



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: **6.2.14**

Volume 14: Kirtling Street figures

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

Hard copy available in

Box **67** Folder **B**
January 2013

Thames
Tideway Tunnel 
Creating a cleaner, healthier River Thames

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Thames Tideway Tunnel

Environmental Statement

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Thames Tideway Tunnel

Environmental Statement

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Thames Tideway Tunnel

Environmental Statement

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1 Plans from the Book of Plans

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Table 1

Above ground permanent structure	Maximum height above finished ground level (Minimum heights are in brackets where applicable)
Combined ventilation column(s) and electrical and control kiosk(s)	6.0m (4.0m)
Water tanks and wedge pit	10.0m
Aggregate storage bins, cement silos, concrete plant, water tanks, wedge pit, conveyor, blowing shed and hopper.	30.0m
Tanks, bays and substation.	5.0m
Offices and welfare , blowing shed.	5.0m

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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which all permanent site structures would be located
 - Zone within which the shaft would be located
 - Zone within which permanent above ground structures would be located (those listed in Table 1)

- Notes:**
- All dimensions and levels are approximate.
 - The Site Works Parameter Key Plan identifies each zone independently.
 - The zone within which the shaft would be located would include all permanent works including shaft walls (including appropriate allowances for construction tolerances) and if applicable under-reaming. Shaft construction temporary works may be located within or outside this zone provided they are located within the Limits of land to be acquired or used.

10m 0 100m
Scale 1:1250 at A1
1:2500 if reproduced at A3

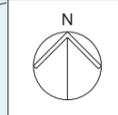
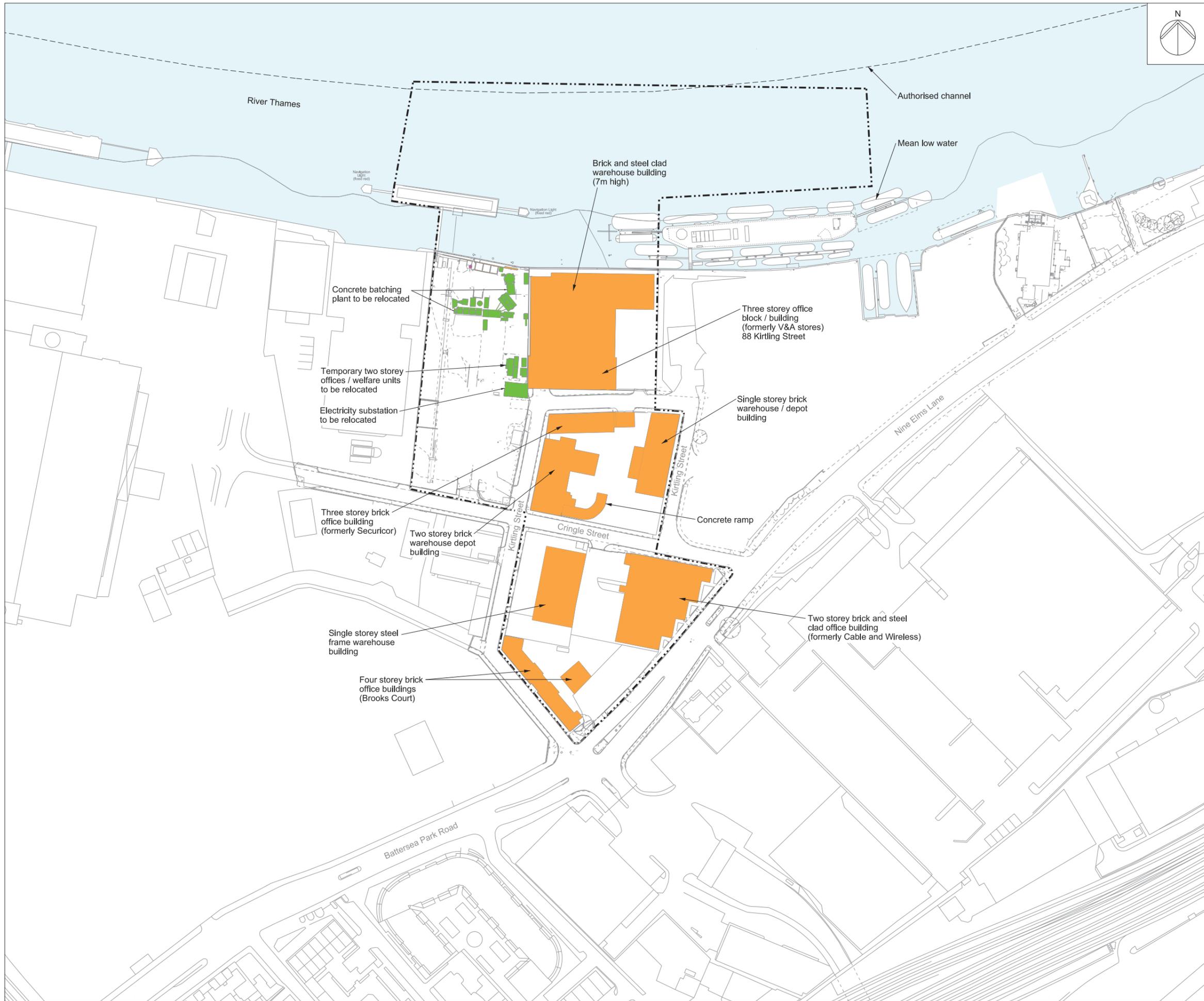
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London Borough of Wandsworth

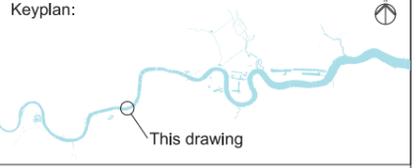
Document Information
Application for Development Consent
Site works parameter plan

Book of plans - section 15
DCO-PP-13X-KRTST-150005
January 2013





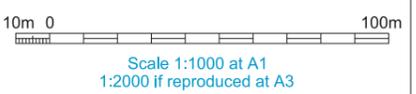
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Above ground structures to be removed
 - Below ground structures to be removed or infilled
 - Structure to be removed and relocated or reinstated

- Notes:**
1. Minor items to be removed (e.g. barriers, bollards etc.) are not shown.
 2. General activities of site clearance such as removal of hardstanding and foundations, stripping of topsoil and clearance of minor vegetation not shown.



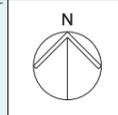
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London Borough of Wandsworth

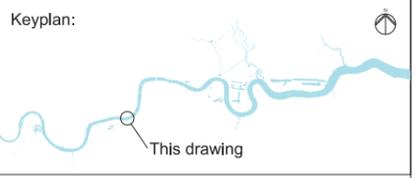
Document Information
Application for Development Consent
Demolition and site clearance

Book of plans - section 15
DCO-PP-13X-KRTST-150004
January 2013





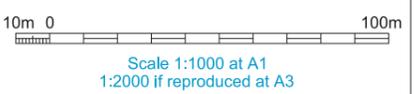
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Existing right of way temporarily stopped up
 - Area of highway to be temporarily stopped up
 - Area of temporary suspension of public rights of navigation
 - Ap ● Access to permanent works
 - Ac ● Access to construction works

- Notes:**
1. This plan does not show stopping up and diversions of limited duration (e.g. hoarding erection, minor utility diversions and minor highway works).
 2. Only rights of way in or close to worksites are shown. The full extents of rights of way are not shown where they cease to be relevant to the project.
 3. This drawing shows the LLAU associated with the Kirtling Street site only.



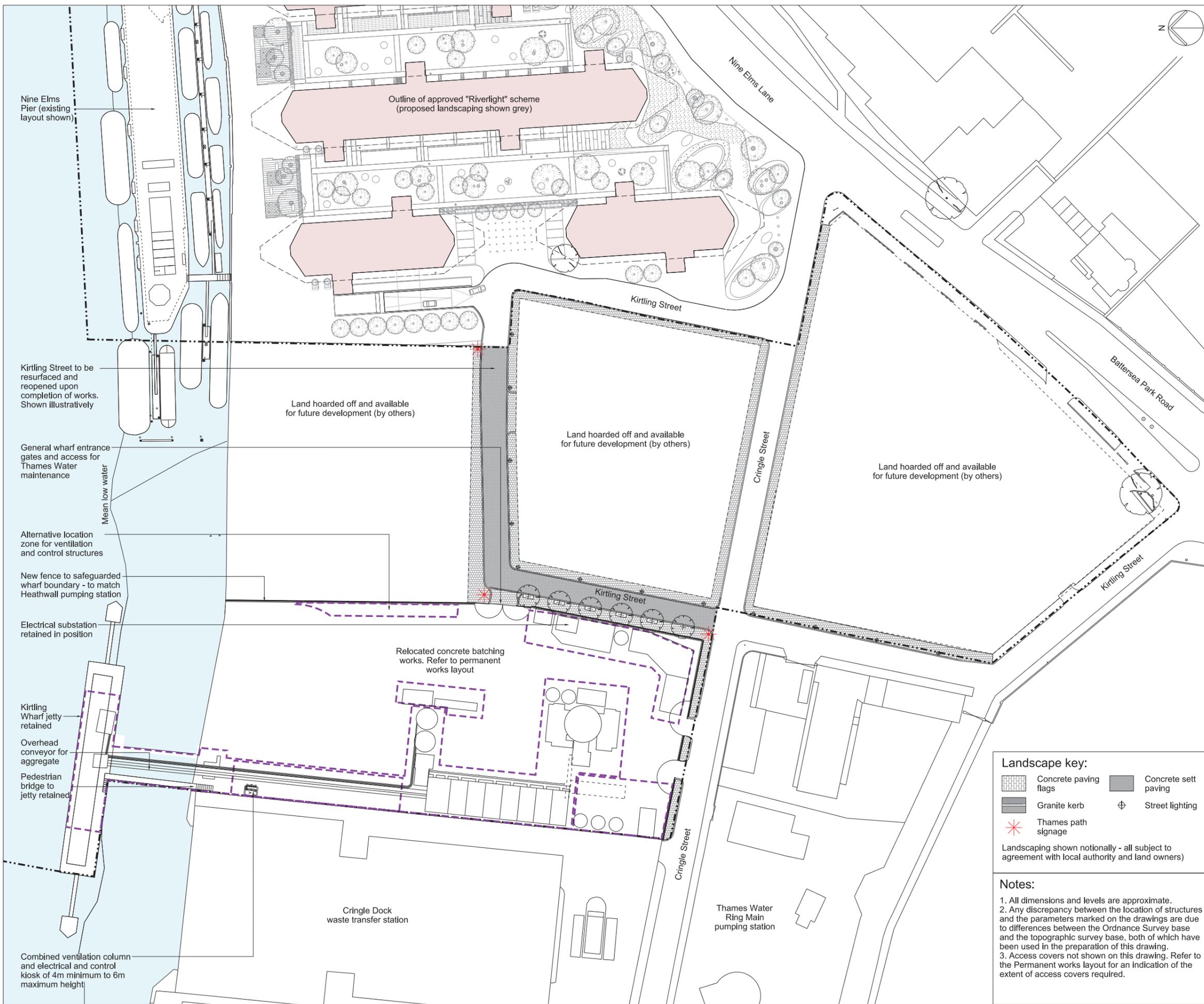
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Location
Kirtling Street
London Borough of Wandsworth

Document Information
Application for Development Consent
Access plan

Book of plans - section 15
DCO-PP-13X-KRTST-150003
January 2013





Nine Elms Pier (existing layout shown)

Outline of approved "Riverlight" scheme (proposed landscaping shown grey)

Kirtling Street to be resurfaced and reopened upon completion of works. Shown illustratively

Land hoarded off and available for future development (by others)

Land hoarded off and available for future development (by others)

Land hoarded off and available for future development (by others)

General wharf entrance gates and access for Thames Water maintenance

Alternative location zone for ventilation and control structures

New fence to safeguard wharf boundary - to match Heathwall pumping station

Electrical substation retained in position

Relocated concrete batching works. Refer to permanent works layout

Kirtling Wharf jetty retained

Overhead conveyor for aggregate

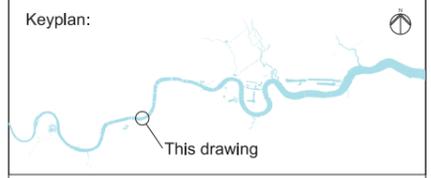
Pedestrian bridge to jetty retained

Cringle Dock waste transfer station

Thames Water Ring Main pumping station

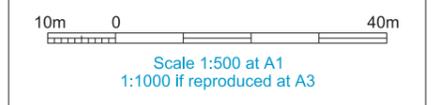
Combined ventilation column and electrical and control kiosk of 4m minimum to 6m maximum height

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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Zone within which permanent above ground structures would be located
 - Consented development footprint (by others)
 - Existing trees within surveyed area (trunk sizes vary)
 - Proposed trees



- Landscape key:**
- Concrete paving flags
 - Concrete sett paving
 - Granite kerb
 - Street lighting
 - Thames path signage
- Landscaping shown notionally - all subject to agreement with local authority and land owners)

- Notes:**
1. All dimensions and levels are approximate.
 2. Any discrepancy between the location of structures and the parameters marked on the drawings are due to differences between the Ordnance Survey base and the topographic survey base, both of which have been used in the preparation of this drawing.
 3. Access covers not shown on this drawing. Refer to the Permanent works layout for an indication of the extent of access covers required.

INDICATIVE
Save for layout of above ground structures which is illustrative

Location
Kirtling Street
London Borough of Wandsworth

Document Information
Application for Development Consent

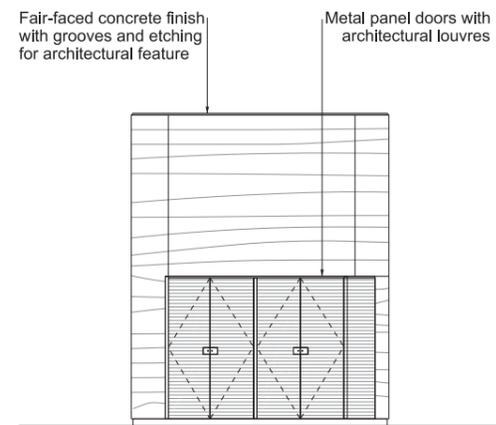
Proposed
Landscape plan
Book of plans - section 15
DCO-PP-13X-KRTST-150008
January 2013



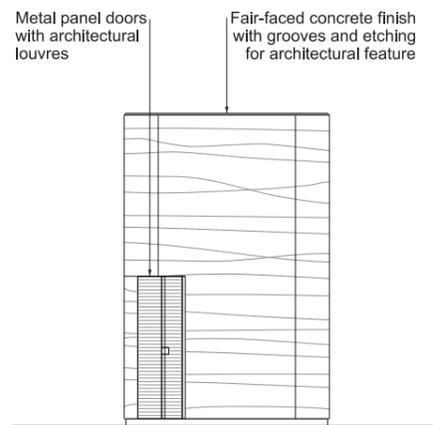


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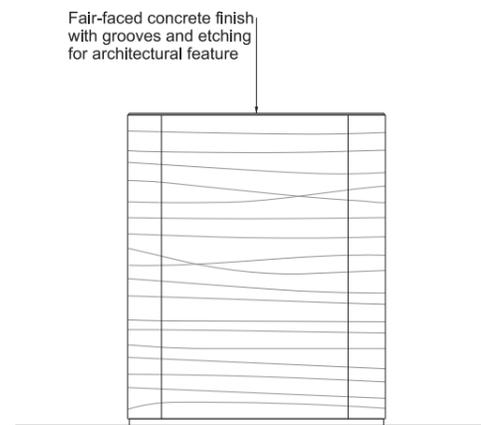
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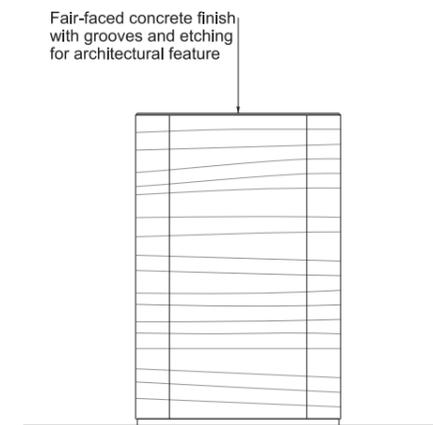
East elevation
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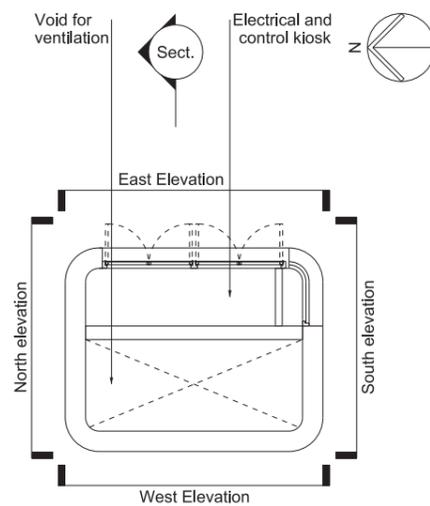
North elevation
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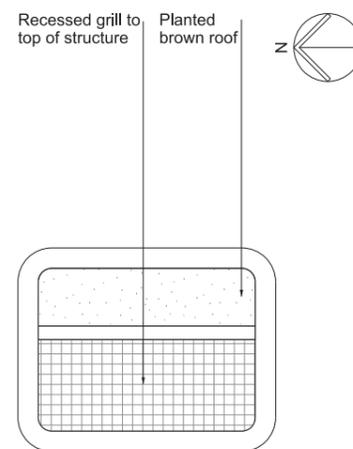
West elevation
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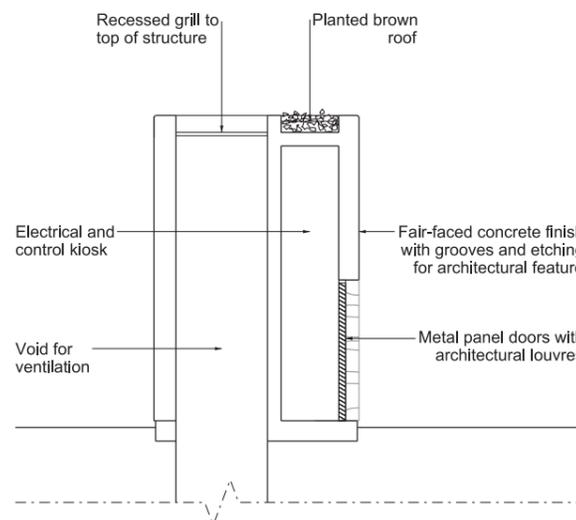
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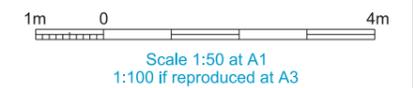
Floor plan
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Roof plan
Scale 1:50



Section
Scale 1:50

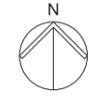
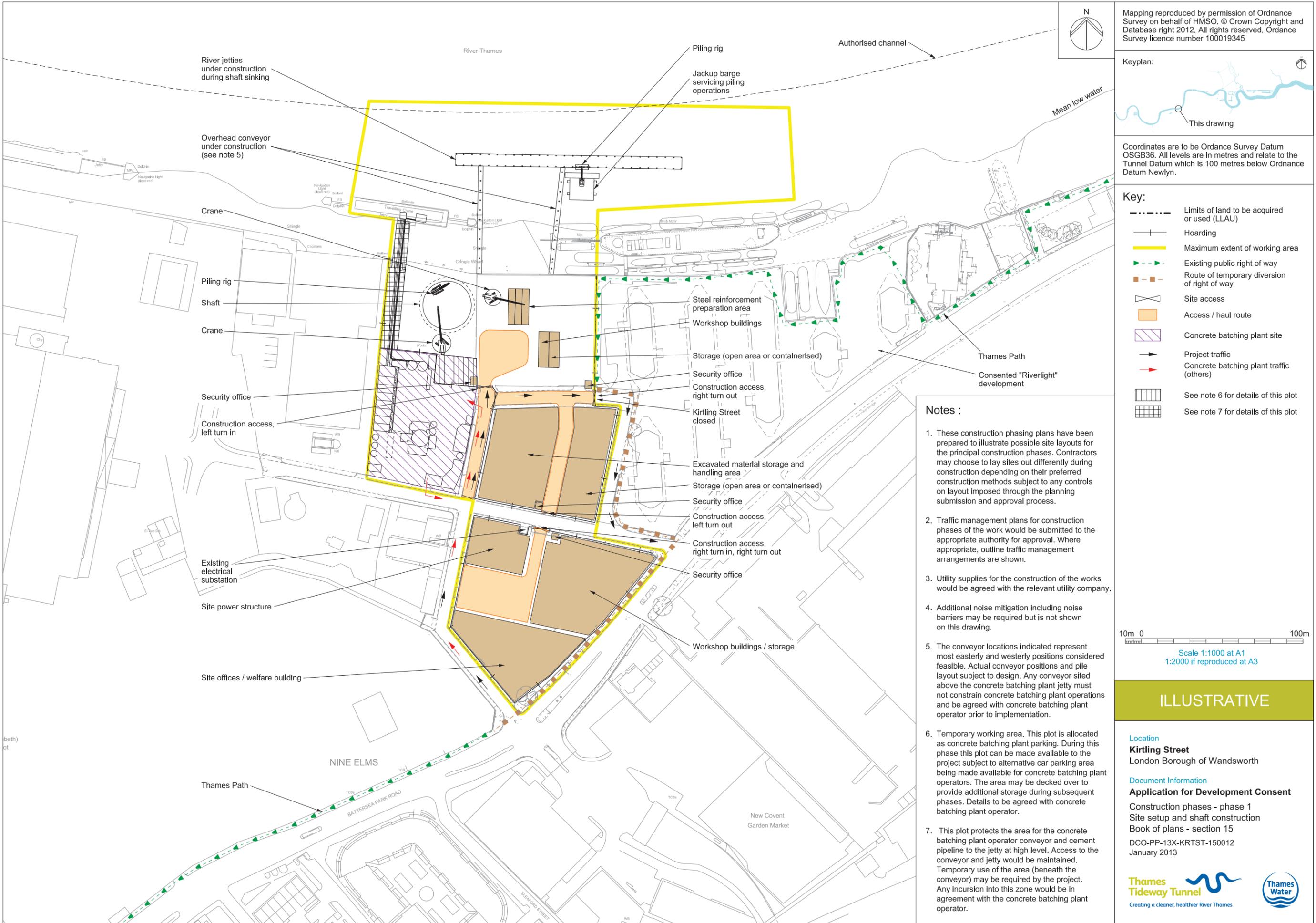


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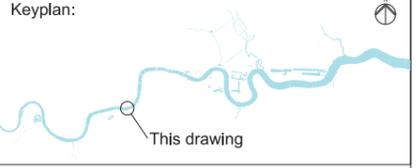
Location
Kirtling Street
London Borough of Wandsworth

Document Information
Application for Development Consent
Kiosk and ventilation column
Design intent
Book of plans - section 15
DCO-PP-13X-KRTST-150011
January 2013





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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Site access
 - Access / haul route
 - Concrete batching plant site
 - Project traffic
 - Concrete batching plant traffic (others)
 - See note 6 for details of this plot
 - See note 7 for details of this plot

- Notes :**
- These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
 - Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
 - Utility supplies for the construction of the works would be agreed with the relevant utility company.
 - Additional noise mitigation including noise barriers may be required but is not shown on this drawing.
 - The conveyor locations indicated represent most easterly and westerly positions considered feasible. Actual conveyor positions and pile layout subject to design. Any conveyor sited above the concrete batching plant jetty must not constrain concrete batching plant operations and be agreed with concrete batching plant operator prior to implementation.
 - Temporary working area. This plot is allocated as concrete batching plant parking. During this phase this plot can be made available to the project subject to alternative car parking area being made available for concrete batching plant operators. The area may be decked over to provide additional storage during subsequent phases. Details to be agreed with concrete batching plant operator.
 - This plot protects the area for the concrete batching plant operator conveyor and cement pipeline to the jetty at high level. Access to the conveyor and jetty would be maintained. Temporary use of the area (beneath the conveyor) may be required by the project. Any incursion into this zone would be in agreement with the concrete batching plant operator.

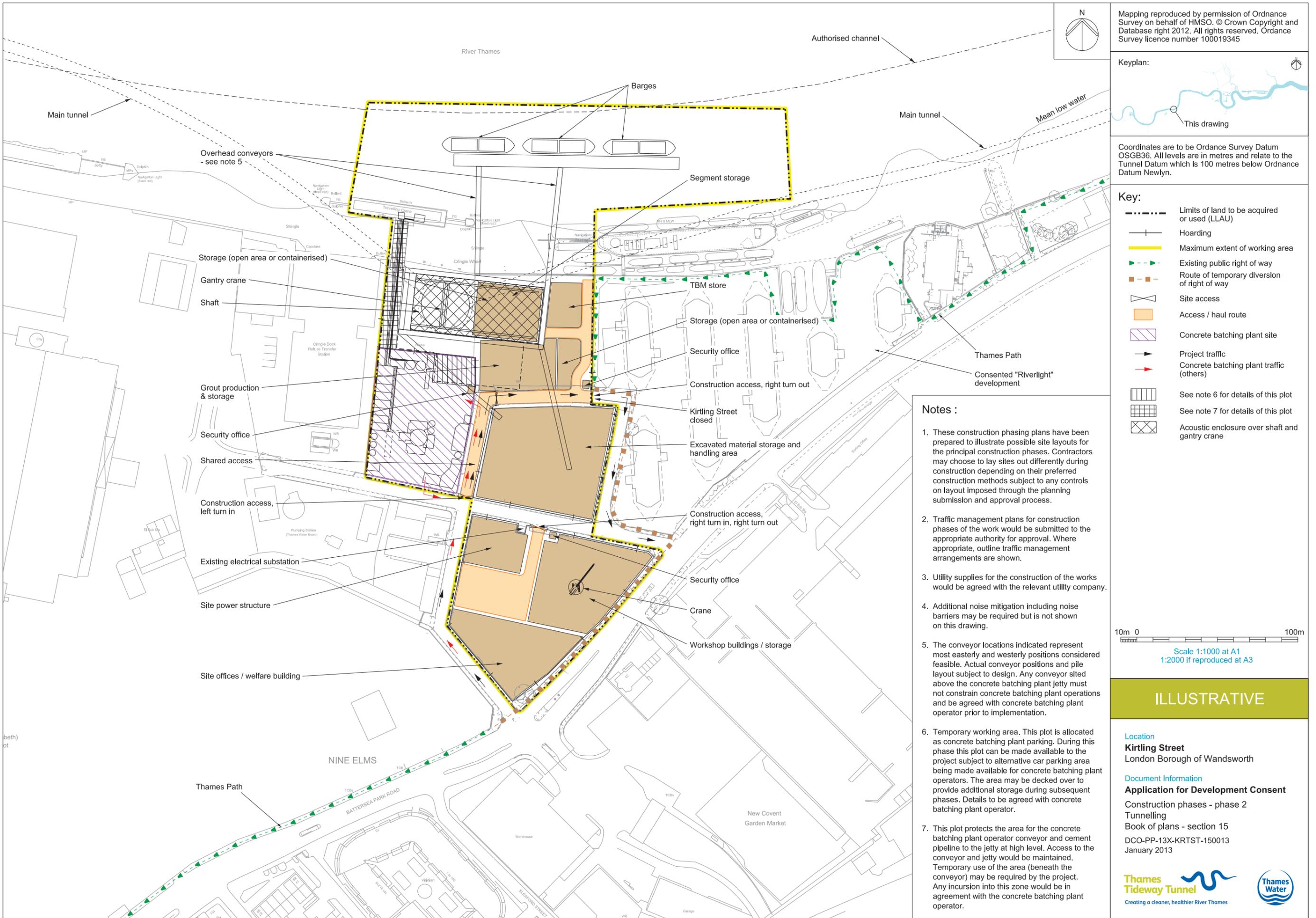


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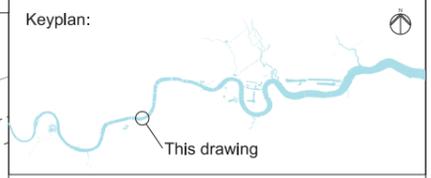
Location
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 London Borough of Wandsworth

Document Information
Application for Development Consent
 Construction phases - phase 1
 Site setup and shaft construction
 Book of plans - section 15
 DCO-PP-13X-KRTST-150012
 January 2013





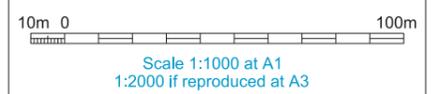
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- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Site access
 - Access / haul route
 - Concrete batching plant site
 - Project traffic
 - Concrete batching plant traffic (others)
 - See note 6 for details of this plot
 - See note 7 for details of this plot
 - Acoustic enclosure over shaft and gantry crane

- Notes :**
1. These construction phasing plans have been prepared to illustrate possible site layouts for the principal construction phases. Contractors may choose to lay sites out differently during construction depending on their preferred construction methods subject to any controls on layout imposed through the planning submission and approval process.
 2. Traffic management plans for construction phases of the work would be submitted to the appropriate authority for approval. Where appropriate, outline traffic management arrangements are shown.
 3. Utility supplies for the construction of the works would be agreed with the relevant utility company.
 4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.
 5. The conveyor locations indicated represent most easterly and westerly positions considered feasible. Actual conveyor positions and pile layout subject to design. Any conveyor sited above the concrete batching plant jetty must not constrain concrete batching plant operations and be agreed with concrete batching plant operator prior to implementation.
 6. Temporary working area. This plot is allocated as concrete batching plant parking. During this phase this plot can be made available to the project subject to alternative car parking area being made available for concrete batching plant operators. The area may be decked over to provide additional storage during subsequent phases. Details to be agreed with concrete batching plant operator.
 7. This plot protects the area for the concrete batching plant operator conveyor and cement pipeline to the jetty at high level. Access to the conveyor and jetty would be maintained. Temporary use of the area (beneath the conveyor) may be required by the project. Any incursion into this zone would be in agreement with the concrete batching plant operator.



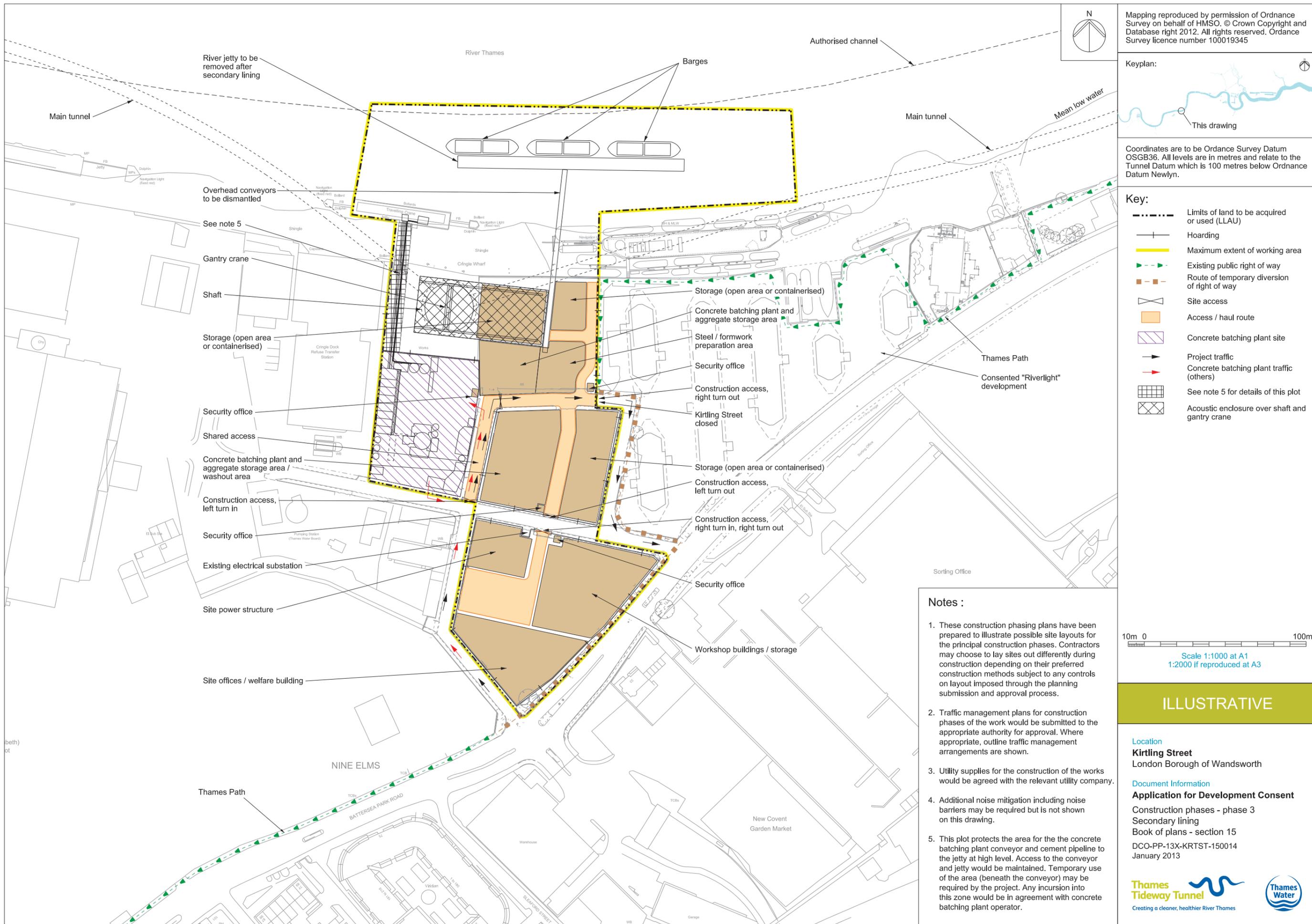
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Location
Kirtling Street
London Borough of Wandsworth

Document Information
Application for Development Consent
Construction phases - phase 2
Tunnelling
Book of plans - section 15
DCO-PP-13X-KRTST-150013
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

Thames Water



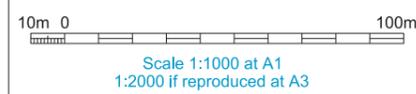
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- Key:**
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 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Route of temporary diversion of right of way
 - Site access
 - Access / haul route
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 - Concrete batching plant traffic (others)
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 3. Utility supplies for the construction of the works would be agreed with the relevant utility company.
 4. Additional noise mitigation including noise barriers may be required but is not shown on this drawing.
 5. This plot protects the area for the the concrete batching plant conveyor and cement pipeline to the jetty at high level. Access to the conveyor and jetty would be maintained. Temporary use of the area (beneath the conveyor) may be required by the project. Any incursion into this zone would be in agreement with concrete batching plant operator.

