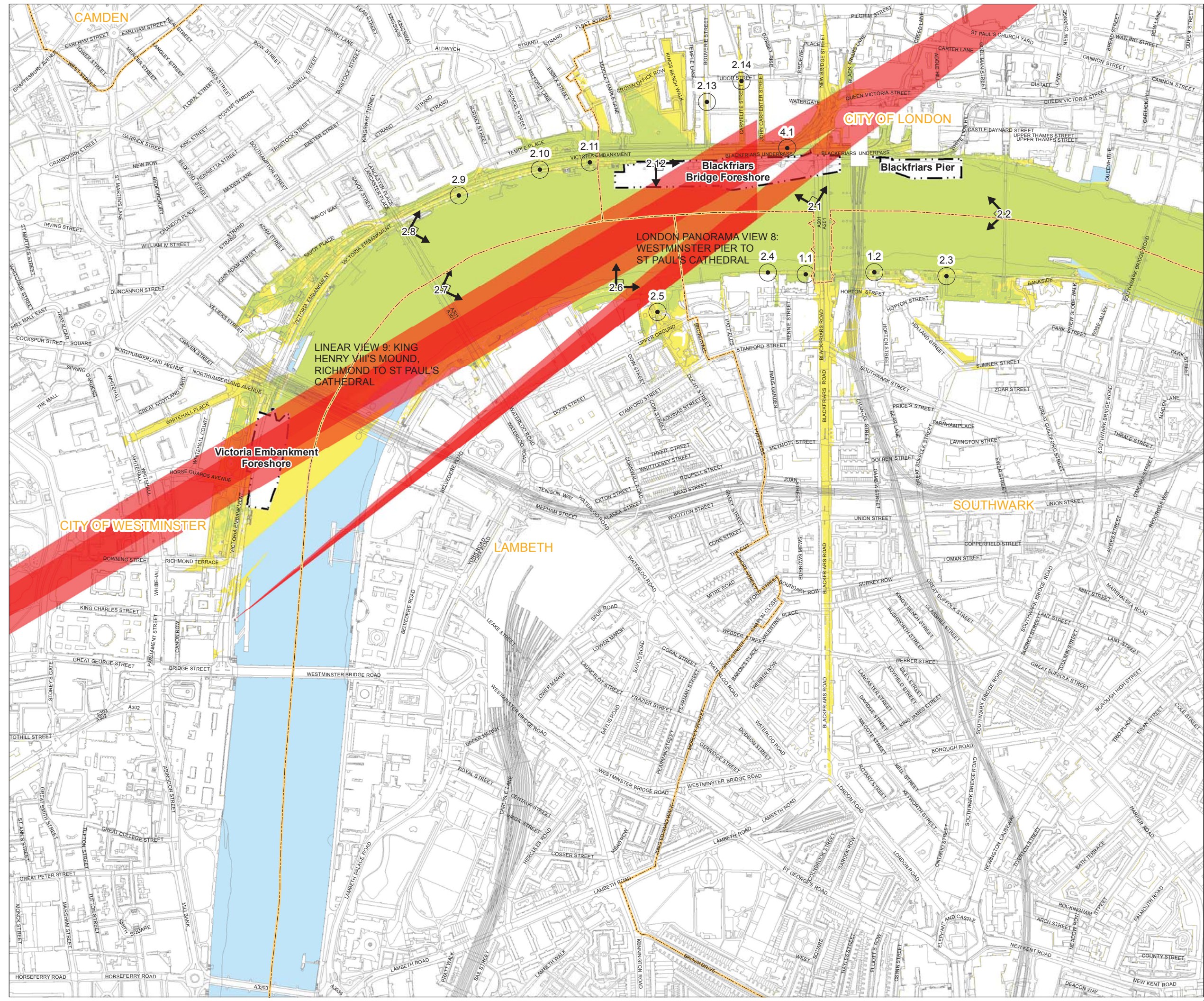
- Limits of Land
- to be Acquired or Used
- Local Authority boundary
- Visual assessment points
- Verifiable photomontage locations
- London View Management Framework (LVMF) London Panorama and Linear View
- Construction phase ZTV
- Operational phase ZTV
- River Thames and tidal tributaries



## FOR INFORMATION

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Environmental Statement**  
Townscape and visual Viewpoints  
Vol. 18 Figure 11.4.7  
1PL03-TS-40470  
January 2013



Current baseline

King's Reach Tower

Oxo Tower

President vessel

Millennium Pier

Sion College

Unilever House

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Keyplan:



**Technical information**

Location: Viewpoint 2.1: View northwest from Blackfriars Bridge  
Date taken: 17 March 2011  
Time taken: 15.13  
Tide position: High tide  
Focal length: 51.669mm

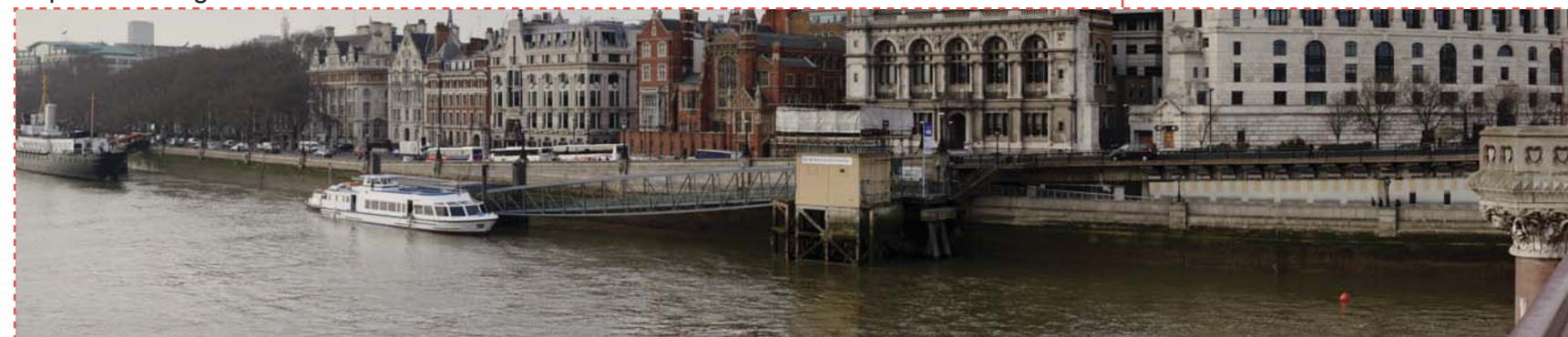
This verifiable photomontage shows an illustration of the site in Year 1 of operation. The layout of the proposed development may change within the zones shown on the Site works parameter plan [see volume of figures – Section 1], however the assessment of effects would be no worse than that described in the Environmental Statement Vol 18 Blackfriars Bridge Foreshore – Section 11 Townscape and visual.



Sea Containers House

Expanded image

Blackfriars Bridge



Operational phase verifiable photomontage



**FOR INFORMATION**

Expanded image

New seating terraces

Extended undercroft area

Ventilation columns  
New tree planting along Victoria Embankment  
New river wall



**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Environmental Statement**  
Townscape and visual  
Viewpoint 2.1  
Operational phase verifiable photomontage  
Vol 18 Figure 11.6.1  
1PL03-TS-40471  
January 2013



Current baseline

King's Reach Tower

Oxo Tower

President vessel

Millennium Pier

Unilever House

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Keyplan:



**Technical information**

Location: Viewpoint 2.1: View northwest from Blackfriars Bridge  
Date taken: 29 February 2012  
Time taken: 18.23  
Tide position: High tide  
Focal length: 51.693mm

This verifiable photomontage shows an illustration of the site in Year 1 of operation. The layout of the proposed development may change within the zones shown on the Site works parameter plan [see volume of figures – Section 1], however the assessment of effects would be no worse than that described in the Environmental Statement Vol 18 Blackfriars Bridge Foreshore – Section 11 Townscape and visual.



Sea Containers House

Expanded image



**Operational phase night time verifiable photomontage**



**FOR INFORMATION**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
Environmental Statement

Townscape and visual  
Viewpoint 2.1  
Operational phase verifiable photomontage  
Vol 18 Figure 11.6.2  
1PL03-TS-40472  
January 2013

Ventilation columns  
New tree planting along  
Victoria Embankment  
New river wall

Expanded image

New seating terraces

Extended undercroft area



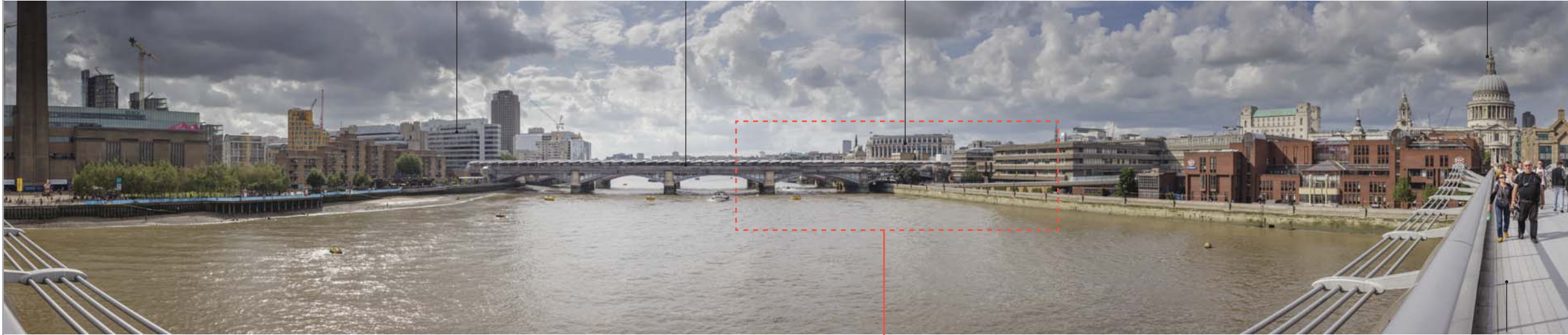
**Current baseline**

Sea Containers House

Blackfriars Bridge

Unilever House

St Paul's Cathedral



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Keyplan:

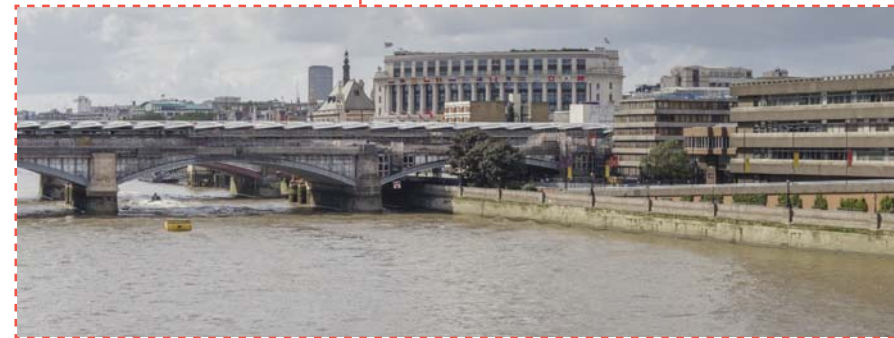


**Technical information**

Location: Viewpoint 2.2: View west from the Millennium Bridge (LVMF River Prospect)  
Date taken: 28 August 2012  
Time taken: 15.26  
Tide position: High tide  
Focal length: 51.693mm

This verifiable photomontage shows an illustration of the site in Year 1 of operation. The layout of the proposed development may change within the zones shown on the Site works parameter plan [see volume of figures – Section 1], however the assessment of effects would be no worse than that described in the Environmental Statement Vol 18 Blackfriars Bridge Foreshore – Section 11 Townscape and visual.

Expanded image

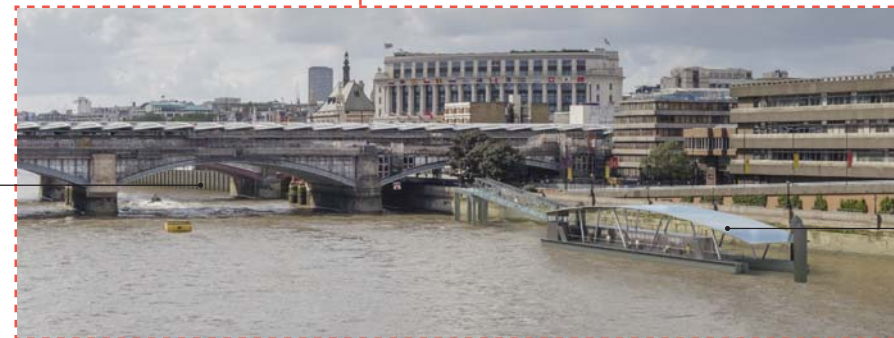


Millennium Bridge

**Operational phase verifiable photomontage**



Expanded image



New river wall

Relocated Millennium Pier

**FOR INFORMATION**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Environmental Statement**  
Townscape and visual  
Viewpoint 2.2  
Operational phase verifiable photomontage  
Vol 18 Figure 11.6.3  
1PL03-TS-40530  
January 2013



**Current baseline**

St Paul's Cathedral      Blackfriars Bridge      Oxo Tower



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**Technical information**  
 Location: Viewpoint 2.6: View northeast from Gabriel's Wharf viewing platform  
 Date taken: 17 March 2011  
 Time taken: 15.40  
 Tide position: High tide  
 Focal length: 51.690mm

This verifiable photomontage shows an illustration of the site in Year 1 of operation. The layout of the proposed development may change within the zones shown on the Site works parameter plan [see volume of figures – Section 1], however the assessment of effects would be no worse than that described in the Environmental Statement Vol 18 Blackfriars Bridge Foreshore – Section 11 Townscape and visual.

Globe House

Expanded image

Stone parapet



Millennium Pier

**Operational phase verifiable photomontage**



Expanded image

Ventilation columns



New tree planting along Victoria Embankment

New seating terraces leading up to road level

New river wall

**FOR INFORMATION**

**Location**  
 Blackfriars Bridge Foreshore  
 City of London

**Document Information**  
**Environmental Statement**  
 Townscape and visual  
 Viewpoint 2.6  
 Operational phase verifiable photomontage  
 Vol 18 Figure 11.6.4  
 1PL03-TS-40473  
 January 2013



**Current baseline**

St Paul's Cathedral    Blackfriars Bridge    Oxo Tower



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**Technical information**  
 Location: Viewpoint 2.6: View northeast from Gabriel's Wharf viewing platform  
 Date taken: 29 February 2012  
 Time taken: 18.03  
 Tide position: High tide  
 Focal length: 51.677mm

This verifiable photomontage shows an illustration of the site in Year 1 of operation. The layout of the proposed development may change within the zones shown on the Site works parameter plan [see volume of figures – Section 1], however the assessment of effects would be no worse than that described in the Environmental Statement Vol 18 Blackfriars Bridge Foreshore – Section 11 Townscape and visual.