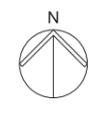
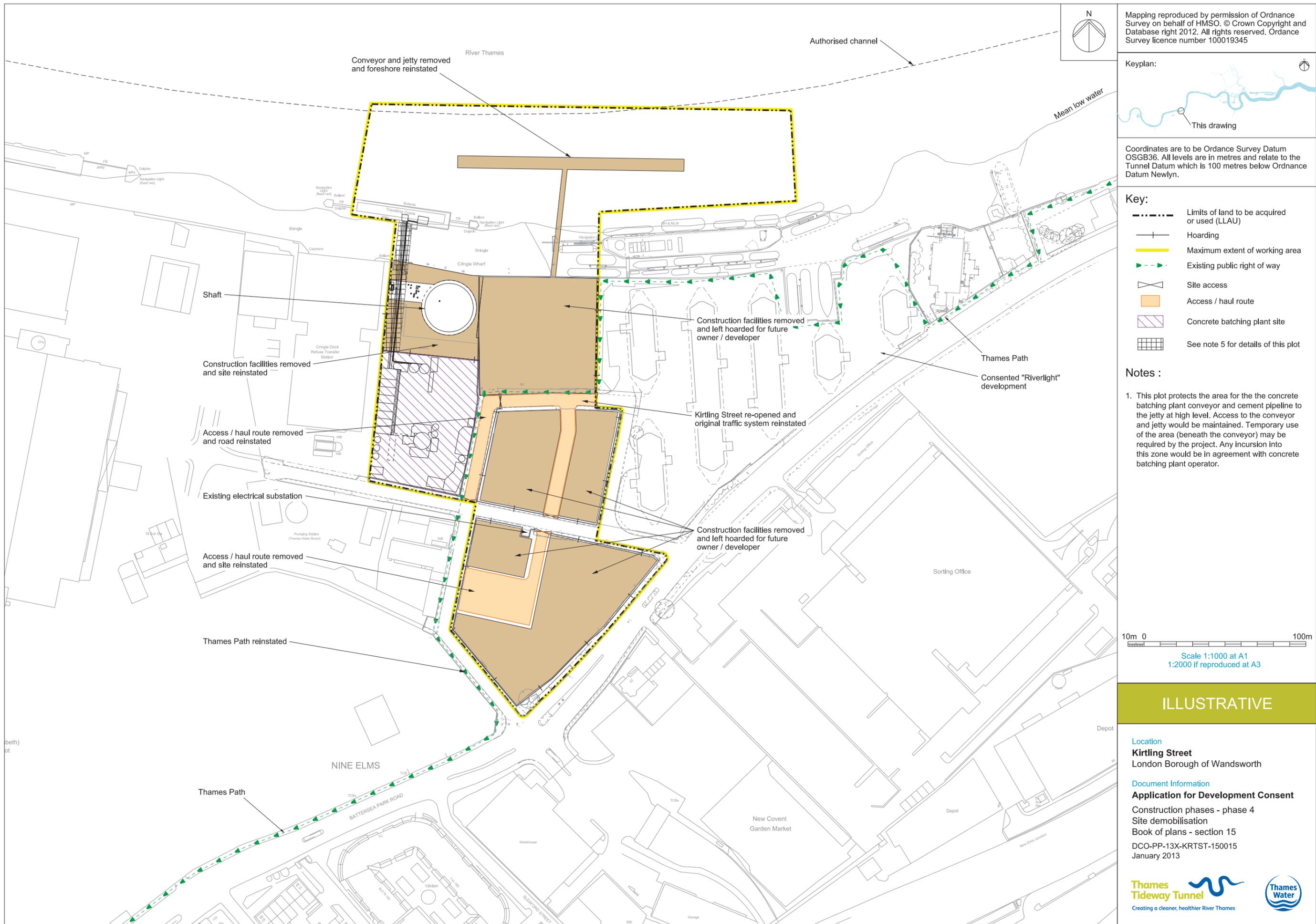


ILLUSTRATIVE

Location
Kirtling Street
London Borough of Wandsworth

Document Information
Application for Development Consent
Construction phases - phase 3
Secondary lining
Book of plans - section 15
DCO-PP-13X-KRTST-150014
January 2013





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Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key:**
- Limits of land to be acquired or used (LLAU)
 - Hoarding
 - Maximum extent of working area
 - Existing public right of way
 - Site access
 - Access / haul route
 - Concrete batching plant site
 - See note 5 for details of this plot

- Notes :**
1. This plot protects the area for the the concrete batching plant conveyor and cement pipeline to the jetty at high level. Access to the conveyor and jetty would be maintained. Temporary use of the area (beneath the conveyor) may be required by the project. Any incursion into this zone would be in agreement with concrete batching plant operator.

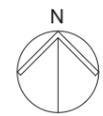


ILLUSTRATIVE

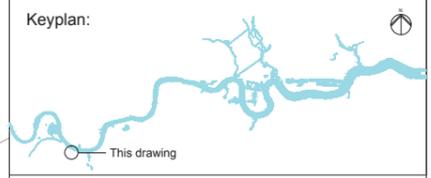
Location
Kirtling Street
London Borough of Wandsworth

Document Information
Application for Development Consent
Construction phases - phase 4
Site demobilisation
Book of plans - section 15
DCO-PP-13X-KRTST-150015
January 2013





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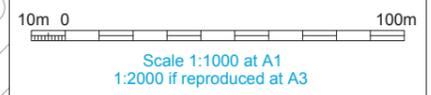
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing**
- Parking restrictions
 - Red route
 - On street parking
 - Bus stop / stand
 - Bus lanes
 - Pedestrian crossing
 - Cycle lane / advance stop line
- Revised**
- Limit of land to be acquired or used (LLAU)

On Street Parking
Unrestricted parking - Parking at any time

- Standards**
- Design Manual for Roads and Bridges, DfT, 1992
 - Traffic Signs Regulations & General Directions, Tso, 2002
 - Traffic Signs Manual, DfT, 2006
 - Manual for Streets, DfT, 2007
 - Manual for Streets 2, CIHT, 2010
 - Designing for Deliveries, Fla, 1998
 - Cycle Infrastructure Design Ltn 2/08, DfT, 2008
 - Design of Pedestrian Crossings Ltn 2/95, DfT, 1995
 - Guidance on the use of Tactile Paving Surfaces, DfT, 1998
 - Accessible Bus Stop Design Guidance, TfL, 2006

Stage
Existing



FOR INFORMATION

Location
Kirtling Street
London Borough of Wandsworth

Document Information
Application for Development Consent
Existing highway layout

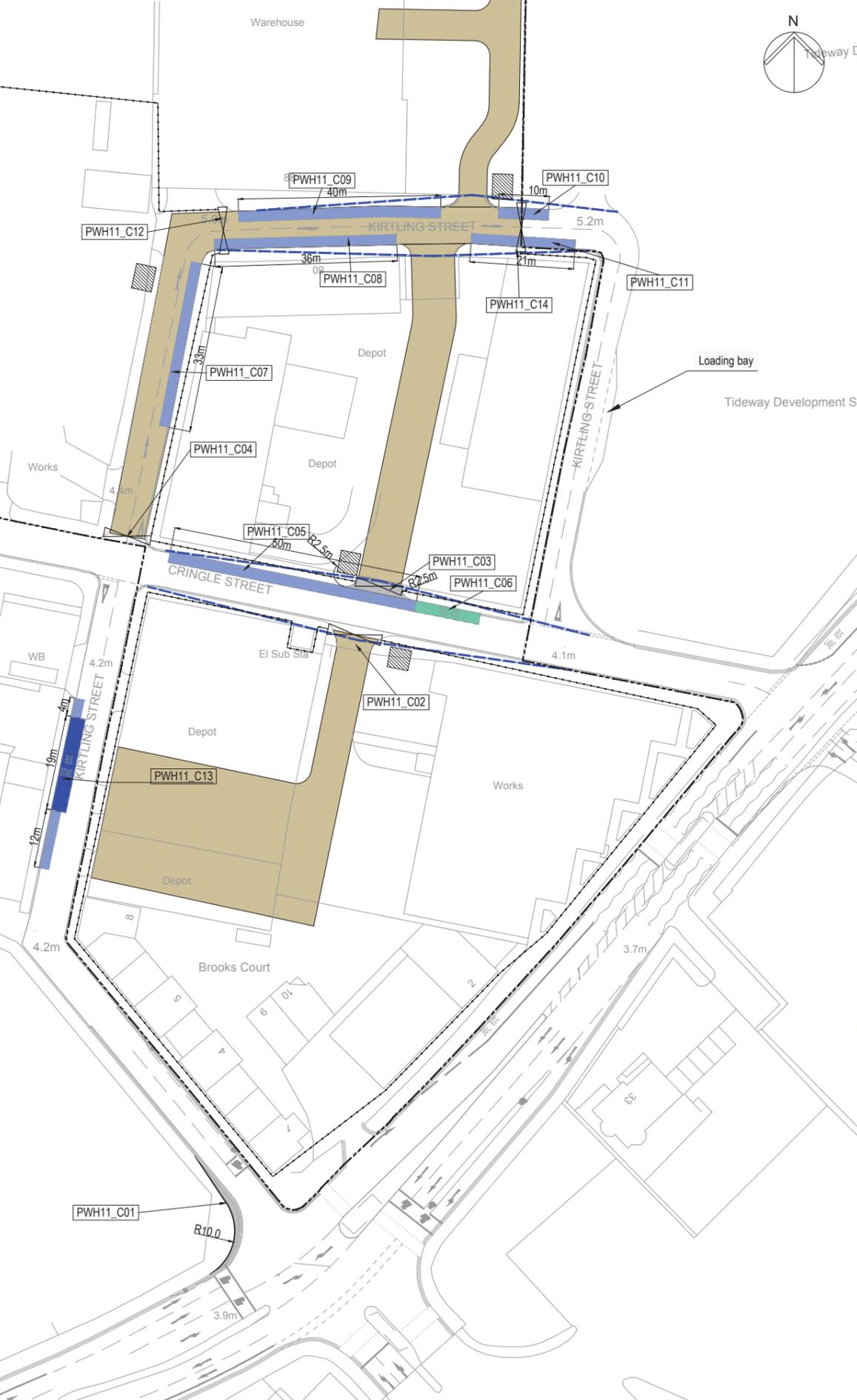
DCO-PP-13X-KRTST-150020
January 2013



Construction base case highway layout



Highway layout during construction



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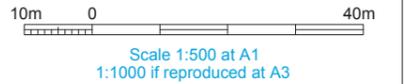
Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

- Key**
- Existing**
- Parking restrictions
 - On street parking
 - Bus lane
 - Bus stop/ stand
 - Pedestrian crossing
 - Cycle lane / advance stop line
- Revised**
- Removal of footway
 - Suspended on-street parking
 - Suspended bus stand
 - Temporary bus stand
 - Illustrative on-site manoeuvring zone
 - Visibility splay - 2.4m x 43m (ssd adjust for bonnet length)
 - Site hut
 - Site hoarding
 - Access gate
 - Limit of land to be acquired or used (LLAU)
- PWH11_C01 See schedule of works

On Street Parking
 Unrestricted parking - Parking at any time
 Loading bay - Drop off for coaches and taxis

- Standards**
- Design Manual for Roads and Bridges, DfT, 1992
 - Traffic Signs Regulations & General Directions, Tso, 2002
 - Traffic Signs Manual, DfT, 2006
 - Manual for Streets, DfT, 2007
 - Manual for Streets 2, CIHT, 2010
 - Designing for Deliveries, Fta, 1998
 - Cycle Infrastructure Design Ltn 2/08, DfT, 2008
 - Design of Pedestrian Crossings Ltn 2/95, DfT, 1995
 - Guidance on the use of Tactile Paving Surfaces, DfT, 1998
 - Accessible Bus Stop Design Guidance, TfL, 2006

Stage
 Phase 1 and 3



ILLUSTRATIVE

Location
 Kirtling Street
 London Borough of Wandsworth

Document Information
Application for Development Consent
 Highway layout during construction
 (Area 1)
 Ph 1 - 3
 DCO-PP-13X-KRTST-150021
 January 2013





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Keyplan:

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Key

Existing

- Parking restrictions
- On street parking
- Bus lane
- Pedestrian crossing
- Cycle lane / advance stop line

Revised

- Removal of footway
- Illustrative on-site manoeuvring zone
- Visibility splay - 2.4m x 43m (ssd adjust for bonnet length)
- Access gate
- Limit of land to be acquired or used (LLAU)
- See schedule of works

On Street Parking

Loading bay - Drop off for coaches and taxis

Standards

- Design Manual for Roads and Bridges, DfT, 1992
- Traffic Signs Regulations & General Directions, Tso, 2002
- Traffic Signs Manual, DfT, 2006
- Manual for Streets, DfT, 2007
- Manual for Streets 2, CIHT, 2010
- Designing for Deliveries, Fta, 1998
- Cycle Infrastructure Design Ltn 2/08, DfT, 2008
- Design of Pedestrian Crossings Ltn 2/95, DfT, 1995
- Guidance on the use of Tactile Paving Surfaces, DfT, 1998
- Accessible Bus Stop Design Guidance, TfL, 2006

Stage

Phases 1 & 3

10m 0 40m

Scale 1:500 at A1
1:1000 if reproduced at A3

ILLUSTRATIVE

Location

Kirtling Street
London Borough of Wandsworth

Document Information

Application for Development Consent

Highway layout during construction
(Area 1) Ph 1 - 3
(With Battersea PS)

DCO-PP-13X-KRTST-150022
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Thames Tideway Tunnel
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Thames Water

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Keyplan:

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Key

Existing

- Parking restrictions
- Yellow On street parking
- Red Bus lane
- Red Bus stop/ stand
- Purple Pedestrian crossing
- Green Cycle lane / advance stop line

Revised

- Reinstated footway
- Reinstated on-street parking
- Reinstated bus stand
- Removal of temporary bus stand
- PWH11_P01 See schedule of works

On Street Parking

Unrestricted parking - Parking at any time
Loading bay - Drop off for coaches and taxis

Standards

- Design Manual for Roads and Bridges, DfT, 1992
- Traffic Signs Regulations & General Directions, Tso, 2002
- Traffic Signs Manual, DfT, 2006
- Manual for Streets, DfT, 2007
- Manual for Streets 2, CIHT, 2010
- Designing for Deliveries, Fla, 1998
- Cycle Infrastructure Design Ltn 2/08, DfT, 2008
- Design of Pedestrian Crossings Ltn 2/95, DfT, 1995
- Guidance on the use of Tactile Paving Surfaces, DfT, 1998
- Accessible Bus Stop Design Guidance, TfL, 2006

Stage

Permanent phase

10m 0 40m
Scale 1:500 at A1
1:1000 if reproduced at A3

ILLUSTRATIVE

Location

Kirtling Street
London Borough of Wandsworth

Document Information

Application for Development Consent

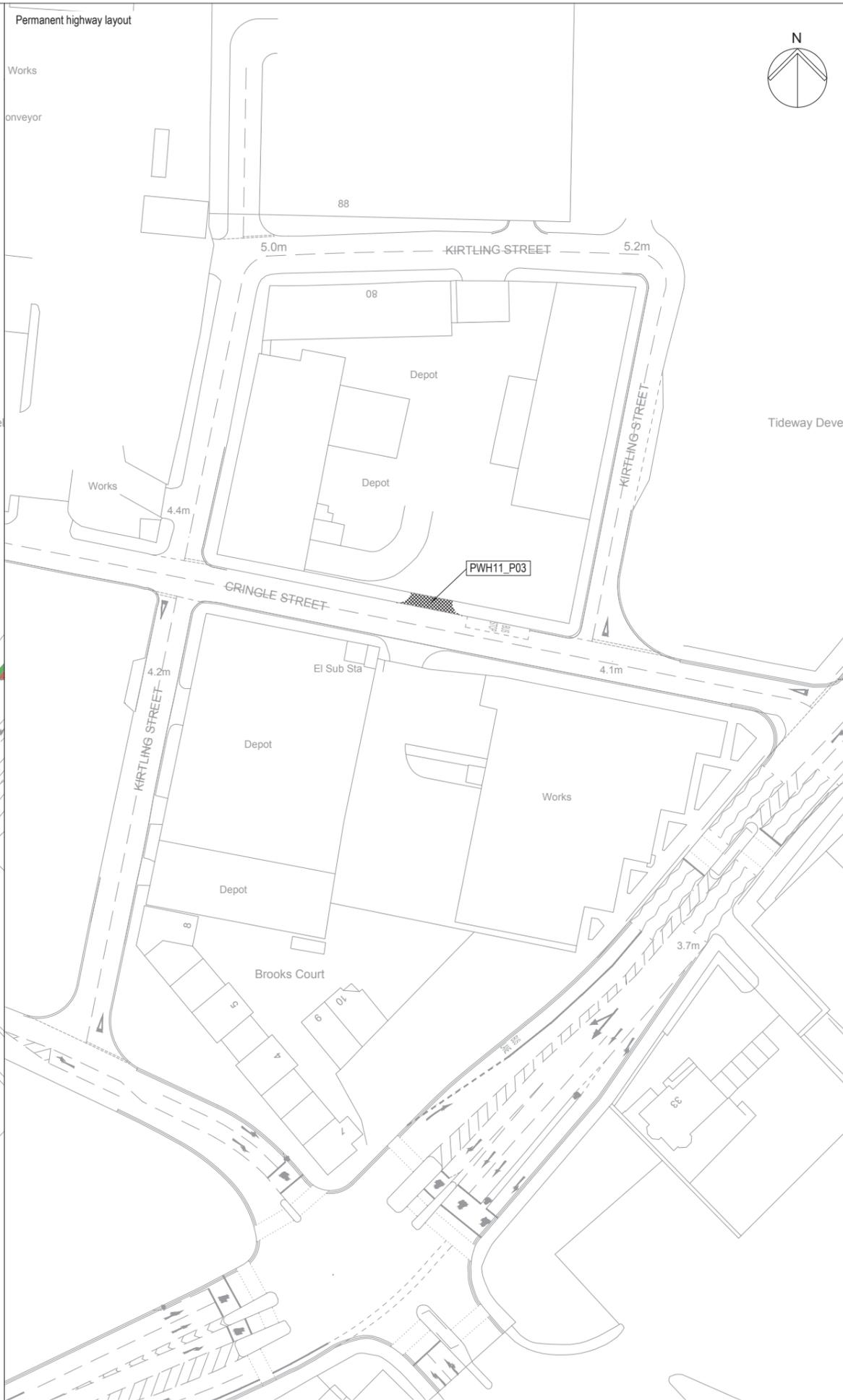
Permanent highway layout
Area 1 work

DCO-PP-13X-KRTST-150023
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

Thames Water

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Keyplan:

Coordinates are to be Ordnance Survey Datum OSGB36. All levels are in metres and relate to the Tunnel Datum which is 100 metres below Ordnance Datum Newlyn.

Key

Existing

- Parking restrictions
- On street parking
- Bus lane
- Pedestrian crossing
- Cycle lane / advance stop line

Revised

- Reinstated footway
- PWHT1_P03 See schedule of works

On Street Parking

Loading bay - Drop off for coaches and taxis

Standards

- Design Manual for Roads and Bridges, Dft, 1992
- Traffic Signs Regulations & General Directions, Tso, 2002
- Traffic Signs Manual, Dft, 2006
- Manual for Streets, Dft, 2007
- Manual for Streets 2, CIHT, 2010
- Designing for Deliveries, Fla, 1998
- Cycle Infrastructure Design Ltn 2/08, Dft, 2008
- Design of Pedestrian Crossings Ltn 2/95, Dft, 1995
- Guidance on the use of Tactile Paving Surfaces, Dft, 1998
- Accessible Bus Stop Design Guidance, TfL, 2006

Stage

Permanent phase

10m 0 40m

Scale 1:500 at A1
1:1000 if reproduced at A3

ILLUSTRATIVE

Location

Kirtling Street
London Borough of Wandsworth

Document Information

Application for Development Consent

Permanent highway layout
Area 1 work
(With Battersea PS)

DCO-PP-13X-KRTST-150024
January 2013

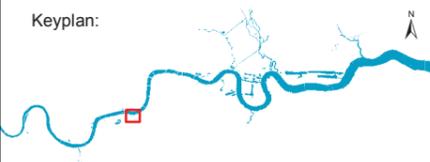
Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

Thames Water

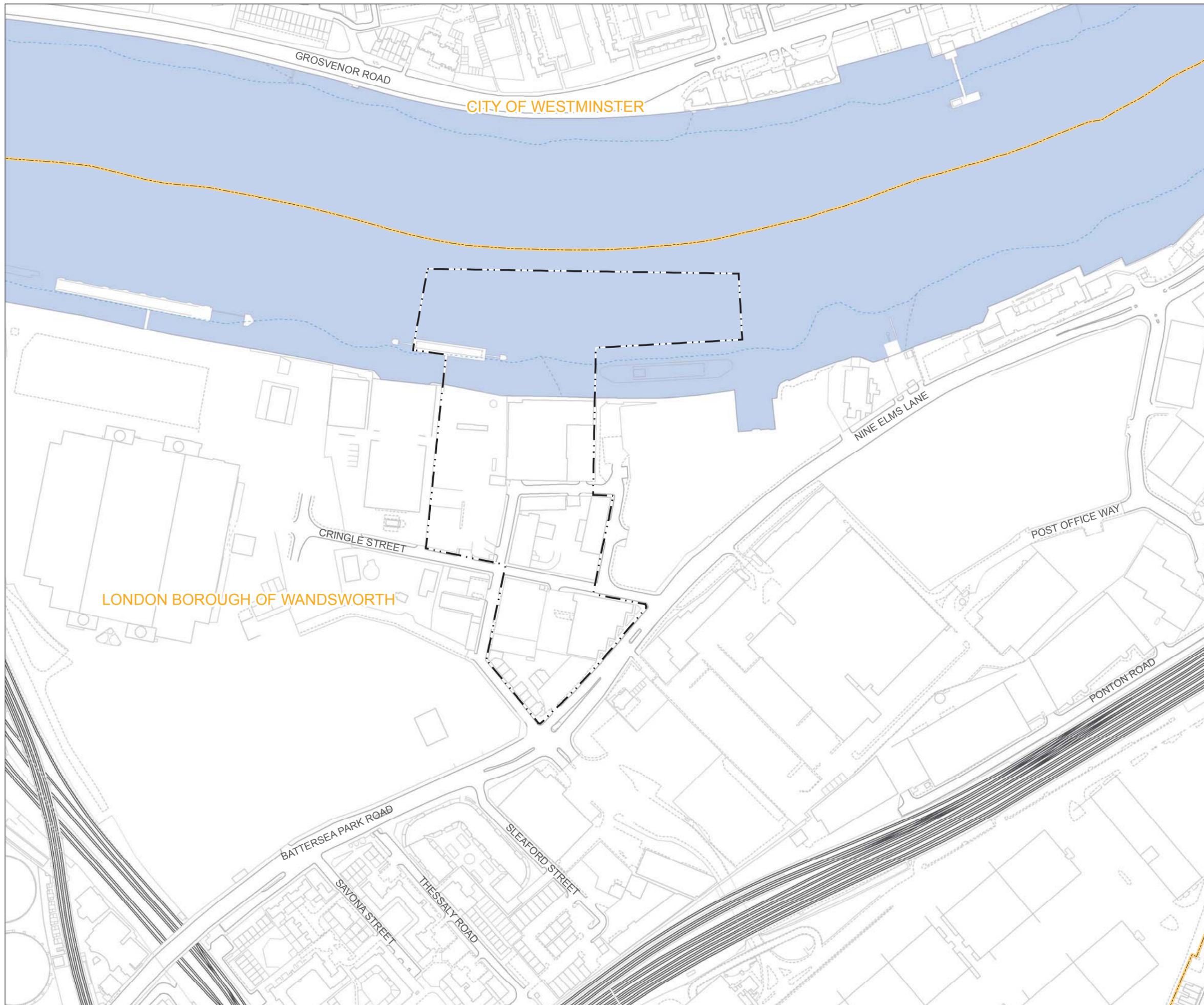
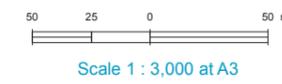
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2 Environmental impact assessment figures

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



FOR INFORMATION

Location
Kirtling Street
London Borough of Wandsworth

Document Information
Environmental Statement
Site location plan
Vol. 14 Figure 2.1.1

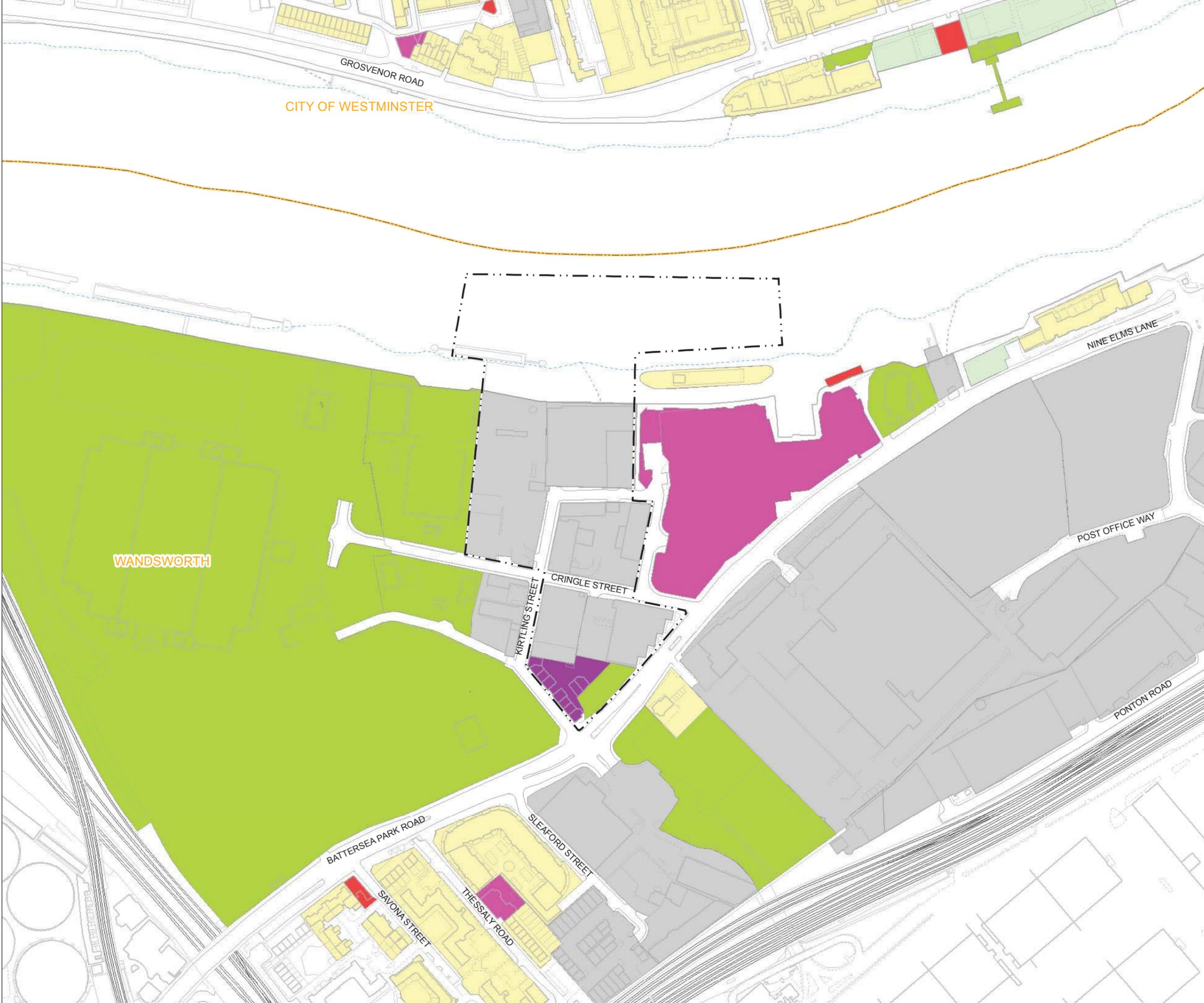
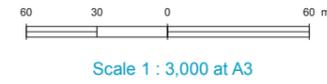
1PL03-MG-00707
January 2013



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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 B2-B8 (General Industrial / Storage or Distribution)
 - Class C3-C4 (Dwelling Houses)
 - Mixed Use
 - Other
 - Open Space



FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Land use
 Vol. 14 Figure 2.1.2

1PL03-MG-00749
 January 2013



Keyplan:

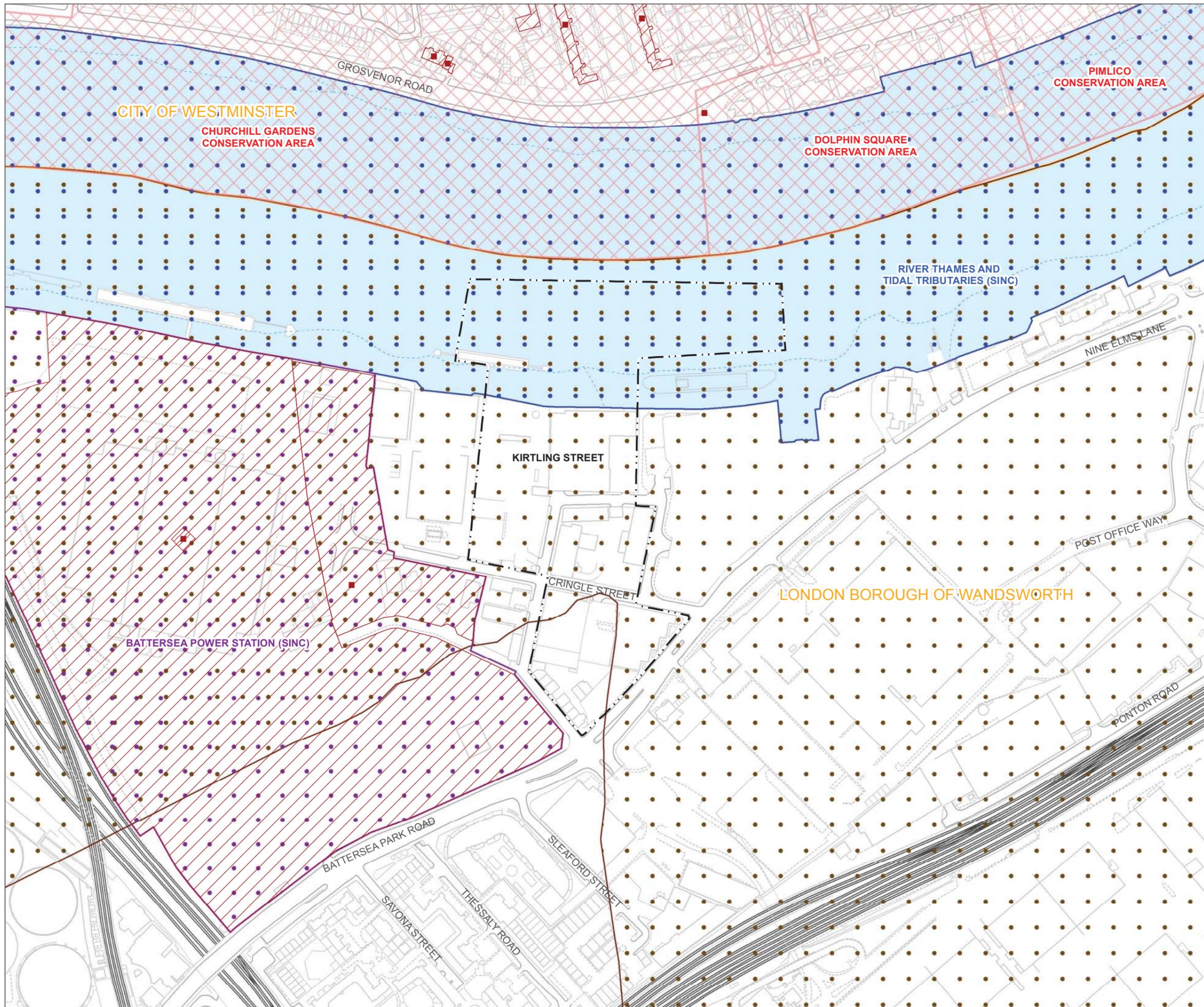


Key

- 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



Scale 1 : 3,000 at A3



FOR INFORMATION

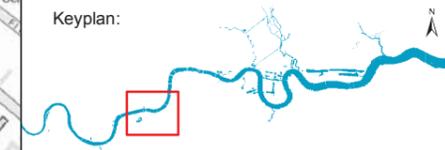
Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Environmental setting
 Vol. 14 Figure 2.1.3

1PL03-MG-00692
 January 2013



Keyplan:



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.



Scale 1 : 11,000 at A3

FOR INFORMATION

[Location](#)

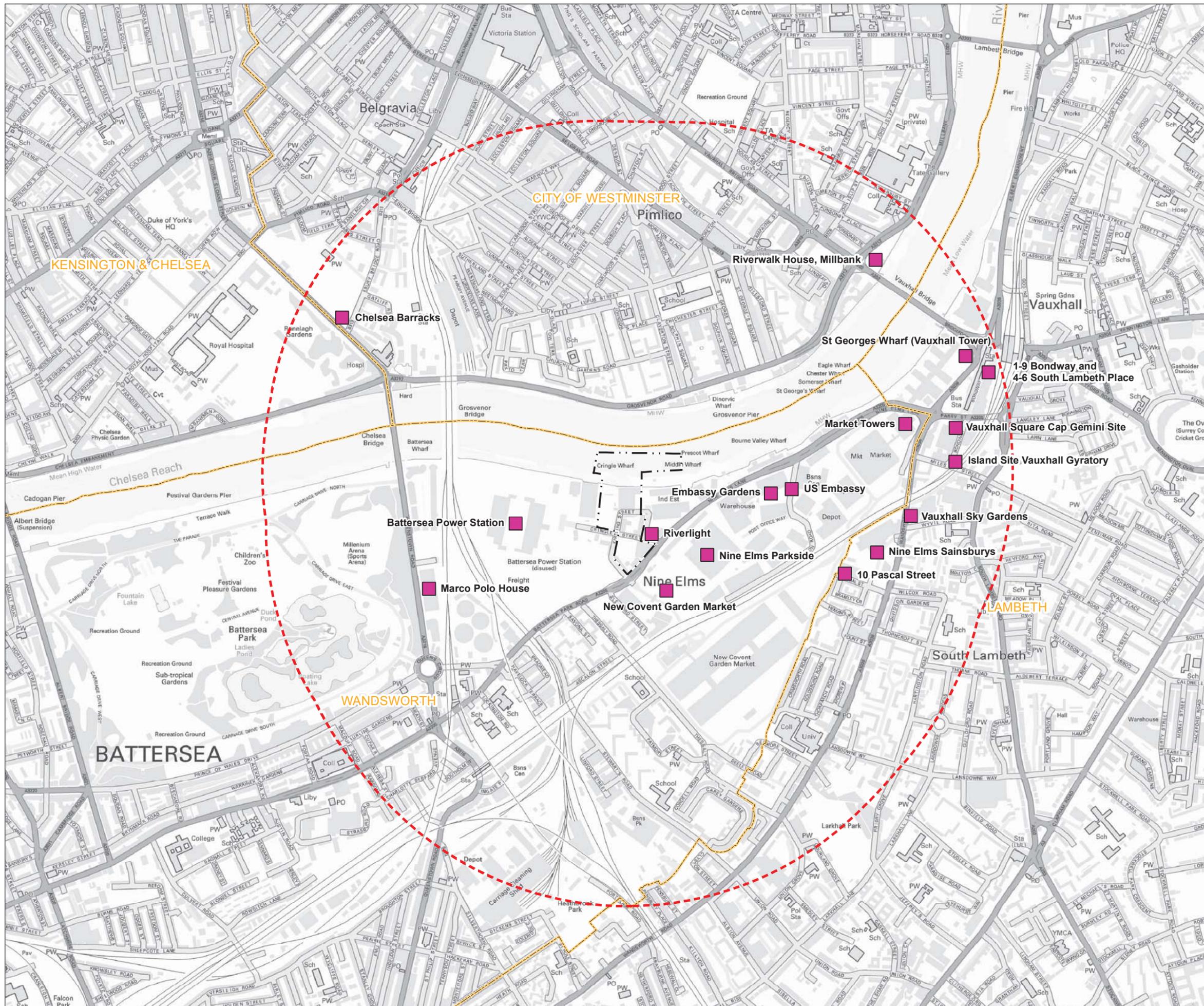
Kirtling Street
London Borough of Wandsworth

[Document Information](#)

Environmental Statement

Base case and cumulative development projects
Vol.14 Figure 3.5.1

1PL03-MG-00730
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)



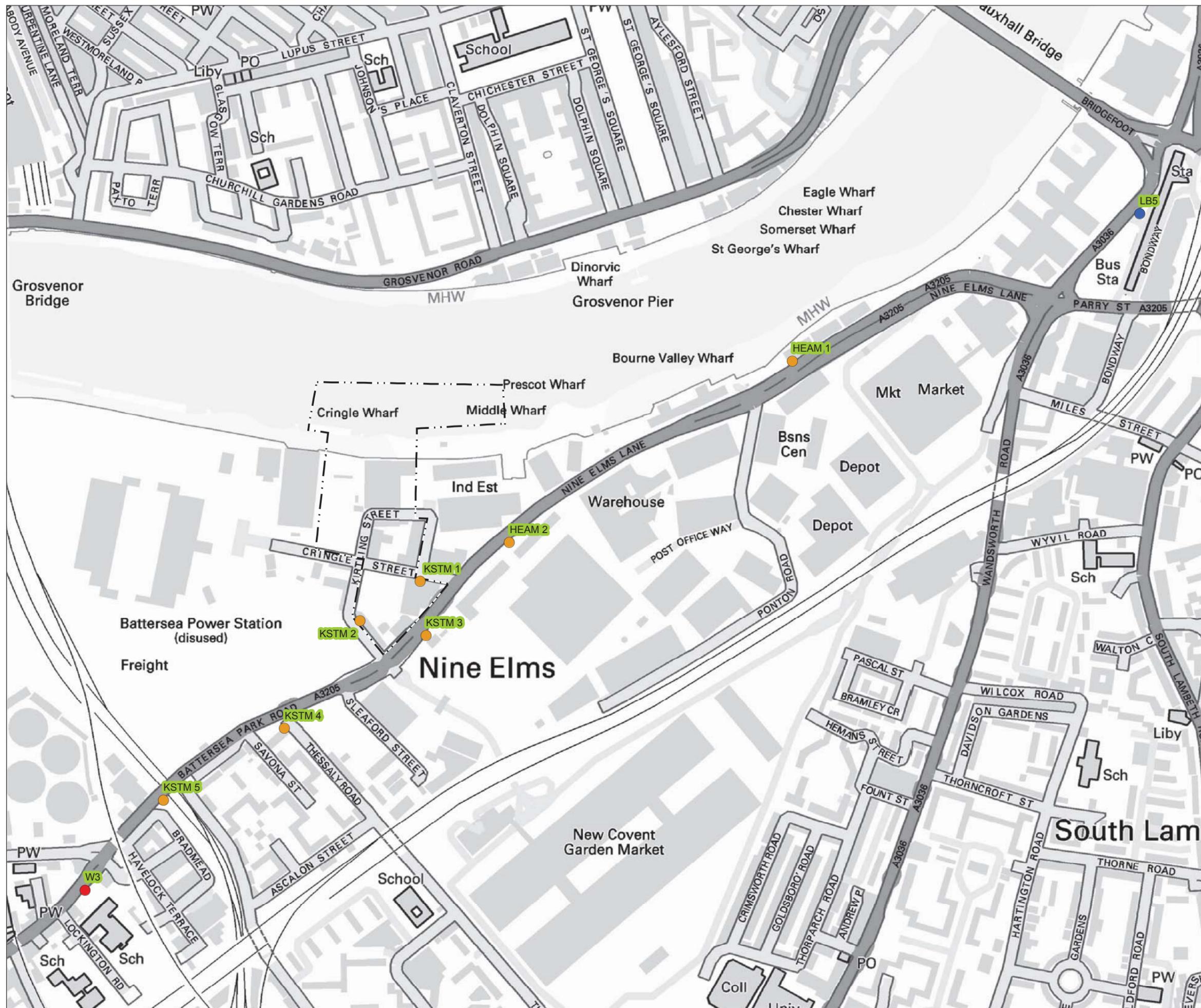
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FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

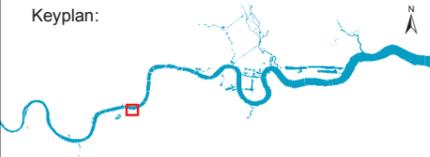
Document Information
Environmental Statement

Air quality and odour - air quality monitoring sites
 Vol.14 Figure 4.4.1
 1PL03-AQ-10948
 January 2013

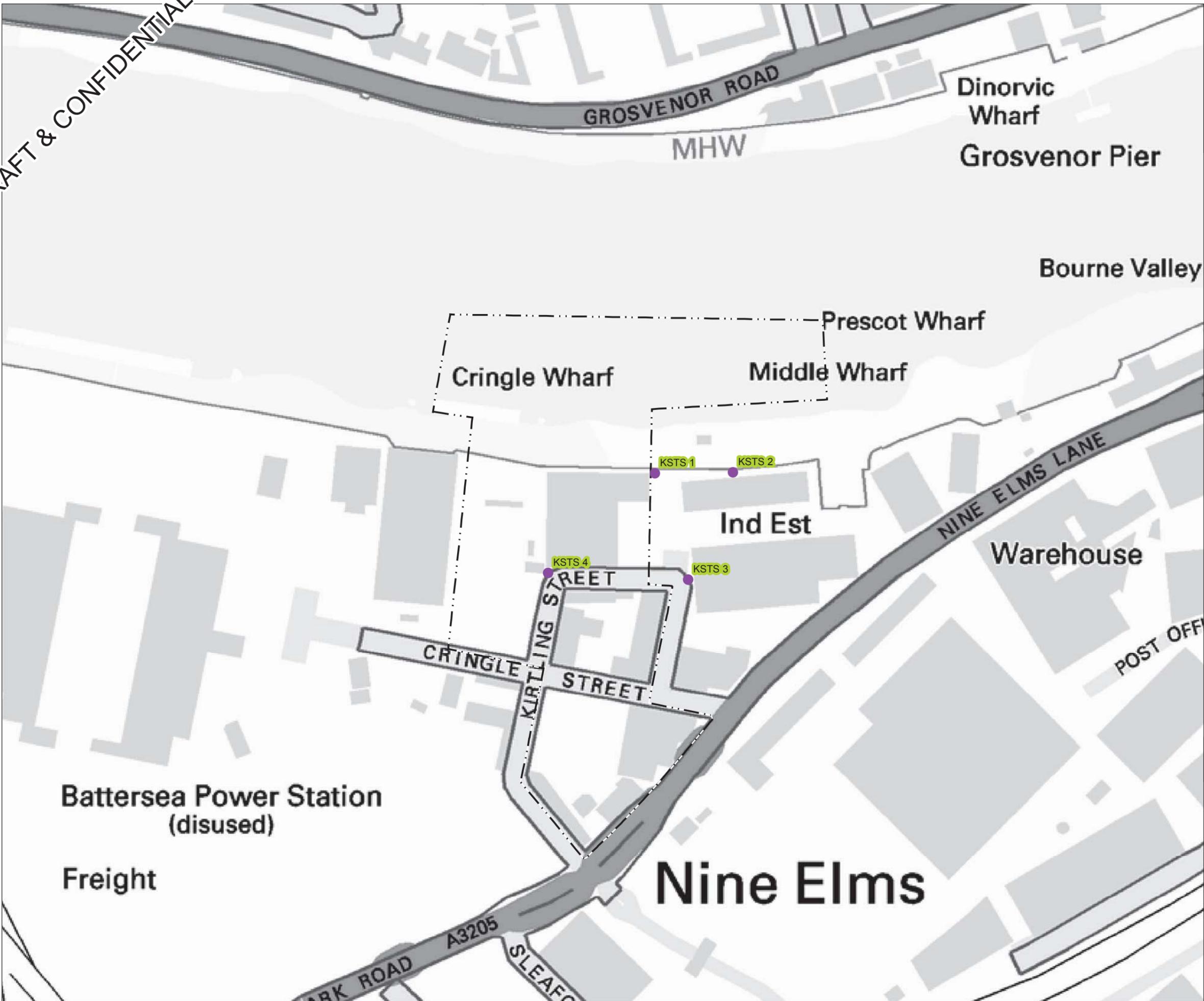


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- Key
- Limits of Land to be Acquired or Used
 - H₂S Monitoring Locations

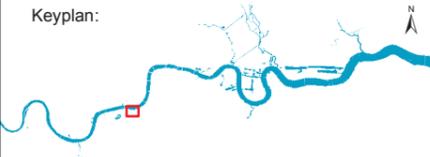


FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Air quality and odour - H₂S monitoring locations
 Vol.14 Figure 4.4.2
 1PL03-AQ-10949
 January 2013





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.

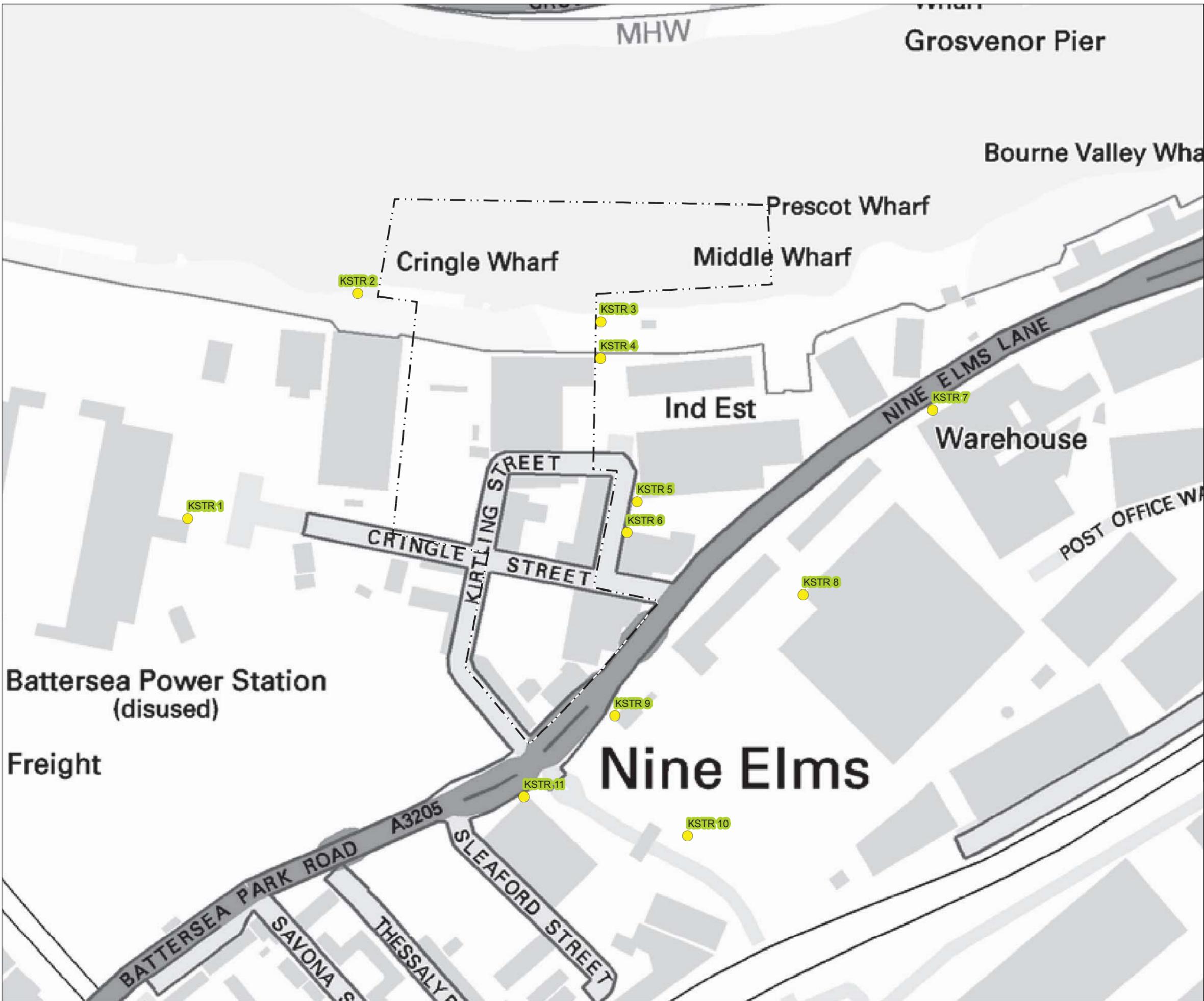
- KSTR 1 - Battersea Power Station Development (Proposed)
- KSTR 2 - River Thames
- KSTR 3 - Nine Elms Pier House Boats
- KSTR 4 - Thames Path
- KSTR 5 - Riverlight (Proposed)
- KSTR 6 - Tideway Industrial Estate Warehouses
- KSTR 7 - Embassy Gardens (Proposed)
- KSTR 8 - Nine Elms Parkside (Proposed)
- KSTR 9 - 33 Nine Elms Lane
- KSTR 10 - New Covent Garden Market (Proposed)
- KSTR 11 - Cash and Carry, Battersea Park Road



FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Air quality and odour - modelled air quality receptors
 Vol.14 Figure 4.4.3
 1PL03-AQ-10950
 January 2013



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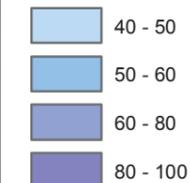
Keyplan:



Key

— Limits of Land to be Acquired or Used

Predicted Annual Mean NO₂ Concentration (µg/m³)



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Kirtling Street
London Borough of Wandsworth

Document Information

Environmental Statement

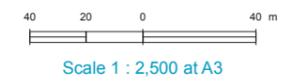
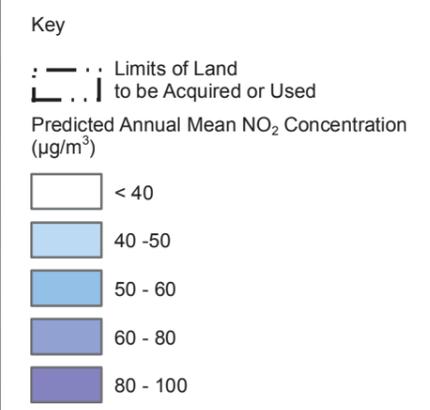
Air quality and odour - annual mean NO₂ for 2010 baseline
Vol.14 Figure 4.5.1
1PL03-AQ-10951
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames





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FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Air quality and odour - annual mean NO₂ for peak construction year base case
 Vol.14 Figure 4.5.2
 1PL03-AQ-10952
 January 2013



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Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean NO₂ Concentration (µg/m³)
- < 40
- 40 - 50
- 50 - 60
- 60 - 80
- 80 - 100



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

Kirtling Street
London Borough of Wandsworth

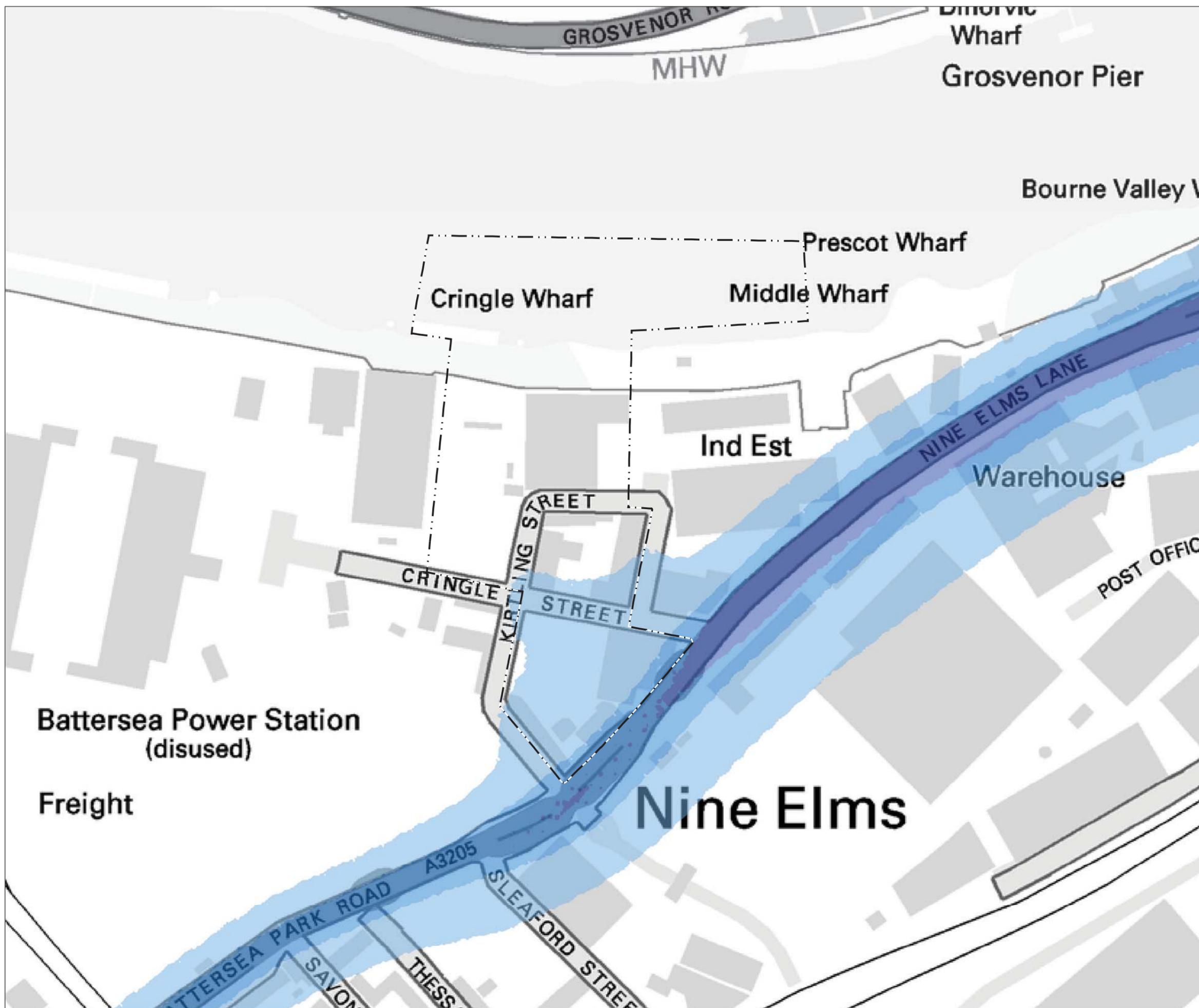
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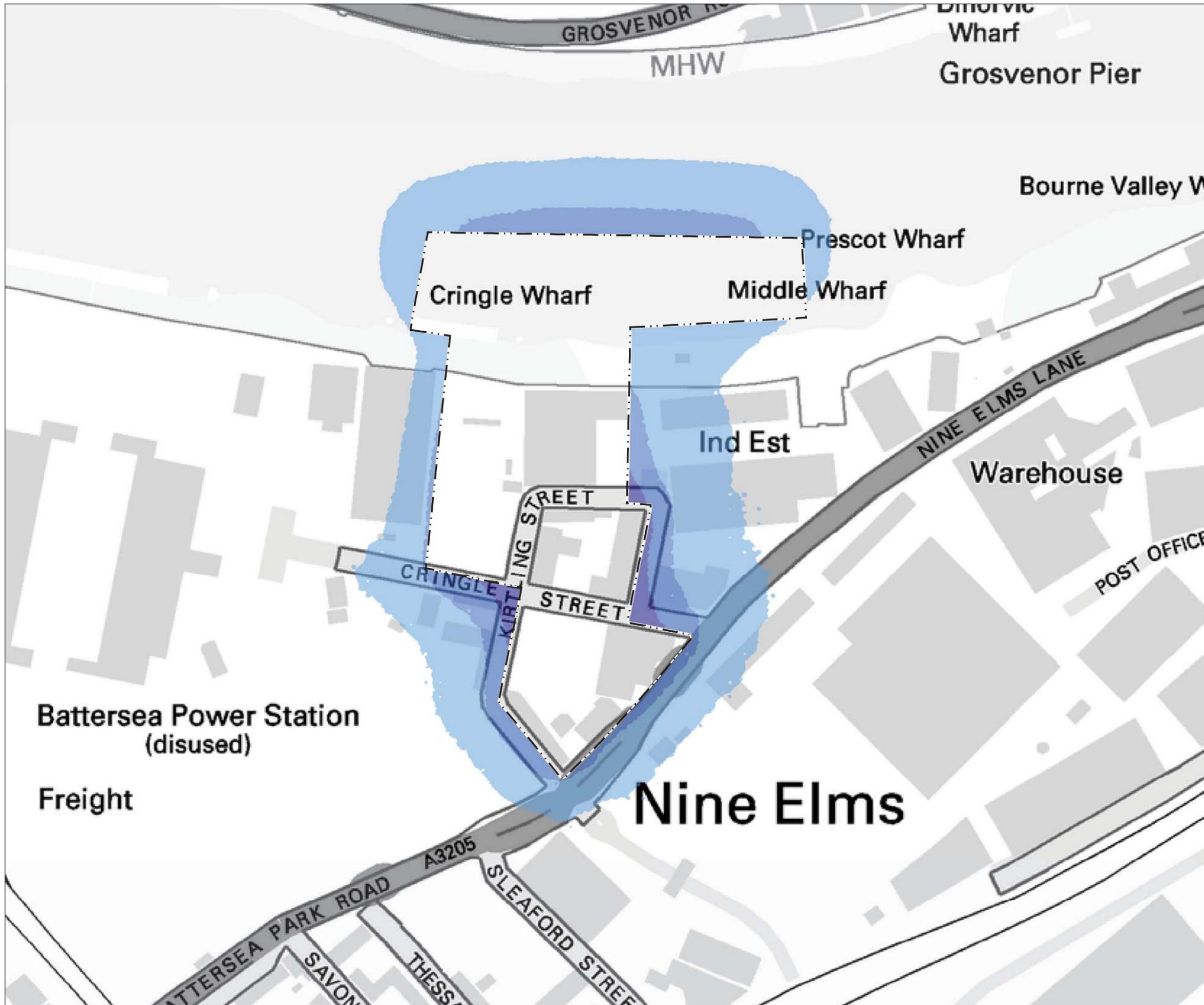
Environmental Statement

Air quality and odour - annual mean NO₂ for peak construction year development case Vol.14 Figure 4.5.3

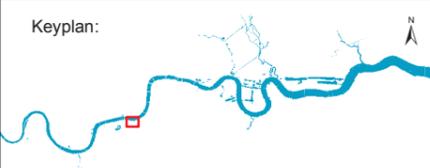
1PL03-AQ-10953
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames





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Key

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

Predicted Annual Mean NO₂ Impact (µg/m³)

[White box]	< 1
[Light blue box]	1 - 2
[Medium blue box]	2 - 3
[Dark blue box]	3 - 4.5



FOR INFORMATION

Location
 Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Air quality and odour - annual mean NO₂ impact for peak construction year
 Vol.14 Figure 4.5.4
 1PL03-AQ-10954
 January 2013



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Keyplan:



Key

- Limits of Land to be Acquired or Used
- Predicted Annual Mean PM₁₀ Concentration (µg/m³)
- 21 - 24
- 24 - 27
- 27 - 30
- 30 - 34



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

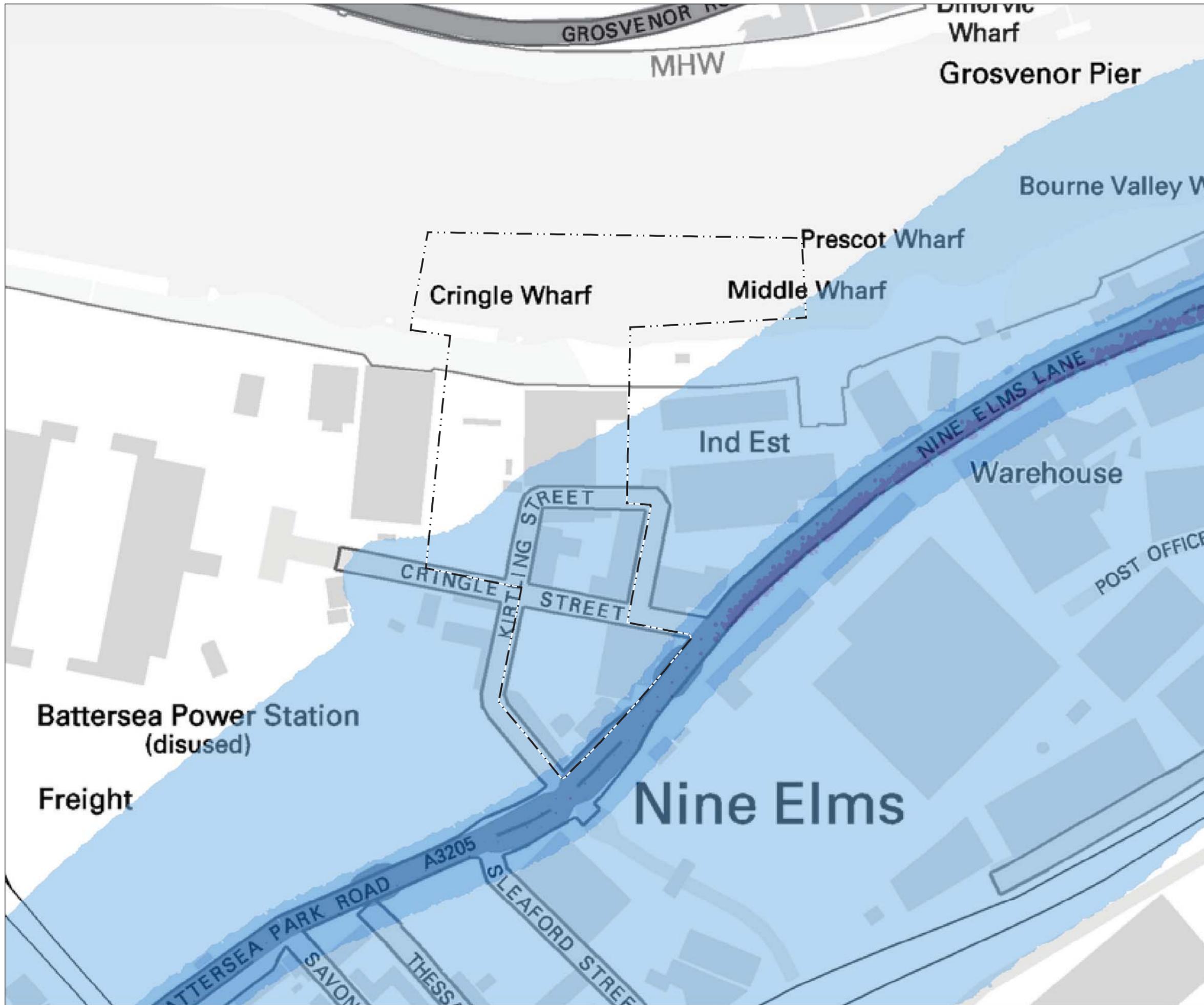
Kirtling Street
London Borough of Wandsworth

Document Information

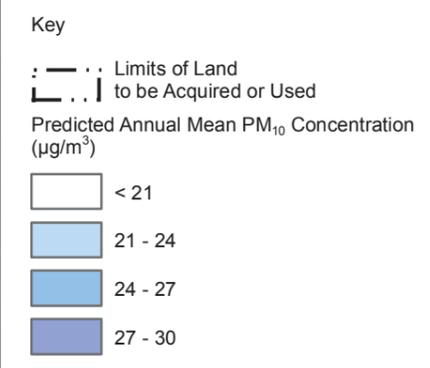
Environmental Statement

Air quality and odour - annual mean PM₁₀
for 2010 baseline
Vol.14 Figure 4.5.5
1PL03-AQ-10955
January 2013