Globe House

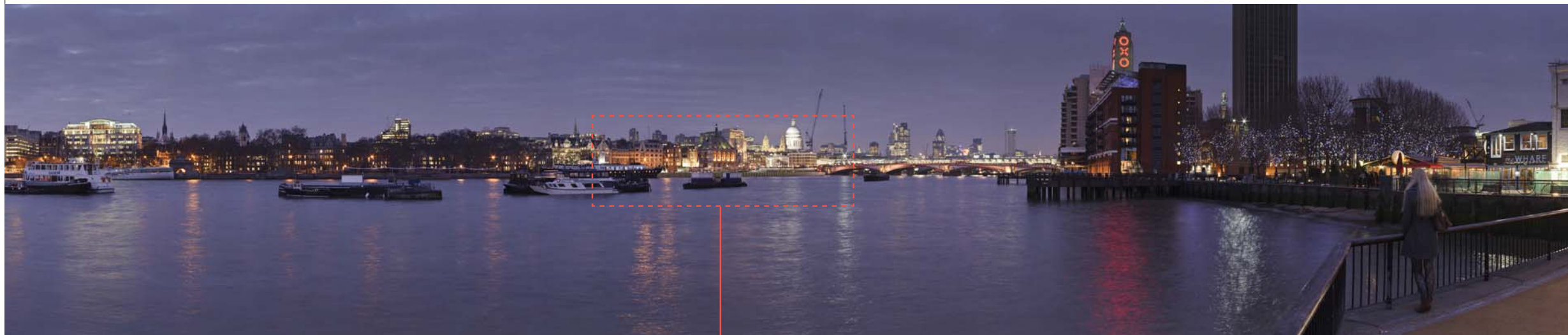
Expanded image

Stone parapet



Millennium Pier

**Operational phase night time verifiable photomontage**



Expanded image

Ventilation columns



New seating terraces leading up to road level

New river wall

**FOR INFORMATION**

**Location**  
 Blackfriars Bridge Foreshore  
 City of London

**Document Information**  
**Environmental Statement**  
 Townscape and visual  
 Viewpoint 2.6  
 Operational phase verifiable photomontage  
 Vol 18 Figure 11.6.5  
 1PL03-TS-40474  
 January 2013



**Current baseline**

St Paul's Cathedral

Blackfriars Bridge

Oxo Tower



**Expanded image**



Millennium Pier

**Operational phase verifiable photomontage**



**Expanded image**



Ventilation columns

River wall  
New tree planting along Victoria Embankment

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Keyplan:



**Technical information**

Location: Viewpoint 2.7: View northeast from Waterloo Bridge  
Date taken: 28 August 2012  
Time taken: 14.27  
Tide position: High tide  
Focal length: 51.686

This verifiable photomontage shows an illustration of the site in Year 1 of operation. The layout of the proposed development may change within the zones shown on the Site works parameter plan [see volume of figures – Section 1], however the assessment of effects would be no worse than that described in the Environmental Statement Vol 18 Blackfriars Bridge Foreshore – Section 11 Townscape and visual.

**FOR INFORMATION**

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Environmental Statement**  
Townscape and visual  
Viewpoint 2.7  
Operational phase verifiable photomontage  
Vol 18 Figure 11.6.6  
1PL03-TS-40531  
January 2013

Thames Tideway Tunnel  
Creating a cleaner, healthier River Thames





**Current baseline**

St Paul's Cathedral      Sion College      Blackfriars Bridge



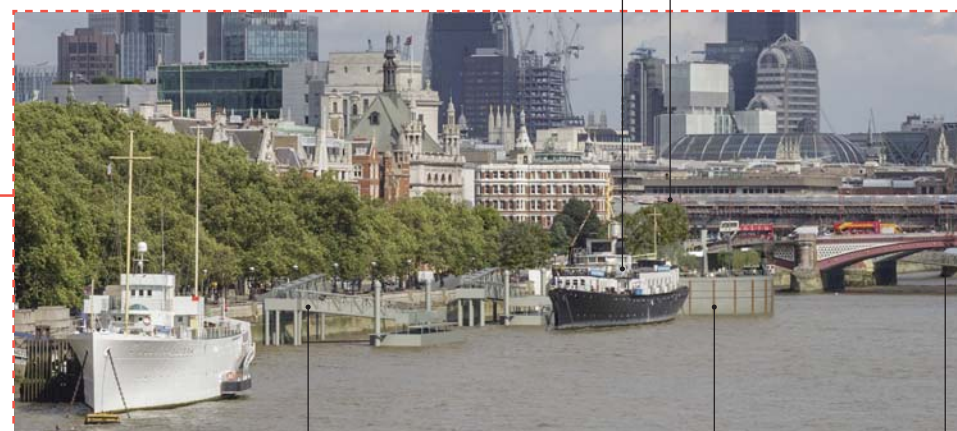
**Expanded image**



**Operational phase verifiable photomontage**



**Expanded image**



New mooring facilities at Chrysanthemum Pier (provided by others)      New river wall      Relocated Millennium Pier

New tree planting along Victoria Embankment

Ventilation columns

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Keyplan:

**Technical information**  
 Location: Viewpoint 2.8: View east from the northern end of Waterloo Bridge  
 Date taken: 28 August 2012  
 Time taken: 14.50  
 Tide position: High tide  
 Focal length: 51.692mm

This verifiable photomontage shows an illustration of the site in Year 1 of operation. The layout of the proposed development may change within the zones shown on the Site works parameter plan [see volume of figures – Section 1], however the assessment of effects would be no worse than that described in the Environmental Statement Vol 18 Blackfriars Bridge Foreshore – Section 11 Townscape and visual.

**FOR INFORMATION**

**Location**  
 Blackfriars Bridge Foreshore  
 City of London

**Document Information**  
 Environmental Statement  
 Townscape and visual  
 Viewpoint 2.8  
 Operational phase verifiable photomontage  
 Vol 18 Figure 11.6.7  
 1PL03-TS-40532  
 January 2013



**Current baseline**

President vessel

Sea Containers House

Oxo Tower

London Television Centre

Shell Centre

London Eye

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Keyplan:



**Technical information**

Location: Viewpoint 2.12: View east and southwest from the Thames Path opposite Temple Place  
 Date taken: 17 March 2011  
 Time taken: 15.00  
 Tide position: High tide  
 Focal length: 51.673mm

This verifiable photomontage shows an illustration of the site in Year 1 of operation. The layout of the proposed development may change within the zones shown on the Site works parameter plan [see volume of figures – Section 1], however the assessment of effects would be no worse than that described in the Environmental Statement Vol 18 Blackfriars Bridge Foreshore – Section 11 Townscape and visual.

Thames Path

Expanded image



Royal National Theatre

**Operational phase verifiable photomontage**



Expanded image



New mooring facilities

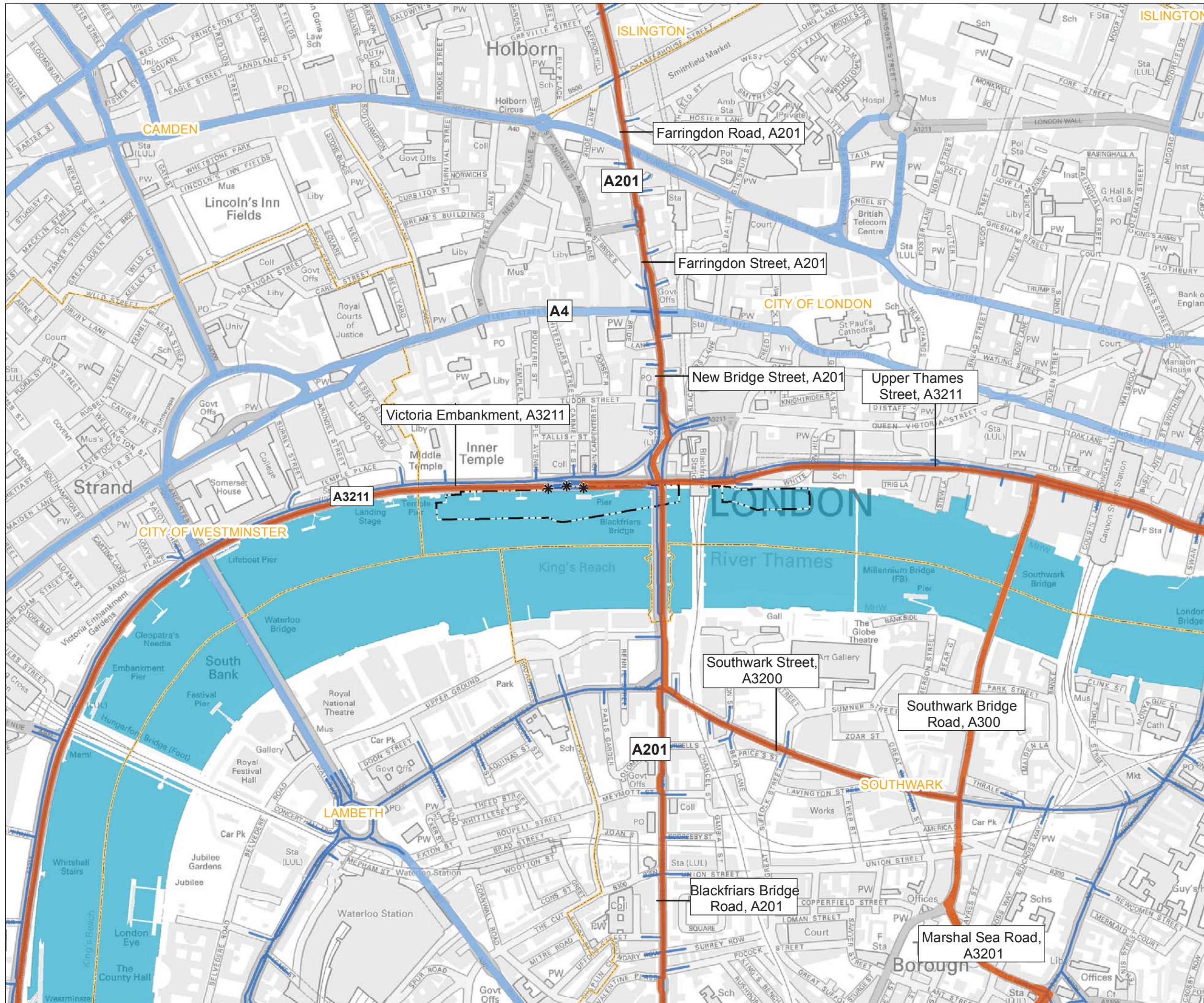
New mooring facilities at Chrysanthemum Pier (provided by others)

**FOR INFORMATION**

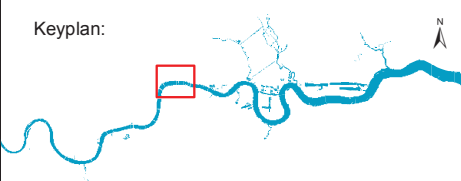
**Location**  
 Blackfriars Bridge Foreshore  
 City of London

**Document Information**  
**Environmental Statement**  
 Townscape and visual  
 Viewpoint 2.12  
 Operational phase verifiable photomontage  
 Vol 18 Figure 11.6.8  
 1PL03-TS-40475  
 January 2013

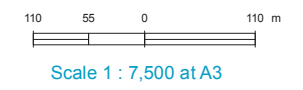




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- Key**
- \* Site access
  - TFL road network
  - Strategic road network
  - Primary construction route
  - Limits of Land to be Acquired or Used
  - - - Local authority boundary



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City Of London

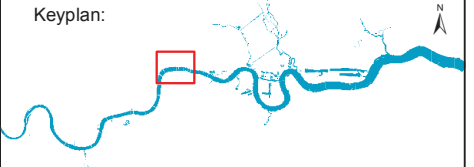
**Document Information**  
**Environmental Statement**  
 Transport - construction traffic routes





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 1PL03-TT-50449  
 January 2013

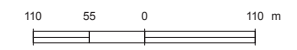




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- Key**
-  TFL road network
  -  Strategic road network
  -  Limits of Land to be Acquired or Used
  -  Local authority boundary



Scale 1 : 7,500 at A3

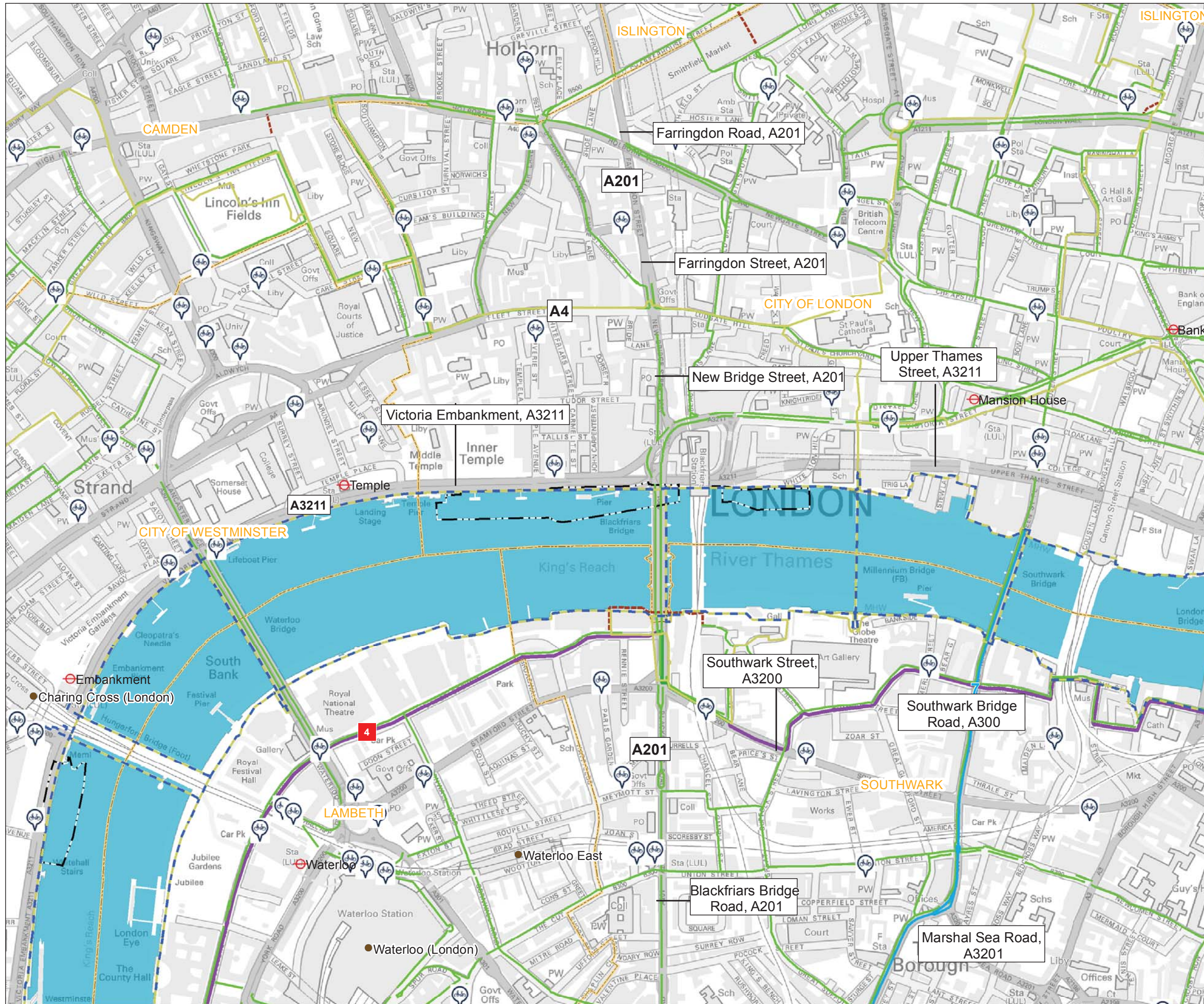
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City Of London