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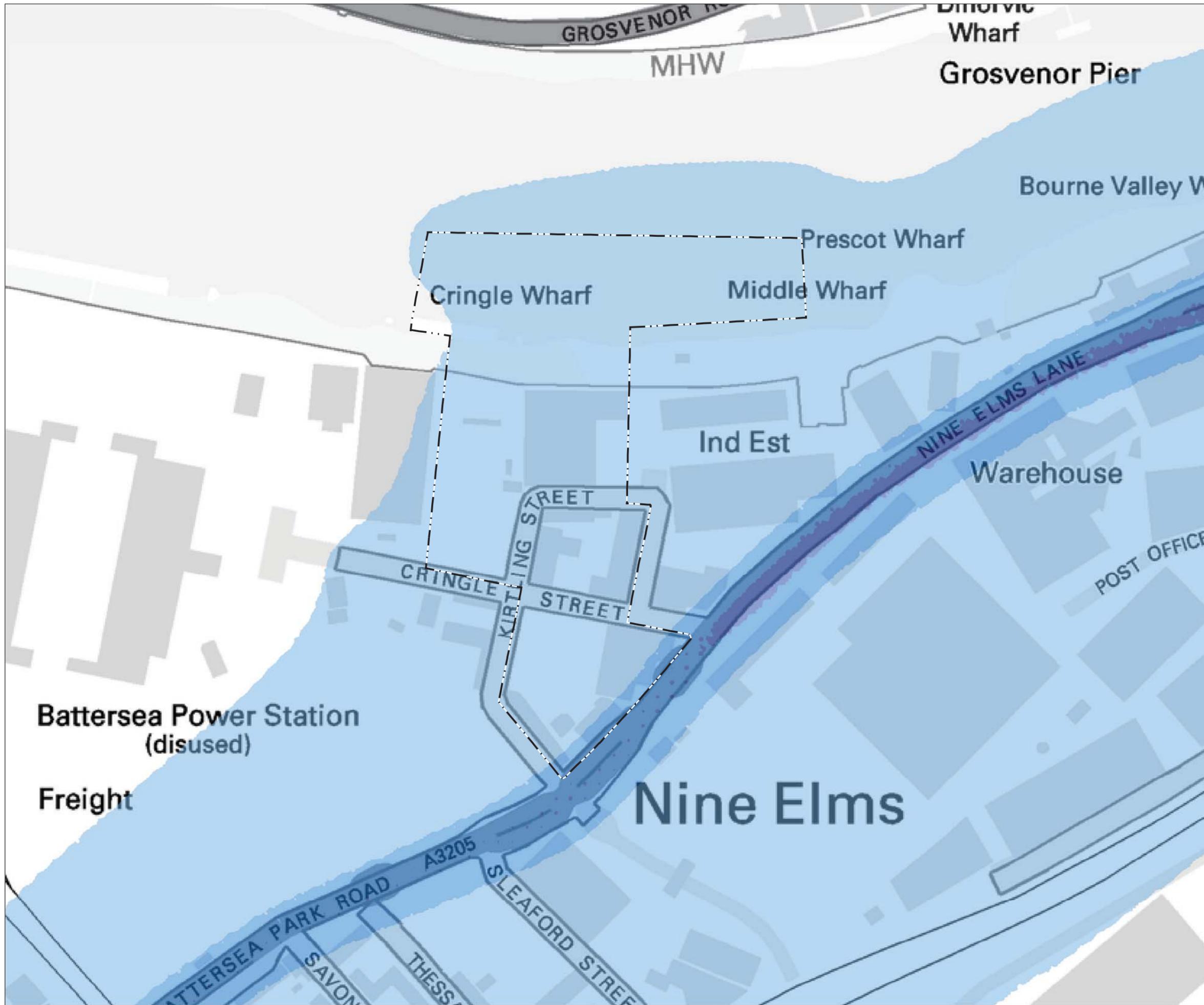


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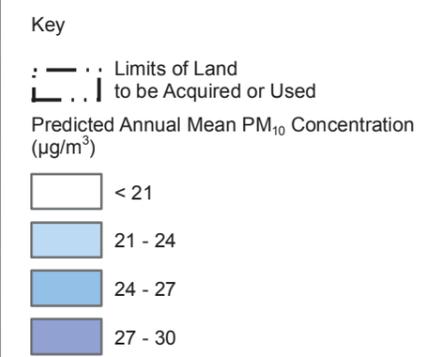
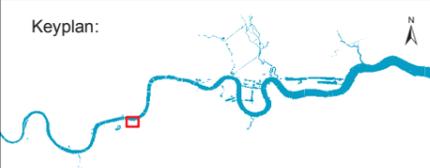
Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Air quality and odour - annual mean PM₁₀ for peak construction year base case
 Vol.14 Figure 4.5.6
 1PL03-AQ-10956
 January 2013





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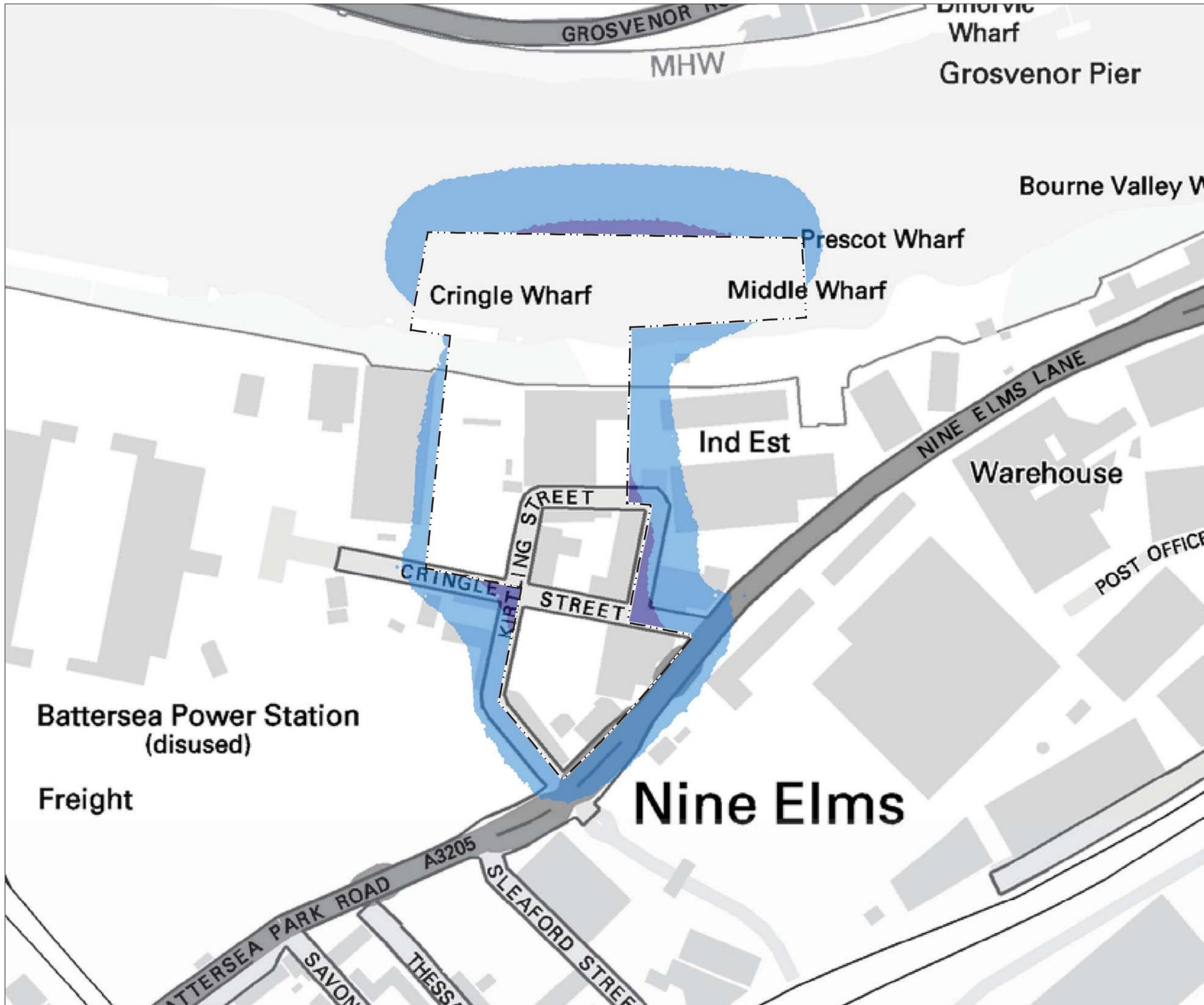


FOR INFORMATION

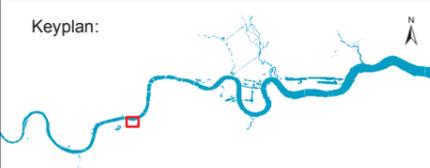
Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Air quality and odour - annual mean PM₁₀ for peak construction year development case Vol.14 Figure 4.5.7
 1PL03-AQ-10957
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Key

- Limits of Land to be Acquired or Used

Predicted Annual Mean PM₁₀ Impact (µg/m³)

- < 0.2
- 0.2 - 0.4
- 0.4 - 0.6



FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Air quality and odour - annual mean PM₁₀ impact for peak construction year
 Vol.14 Figure 4.5.8
 1PL03-AQ-10958
 January 2013





Key

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

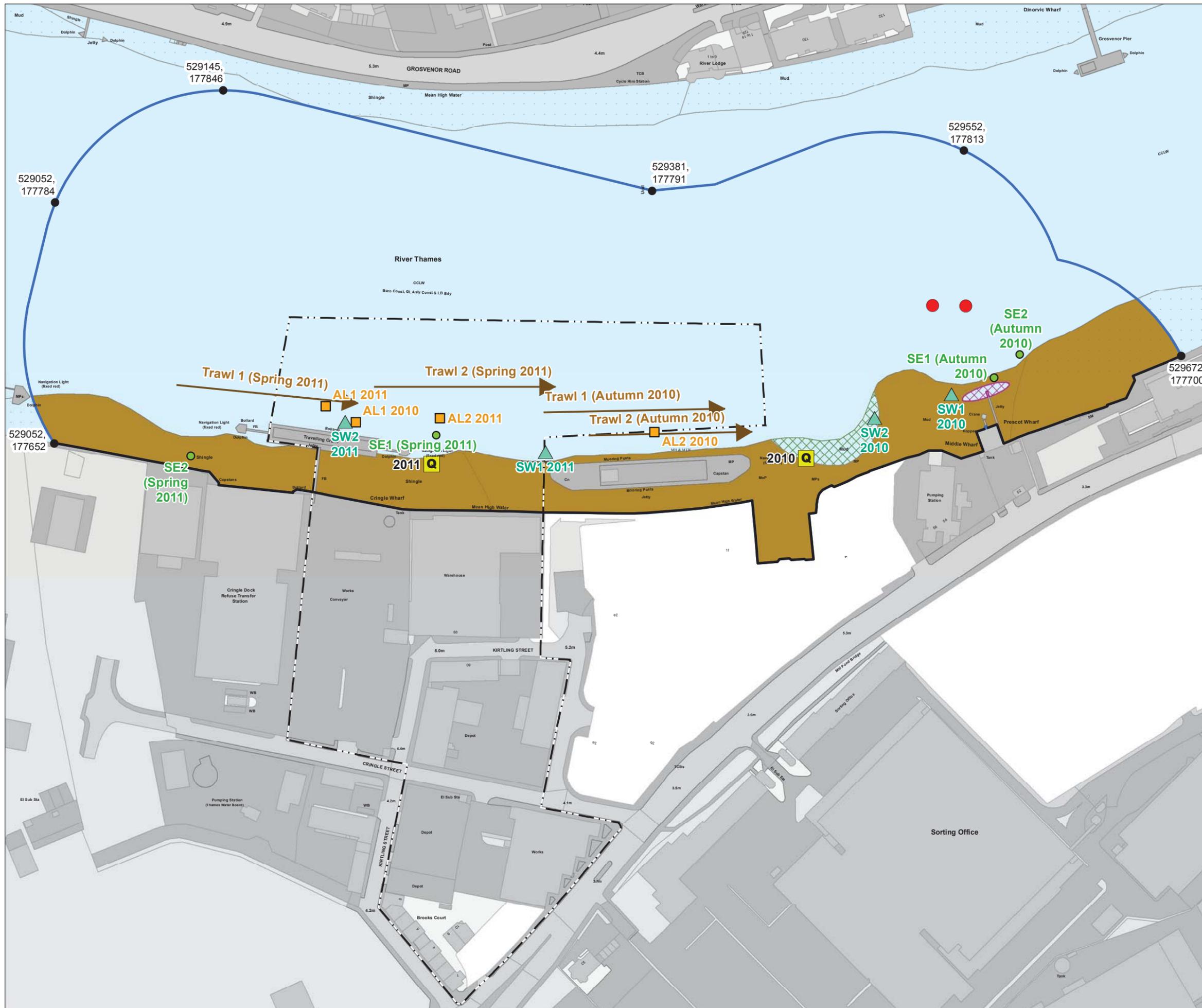


Scale 1 : 2,000 at A3

FOR INFORMATION

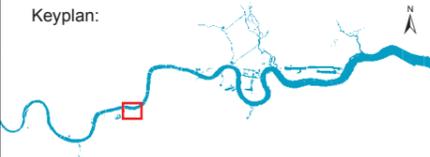
Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Aquatic ecology - habitats and sampling locations
 Vol.14 Figure 5.4.1
 1PL03-AE-20096
 January 2013



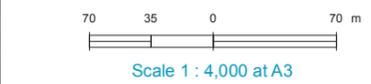


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- Key
- - - Limits of Land to be Acquired or Used
 - 250m from Site
 - Local Authority Boundary
- Sites of Importance for Nature Conservation (SINC)
- Metropolitan Importance
 - Borough Importance
 - Local Importance
 - Local Nature Reserves

Note:
Aerial Imagery taken in 2010, before assessment.



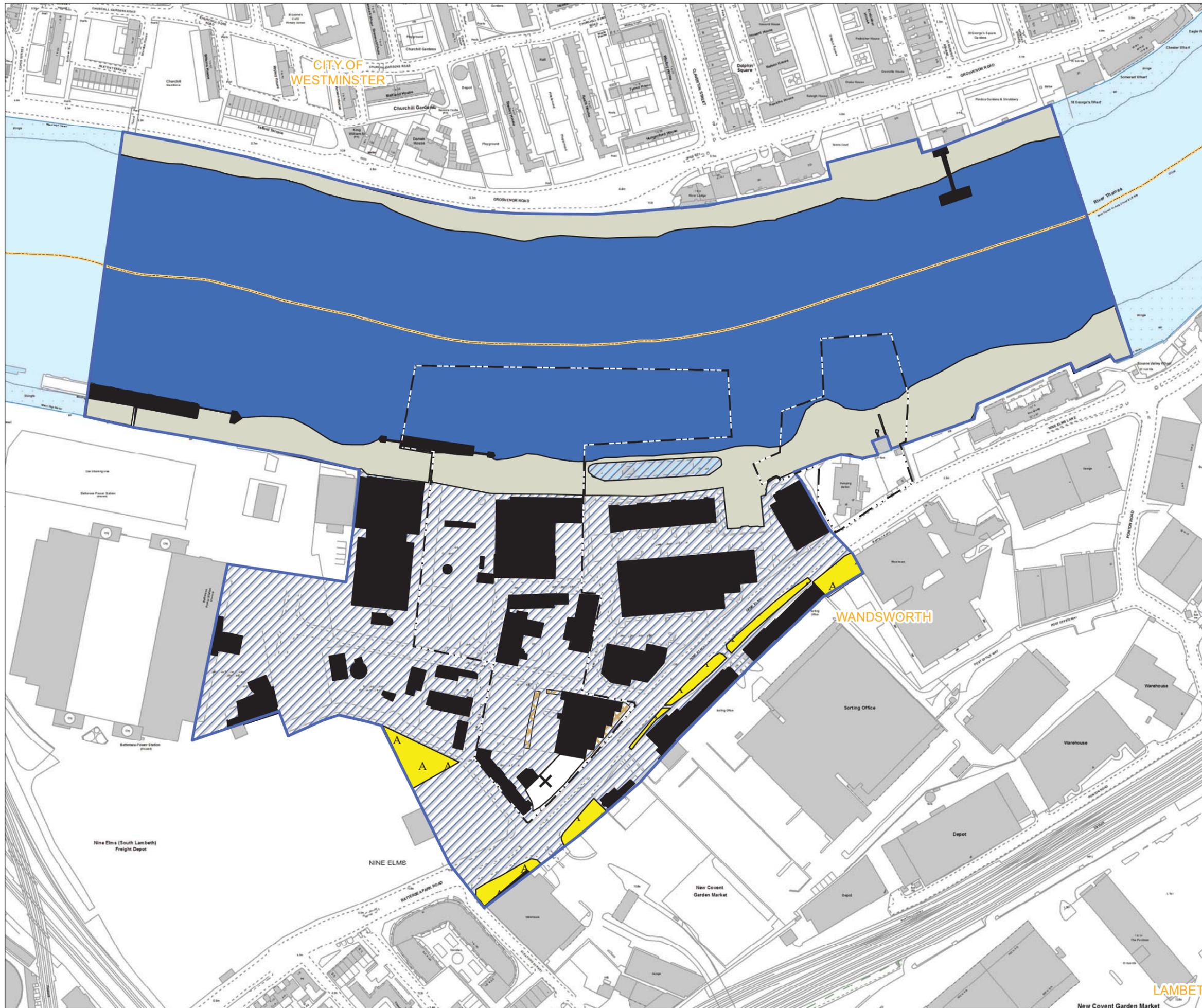
FOR INFORMATION

Location
Kirtling Street
London Borough of Wandsworth

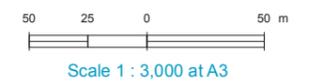
Document Information
Environmental Statement
Terrestrial ecology - designated sites

Vol. 14 Figure 6.4.1
1PL03-TE-40123
January 2013





- Key**
- Limits of Land to be Acquired or Used
 - Survey Area
 - Local Authority Boundary
 - Built-Up Areas - Buildings
 - Cultivated/Disturbed Land - Amenity Grassland
 - Cultivated/Disturbed Land - Introduced Shrub
 - ▨ Hard Standing
 - Cultivated/Disturbed Land - Ephemeral/Short Perennial
 - Intertidal - Mud/Sand
 - Running Water



FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Terrestrial ecology – Phase 1 Habitat Survey

Vol. 14 Figure 6.4.2
 1PL03-TE-40111
 January 2013



LAMBETH
 New Covent Garden Market

Bat Triggering Survey (Remote Recording) at Anabat™ Location 1	Date
Night 1	06/05/2011
Night 2	07/05/2011
Night 3	08/05/2011

Bat Triggering Survey (Remote Recording) at Anabat™ Locations 2 and 3	Date
Night 1	29/09/2012
Night 2	30/09/2012
Night 3	01/10/2012

Anabat™ Location 1	
Bat Species	Maximum Number of Bat Passes*
Common Pipistrelle	420
Soprano Pipistrelle	3
Nathusius' Pipistrelle	2
Noctule	2

Anabat™ Locations 2 and 3
No Bats Recorded

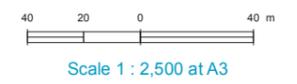
*on any one night during survey period.

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- Key**
- : Limit of Land to be Acquired or Used
 - Survey Area
 - Local Authority Boundary
 - Bat Triggering Survey (Remote Recording)
 - Anabat™ Location (3)
 - Activity Survey (Dawn at 04:45 on 28/06/2011)

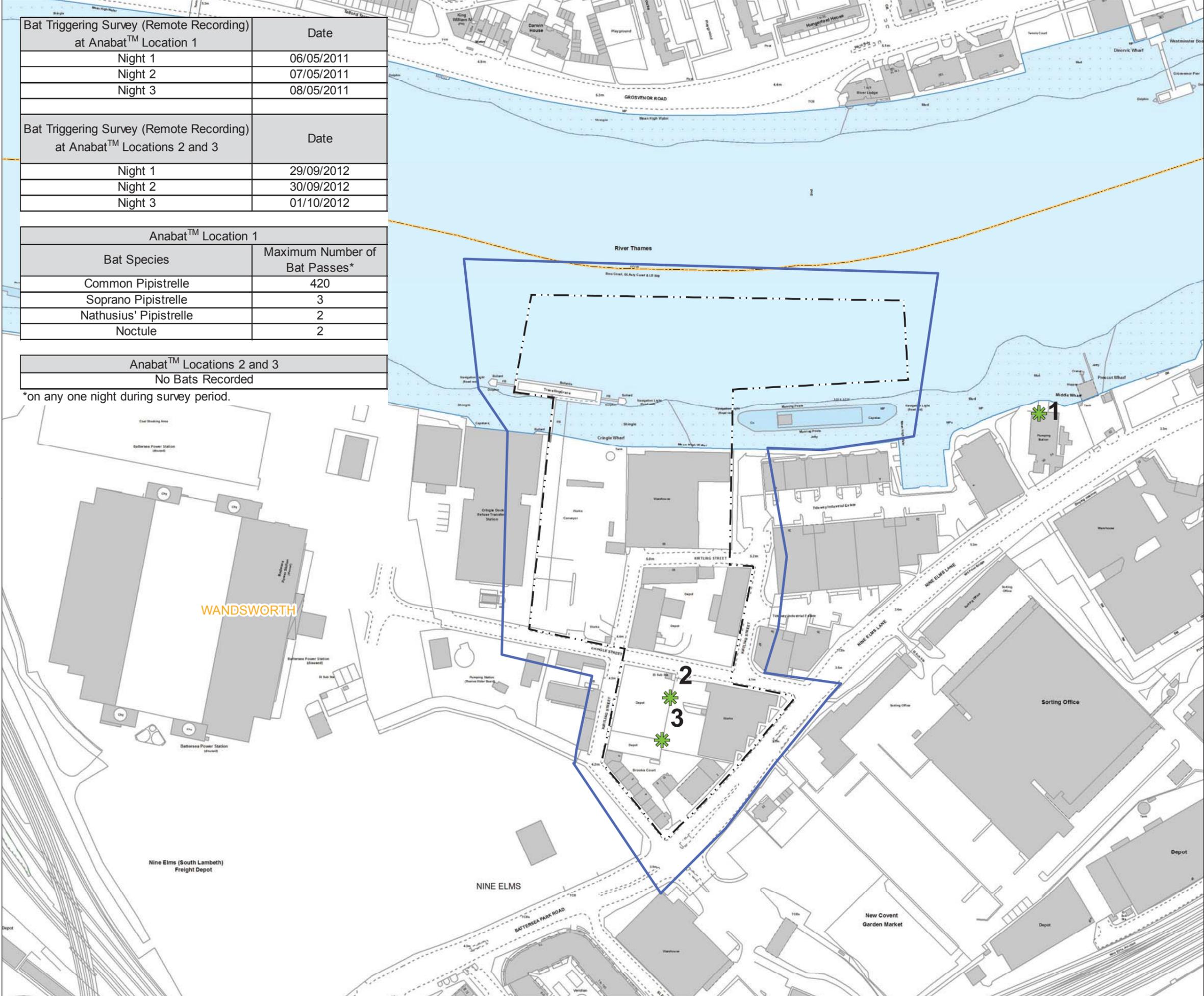
Note:
No bats detected during surveys.



FOR INFORMATION

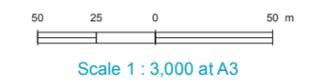
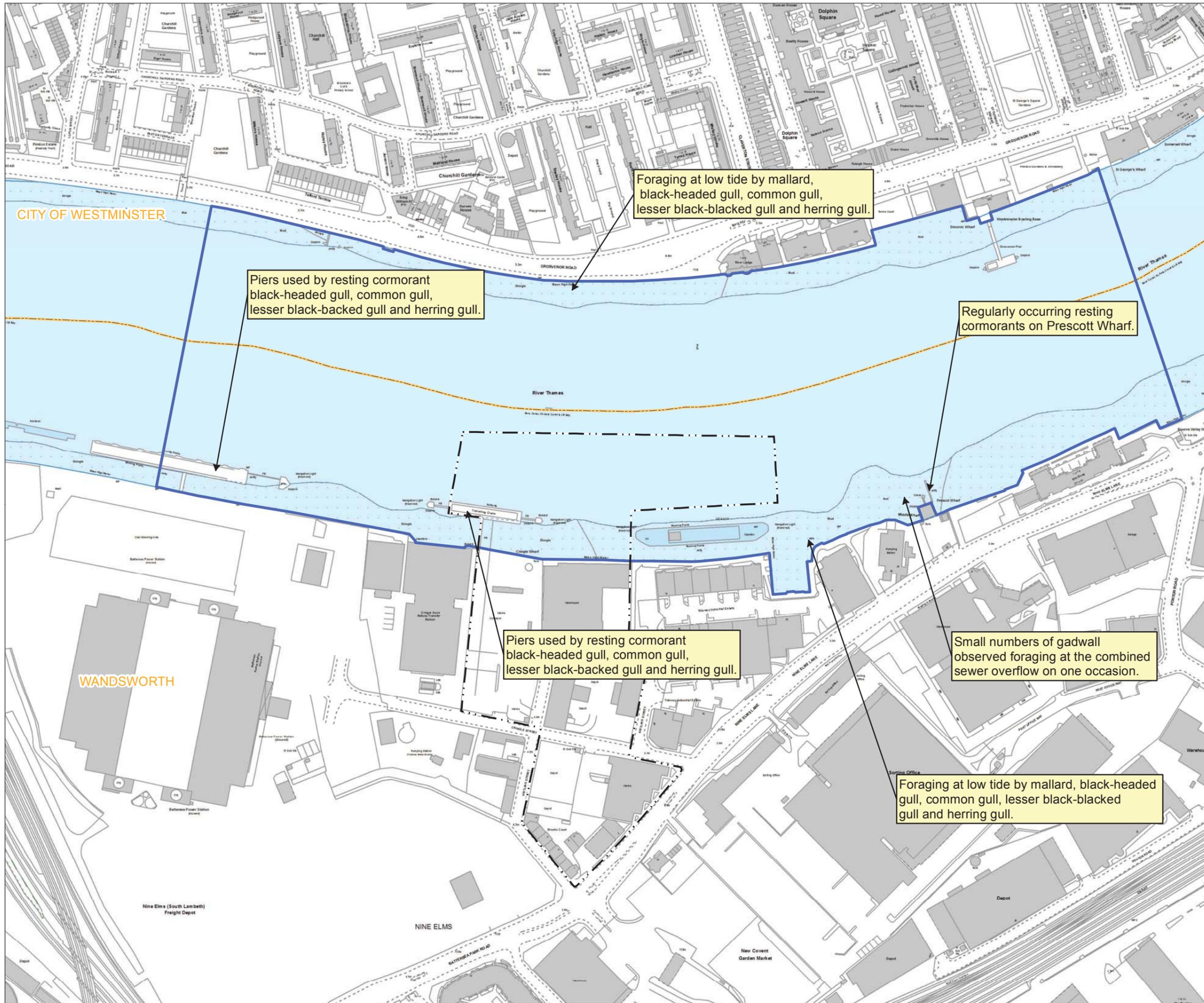
Location
Kirtling Street
London Borough of Wandsworth

Document Information
Environmental Statement
Terrestrial ecology – bat triggering (remote recording) and bat activity survey
Vol. 14 Figure 6.4.3
1PL03-TE-40193
January 2013





- Key
- Limits of Land
 - - - to be Acquired or Used
 - ▭ Survey Boundary
 - ▭ Local Authority Boundary



Scale 1 : 3,000 at A3

FOR INFORMATION

Location
Kirtling Street
London Borough of Wandsworth

Document Information
Environmental Statement
Terrestrial ecology – wintering birds survey

Vol. 14 Figure 6.4.4
1PL03-TE-40077
January 2013



Keyplan:



Key

- Limits of Land
- .-.- to be Acquired or Used
- ▭ Survey Area
- ▭ Local Authority Boundary
- ▨ Limited visibility of survey area
- Black Redstart Location Recorded Within the Last 10 Years (GiGL)
- Possible Black Redstart Nest
- Black Redstart Sighting on 21/06/2012



Scale 1 : 2,500 at A3

FOR INFORMATION

Location

London Borough of Newham
London Borough of Tower Hamlets

Document Information

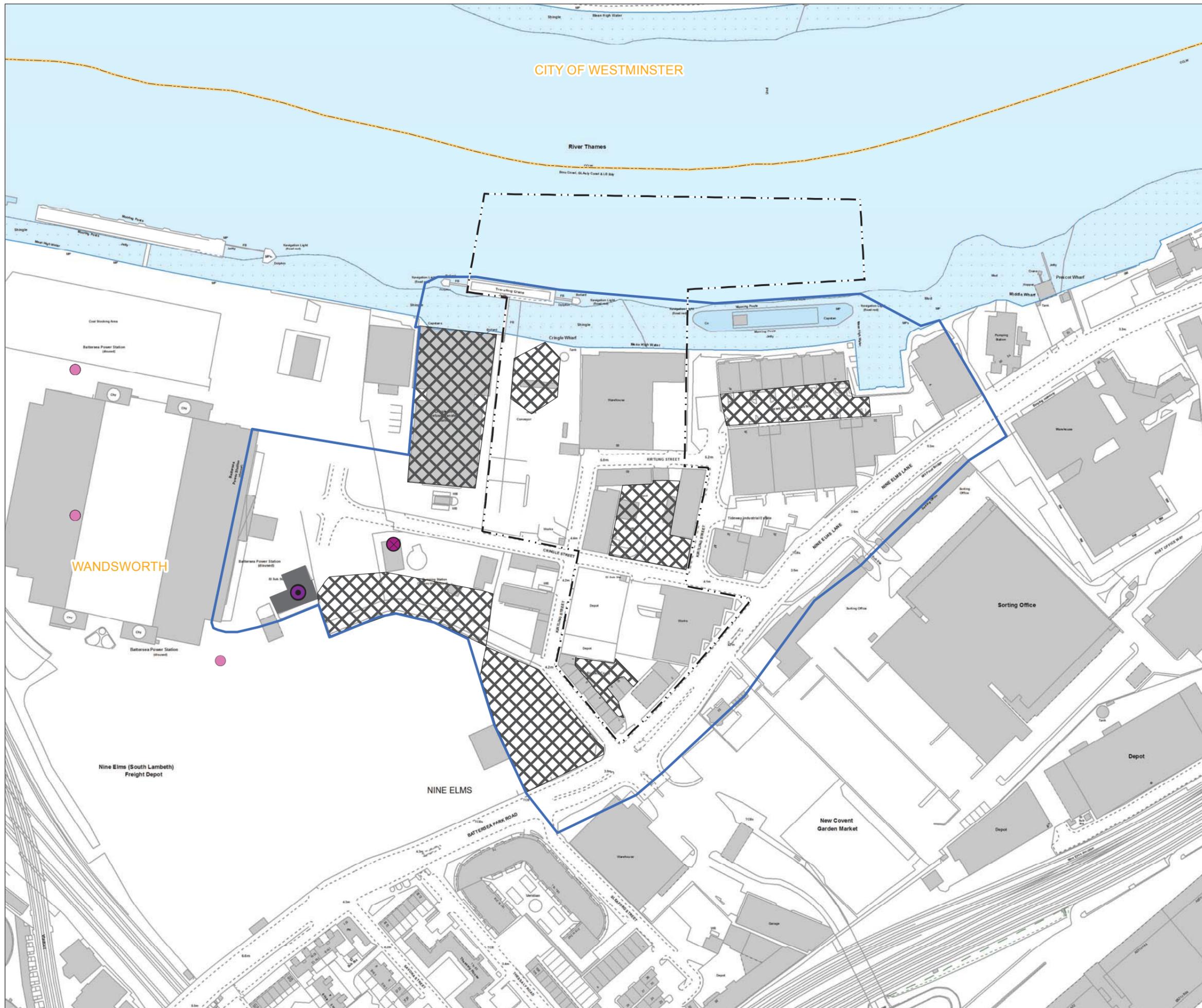
Environmental Statement

Terrestrial ecology – black redstart survey

Vol. 14 Figure 6.4.5

1PL03-TE-40059

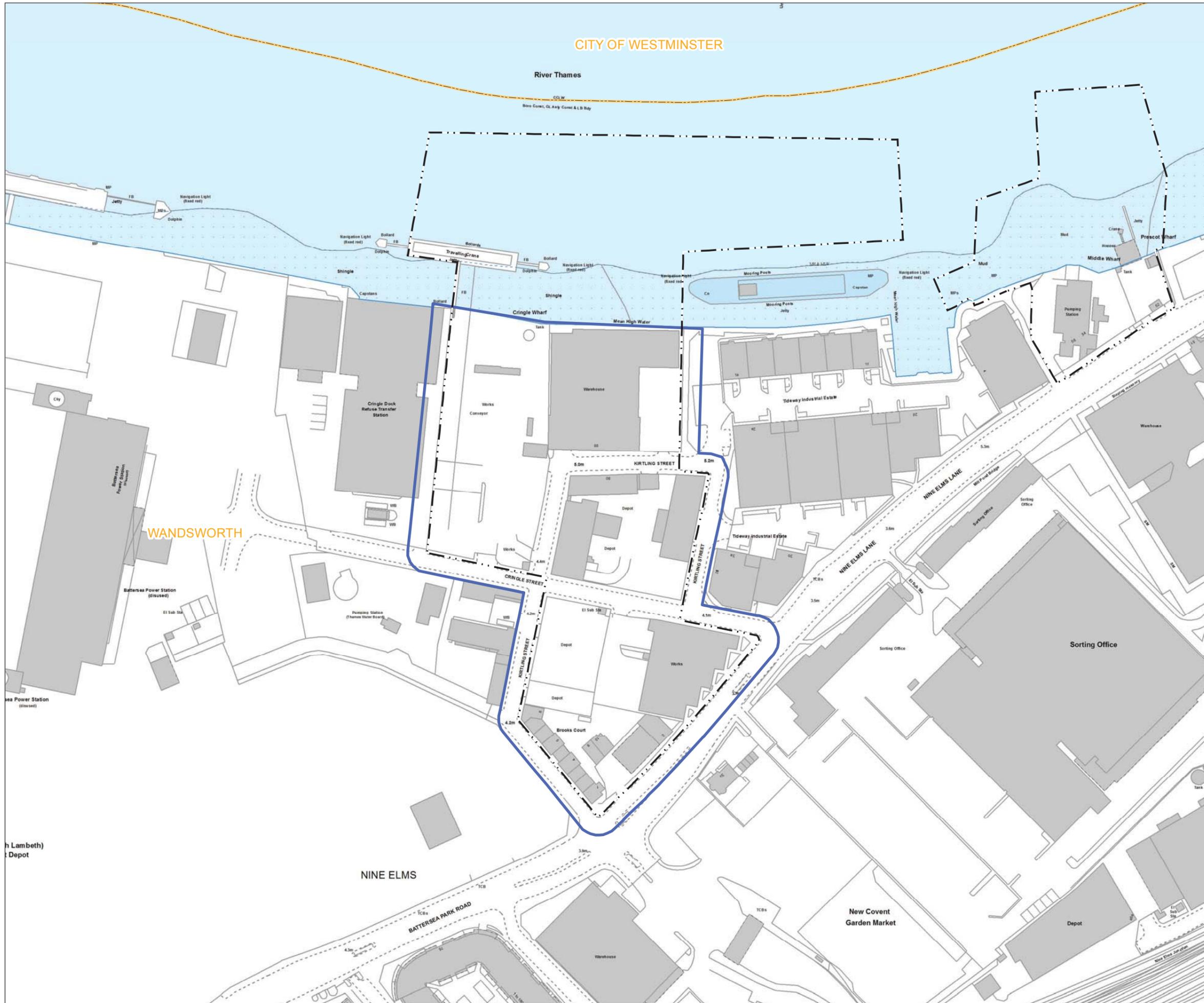
January 2013



CITY OF WESTMINSTER

River Thames

Boys Court, G. Amy Court & L.B. Bay



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Keyplan:



Key

- Limits of Land
- to be Acquired or Used
- Survey Area
- Local Authority Boundary

Note:
No field signs recorded during survey.