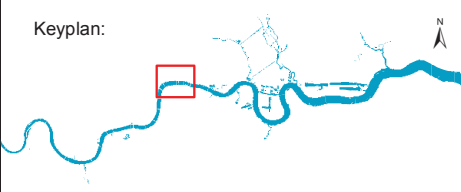
**Document Information**  
**Environmental Statement**  
 Transport - site location plan

Vol.18 Figure 12.4.1  
 1PL03-TT-50457  
 January 2013

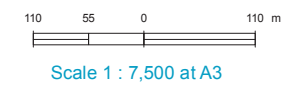




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- Key**
- National rail stations with cycle parking
  - Underground Stations with cycle parking
  - Barclays cycle hire docking stations
  - London strategic walk network
  - Cycle superhighway (open)
  - London cycle routes
  - Thames path
  - Pedestrian routes
  - National cycle network**
  - Route Type**
  - Open Traffic Free
  - Open on-road
  - Limits of Land to be Acquired or Used
  - Local authority boundary



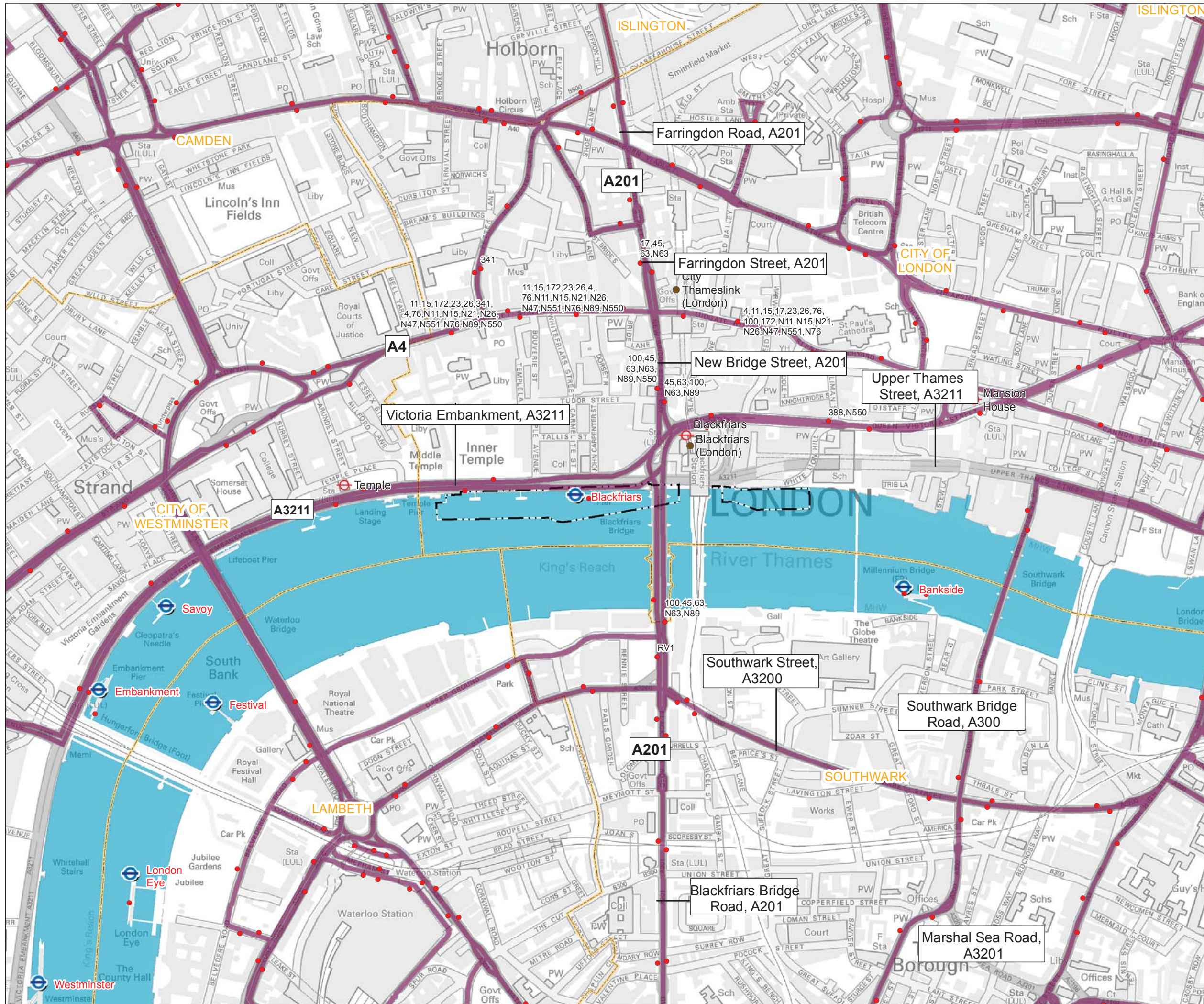
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City Of London

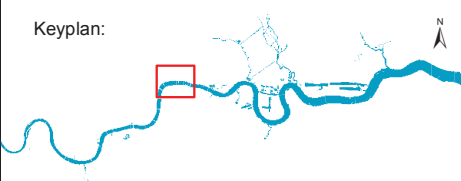
**Document Information**  
**Environmental Statement**  
 Transport - pedestrian and cycle network

Vol.18 Figure 12.4.2  
 1PL03-TT-50465  
 January 2013

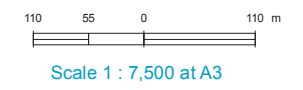




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- Key**
- TFL bus stops
  - National rail stations
  - London underground stations
  - Pier locations
  - TfL bus routes
  - Limits of Land to be Acquired or Used
  - Local authority boundary



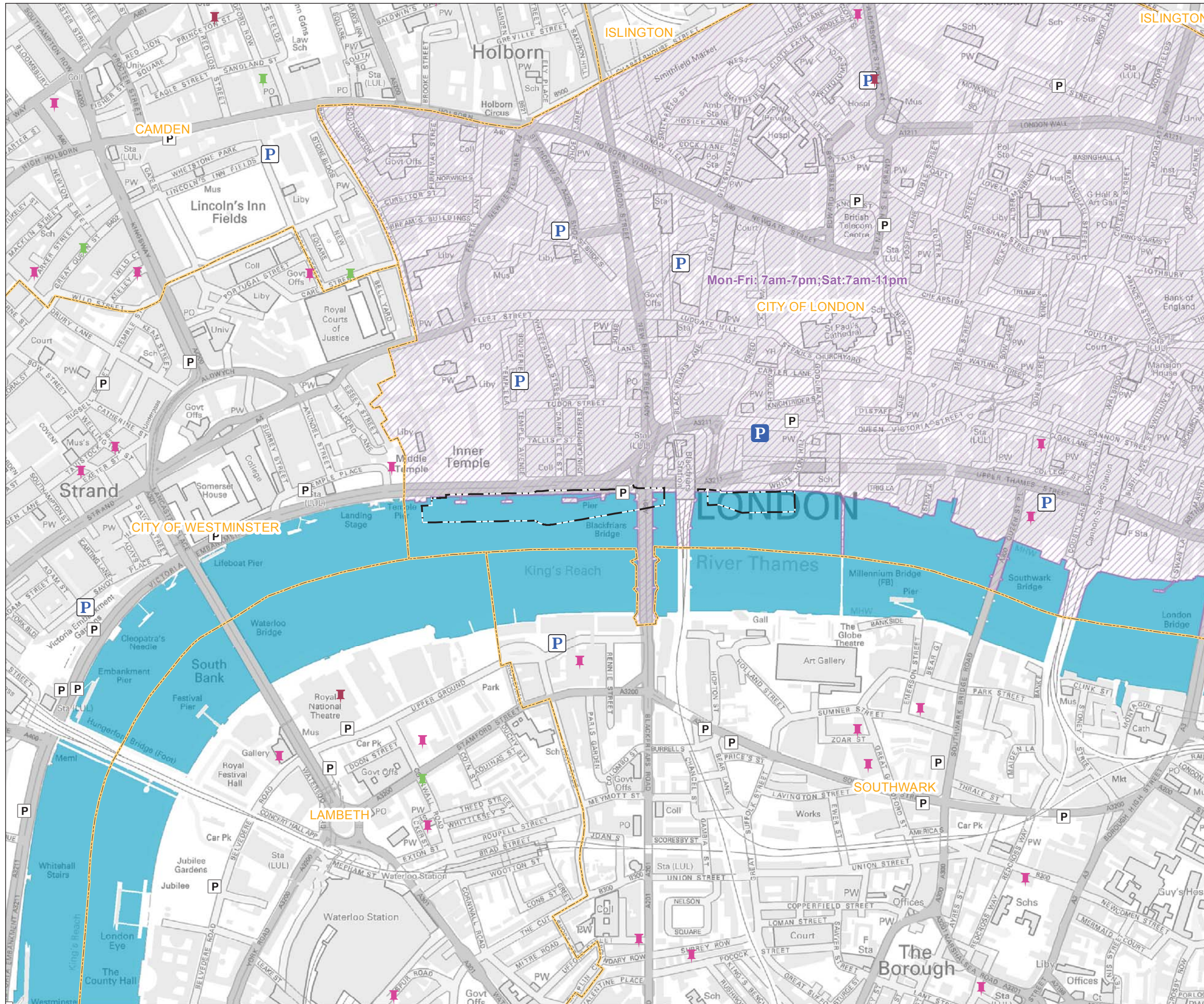
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City Of London

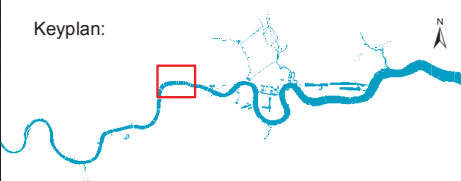
**Document Information**  
**Environmental Statement**  
 Transport - public transport

Vol.18 Figure 12.4.3  
 1PL03-TT-50473  
 January 2013

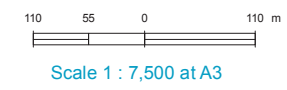




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- Key**
- Council parking
  - Private car parking
  - Coach Parking
  - Zip Car
  - Hertz on Demand
  - City Car
  - Controlled Parking Zones and hours of operation
  - Limits of Land to be Acquired or Used
  - Local authority boundary



## FOR INFORMATION

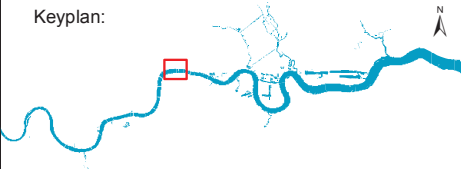
**Location**  
**Blackfriars Bridge Foreshore**  
 City Of London

**Document Information**  
**Environmental Statement**  
 Transport - parking

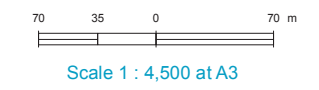
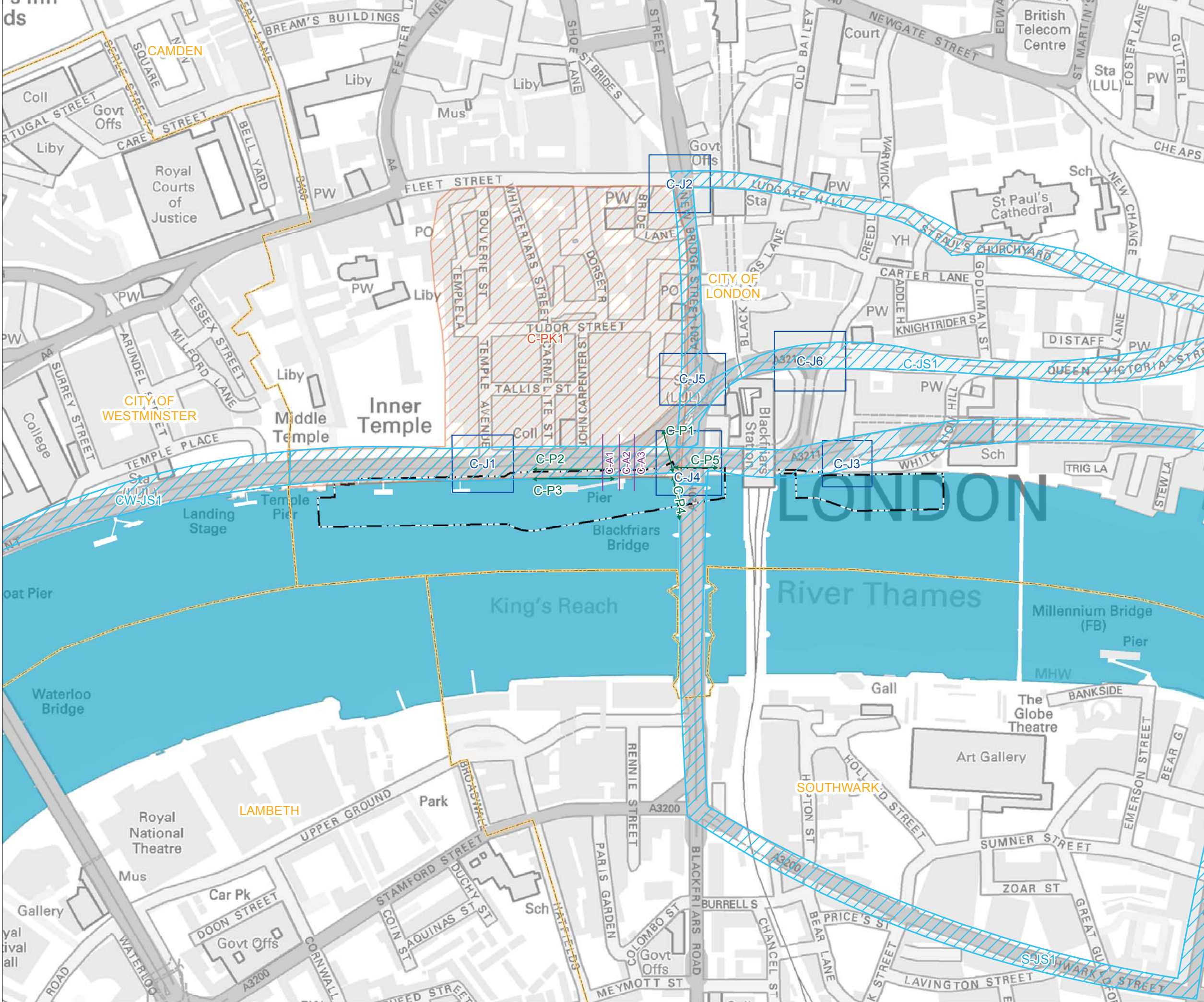
Vol.18 Figure 12.4.4  
 1PL03-TT-50481  
 January 2013



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- Key**
- Automatic traffic count surveys
  - Pedestrian and cycle surveys
  - Junction surveys
  - Journey time surveys
  - Parking surveys
  - Limits of Land to be Acquired or Used
  - Local authority boundary



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City Of London

**Document Information**  
**Environmental Statement**  
 Transport - survey locations

Vol.18 Figure 12.4.5  
 1PL03-TT-50489  
 January 2013

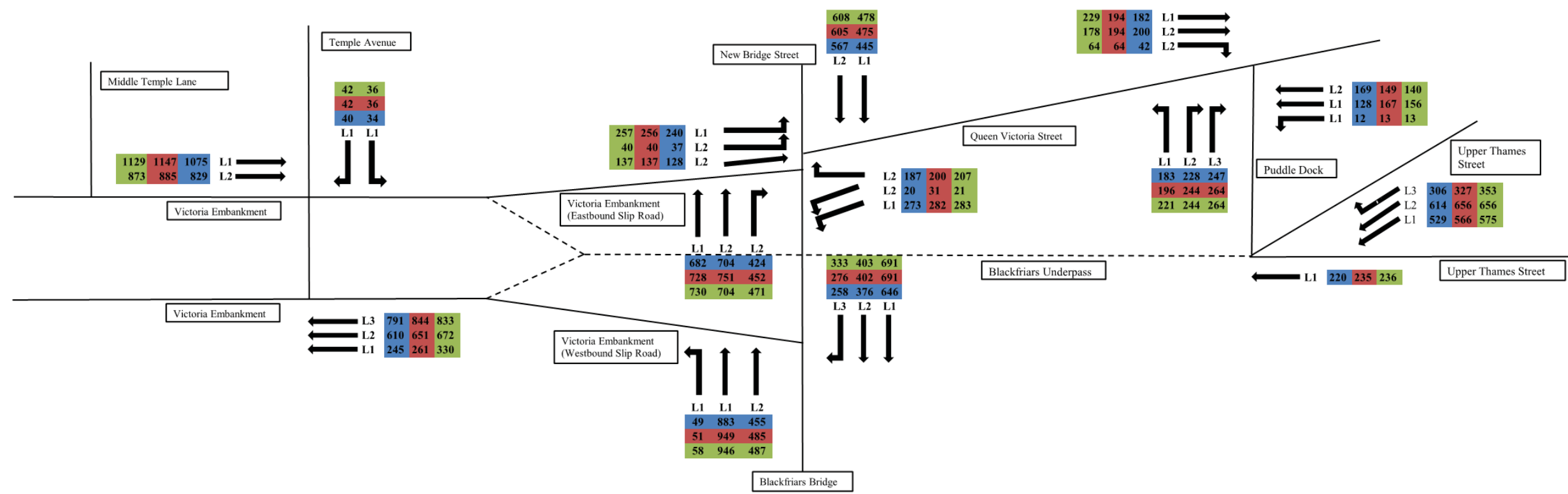






Key

- Base Traffic Flow
- Construction Base
- Development Case

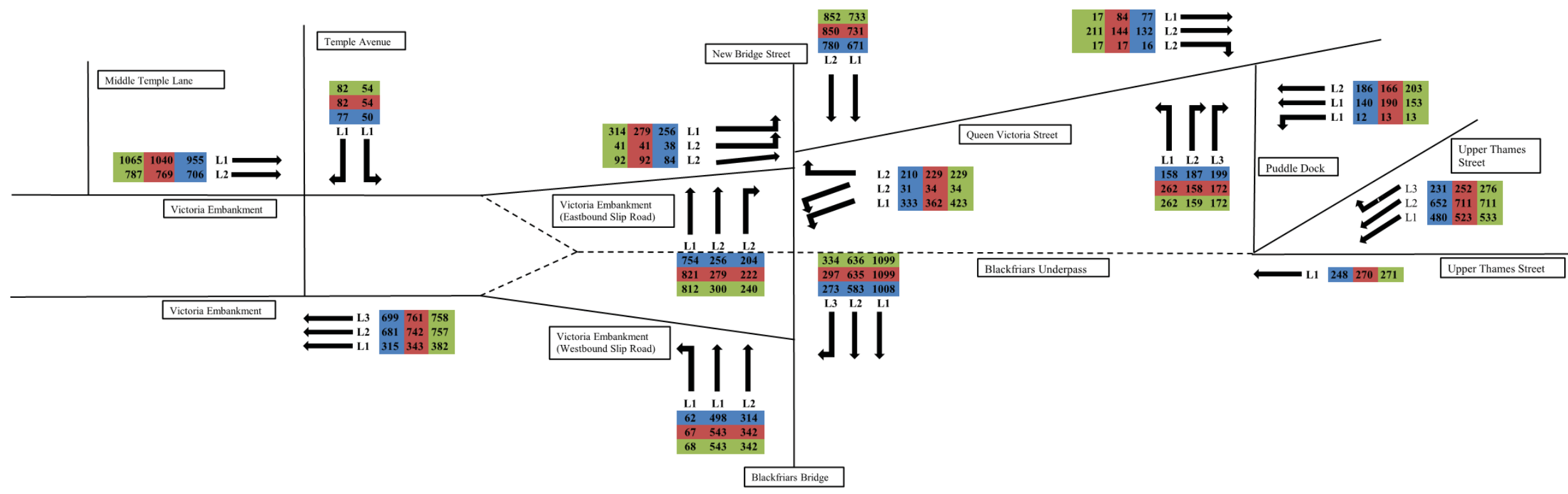


## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Transport - Baseline, Construction and Development case traffic flow (AM peak hour)  
 Vol.18 Figure 12.4.6  
 1PL03-TT-508560  
 January 2013



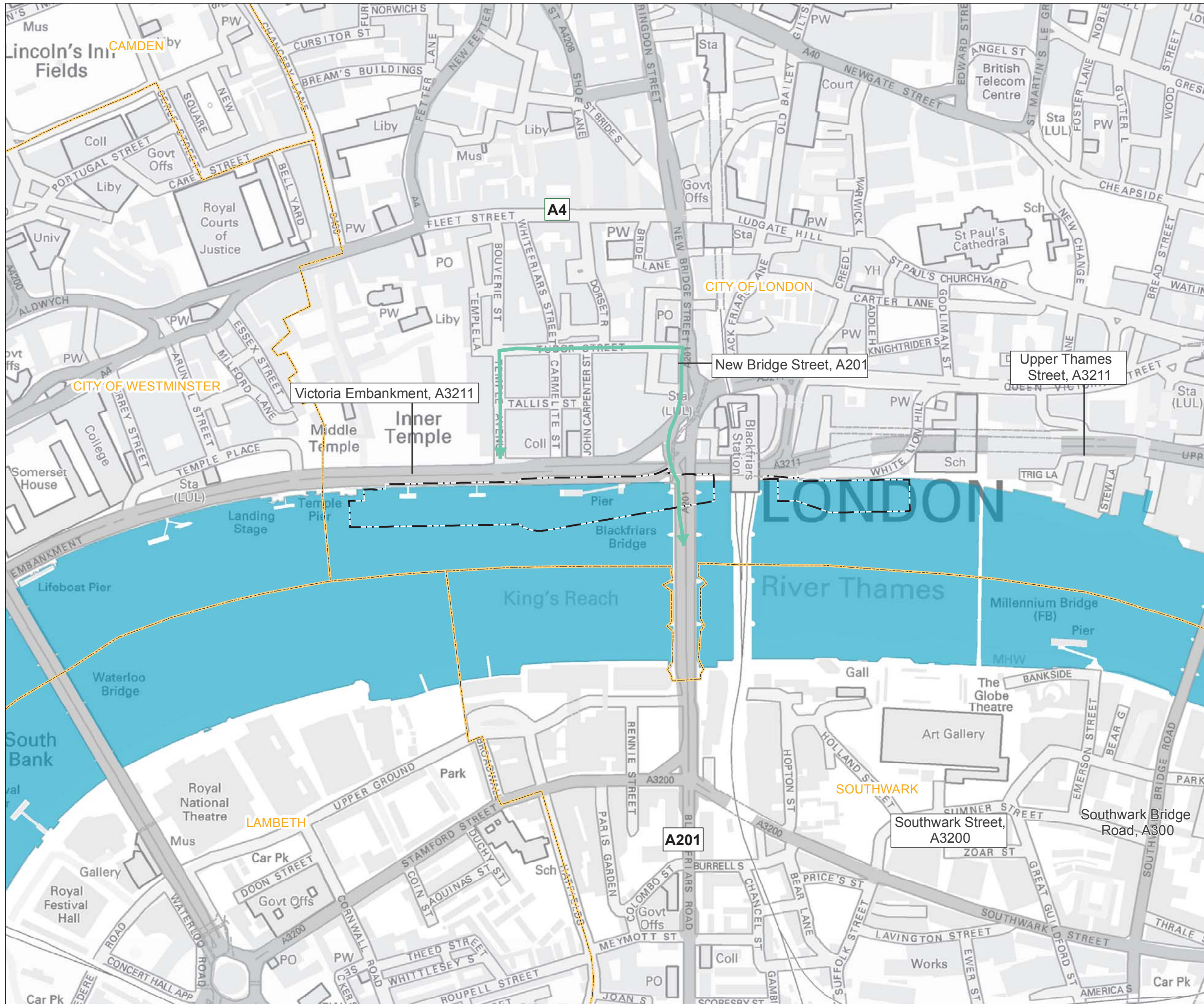


## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Transport - Baseline, Construction and Development case traffic flow (PM peak hour)  
 Vol 18 Figure 12.4.7  
 1PL03-TT-50908  
 January 2013

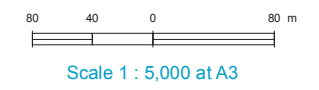




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- Key**
- Proposed cycle diversion
  - Limits of Land to be Acquired or Used
  - Local authority boundary



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City Of London

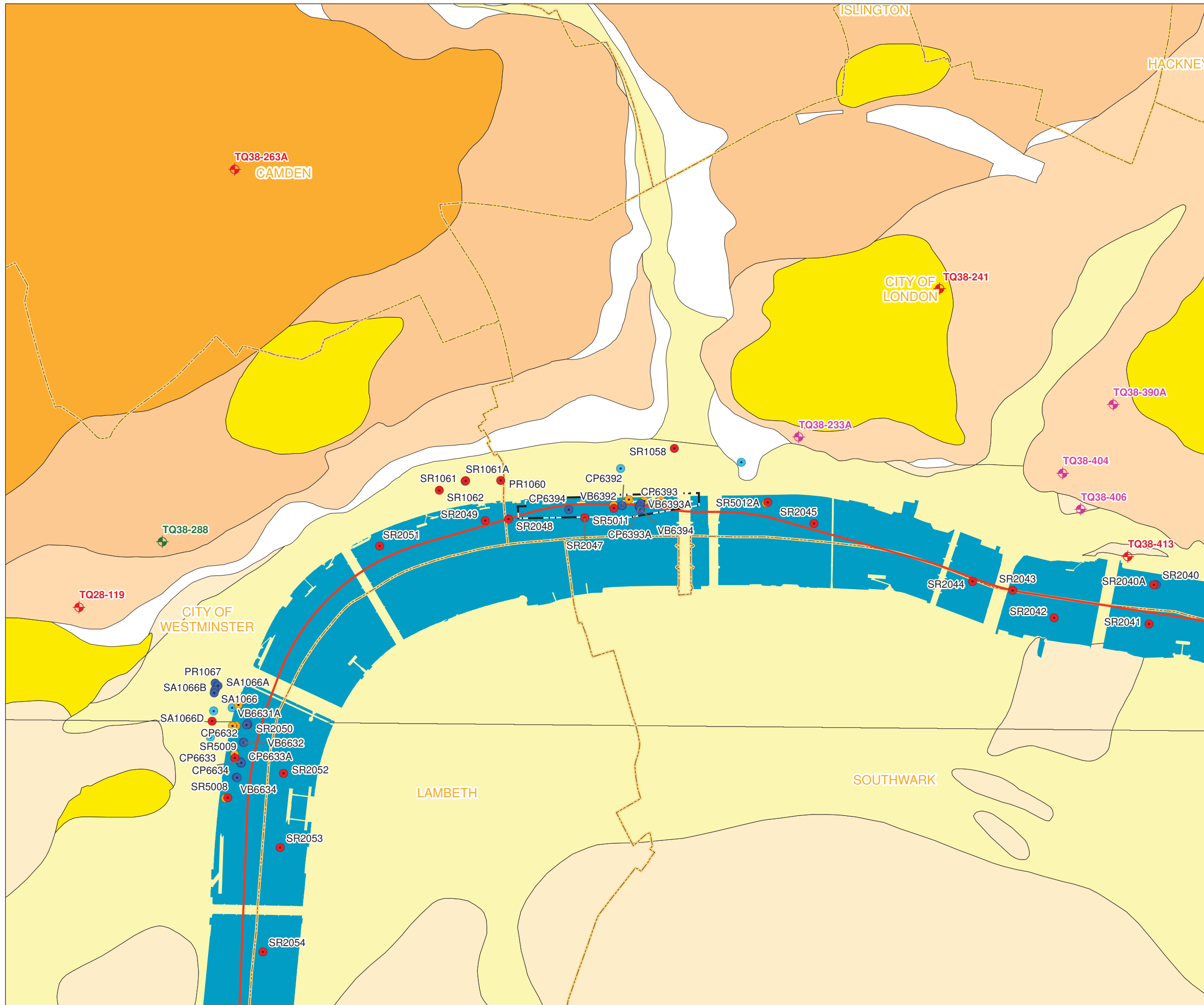
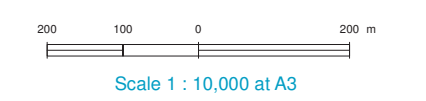
**Document Information**  
**Environmental Statement**  
 Transport - cycle diversion for Blackfriars Bridge Foreshore - construction phase 3  
 Vol.18 Figure 12.5.1  
 1PL03-TT-50546  
 January 2013