Scale 1 : 2,000 at A3

FOR INFORMATION

Location

Kirtling Street
London Borough of Wandsworth

Document Information

Environmental Statement
Terrestrial ecology - invasive plant survey

Vol 14 Figure 6.4.6
1PL03-TE-40088
January 2013



Keyplan:



Key

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

The reference numbers for historic environment features correspond to the descriptions in the 'Gazetteer of known heritage assets' in Environmental Statement Vol. 14 Appendix E.1

Note: Archaeological Priority Zones/Conservation Areas not shown



Scale 1 : 5,000 at A3

FOR INFORMATION

Location

Kirtling Street
London Borough of Wandsworth

Document Information

Environmental Statement
Historic environment -
historic environment features map
Vol.14 Figure 7.4.1

1PL03-HE-60091
January 2013

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Keyplan:

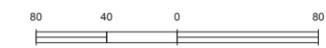


Key

- Limits of Land to be Acquired or Used
- Local Authority Boundary
- Statutorily Listed Building
- Conservation Areas
- 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. 14 Appendix E.1



Scale 1 : 4,000 at A3

FOR INFORMATION

Location

Kirtling Street
London Borough of Wandsworth

Document Information

Environmental Statement

Historic environment - historic character and setting of heritage assets
Vol. 14 Figure 7.4.2

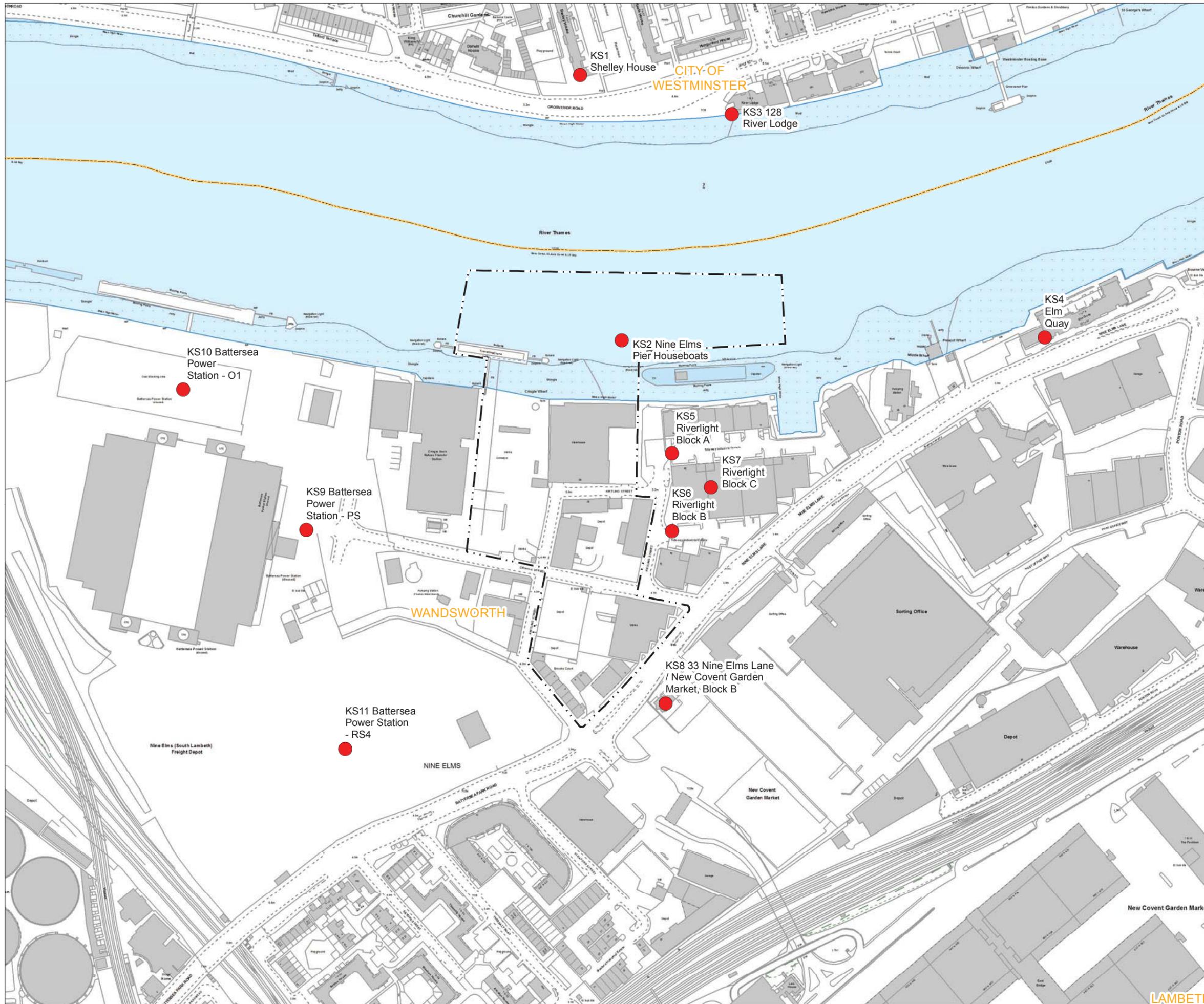
1PL03-HE-65214
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames





- 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.



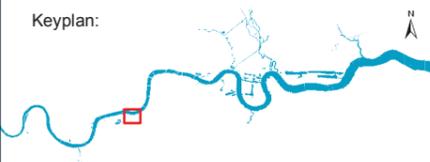
Scale 1 : 3,000 at A3

FOR INFORMATION

Location
Kirtling Street
London Borough of Wandsworth

Document Information
Environmental Statement
Noise and vibration - receptor locations

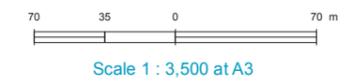
Vol.14 Figure 9.4.1
1PL03-NV-40133
January 2013



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

- Receptors and Site Context Features**
1. Brooks Court
 2. Cemex Concrete Batching Works
 3. Heathwall Pumping Station Proposed Construction Site
 4. Cringle Dock Waste Transfer Station
 5. Former V&A Storage Warehouse
 6. Storage and Warehouse Buildings
 7. Duck Tours Vehicle Storage Facility
 8. Site of Cleared Petrol Station
 9. Houseboats
 10. Battersea Power Station (Disused)

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

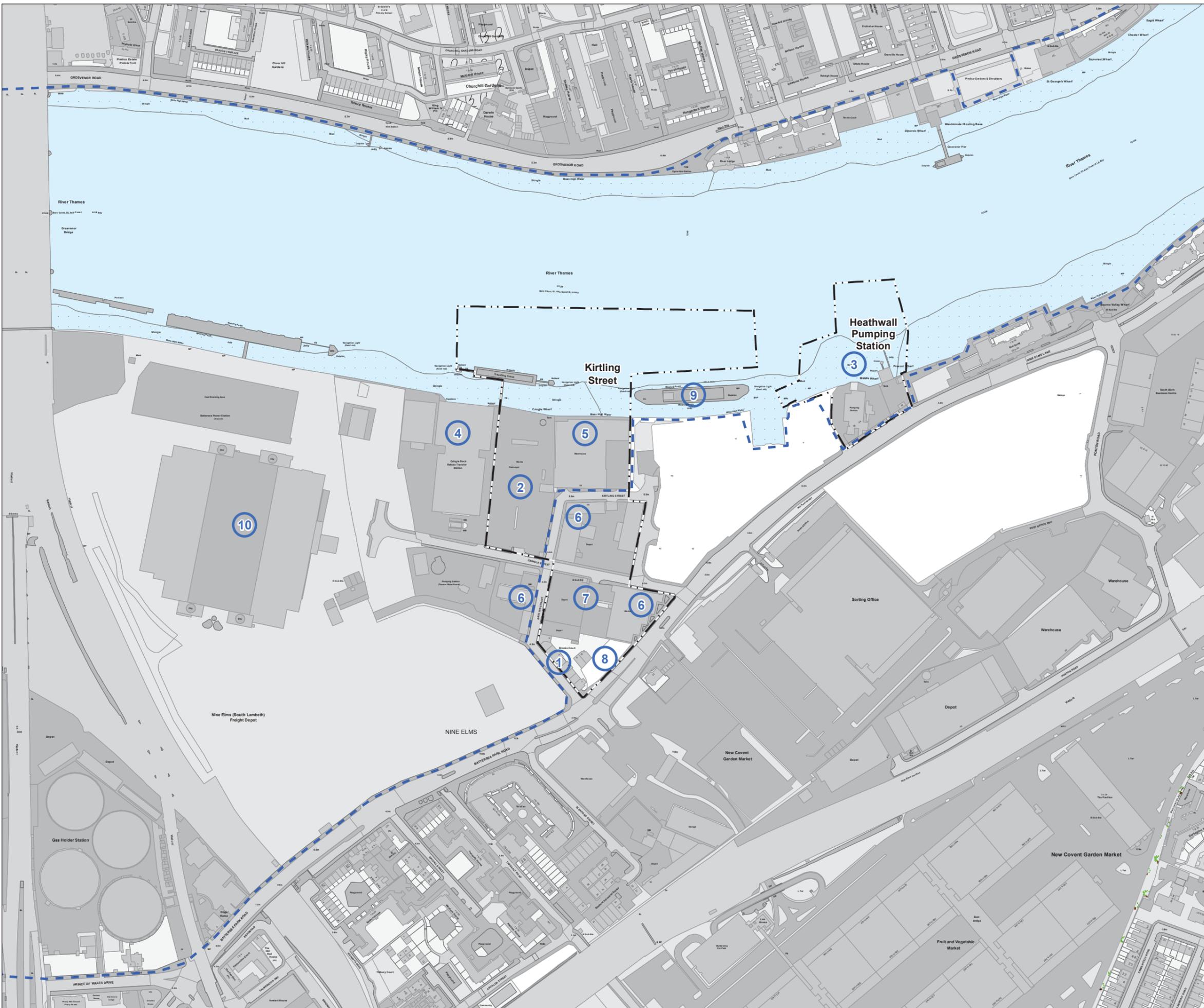


FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Socio-economics - context plan

Vol.14 Figure 10.4.1
 1PL03-SE-20050
 January 2013

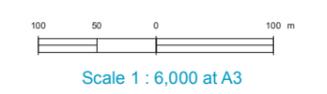


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- Key:**
- Limits of Land
 - - - to be Acquired or Used
 - Local Authority boundary
 - Extents of construction phase townscape assessment area
 - Extents of operational phase townscape assessment area
 - River Thames and tidal tributaries

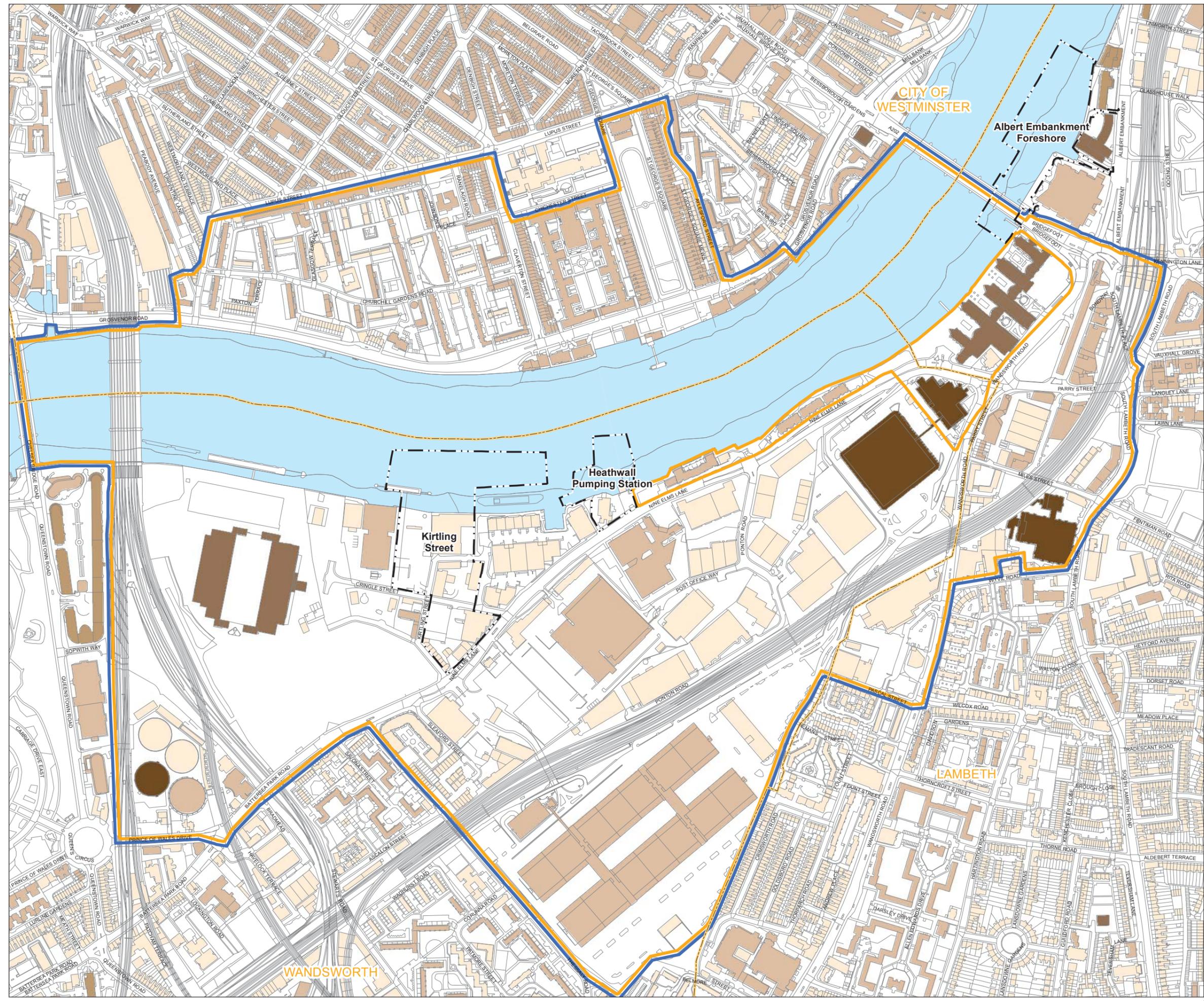
- Building heights**
- 0 - 20m
 - 20 - 40m
 - 40 - 60m
 - 60 - 80m
 - 80 - 100m
 - >100m



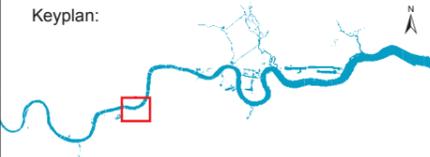
FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Townscape and visual
 Development pattern and scale
 Vol. 14 Figure 11.4.1
 1PL03-TS-40424
 January 2013



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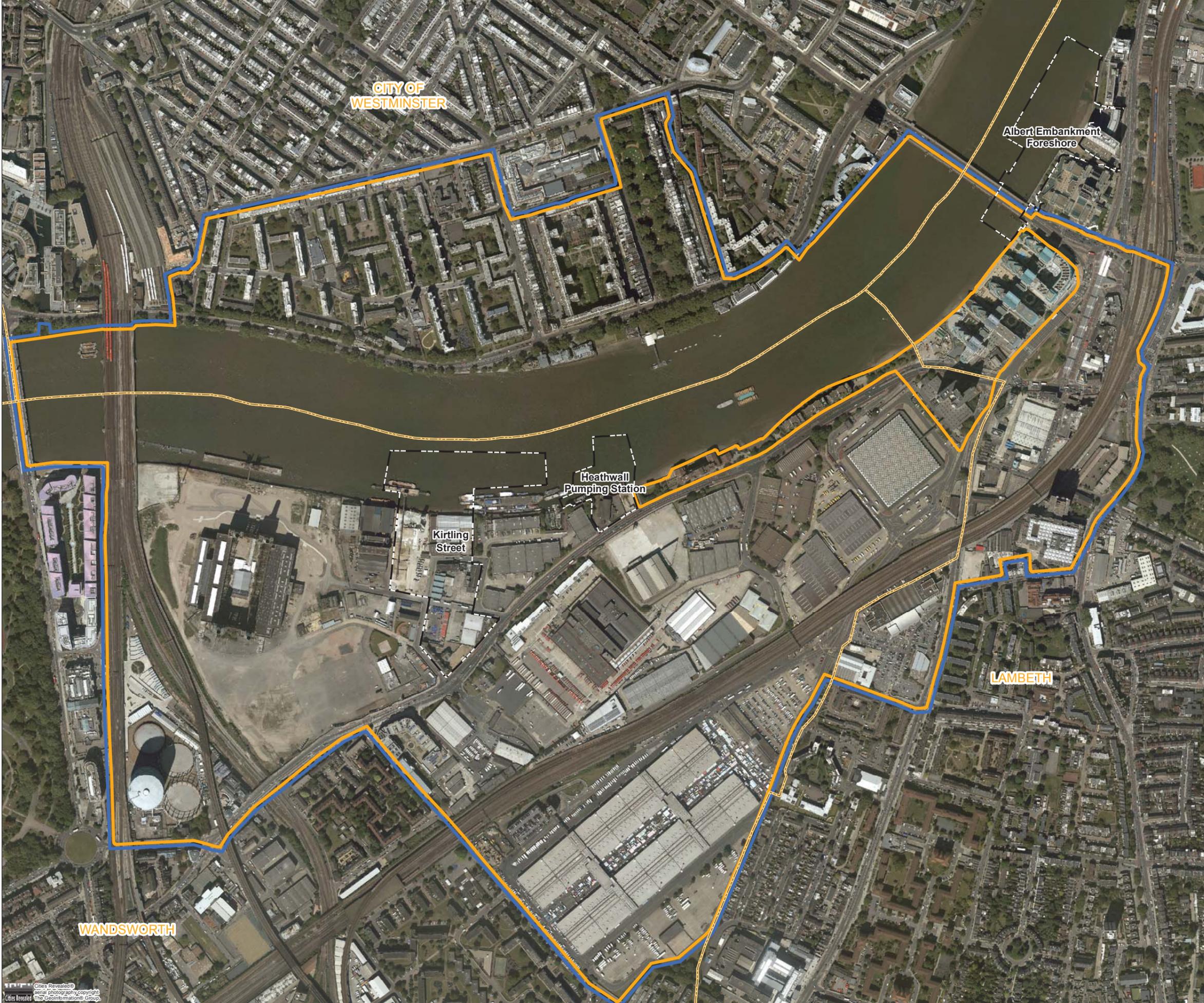
- Key:
- Limits of Land to be Acquired or Used
 - Local Authority boundary
 - Extents of construction phase townscape assessment area
 - Extents of operational phase townscape assessment area



FOR INFORMATION

Location
Kirtling Street
London Borough of Wandsworth

Document Information
Environmental Statement
Townscape and visual
Aerial photo showing pattern of vegetation
Vol. 14 Figure 11.4.2
1PL03-TS-40425
January 2013



Keyplan:



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

100 50 0 100 m

Scale 1 : 6,000 at A3

FOR INFORMATION

Location

Kirtling Street
London Borough of Wandsworth

Document Information

Environmental Statement

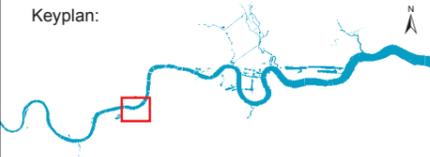
Townscape and visual
Transport routes
Vol. 14 Figure 11.4.3

1PL03-TS-40426
January 2013

Thames Tideway Tunnel
Creating a cleaner, healthier River Thames

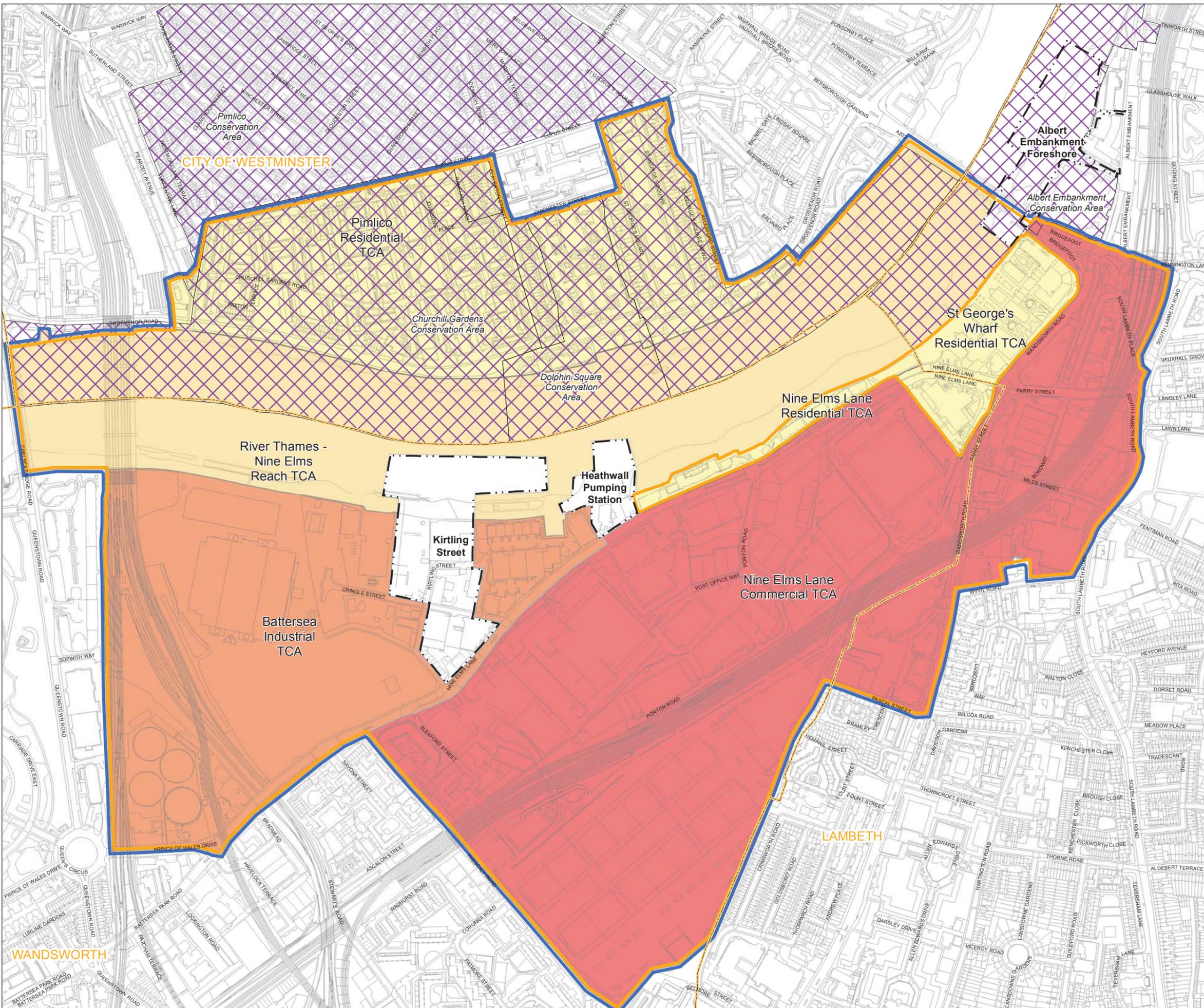


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- Key:
- Limits of Land
 - to be Acquired or Used
 - Local Authority boundary
 - Extents of construction phase townscape assessment area
 - Extents of operational phase townscape assessment area
 - Conservation areas

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



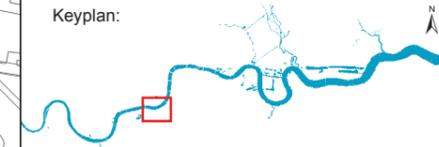
FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Townscape and visual townscape character areas
 Vol. 14 Figure 11.4.4
 1PL03-TS-40427
 January 2013



Keyplan:



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
- Construction phase ZTV
- Operational phase ZTV
- River Thames and tidal tributaries



Scale 1 : 6,000 at A3

FOR INFORMATION

Location

Kirtling Street
London Borough of Wandsworth

Document Information

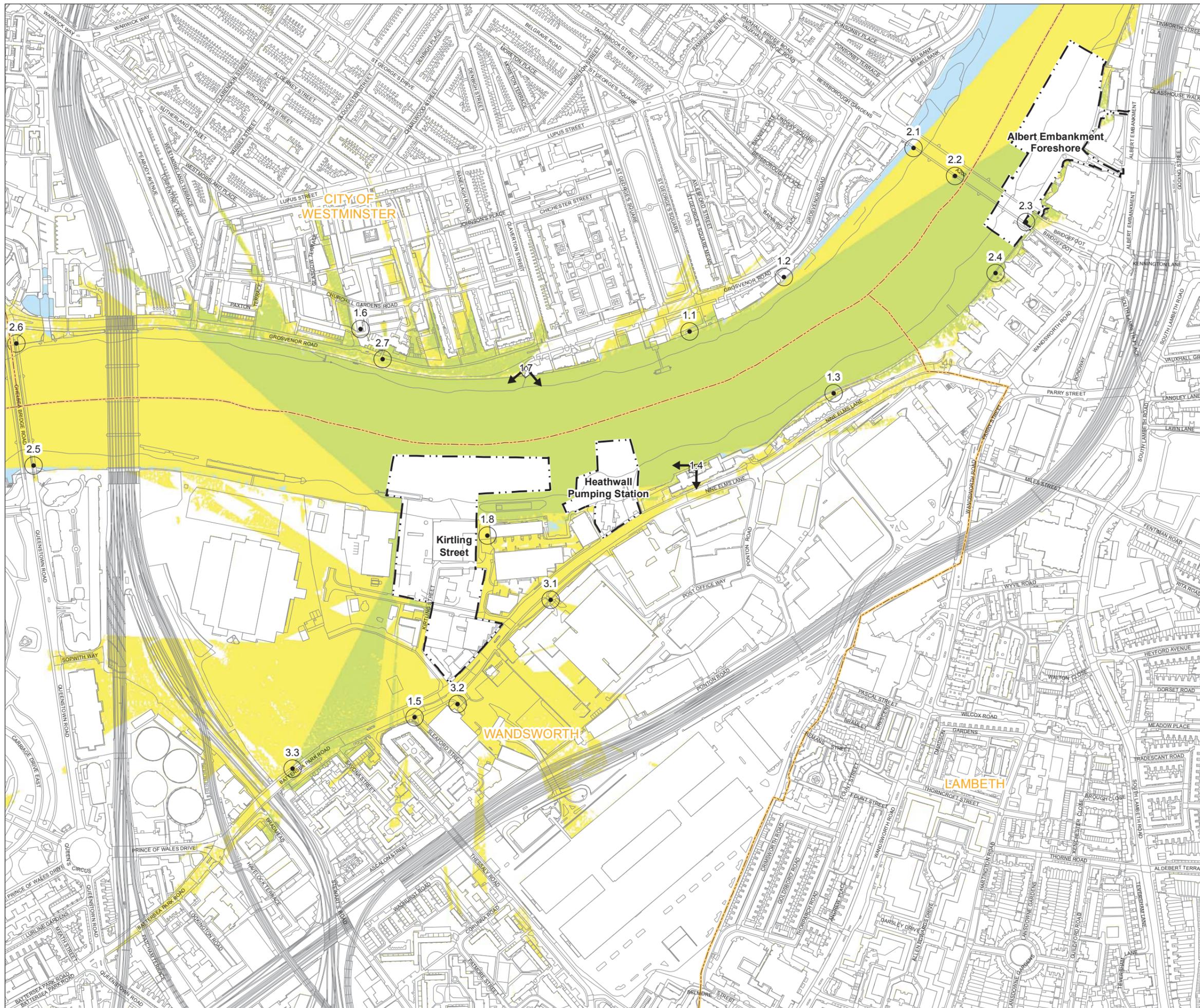
Environmental Statement

Townscape and visual Viewpoints

Vol. 14 Figure 11.4.5

1PL03-TS-40428

January 2013



Current baseline

Battersea Power Station Chelsea Bridge

Western Pumping Station Tower



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Keyplan:



Technical information

Location: Viewpoint 1.4: View southwest from residences along Nine Elms Lane close to Heathwall pumping station
 Date taken: 7 April 2011
 Time taken: 20.45
 Tide position: Low tide
 Focal length: 51.700mm

This verifiable photomontage shows an illustration of how the construction site may be set up during phase 2 (tunnelling). The layout of the construction activities may change within the maximum extent of working area (see Construction phases – phase 2 tunnelling [see volume of figures - Section 1]), however the assessment of effects would be no worse than that described in the Environmental Statement Vol 14 Kirtling Street – Section 11 Townscape and visual.