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- Key**
- Limits of Land to be Acquired or Used
  - Thames Tideway Tunnel
  - Main Tunnel
  - Local Authority Boundary
  - Drilled Boreholes
  - Depth (m)
    - 0 - 10
    - 10 - 30
    - 30+
  - Proposed Boreholes
    - Water
    - Land
  - EA Groundwater Level Monitoring Locations
    - ◆ Historical Data Available
    - ◆ Data Not Available
    - ◆ Recent Data Available
  - Superficial Geology
    - Alluvium
    - Kempton Park Gravel Member
    - Langley Silt Member
    - Taplow Gravel Formation
    - Lynch Hill Gravel Member
    - Hackney Gravel Member



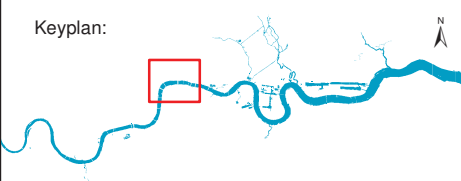
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Water resources – groundwater - superficial geology  
 Vol.18 Figure 13.4.1  
 1PL03-WR-20162  
 January 2013



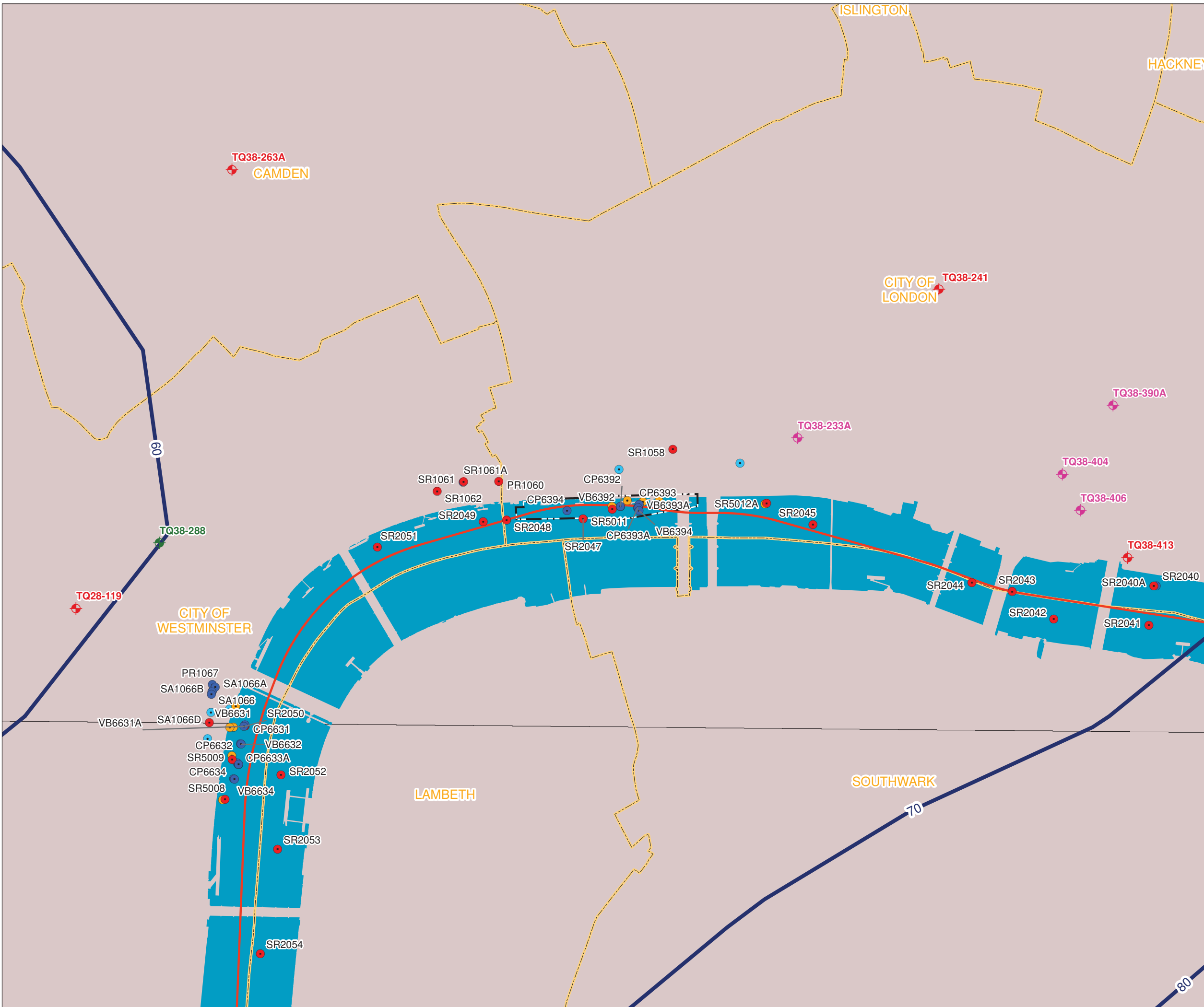
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**Key**

- Limits of Land to be Acquired or Used
- Thames Tideway Tunnel
  - Main Tunnel
  - Local Authority Boundary
- Drilled Boreholes
  - Depth (m)
    - 0 - 10
    - 10 - 30
    - 30+
  - Proposed Boreholes
    - Water
    - Land
  - EA Groundwater Level Monitoring Locations
    - Historical Data Available
    - Data Not Available
    - Recent Data Available
    - EA Chalk piezometric level (mATD) - Jan 11
  - Solid Geology
    - London Clay Formation

200 100 0 200 m  
Scale 1 : 10,000 at A3

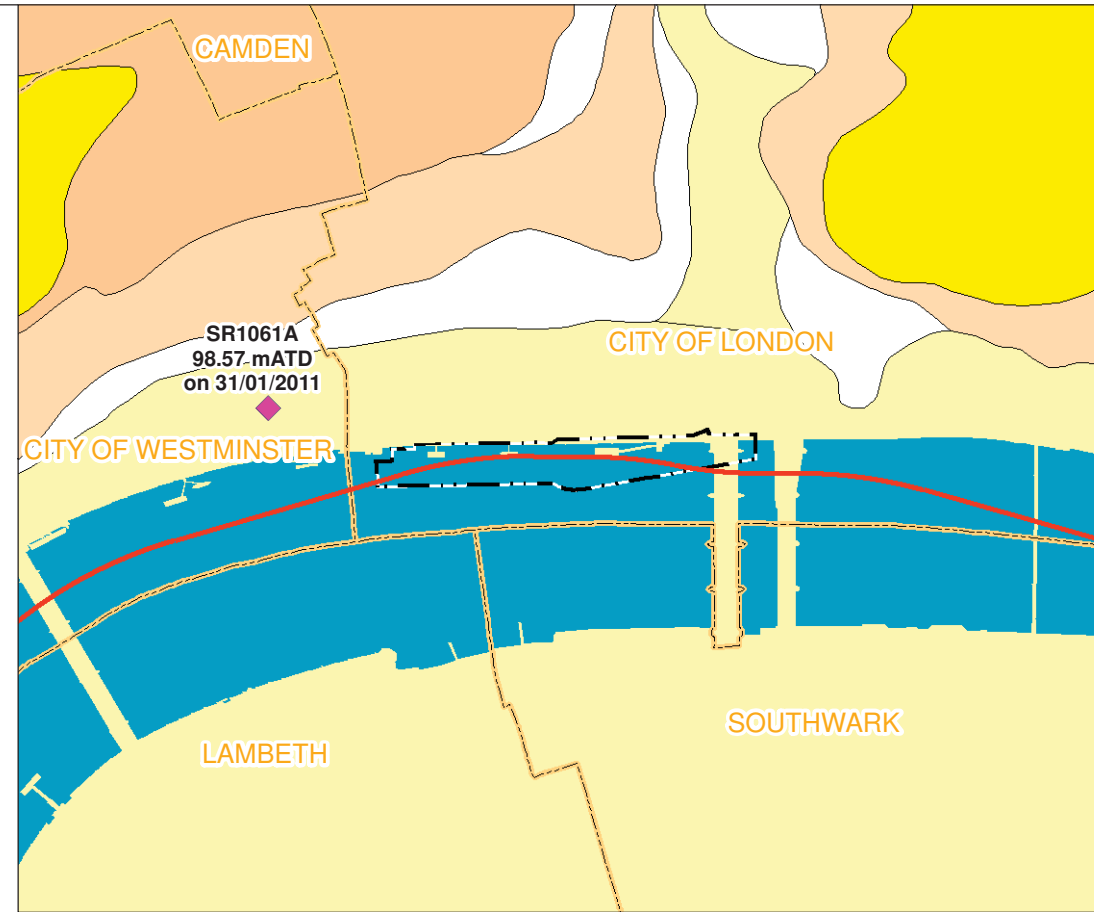
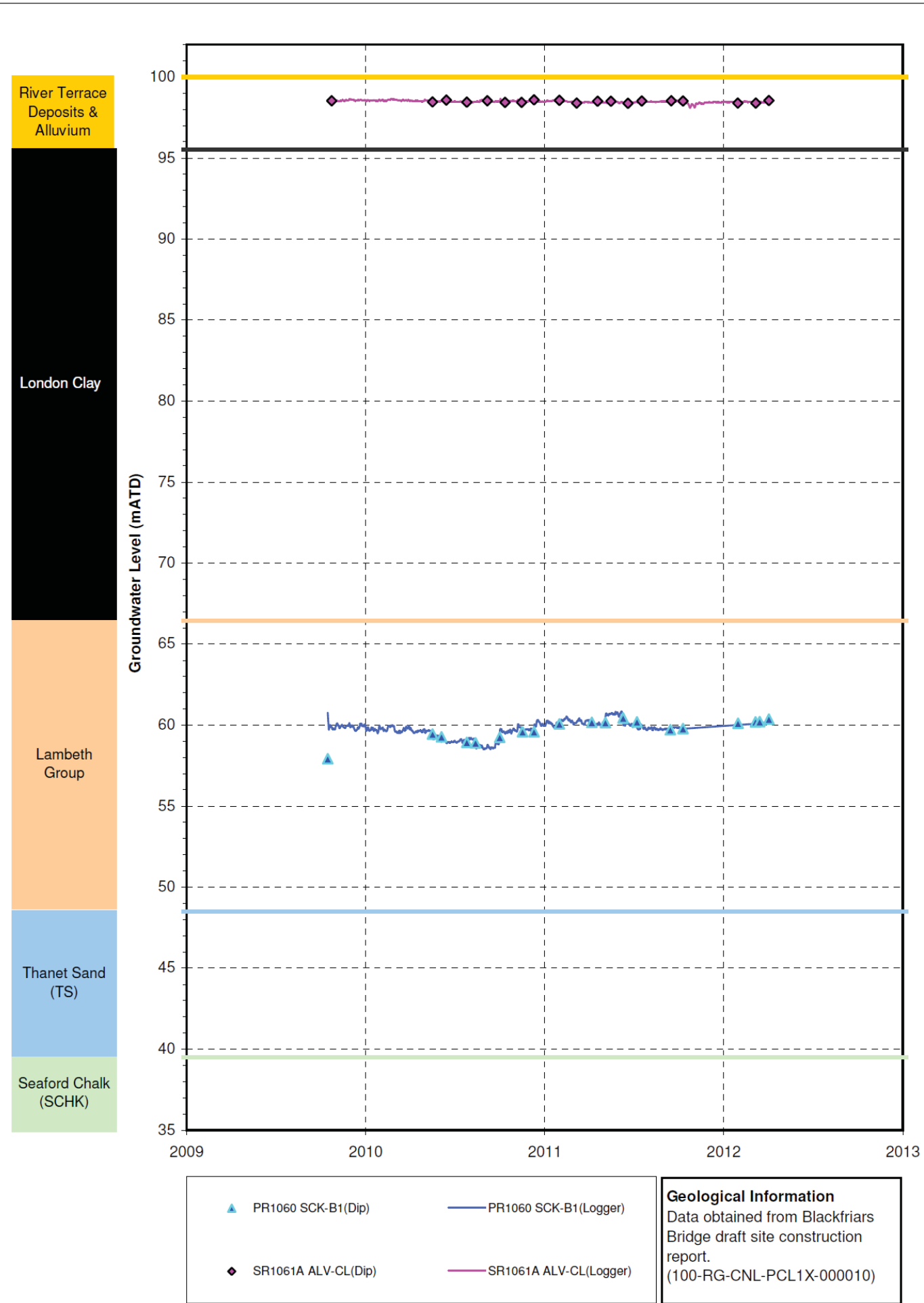


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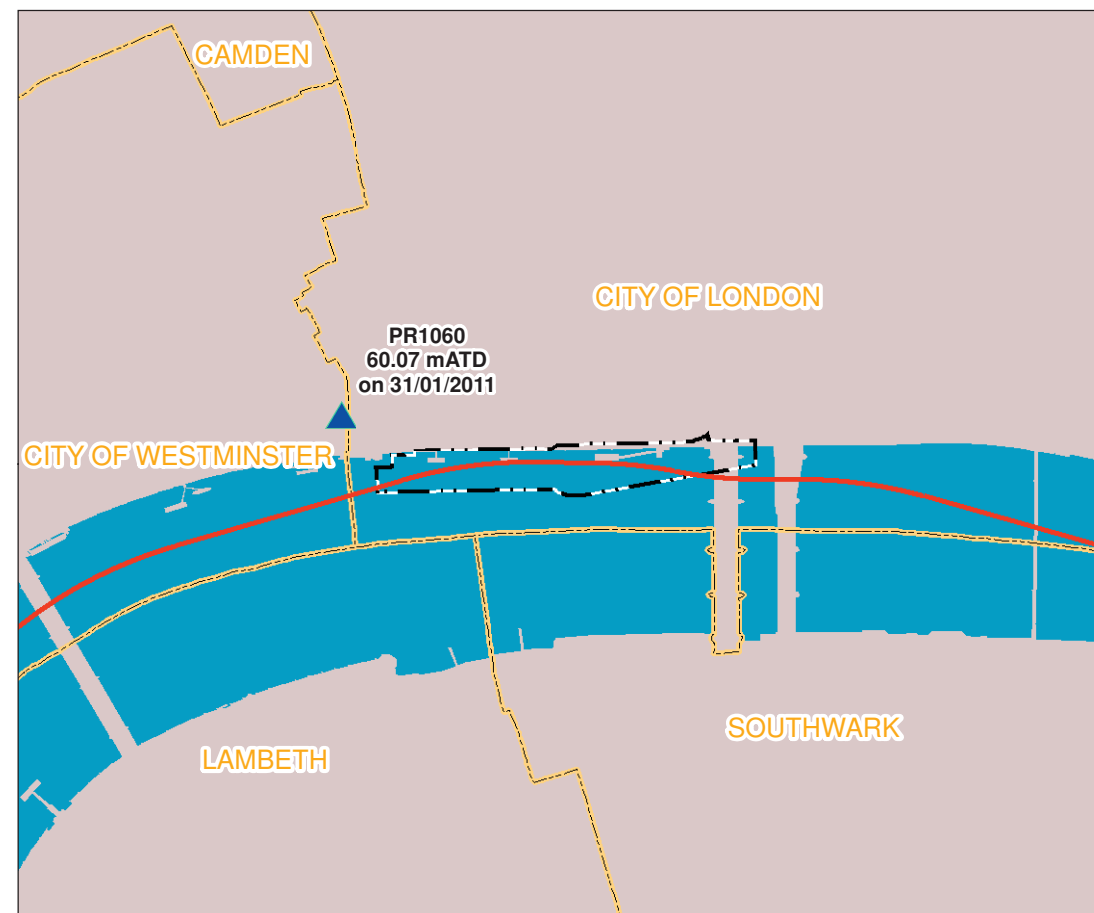
**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Water resources – groundwater - solid geology  
 Vol.18 Figure 13.4.2  
 1PL03-WR-20163  
 January 2013





Upper aquifer monitoring locations

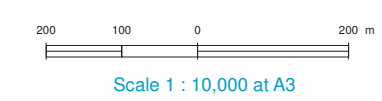


Lower aquifer monitoring locations

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- Key**
- Limits of Land to be Acquired or Used
  - Thames Tideway Tunnel
    - Main Tunnel
    - Local Authority Boundary
  - Drilled Boreholes Upper Aquifer Water Levels
    - ◆ SR1061A
  - Drilled Boreholes Lower Aquifer Water Levels
    - ▲ PR1060
  - Superficial Geology
    - Alluvium
    - Kempton Park Gravel Member
    - Langley Silt Member
    - Taplow Gravel Formation
    - Hackney Gravel Member
  - Solid Geology
    - London Clay Formation

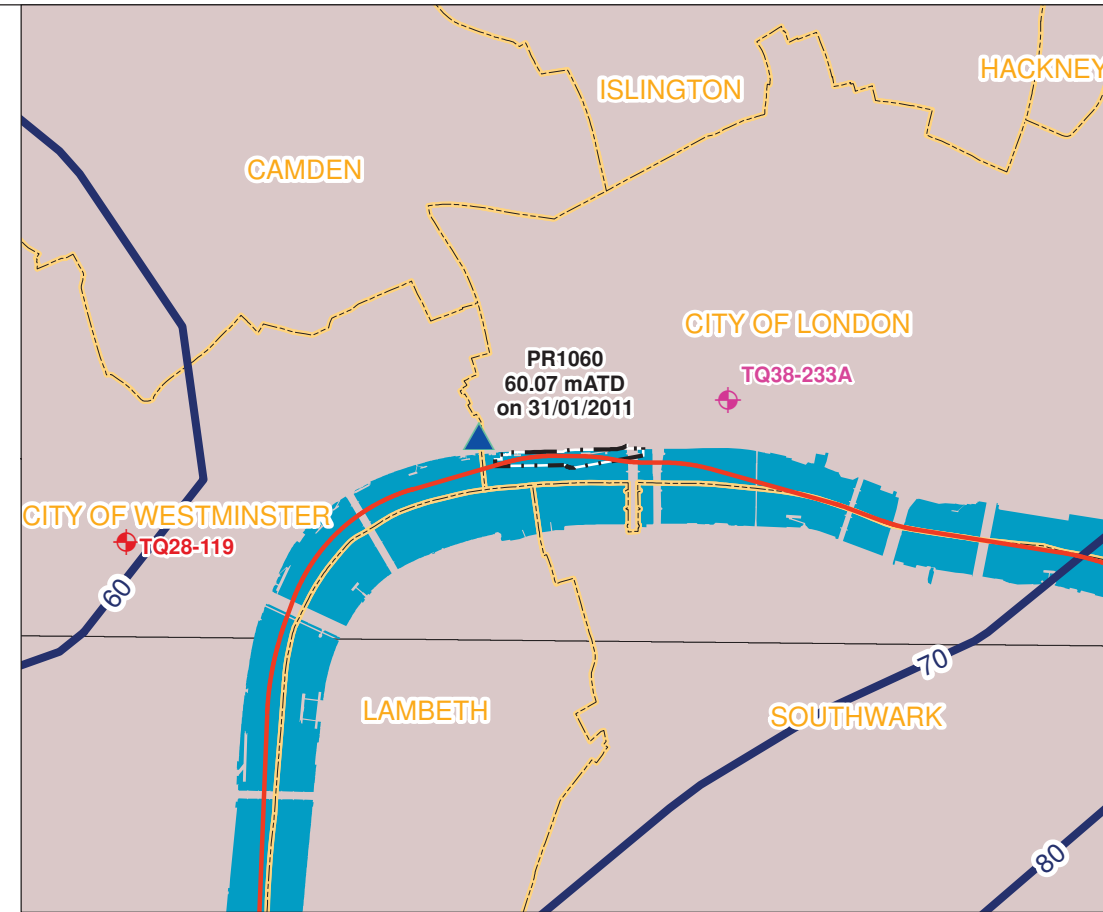
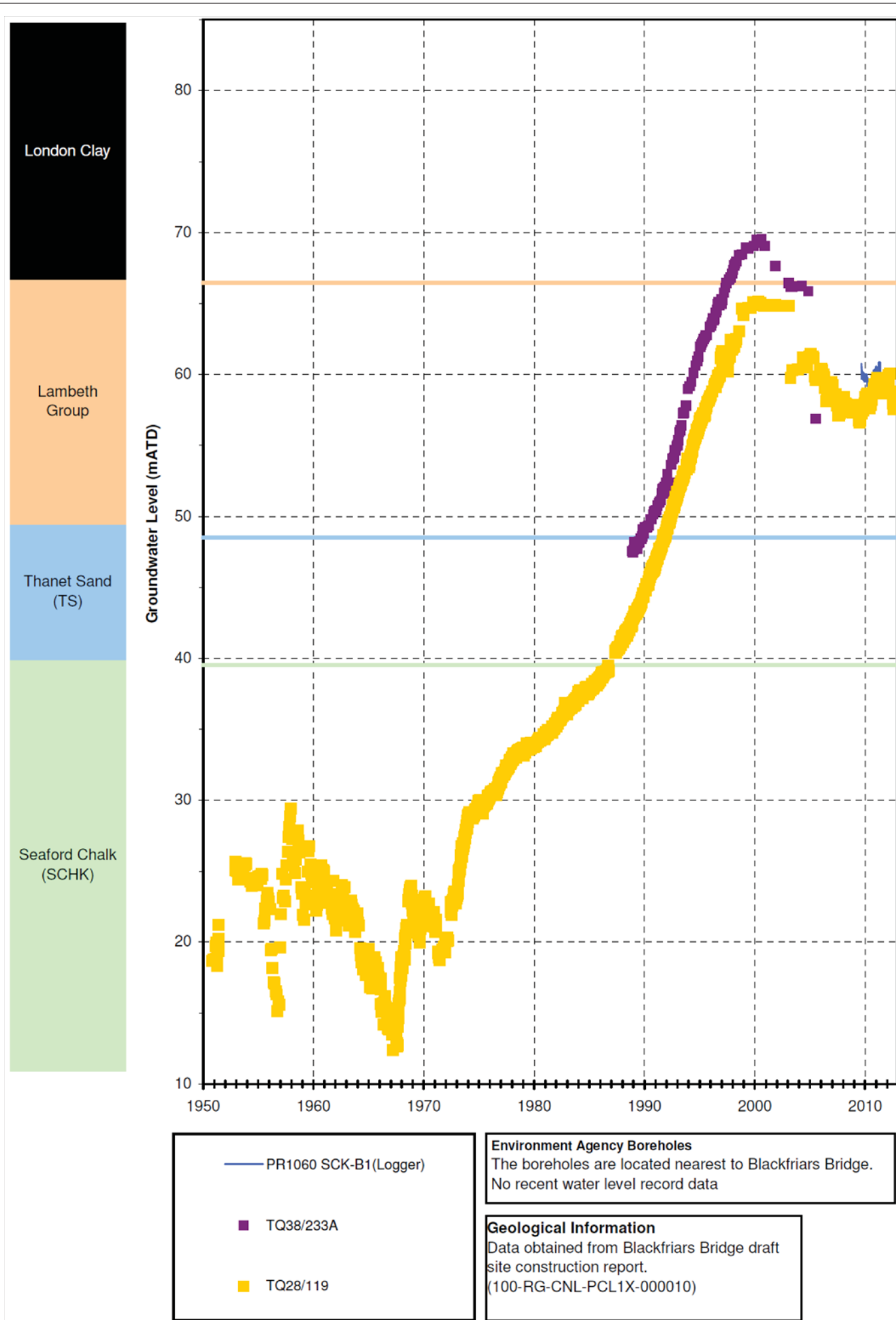


**FOR INFORMATION**

**Location**  
 Blackfriars Bridge Foreshore  
 City of London

**Document Information**  
 Environmental Statement  
 Water resources – groundwater - monitoring locations  
 Vol.18 Figure 13.4.3  
 1PL03-WR-20164  
 January 2013





Long term groundwater level monitoring

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Keyplan:

Scale 1 : 25,000 at A3

**FOR INFORMATION**

**Location**  
 Blackfriars Bridge Foreshore  
 City of London

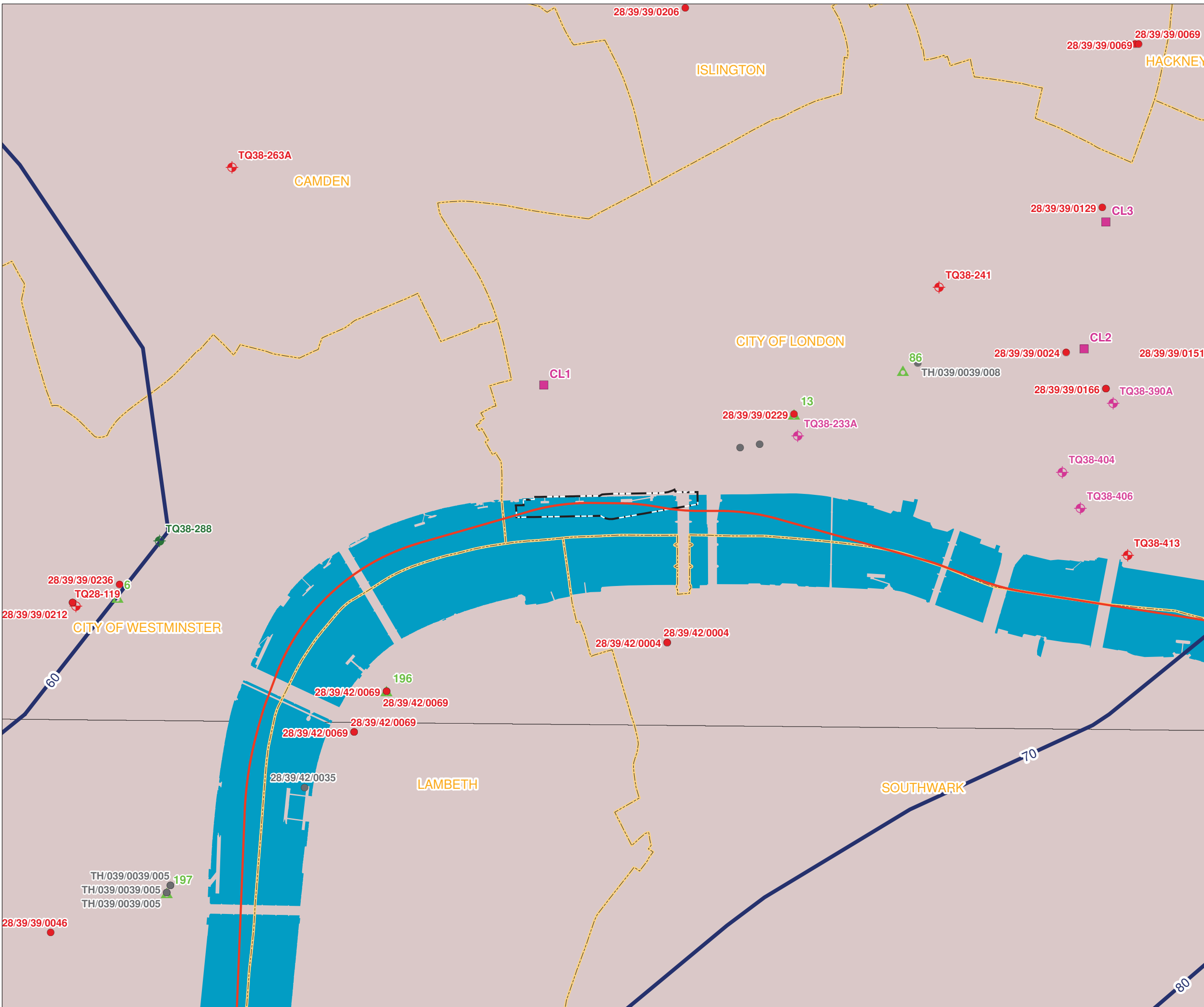
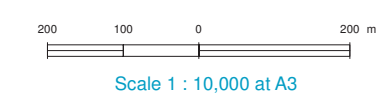
**Document Information**  
 Environmental Statement  
 Water resources – groundwater - regional groundwater hydrograph  
 Vol.18 Figure 13.4.4  
 1PL03-WR-20165  
 January 2013



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- Key**
- Limits of Land to be Acquired or Used
  - Thames Tideway Tunnel
    - Main Tunnel
  - Local Authority Boundary
  - EA Groundwater Licensed Abstractions (excluding public water supplies)
    - Chalk
    - Gravels
    - Unknown
  - GSHP Scheme
    - ▲ Chalk
  - LA Groundwater Unlicensed Abstractions
    - Chalk
  - EA Groundwater Level Monitoring Locations
    - ◆ Historical Data Available
    - ◆ Data Not Available
    - ◆ Recent Data Available
  - EA Chalk piezometric level (mATD) - Jan 11
  - Solid Geology
    - London Clay Formation



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Water resources – groundwater - licensed & unlicensed groundwater abstractions  
 Vol.18 Figure 13.4.5  
 1PL03-WR-20166  
 January 2013