Thames Path

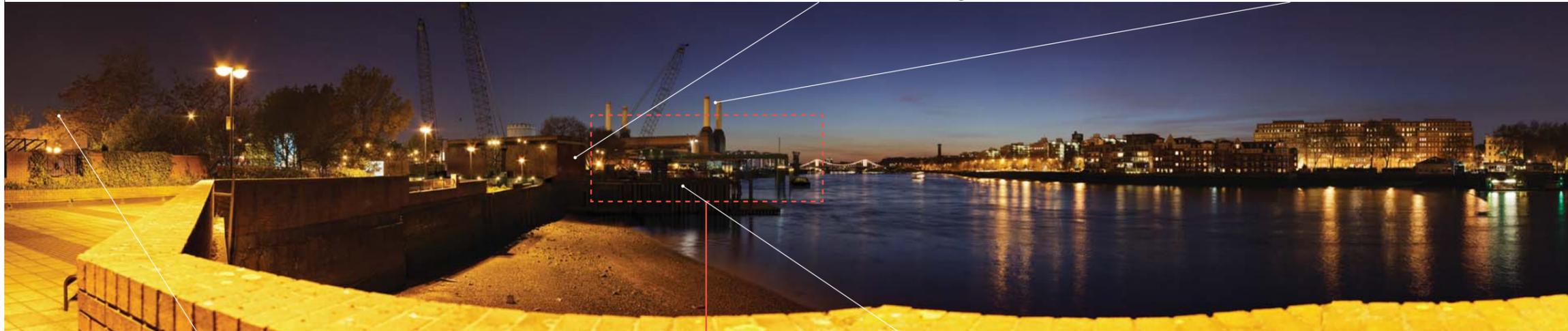
Expanded image



Construction phase night time verifiable photomontage

Future base case scheme - Riverlight

Future base case scheme - Battersea Power Station



Expanded image

Future base case scheme - Nine Elms Pier & Parkside



Noise shed

Conveyor

Barges at jetty with lighting to enable 24 hour working as required

FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Townscape and visual
 Viewpoint 1.4
 Construction phase verifiable photomontage
 Vol 14 Figure 11.5.1
 1PL03-TS-40429
 January 2013



Current baseline

Elm Quay Court

Cemex

Waste transfer station

Battersea Power Station



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Keyplan:



Technical information

Location: Viewpoint 1.7: View south and southeast from residences along Grosvenor Road, close to Churchill Gardens Estate
 Date taken: 6 May 2011
 Time taken: 10.53
 Tide position: High tide
 Focal length: 51.701mm

This verifiable photomontage shows an illustration of how the construction site may be set up during phase 2 (tunnelling). The layout of the construction activities may change within the maximum extent of working area (see Construction phases – phase 2 tunnelling [see volume of figures - Section 1]), however the assessment of effects would be no worse than that described in the Environmental Statement Vol 14 Kirtling Street – Section 11 Townscape and visual.

Thames Path

Expanded image



Construction phase verifiable photomontage

Heathwall Pumping Station

Future base case scheme - Riverlight

Future base case scheme - Battersea Power Station



Expanded image



Noise shed

Noise screen

Barges moored at jetty structure

Relocated cemex operations

Conveyor

FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement

Townscape and visual
 Viewpoint 1.7
 Construction phase verifiable photomontage
 Vol 14 Figure 11.5.2
 1PL03-TS-40430
 January 2013

Thames Tideway Tunnel
 Creating a cleaner, healthier River Thames



Current baseline

Elm Quay Court

Cemex

Waste transfer station

Battersea Power Station



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Keyplan:



Technical information

Location: Viewpoint 1.7: View south and southeast from residences along Grosvenor Road, close to Churchill Gardens Estate
 Date taken: 6 May 2011
 Time taken: 10.53
 Tide position: High tide
 Focal length: 51.701mm

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 14 Kirtling Street – Section 11 Townscape and visual.

Thames Path

Expanded image

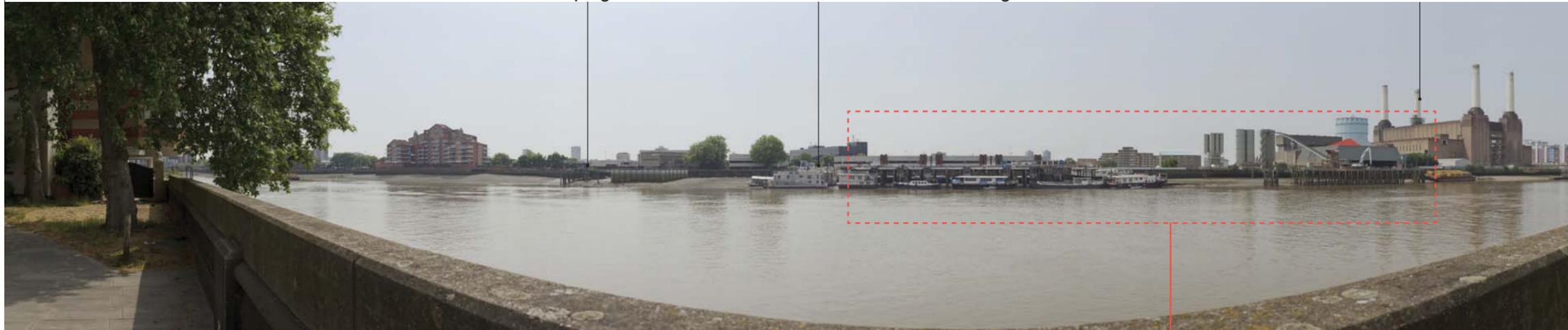


Operational phase verifiable photomontage

Heathwall Pumping Station

Future base case scheme - Riverlight

Future base case scheme - Battersea Power Station



FOR INFORMATION

Expanded image



Relocated
Cemex
operations

Location
Kirtling Street
 London Borough of Wandsworth

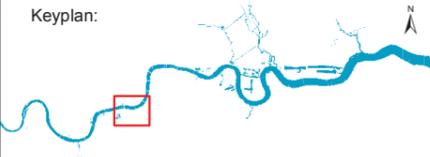
Document Information
Environmental Statement

Townscape and visual
 Viewpoint 1.7
 Operational phase verifiable photomontage
 Vol 14 Figure 11.6.1
 1PL03-TS-40431
 January 2013

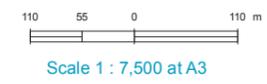
Thames Tideway Tunnel
 Creating a cleaner, healthier River Thames



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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

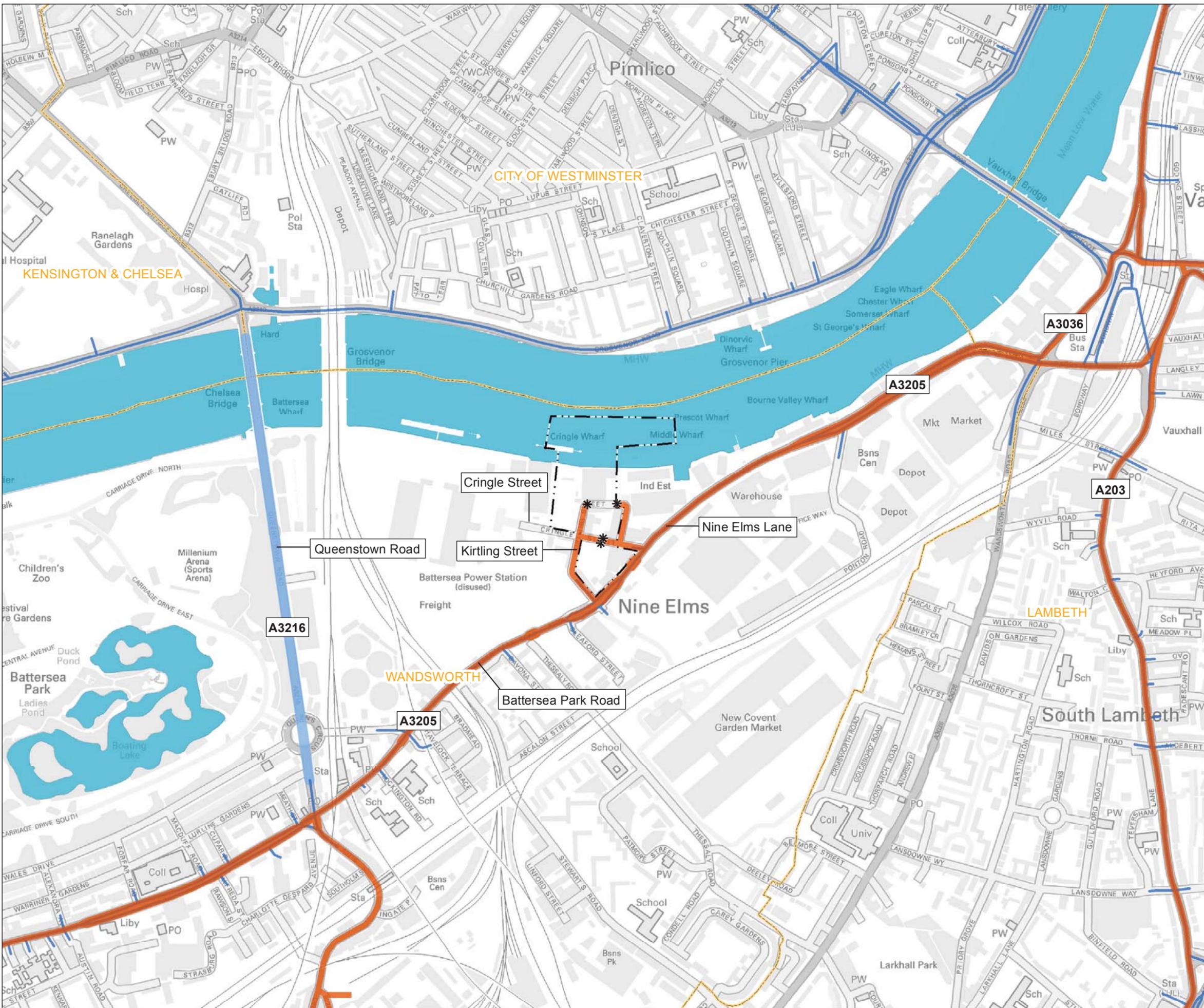


FOR INFORMATION

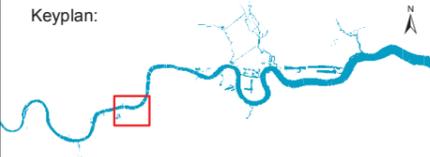
Location
Kirtling Street
 London Borough Of Wandsworth

Document Information
Environmental Statement
 Transport - construction traffic routes

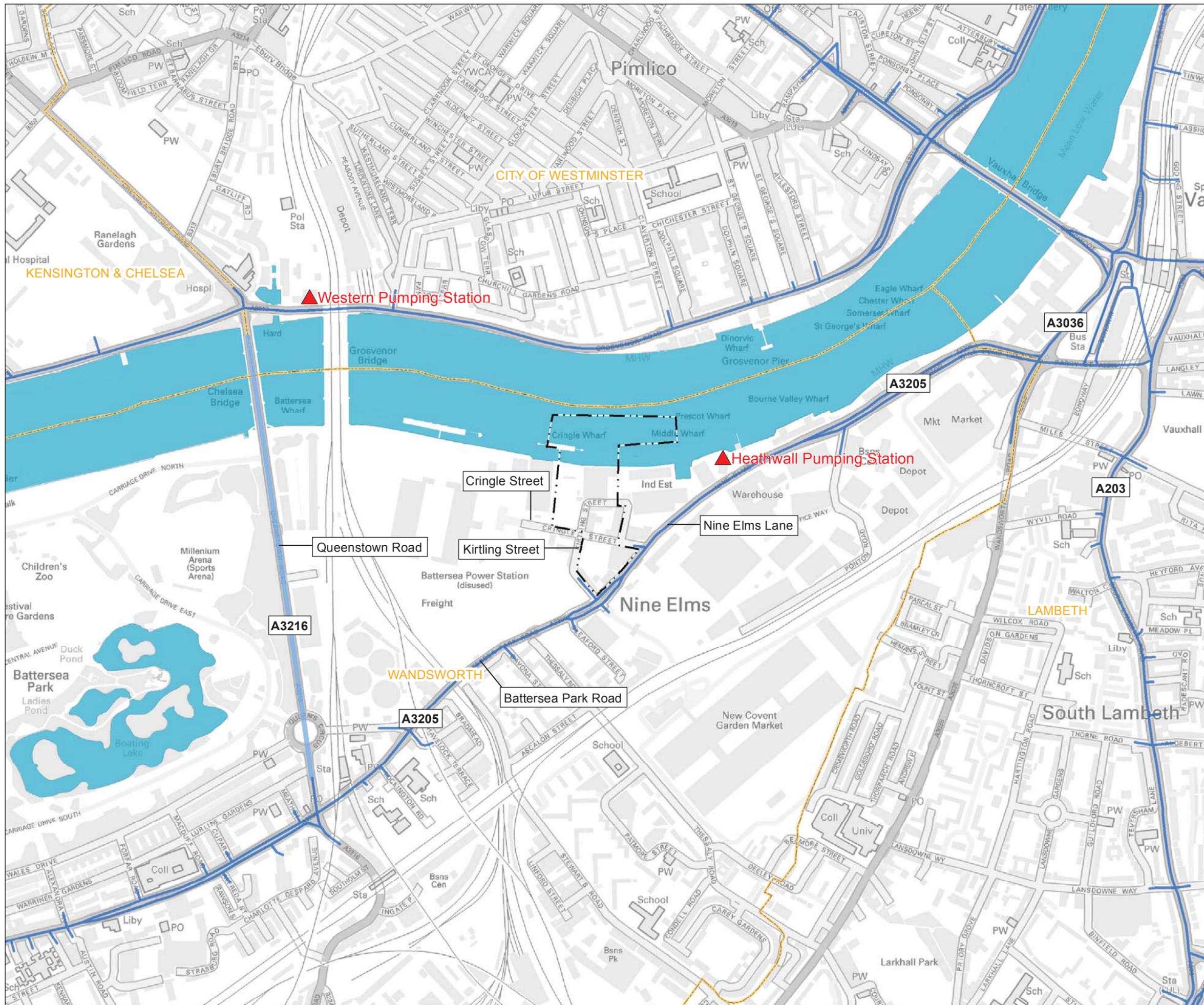
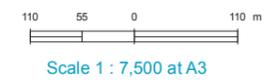
Vol.14 Figure 12.2.1
 1PL03-TT-50453
 January 2013



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



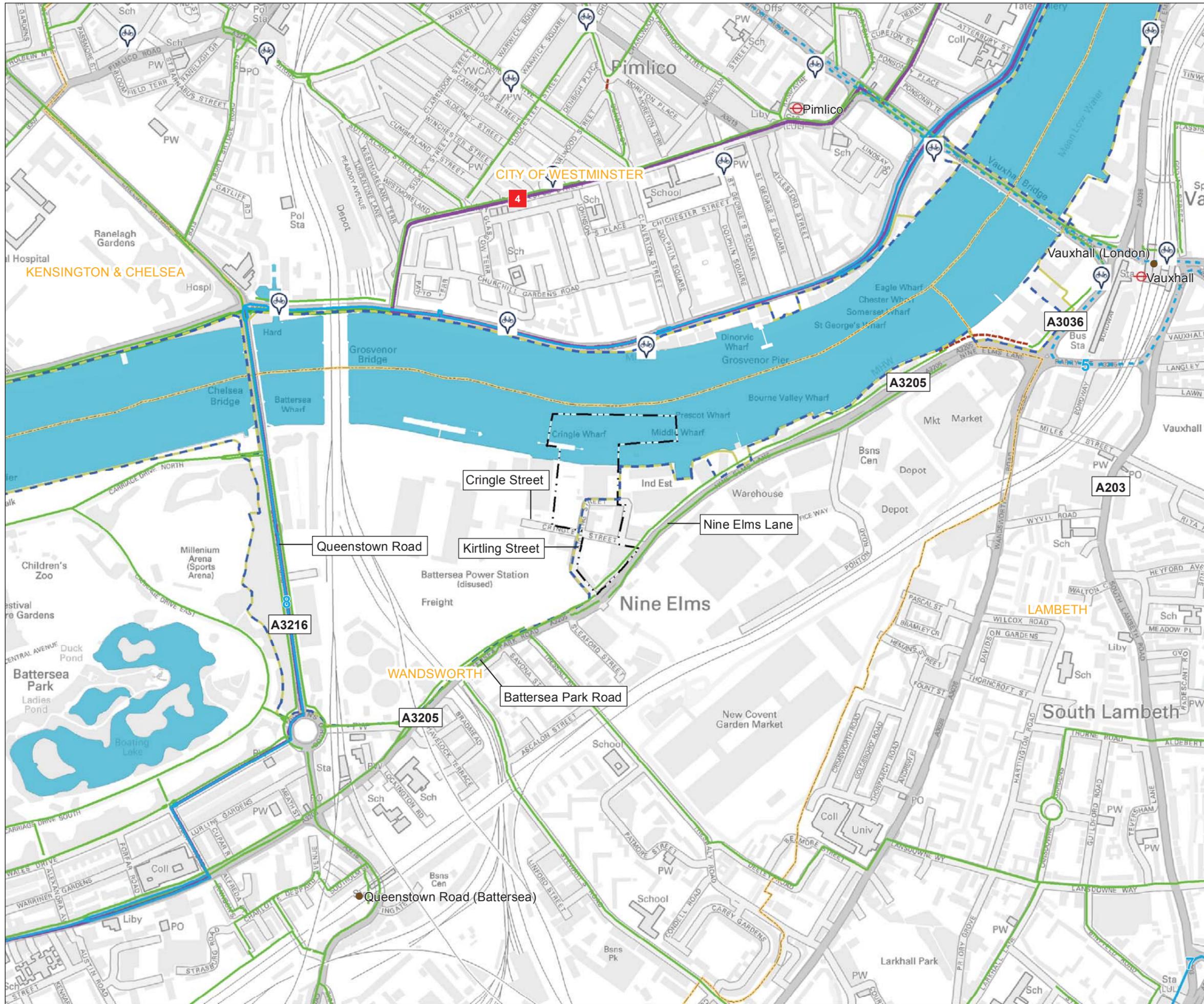
FOR INFORMATION

Location
Kirtling Street
 London Borough Of Wandsworth

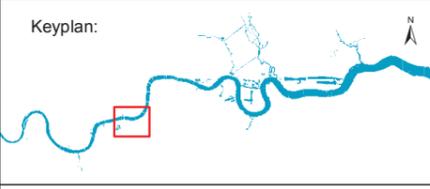
Document Information
Environmental Statement
 Transport - site location plan

Vol.14 Figure 12.4.1
 1PL03-TT-50461
 January 2013





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



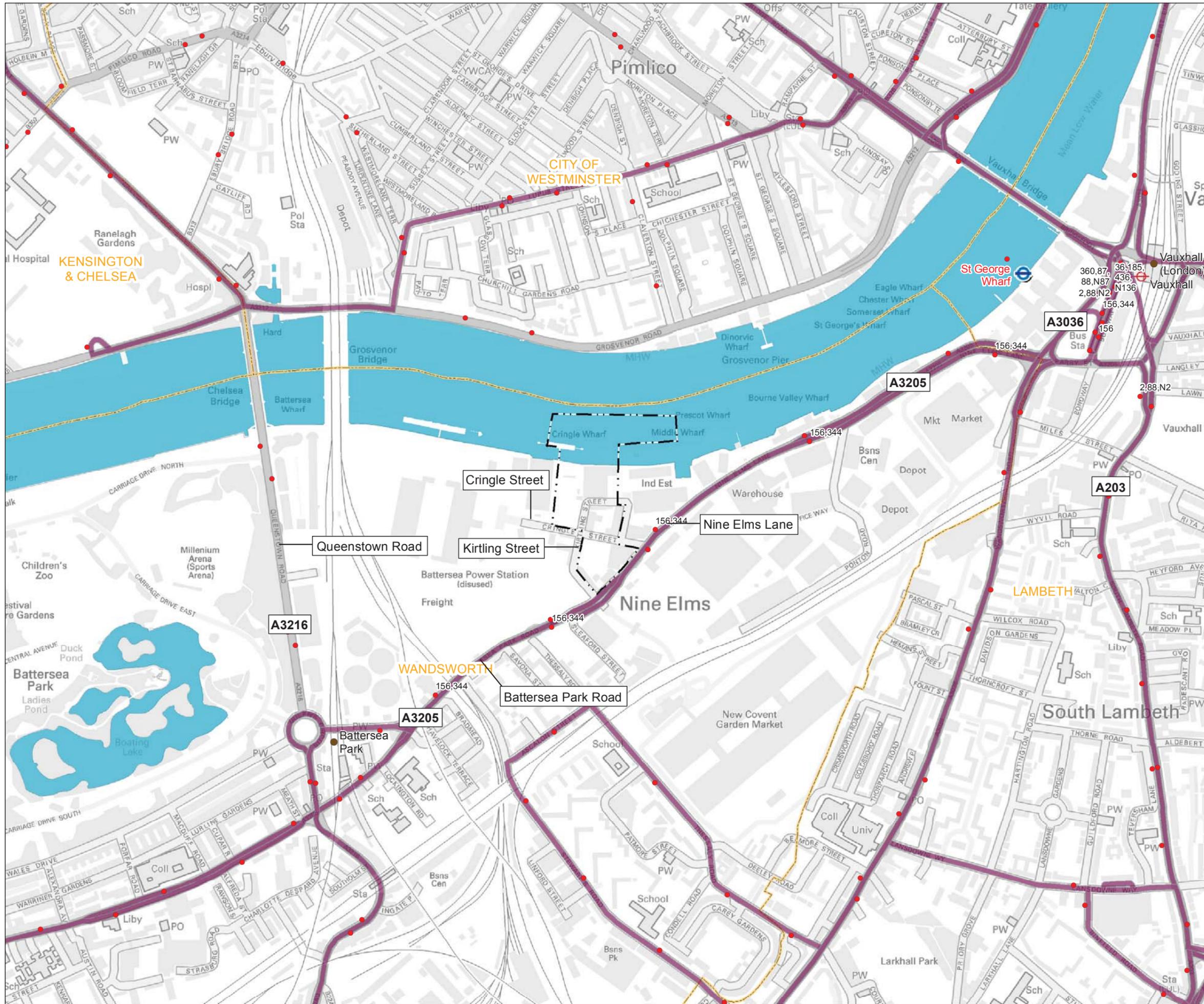
FOR INFORMATION

Location
Kirtling Street
 London Borough Of Wandsworth

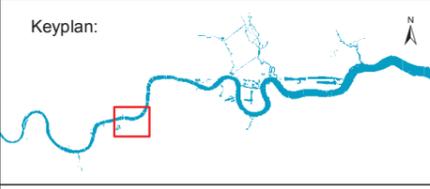
Document Information
Environmental Statement
 Transport - pedestrian and cycle network

Vol.14 Figure 12.4.2
 1PL03-TT-50469
 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



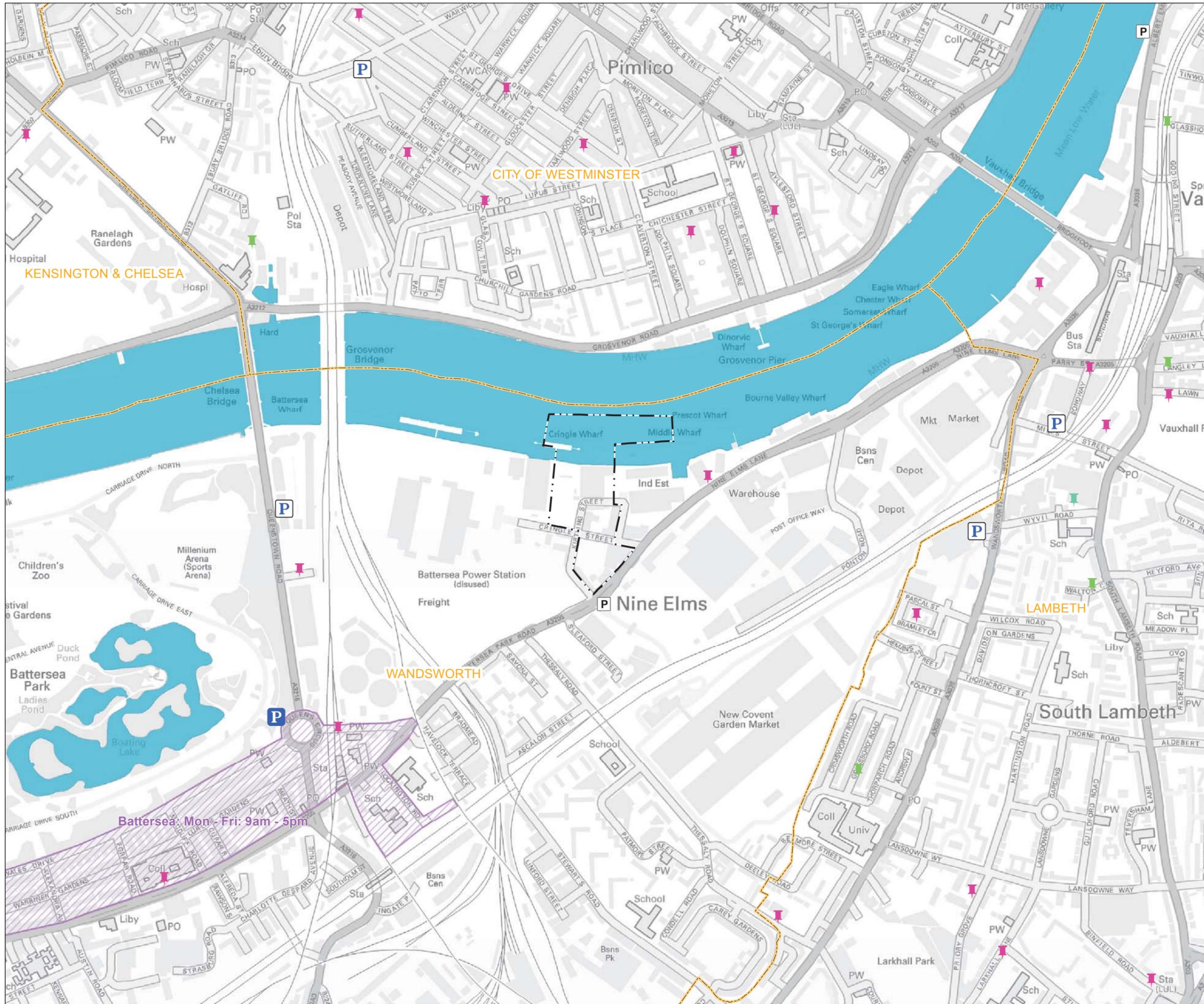
FOR INFORMATION

Location
Kirtling Street
 London Borough Of Wandsworth

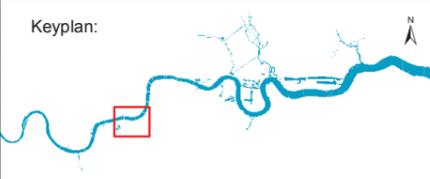
Document Information
Environmental Statement
 Transport - public transport

Vol.14 Figure 12.4.3
 1PL03-TT-50477
 January 2013





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



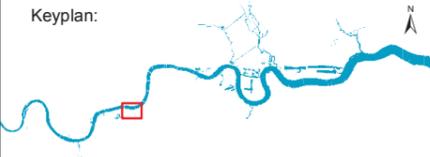
FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Transport - parking

Vol.14 Figure 12.4.4
 1PL03-TT-50485
 January 2013





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

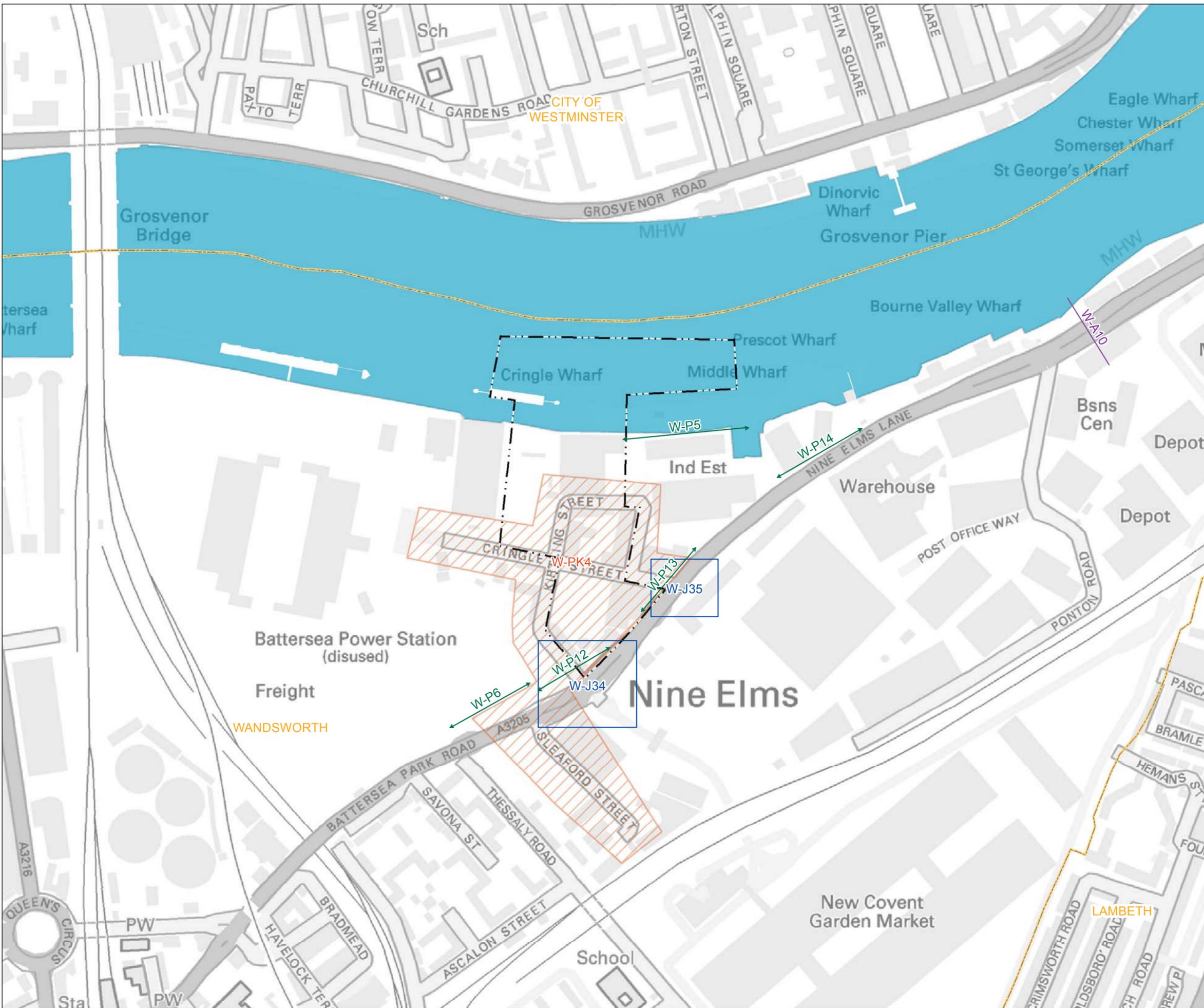


FOR INFORMATION

Location
Kirtling Street
 London Borough Of Wandsworth

Document Information
Environmental Statement
 Transport - survey locations

Vol.14 Figure 12.4.5
 1PL03-TT-50493
 January 2013

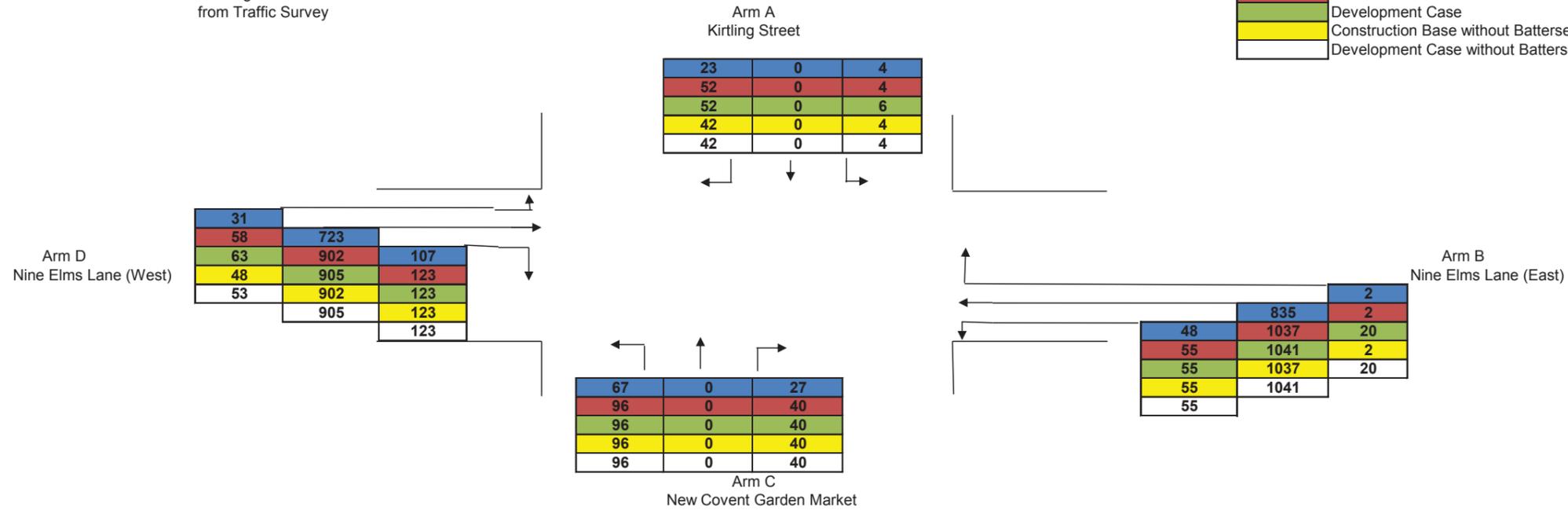


Site: Kirtling St
 Borough: Wandsworth
 Junction: Nine Elms Lane/ Kirtling St
 Junction no.: PBA 24

Data: Existing 2011 Traffic Flow in PCUs - AM Peak Hour from Traffic Survey

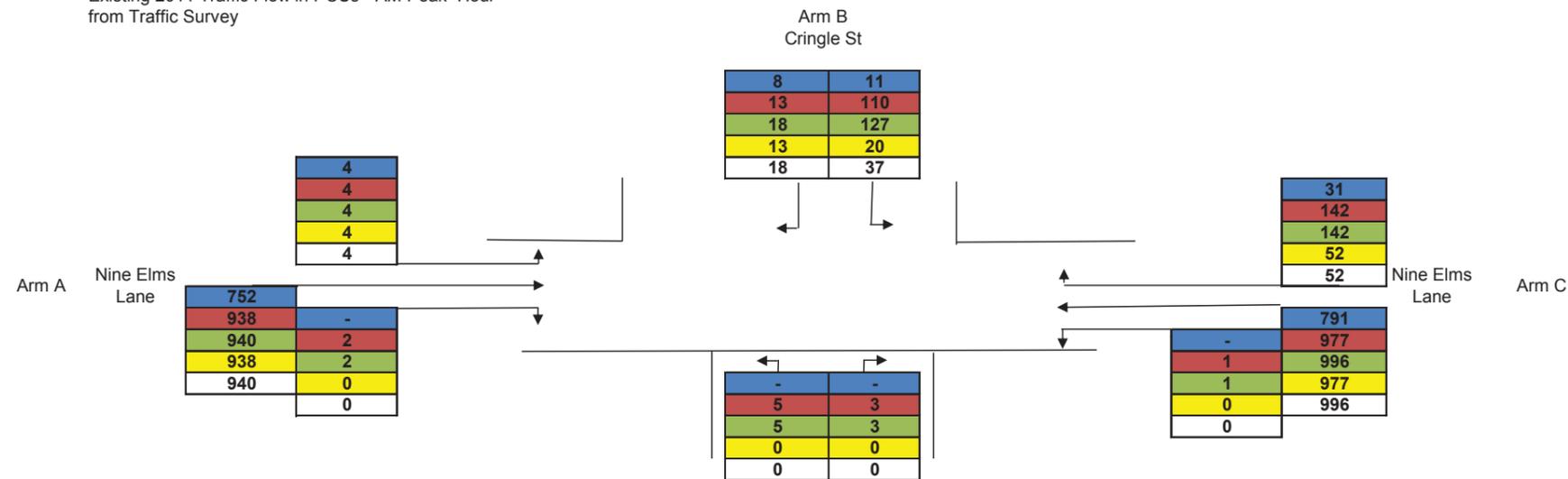
Key

Blue	Baseline
Red	Construction Base
Green	Development Case
Yellow	Construction Base without Battersea Power Station
White	Development Case without Battersea Power Station



Site: Kirtling St
 Borough: Wandsworth
 Junction: Nine Elms Lane/ Cringle St
 Junction no.: PBA 26

Data: Existing 2011 Traffic Flow in PCUs - AM Peak Hour from Traffic Survey



FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement

Baseline, Construction and Development case traffic flow (AM peak hour)

Vol. 14 Figure 12.4.6
 1PL03-TT-50864
 January 2013

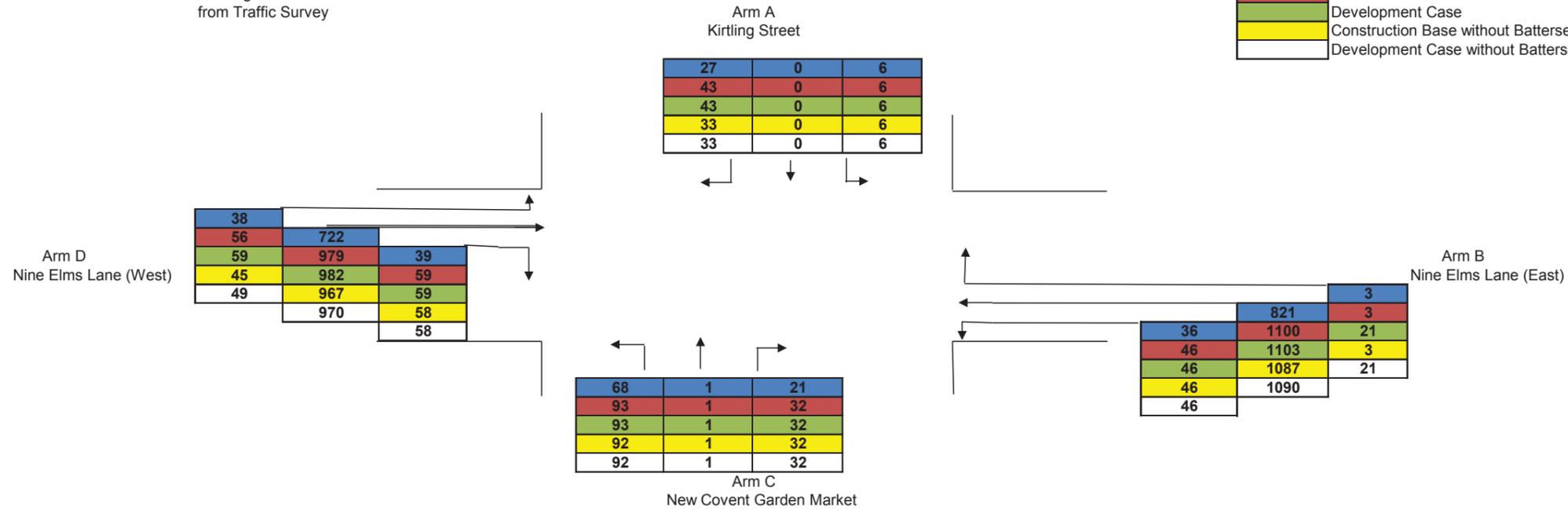


Site: Kirtling St
 Borough: Wandsworth
 Junction: Nine Elms Lane/ Kirtling St
 Junction no.: PBA 24

Data: Existing 2011 Traffic Flow in PCUs - PM Peak Hour from Traffic Survey

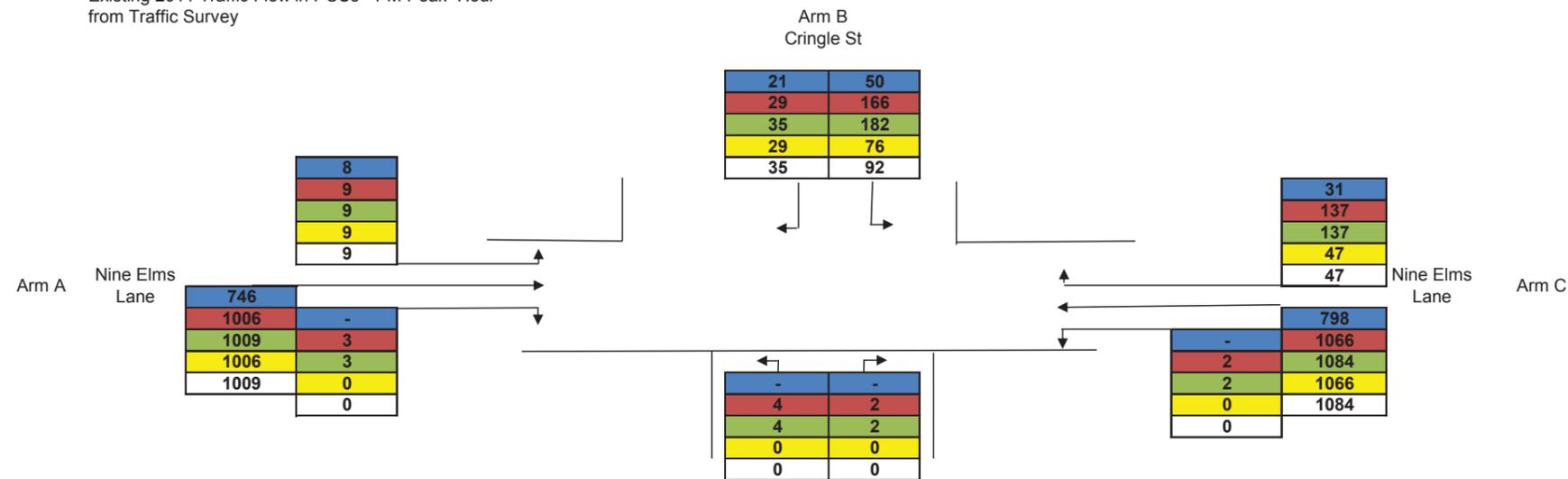
Key

Blue	Baseline
Red	Construction Base
Green	Development Case
Yellow	Construction Base without Battersea Power Station
White	Development Case without Battersea Power Station



Site: Kirtling St
 Borough: Wandsworth
 Junction: Nine Elms Lane/ Cringle St
 Junction no.: PBA 26

Data: Existing 2011 Traffic Flow in PCUs - PM Peak Hour from Traffic Survey



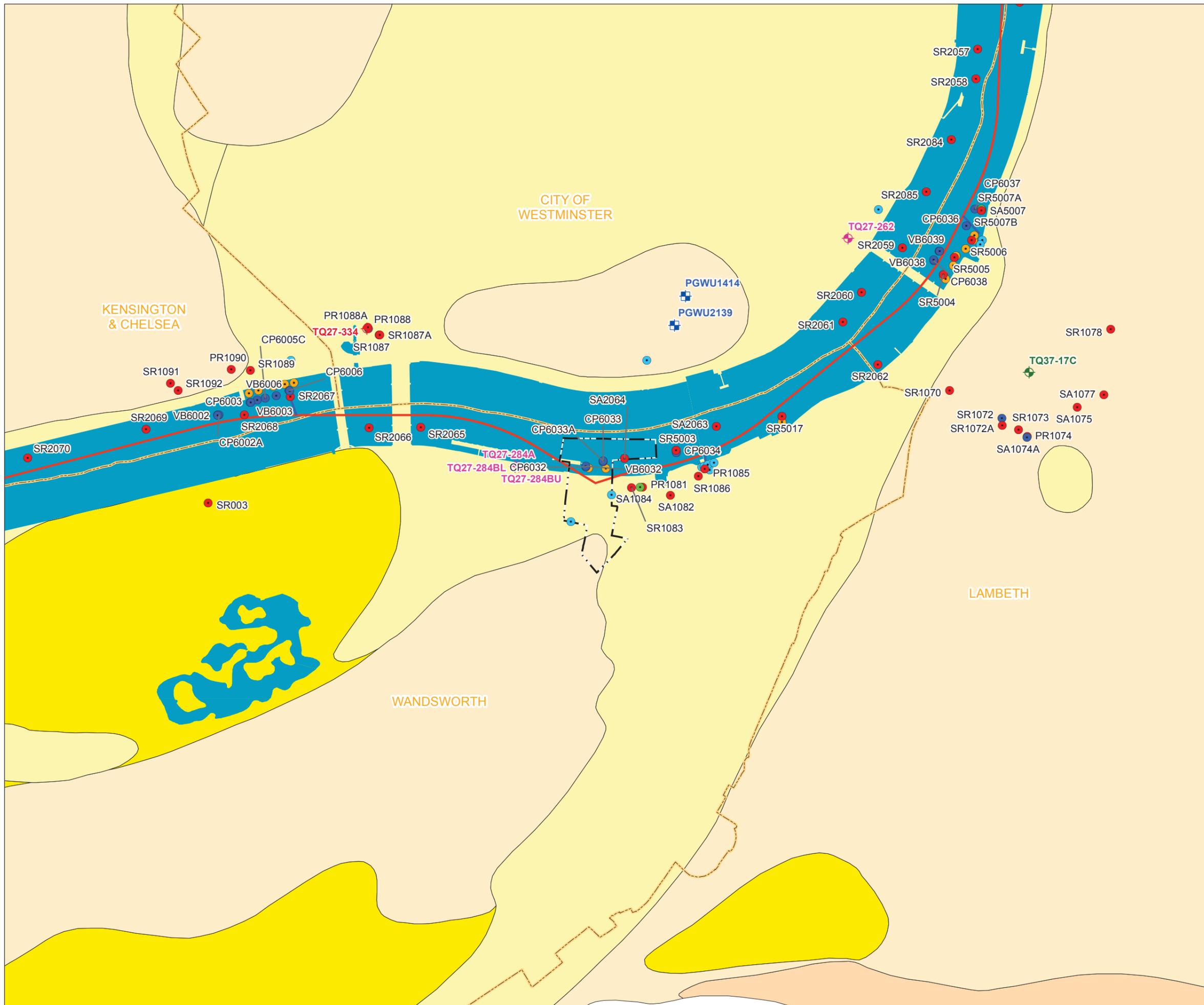
FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

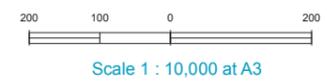
Document Information
Environmental Statement

Baseline, Construction and Development case traffic flow (PM peak hour)

Vol. 14 Figure 12.4.7
 1PL03-TT-50888
 January 2013



- Key**
- Limits of Land to be Acquired or Used
 - Thames Tideway Tunnel
 - Main Tunnel
 - Connection 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 Water Quality Monitoring Locations
 - Superficial Geology
 - Head
 - Alluvium
 - Kempton Park Gravel Member
 - Langley Silt Member
 - Taplow Gravel Formation



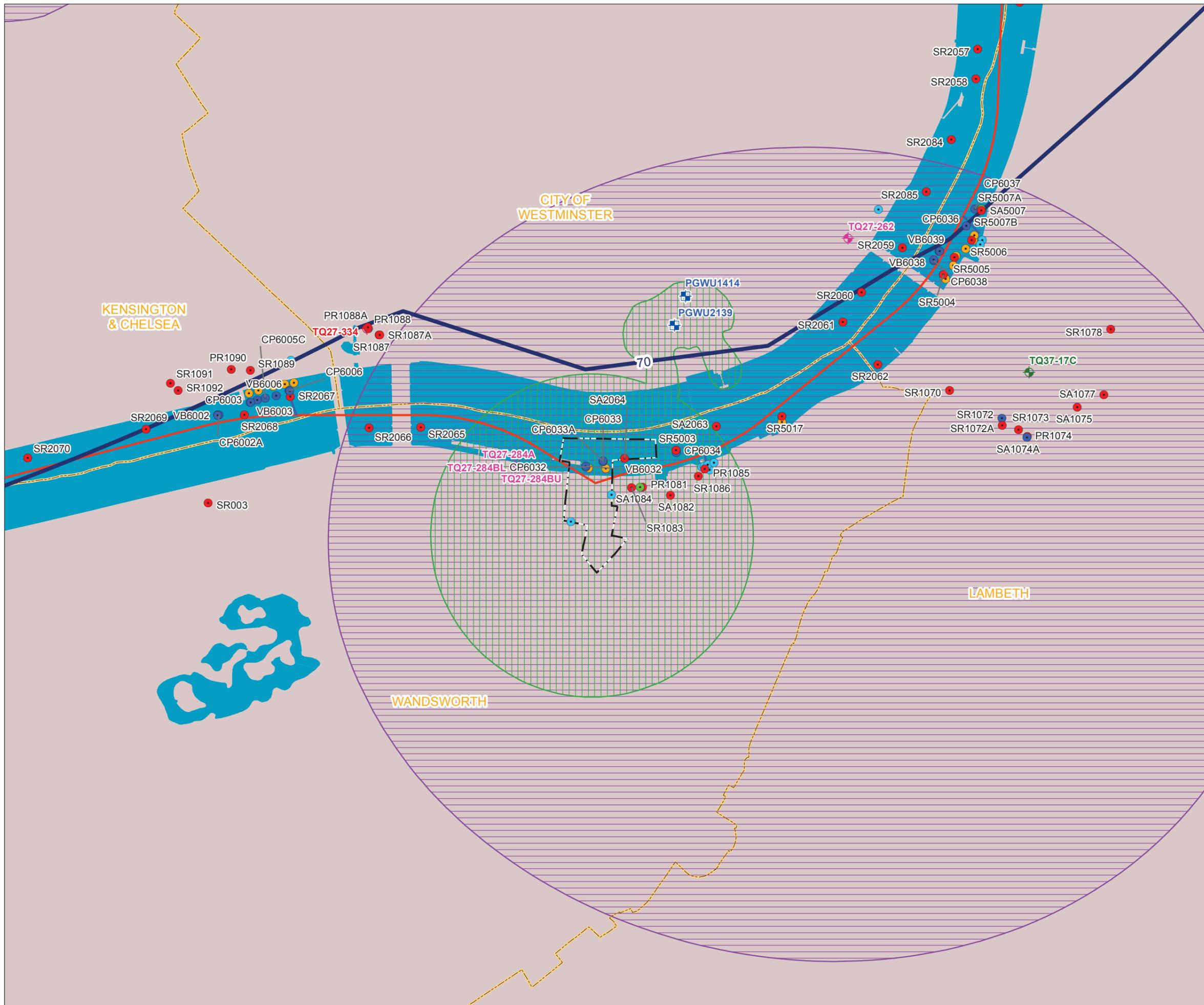
FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

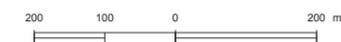
Document Information
Environmental Statement
 Water resources – groundwater - superficial geology
 Vol.14 Figure 13.4.1
 1PL03-WR-20143
 January 2013



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- Key**
- Limits of Land to be Acquired or Used
 - Thames Tideway Tunnel
 - Main Tunnel
 - Connection 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 Water Quality Monitoring Locations
 - ◆ EA Chalk Piezometric Level (mATD) - Jan 11
 - Source Protection Zones
 - Zone I (Inner Protection Zone)
 - Zone II (Outer Protection Zone)
 - Solid Geology
 - London Clay Formation



Scale 1 : 10,000 at A3

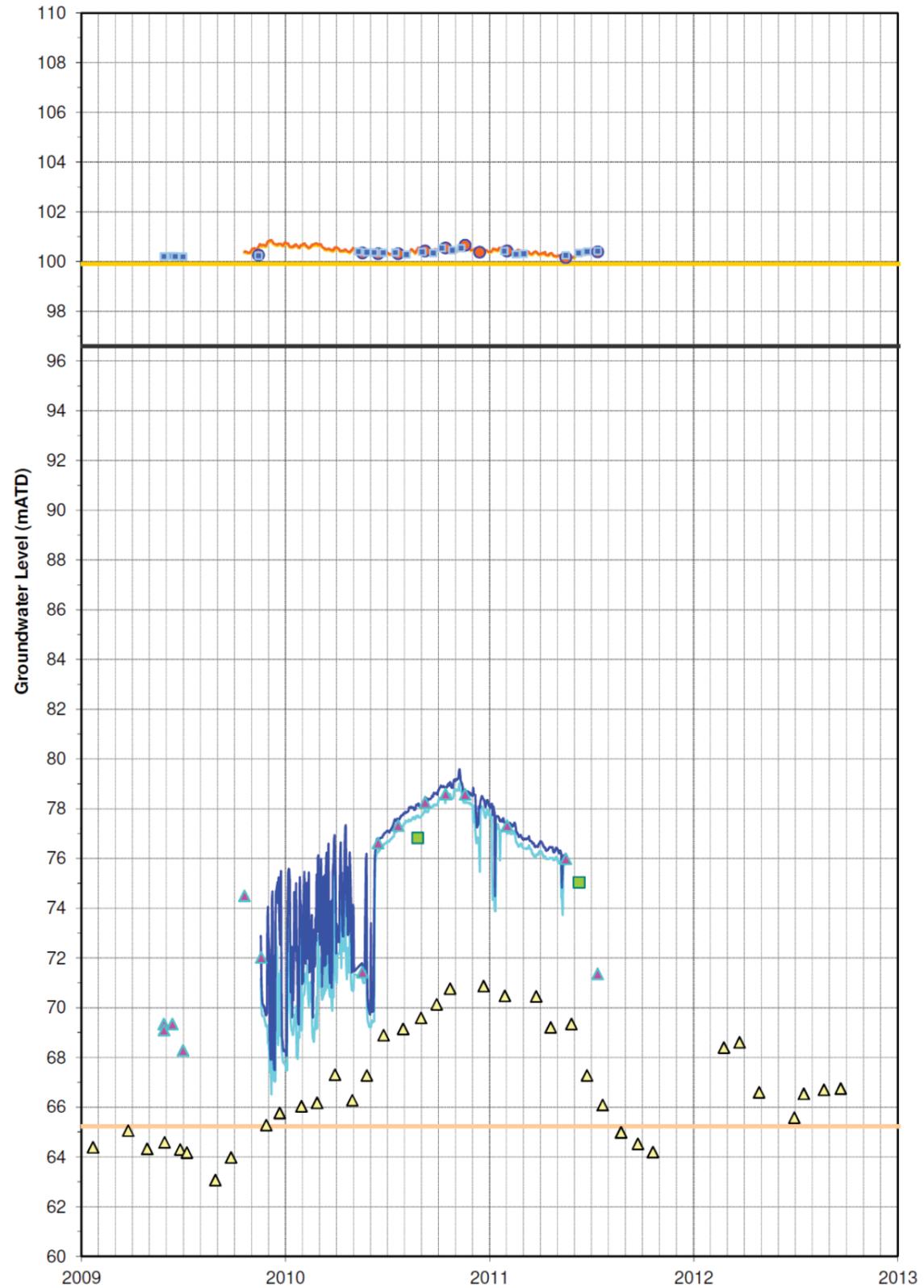
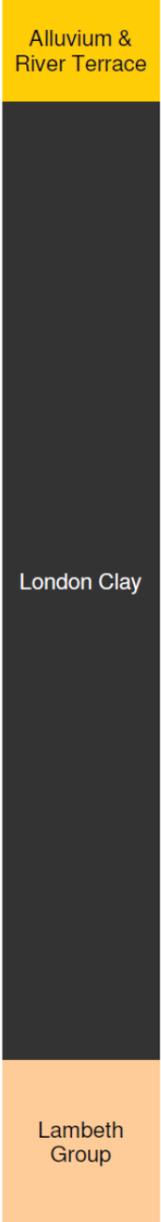
FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

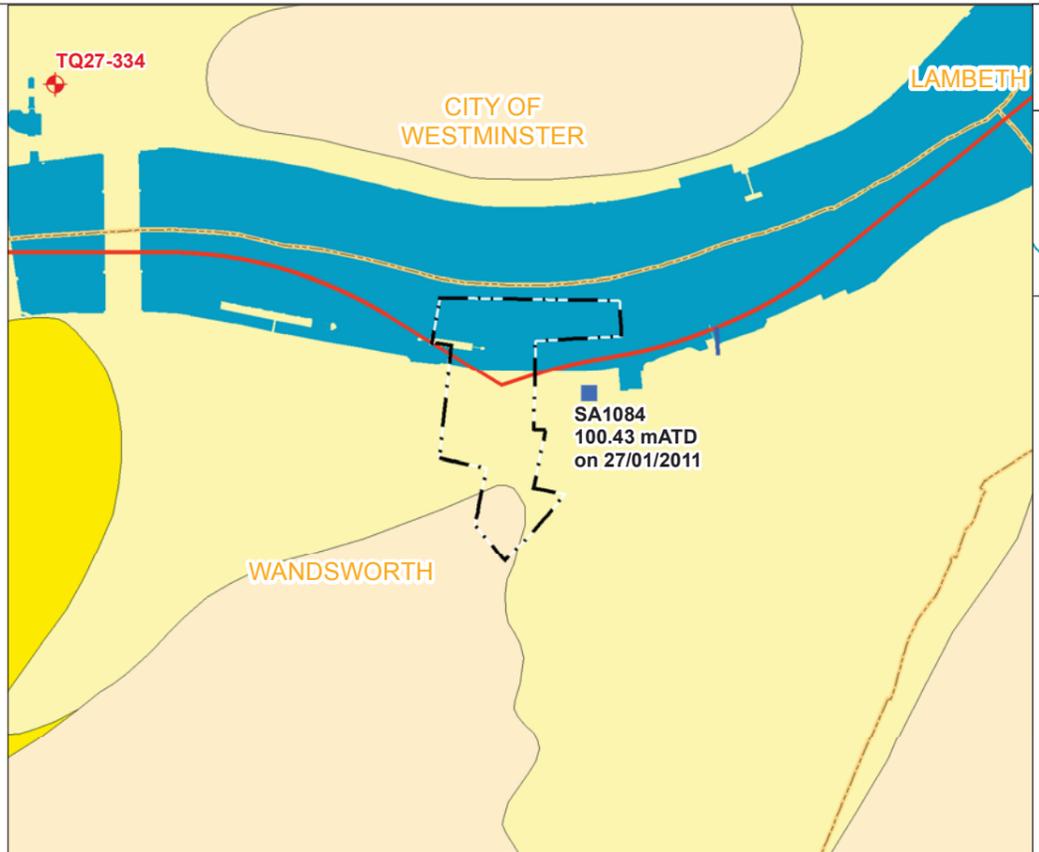
Document Information
Environmental Statement
 Water resources – groundwater- solid geology
 Vol.14 Figure 13.4.2
 1PL03-WR-20144
 January 2013



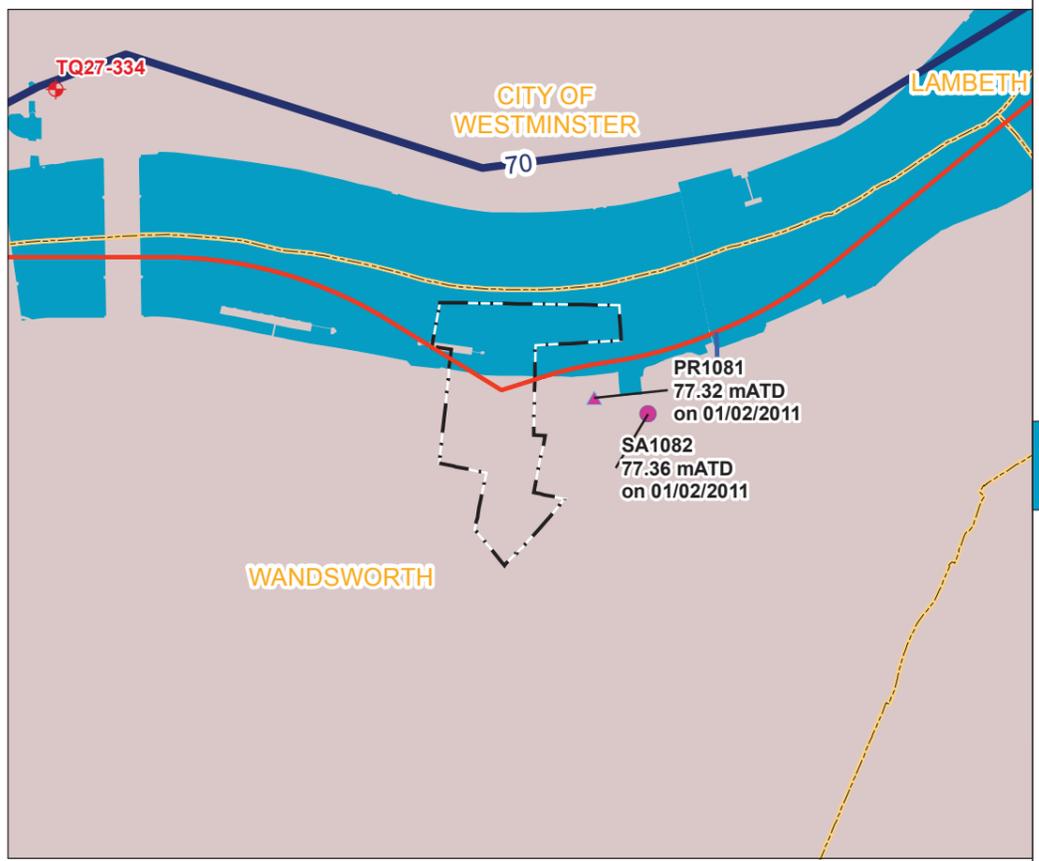
Geology at Shaft Site



▲ PR1081 SCK-B2(Dip)	● SA1082 TSF-SD(Dip)	■ SA1084 RTD-SDGR(Dip)
■ TQ27/284A	— PR1081 SCK-B2 (daily minimum)	— PR1081 SCK-B2 (daily maximum)
— SA1082 TSF-SD (daily minimum)	— SA1082 TSF-SD (daily maximum)	▲ TQ27/334



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
 - Connection Tunnel
- Local Authority Boundary
- EA Groundwater Level Monitoring Locations
 - ◆ Recent Data Available
 - Drilled Boreholes Upper Aquifer Water Levels
 - SA1084
 - ▲ Drilled Boreholes Lower Aquifer Water Levels
 - ▲ PR1081
 - SA1082
 - EA Chalk piezometric level (mATD) - Jan 11
- Superficial Geology
 - Alluvium
 - Kempton Park Gravel Member
 - Langley Silt Member
- Solid Geology
 - London Clay Formation

Scale 1 : 10,000 at A3

FOR INFORMATION

Location
 Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Water resources – groundwater - monitoring locations
 Vol.14 Figure 13.4.3
 1PL03-WR-20145
 January 2013



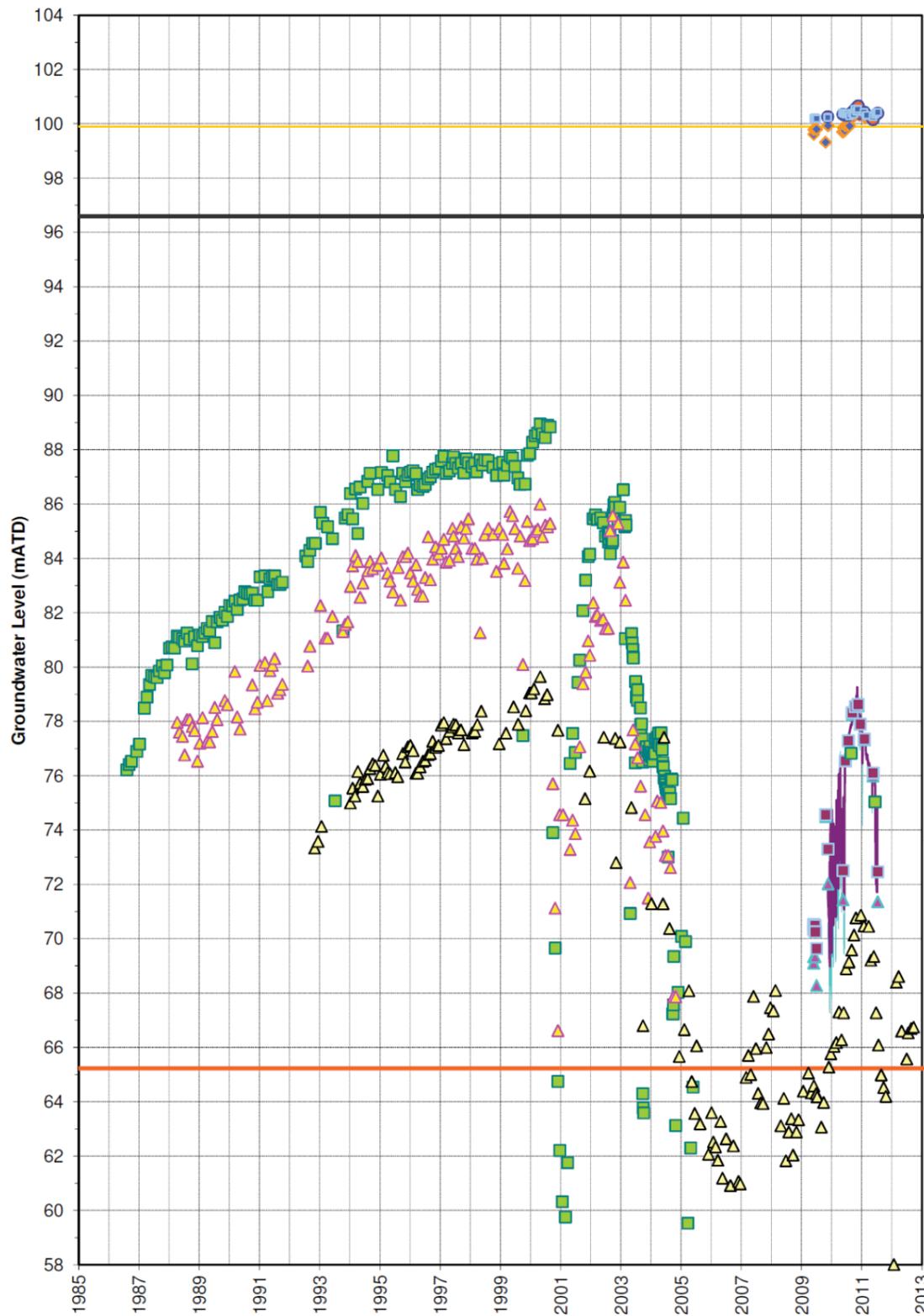
Geology at the Shaft Site

Alluvium & River Terrace

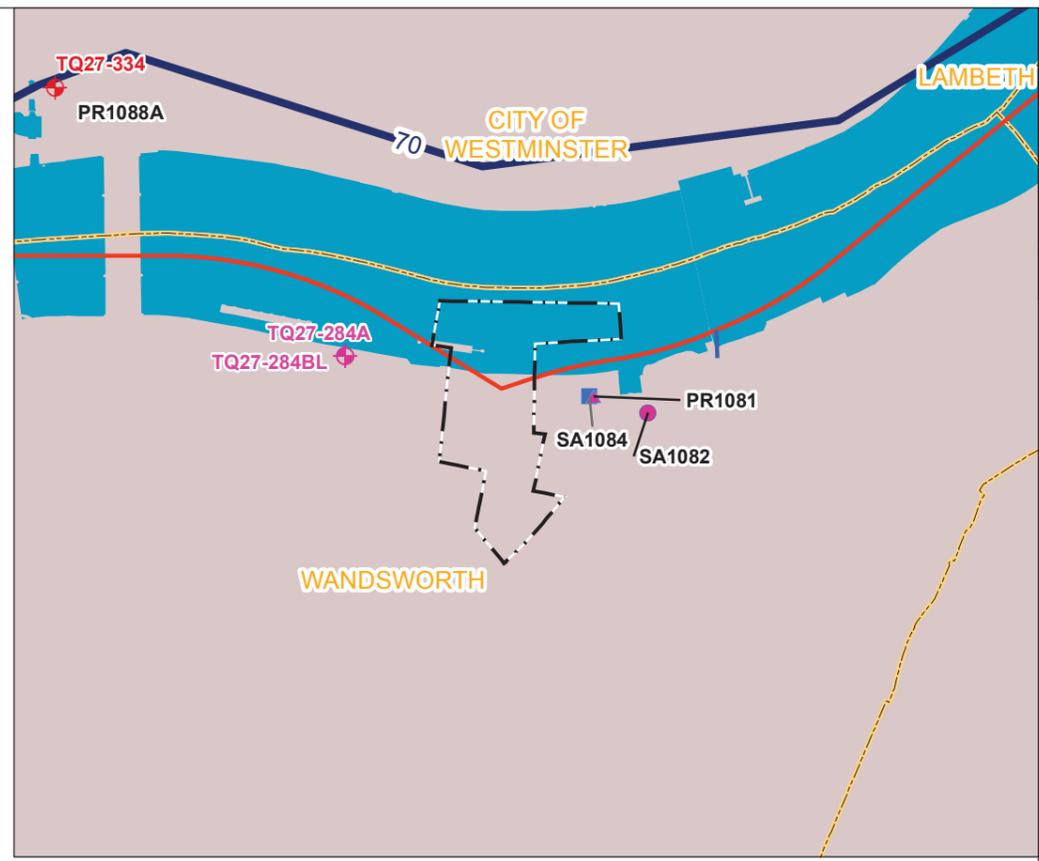
London Clay

London Clay

Lambeth Group



- ◆ PR1081 LB-SL(Dip) ▲ PR1081 SCK-B2(Dip) — PR1081 SCK-B2(Logger) ■ SA1082 LCF-A2(Dip)
- SA1082 LCF-A2(Logger) ● SA1082 TSF-SD(Dip) — SA1082 TSF-SD(Logger) ■ SA1084 RTD-SDGR(Dip)
- TQ27/284A ▲ TQ27/284BL ▲ TQ27/334