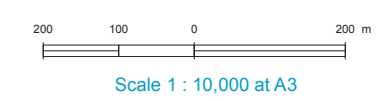
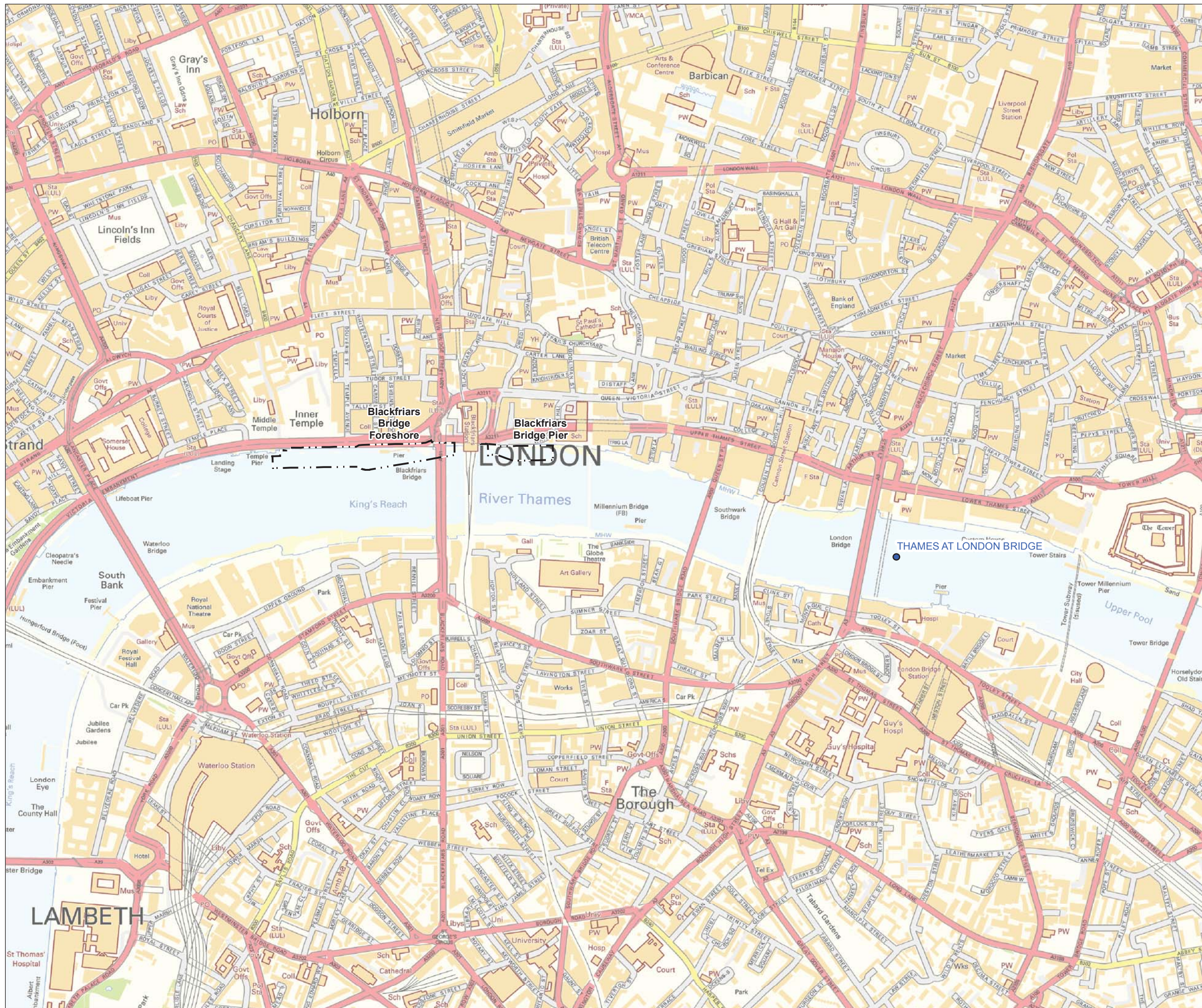




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- Key
- Limits of Land to be Acquired or Used
  - Spot Sample Locations

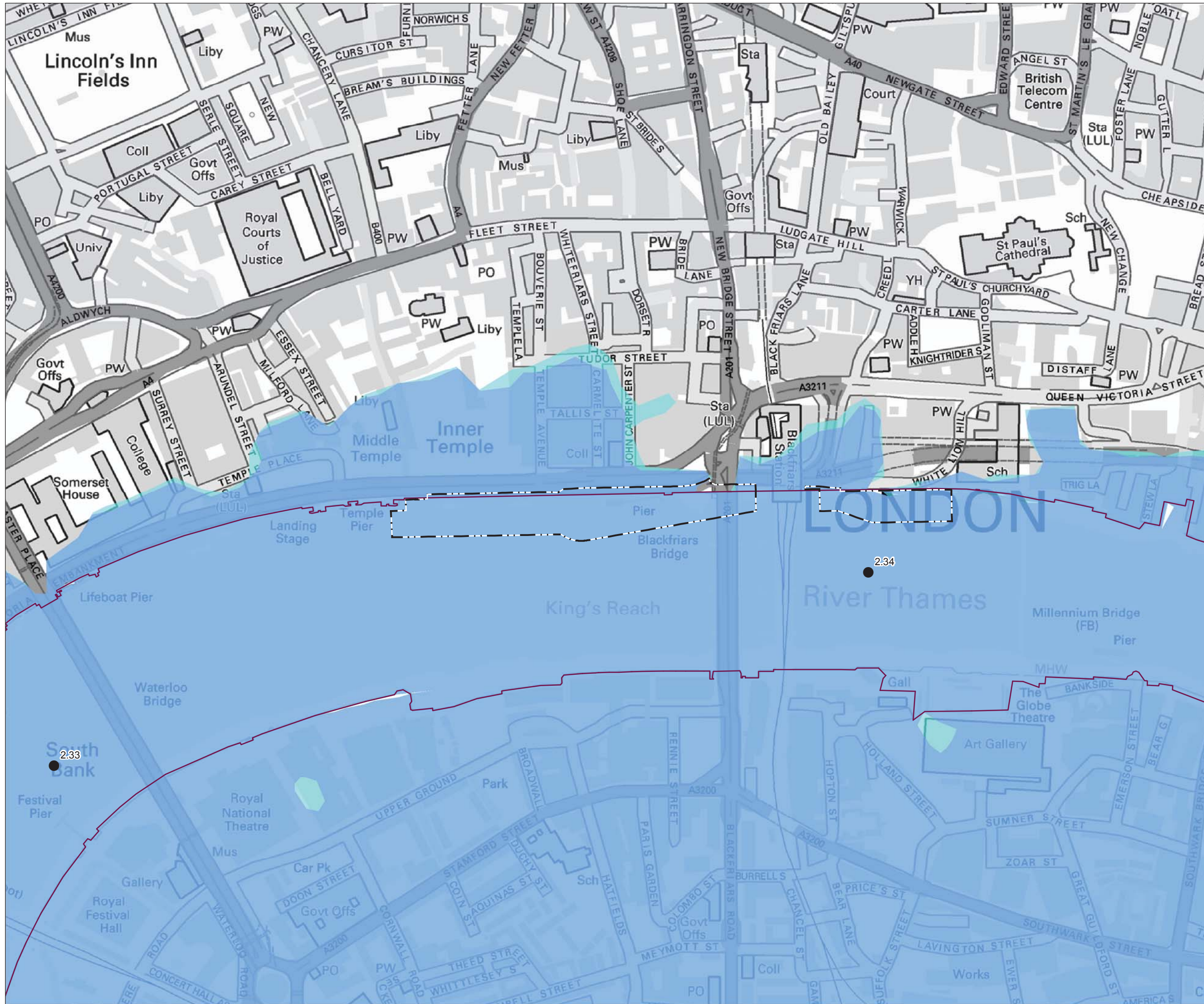


## FOR INFORMATION

**Location**  
Blackfriars Bridge Foreshore  
City of London

**Document Information**  
**Environmental Statement**  
Water resources - surface water - water quality monitoring points  
Vol.18 Figure 14.4.1  
1PL03-WR-21015  
January 2013

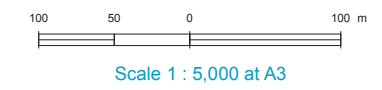




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- Key**
- Limits of Land to be Acquired or Used
  - Water Level Node
  - Thames Tidal Defences
  - EA Flood Zone 3
  - EA Flood Zone 2
- Note: Water Level Node - Thames Tidal Joint Probability Extreme Water Levels 2008



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

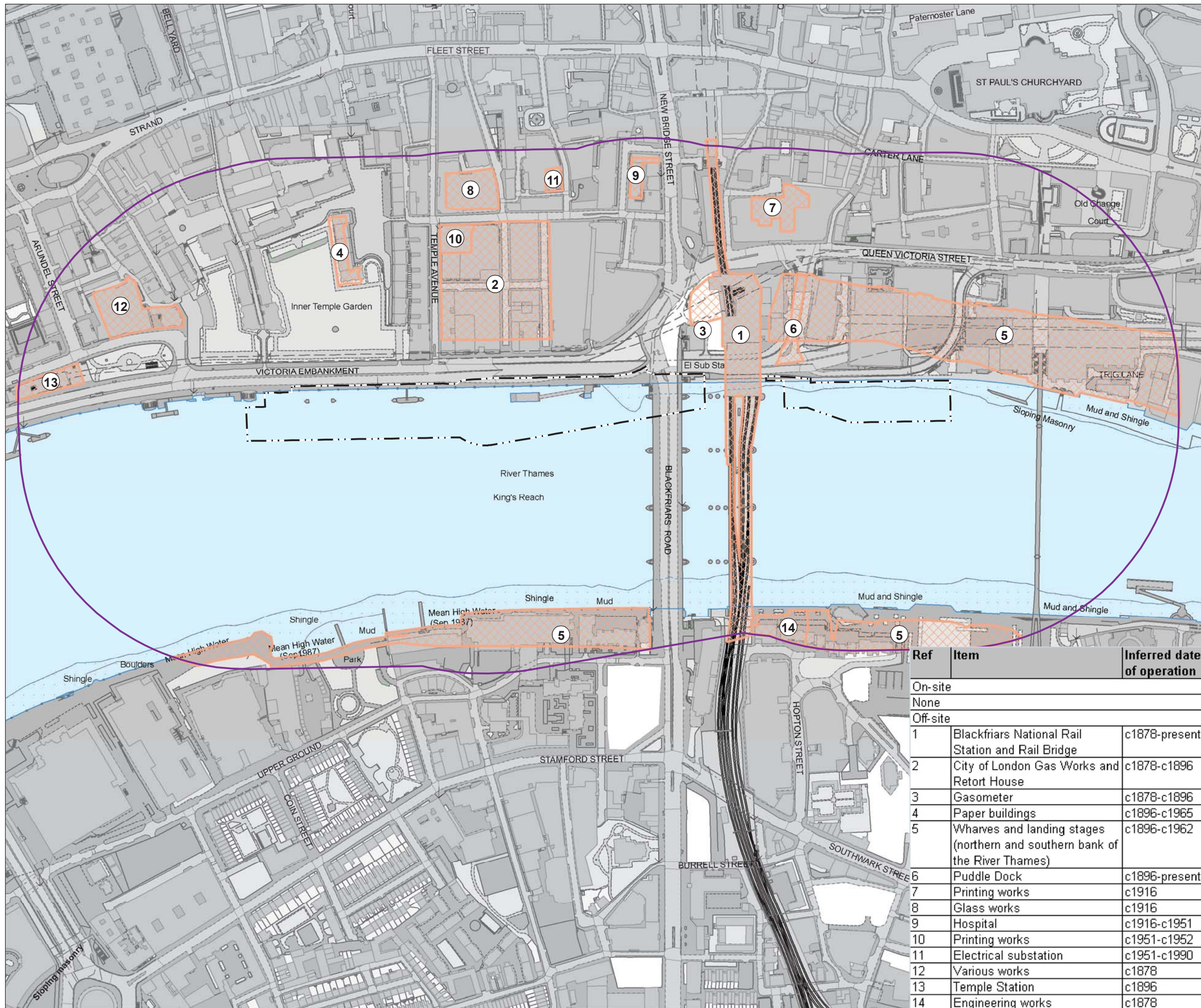
**Document Information**  
**Environmental Statement**  
 Flood risk - EA flood zones

Vol.18 Figure 15.3.1  
 1PL03-FL-20142  
 January 2013

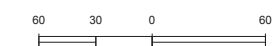




- Key**
- Limits of Land
  - - - to be Acquired or Used
  - Limit of Land 250m Buffer
  - ▨ Potentially Contaminating Land-Uses



Ref	Item	Inferred date of operation
On-site		
None		
Off-site		
1	Blackfriars National Rail Station and Rail Bridge	c1878-present
2	City of London Gas Works and Retort House	c1878-c1896
3	Gasometer	c1878-c1896
4	Paper buildings	c1896-c1965
5	Wharves and landing stages (northern and southern bank of the River Thames)	c1896-c1962
6	Puddle Dock	c1896-present
7	Printing works	c1916
8	Glass works	c1916
9	Hospital	c1916-c1951
10	Printing works	c1951-c1952
11	Electrical substation	c1951-c1990
12	Various works	c1878
13	Temple Station	c1896
14	Engineering works	c1878



Scale 1 : 4,000 at A3

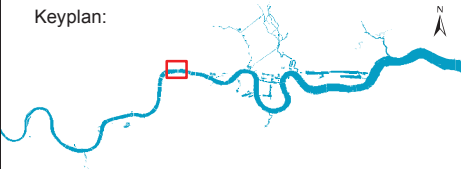
## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**

Land quality - potentially contaminating land-uses  
 Vol.18 Figure F.1.1  
 1PL03-LQ-30096  
 January 2013





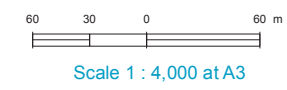
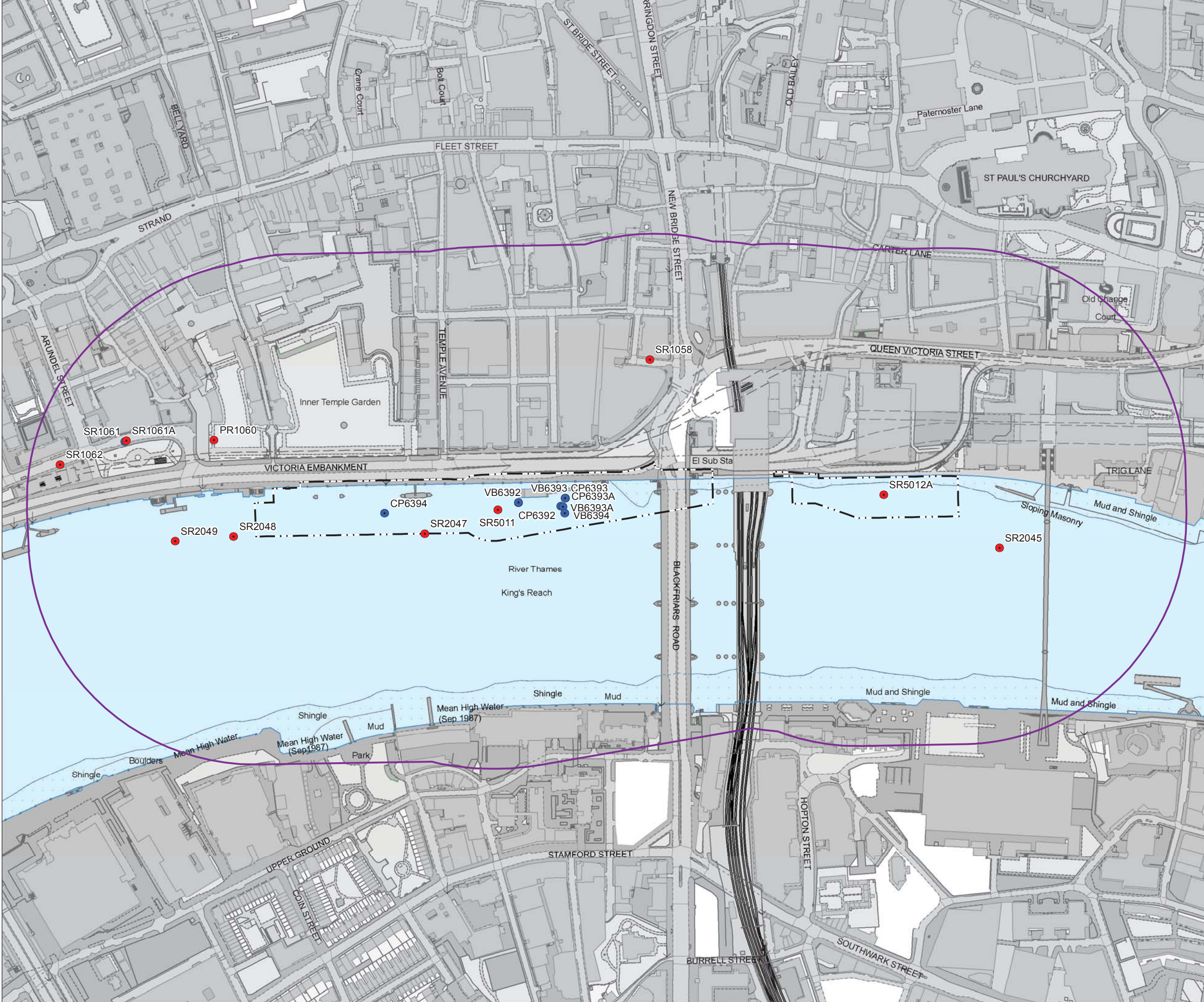
**Key**