Long term groundwater level monitoring

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- Key
- Limits of Land to be Acquired or Used
 - Thames Tideway Tunnel
 - Main Tunnel
 - Connection Tunnel
 - Local Authority Boundary
 - Drilled Borehole Lower Aquifer Water Levels
 - ▲ PR1081
 - SA1082
 - Drilled Borehole Upper Aquifer Water Levels
 - SA1084
 - EA Groundwater Level Monitoring Locations
 - ◆ Recent
 - ◆ Historical Data Available
 - EA Chalk Piezometric Level (mATD) - Jan 11
 - Solid Geology
 - London Clay Formation
- Scale 1 : 10,000 at A3

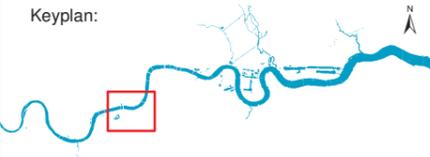
FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

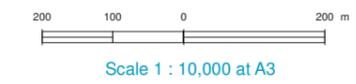
Document Information
Environmental Statement
 Water resources – groundwater - regional groundwater hydrograph
 Vol.14 Figure 13.4.4
 1PL03-WR-20146
 January 2013



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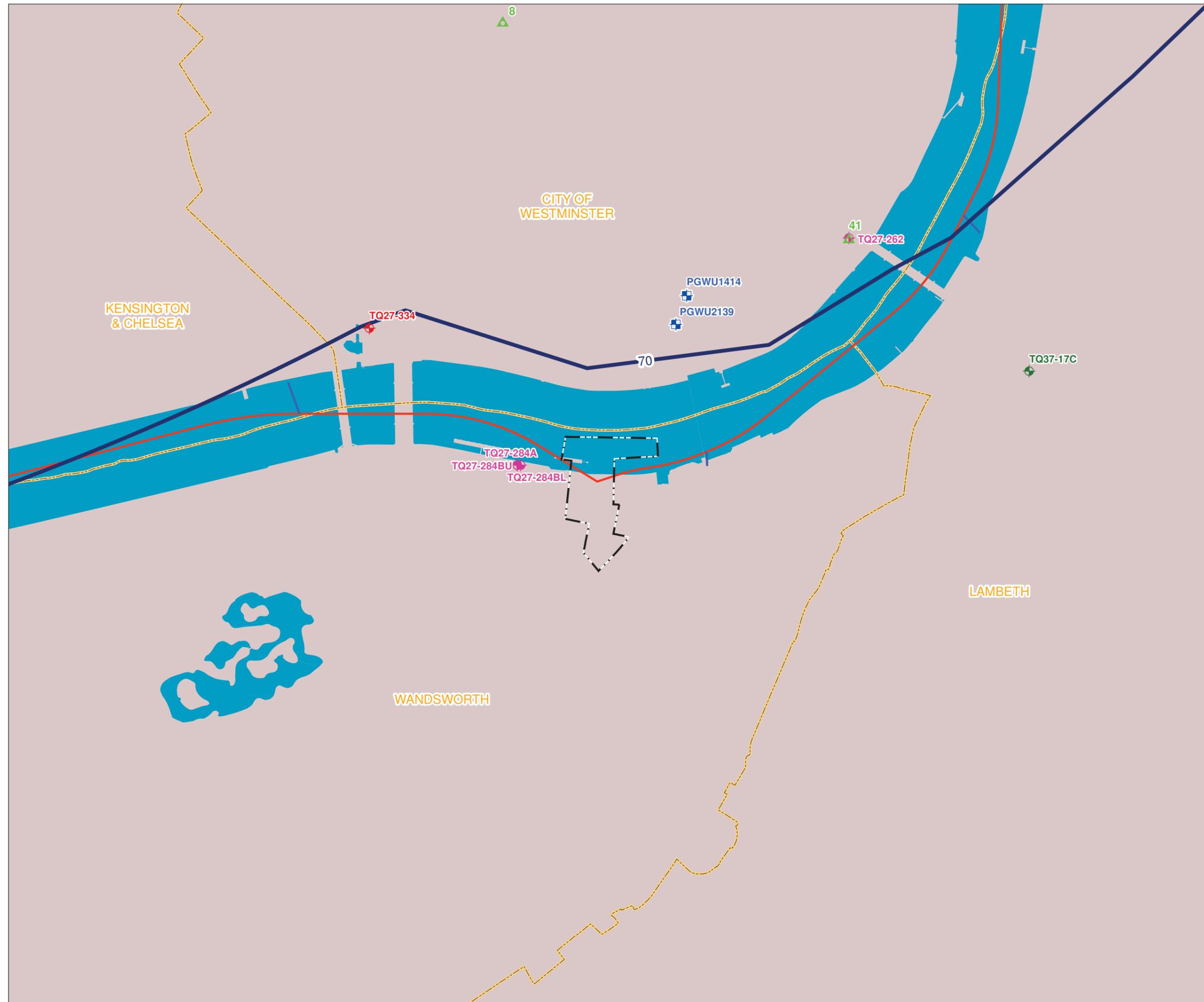
- Key**
- Limits of Land to be Acquired or Used
 - Thames Tideway Tunnel
 - Main Tunnel
 - Connection Tunnel
 - Local Authority Boundary
 - GSHP Scheme
 - ▲ Chalk
 - EA Groundwater Level Monitoring Locations - test
 - ◆ Historical Data Available
 - ◆ Data Not Available
 - ◆ Recent Data Available
 - EA Water Quality Monitoring Locations
 - EA Chalk Piezometric Level (mATD) - Jan 11
 - Solid Geology
 - London Clay Formation

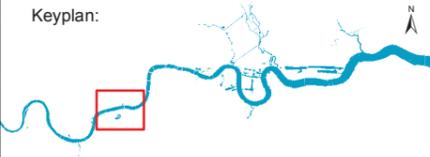


FOR INFORMATION

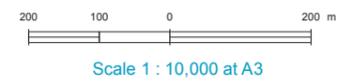
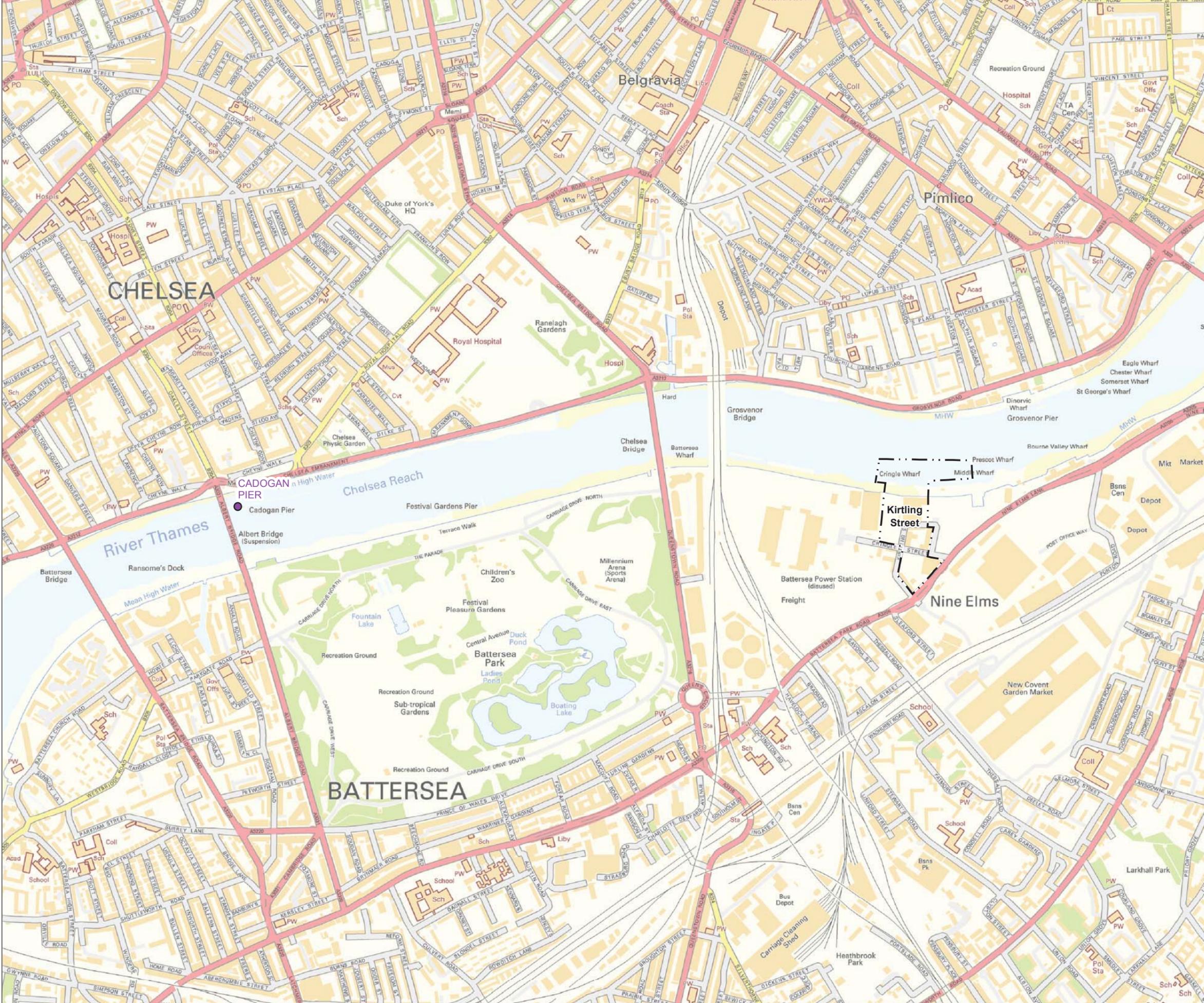
Location
Kirtling Street
London Borough of Wandsworth

Document Information
Environmental Statement
Water resources – groundwater - GSHPs and unlicensed abstractions
Vol.14 Figure 13.4.5
1PL03-WR-20147
January 2013





- Key
- Limits of Land to be Acquired or Used
 - Automatic Quality Monitoring Station Locations



Scale 1 : 10,000 at A3

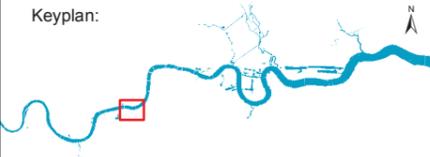
FOR INFORMATION

Location
Kirtling Street
London Borough of Wandsworth

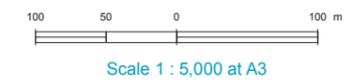
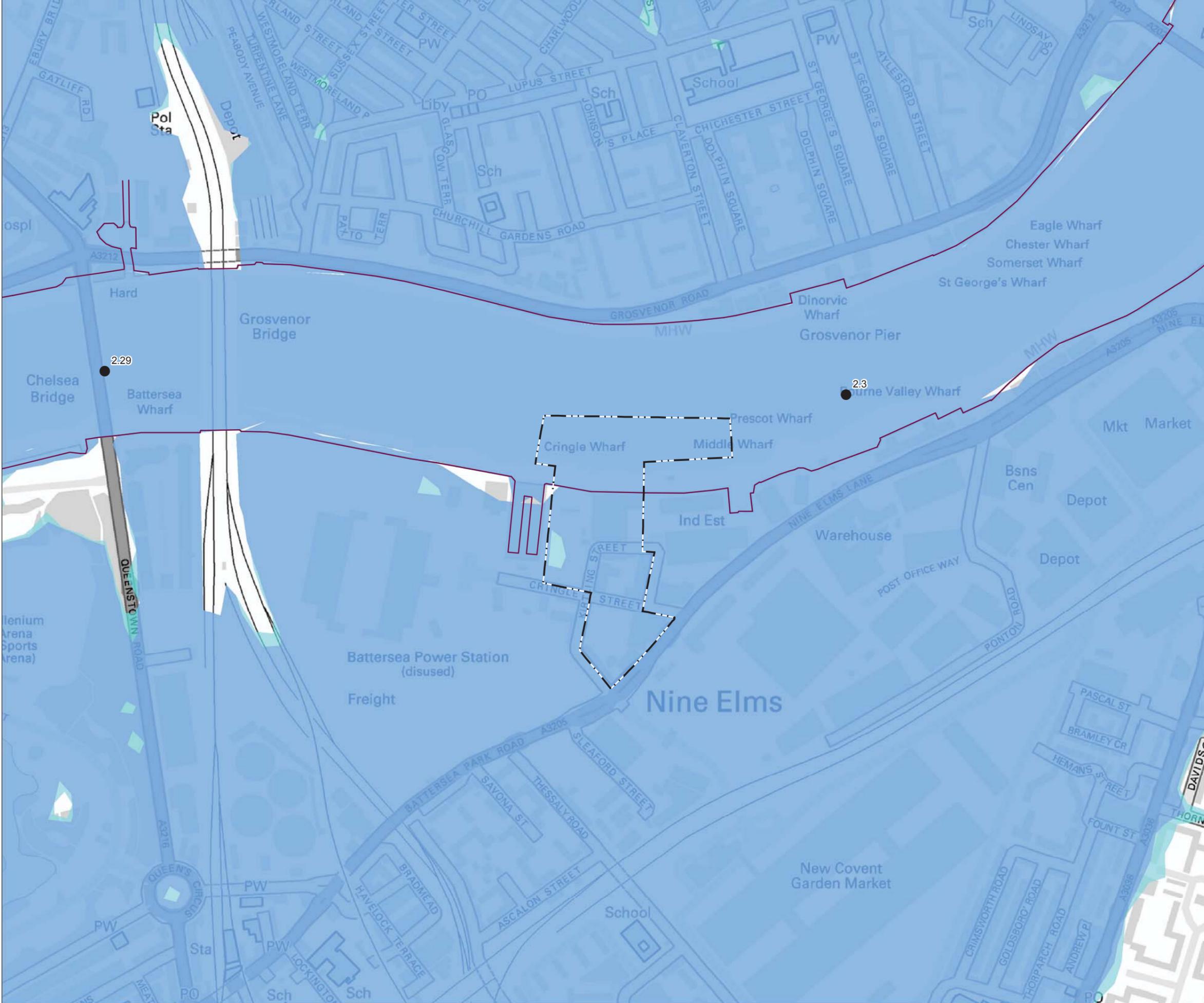
Document Information
Environmental Statement
Water resources - surface water - water quality monitoring points
Vol.14 Figure 14.4.1
1PL03-WR-21011
January 2013



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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



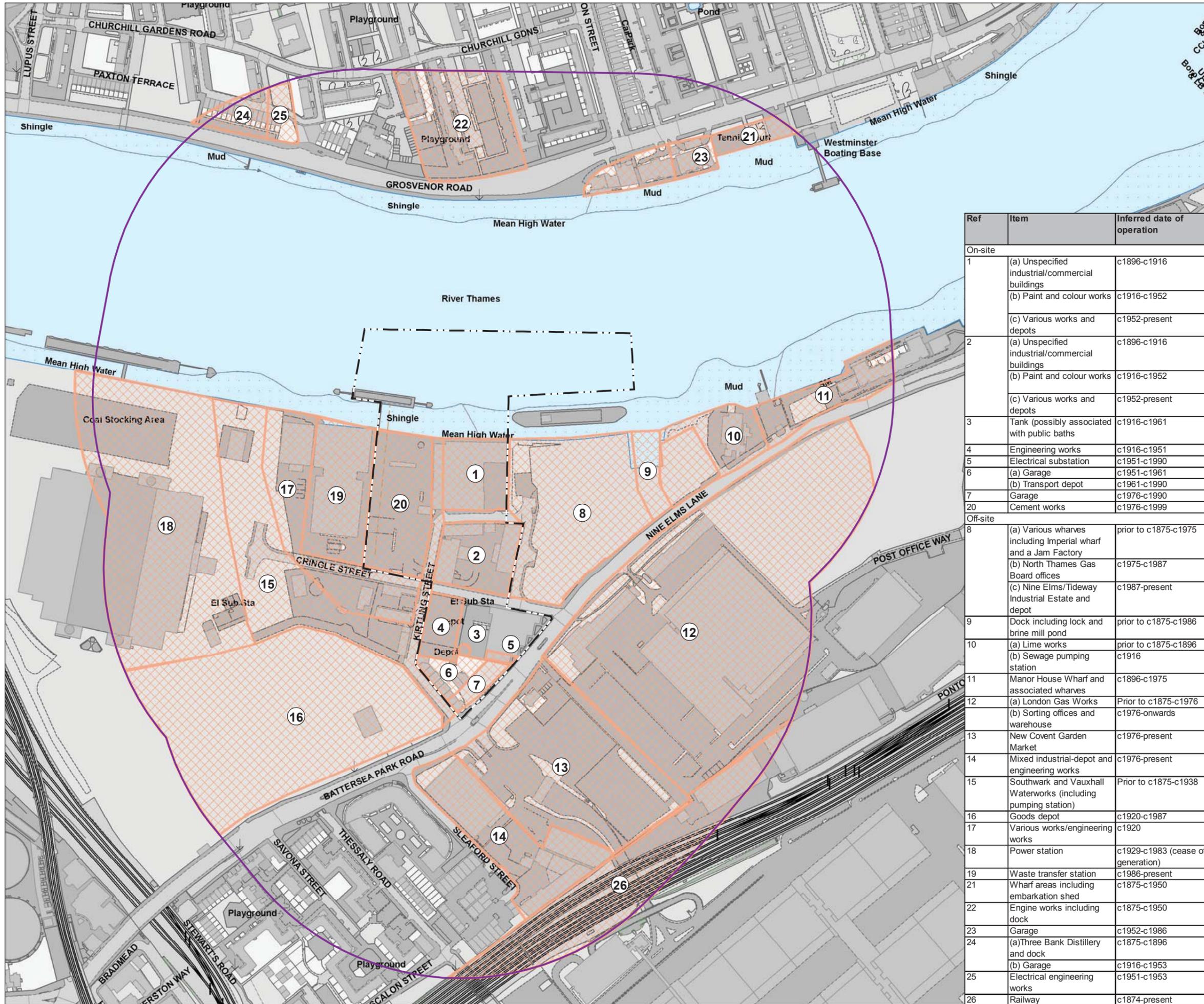
FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Flood risk - EA flood zones

Vol.14 Figure 15.3.1
 1PL03-FL-20138
 January 2013





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- 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		
1	(a) Unspecified industrial/commercial buildings	c1896-c1916
	(b) Paint and colour works	c1916-c1952
	(c) Various works and depots	c1952-present
2	(a) Unspecified industrial/commercial buildings	c1896-c1916
	(b) Paint and colour works	c1916-c1952
	(c) Various works and depots	c1952-present
3	Tank (possibly associated with public baths)	c1916-c1961
4	Engineering works	c1916-c1951
5	Electrical substation	c1951-c1990
6	(a) Garage	c1951-c1961
	(b) Transport depot	c1961-c1990
7	Garage	c1976-c1990
20	Cement works	c1976-c1999
Off-site		
8	(a) Various wharves including Imperial wharf and a Jam Factory	prior to c1875-c1975
	(b) North Thames Gas Board offices	c1975-c1987
	(c) Nine Elms/Tideway Industrial Estate and depot	c1987-present
9	Dock including lock and brine mill pond	prior to c1875-c1986
10	(a) Lime works	prior to c1875-c1896
	(b) Sewage pumping station	c1916
11	Manor House Wharf and associated wharves	c1896-c1975
12	(a) London Gas Works	Prior to c1875-c1976
	(b) Sorting offices and warehouse	c1976-onwards
13	New Covent Garden Market	c1976-present
14	Mixed industrial-depot and engineering works	c1976-present
15	Southwark and Vauxhall Waterworks (including pumping station)	Prior to c1875-c1938
16	Goods depot	c1920-c1987
17	Various works/engineering works	c1920
18	Power station	c1929-c1983 (cease of generation)
19	Waste transfer station	c1986-present
21	Wharf areas including embarkation shed	c1875-c1950
22	Engine works including dock	c1875-c1950
23	(a) Garage	c1952-c1986
	(b) Garage	c1916-c1953
24	(a) Three Bank Distillery and dock	c1875-c1896
	(b) Garage	c1916-c1953
25	Electrical engineering works	c1951-c1953
26	Railway	c1874-present



FOR INFORMATION

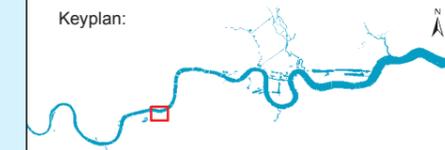
Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Land quality - potentially contaminating land-uses
 Vol.14 Figure F.1.1
 1PL03-LQ-30085
 January 2013



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Keyplan:



Key

Drilled Boreholes

Depth (m)

- 0 - 10
- 10 - 30
- 30+

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

Limit of Land 250m Buffer



Scale 1 : 3,500 at A3

FOR INFORMATION

Location

Kirtling Street
 London Borough of Wandsworth

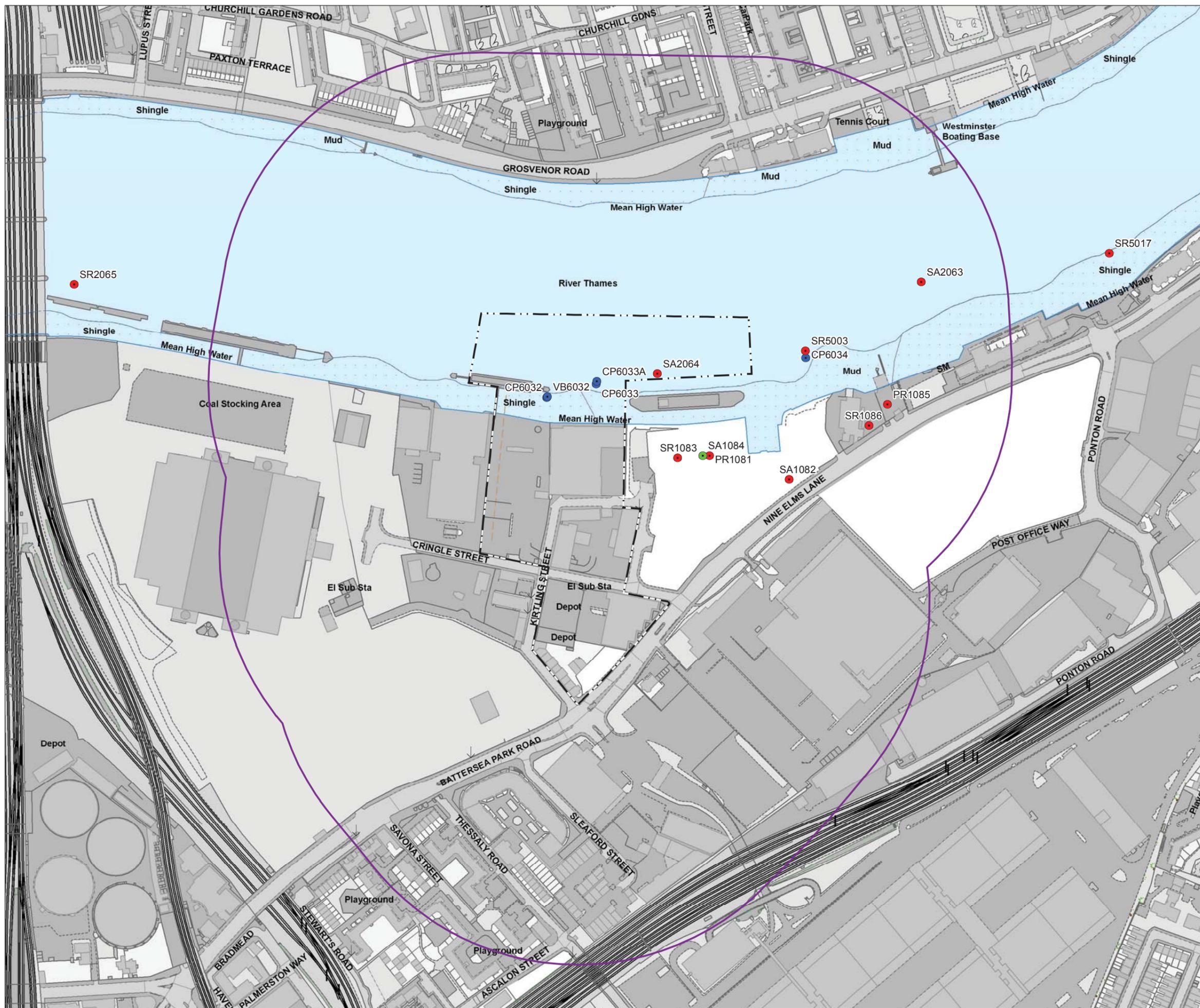
Document Information

Environmental Statement
 Land quality - borehole locations

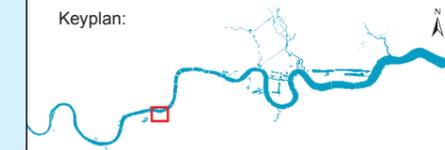
Vol.14 Figure F.1.2

1PL03-LQ-30086
 January 2013

Thames Tideway Tunnel
 Creating a cleaner, healthier River Thames



Keyplan:



Key

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

Waste

- Licensed Waste Management Facilities
- ▲ Past Potential Contaminated Industrial Uses
- Registered Waste Transfer Sites
- Historical Landfill Sites

Hazards

- Pollution Incidents to Controlled Waters
- LA Pollution Prevention & Controls
- Control of Major Accident Hazards Sites
- ▲ Past Potentially Contaminated Industrial Uses



Scale 1 : 3,500 at A3

FOR INFORMATION

Location

Kirtling Street
London Borough of Wandsworth

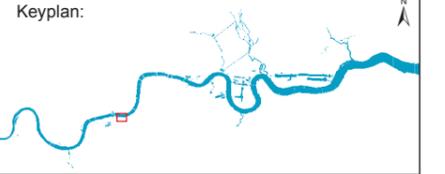
Document Information

Environmental Statement
Land quality - hazard and waste sites

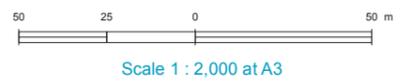
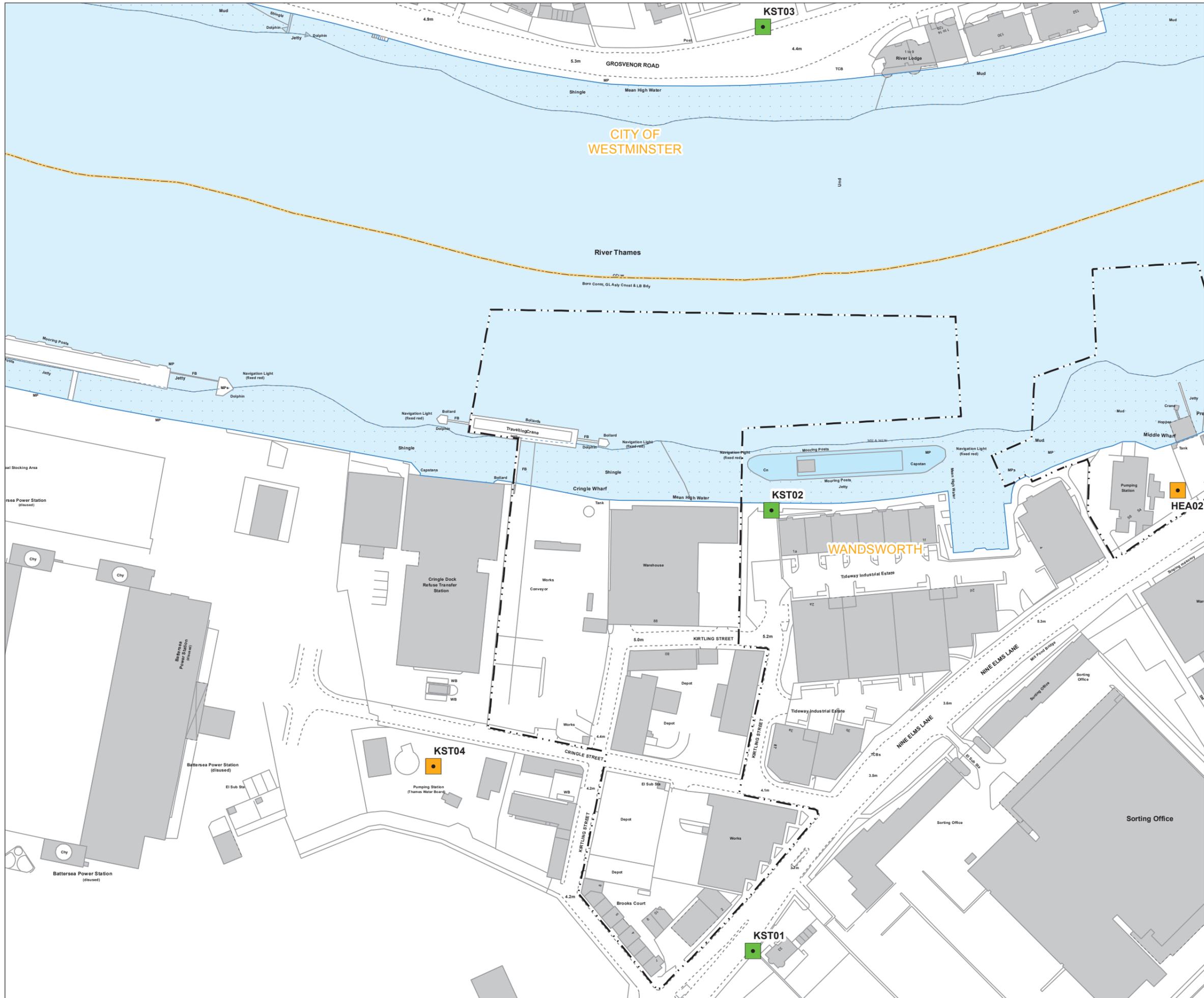
Vol.14 Figure F.1.3

1PL03-LQ-30087
January 2013

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- Key:
- Limits of Land to be Acquired or Used
 - Local Authority Boundary
- Noise Survey Locations
- Attended
 - Unattended



FOR INFORMATION

Location
Kirtling Street
 London Borough of Wandsworth

Document Information
Environmental Statement
 Noise and vibration - noise survey locations

Vol.14 Figure G.1
 1PL03-NV-40110
 January 2013



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