**Drilled Boreholes**

Depth (m)

- 0 - 10
- 10 - 30
- 30+

--- Limits of Land  
 - - - to be Acquired or Used  
 [ ] Limit of Land 250m Buffer



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Land quality - borehole locations

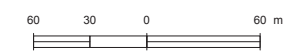
Vol.18 Figure F.1.2  
 1PL03-LQ-30094  
 January 2013





Key

- Limits of Land
- - - to be Acquired or Used
- ▭ Limit of Land 250m Buffer
- Waste**
- ▲ Past Potential Contaminated Industrial Uses
- Hazards**
- Pollution Incidents to Controlled Waters
- LA Pollution Prevention & Controls
- ▲ Past Potentially Contaminated Industrial Uses



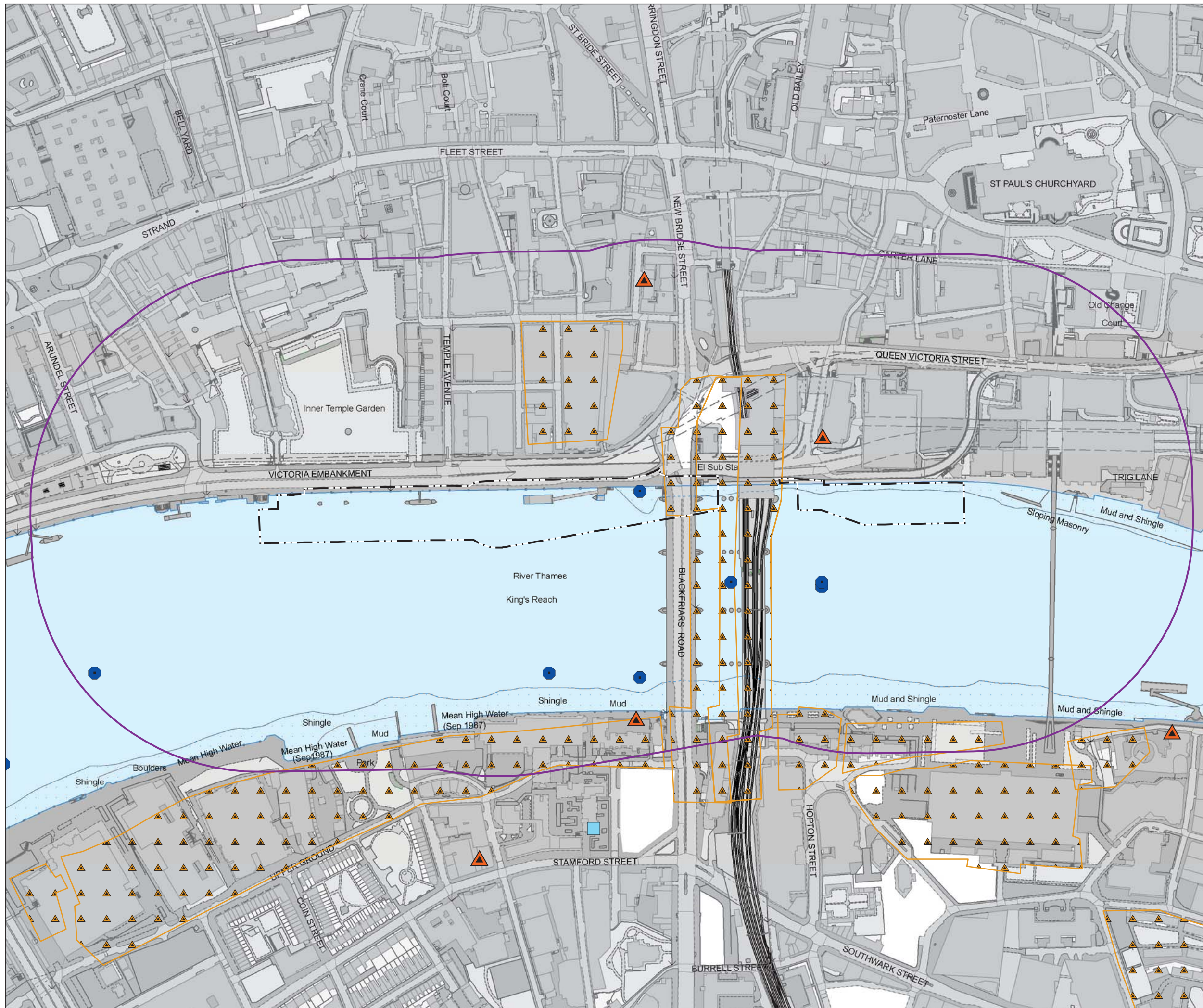
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**FOR INFORMATION**

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

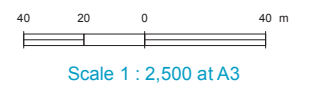
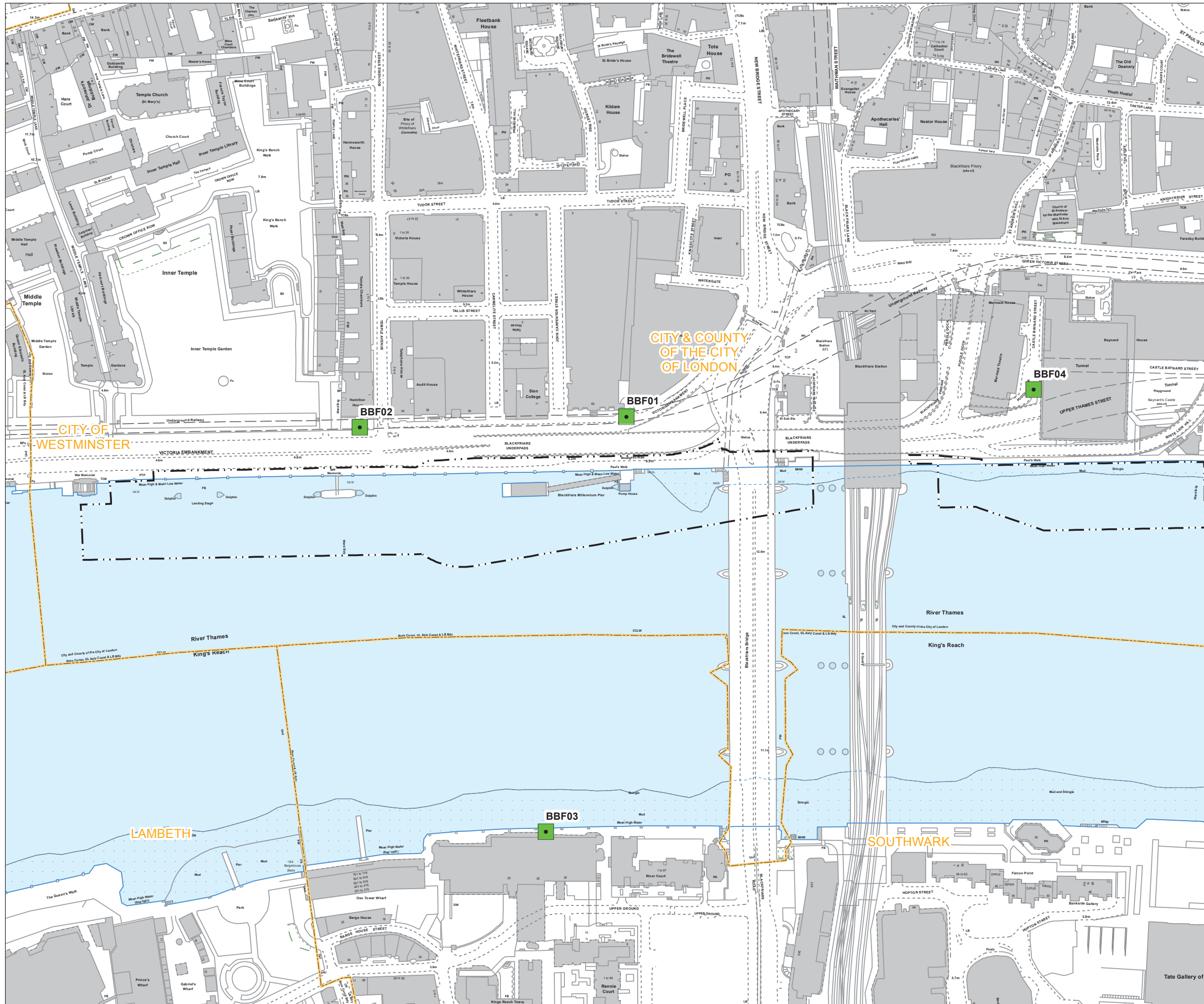
**Document Information**  
**Environmental Statement**  
 Land quality - hazard and waste sites

Vol.18 Figure F.1.3  
 1PL03-LQ-30095  
 January 2013





- Key**
- Limits of Land to be Acquired or Used
  - Local Authority Boundary
  - Attended



## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Noise and vibration - noise survey locations

Vol.18 Figure G.1  
 1PL03-NV-40112  
 January 2013



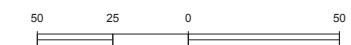
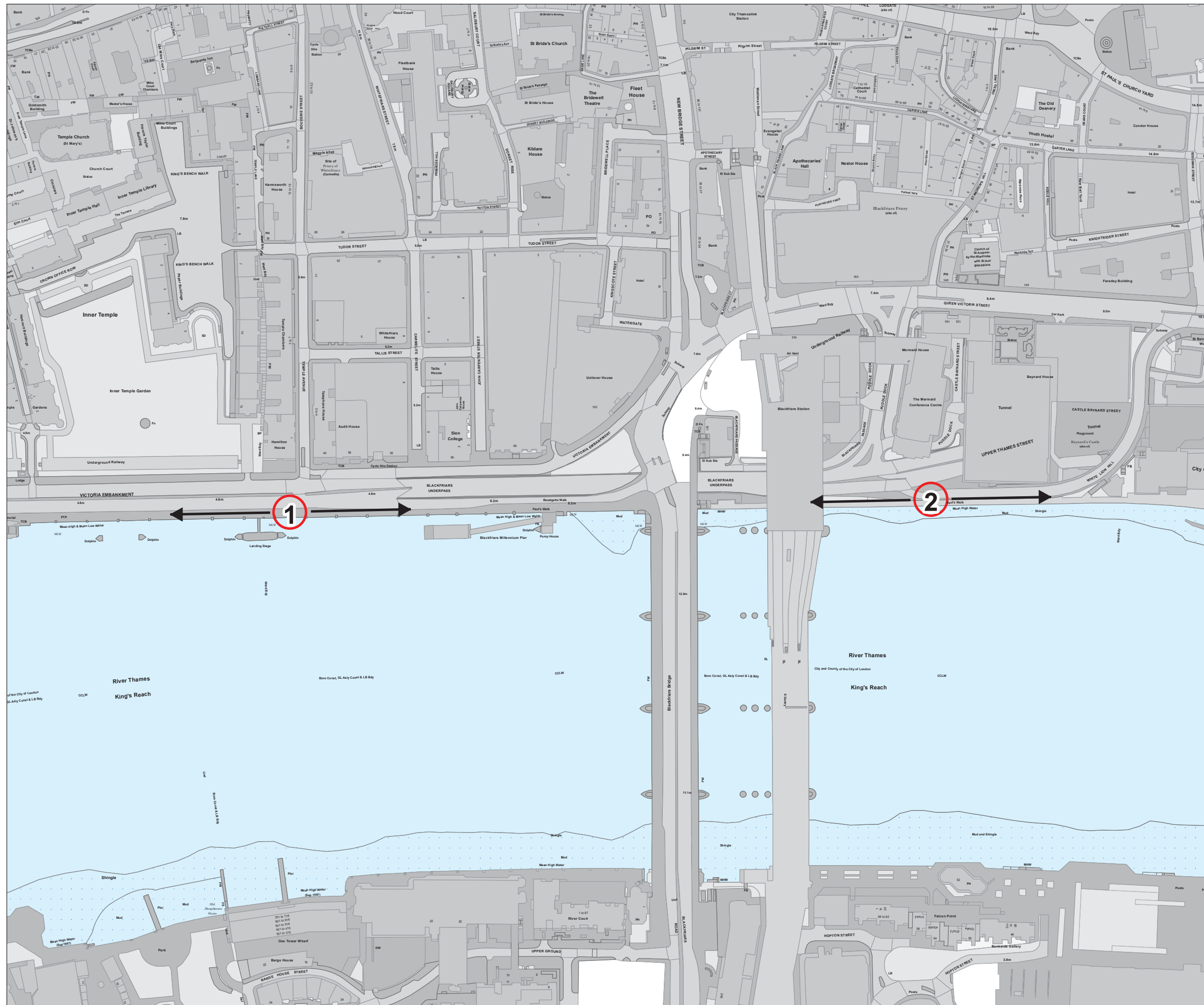
Keyplan:



Key



- 1. Thames Path: West
- 2. Thames Path: St. Paul's Walk



Scale 1 : 2,500 at A3

## FOR INFORMATION

**Location**  
**Blackfriars Bridge Foreshore**  
 City of London

**Document Information**  
**Environmental Statement**  
 Socio-economics - usage survey plan

Vol.18 Figure H.1  
 1PL03-SE-20030  
 January 2013



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