

Riverside Energy Park

Environmental Statement: Figures

VOLUME NUMBER:

06

PLANNING INSPECTORATE REFERENCE NUMBER:

EN010093

DOCUMENT REFERENCE:

6.2

August 2018 | Revision 0 | APFP Regulation 5(2)(a)

Planning Act 2008 | Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

Riverside Energy Park

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August 2018 | Revision 0 | APFP Regulation 5(2)(a)

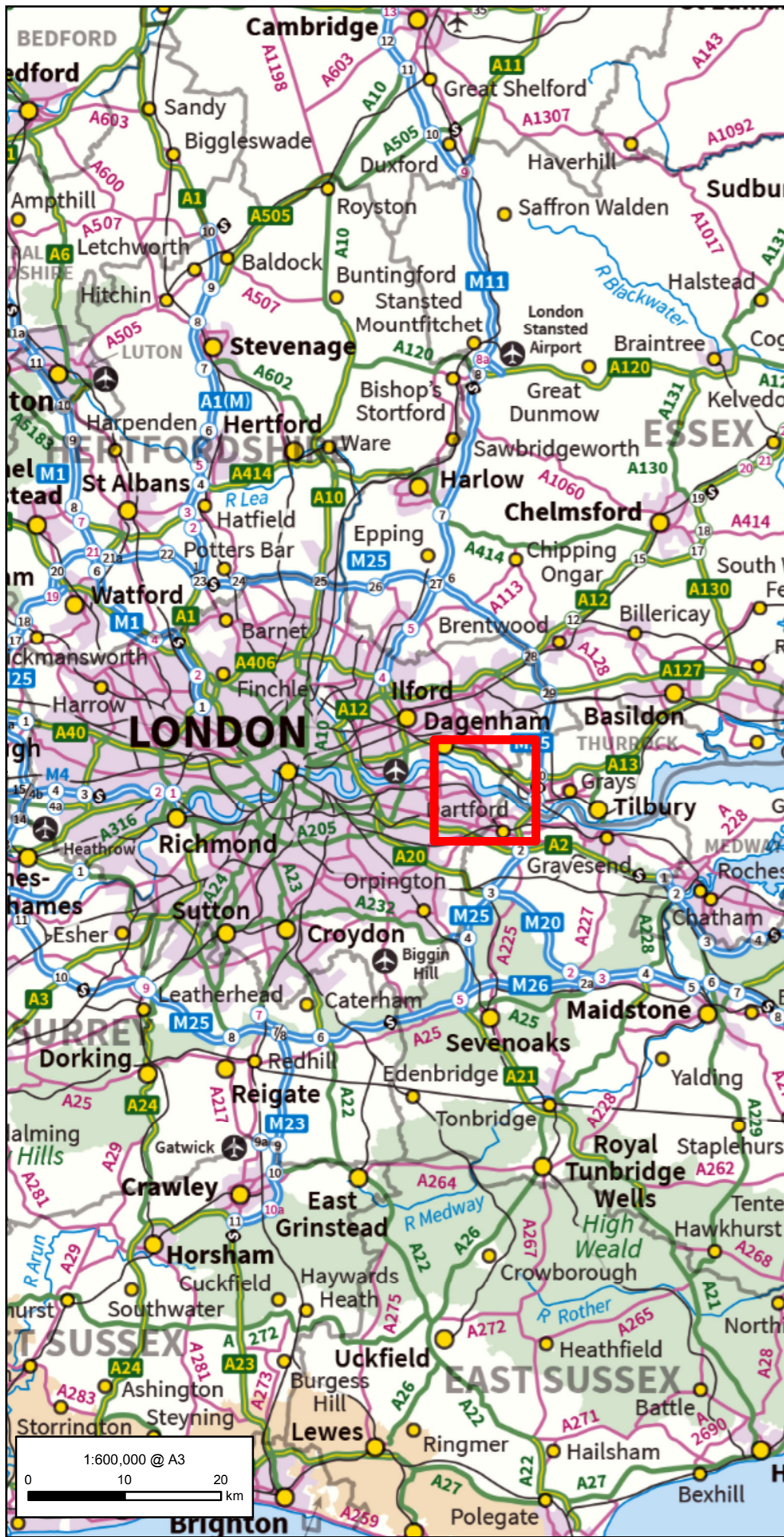
Planning Act 2008 | Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

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12.1 Hydrology, Flood Risk and Water Resources Study Area

14.1 Socio-economic Study Area



Application Boundary
 Area not included in Application Boundary

1:600,000 @ A3
0 10 20 km

1:40,000 @ A3
0 1 2 km

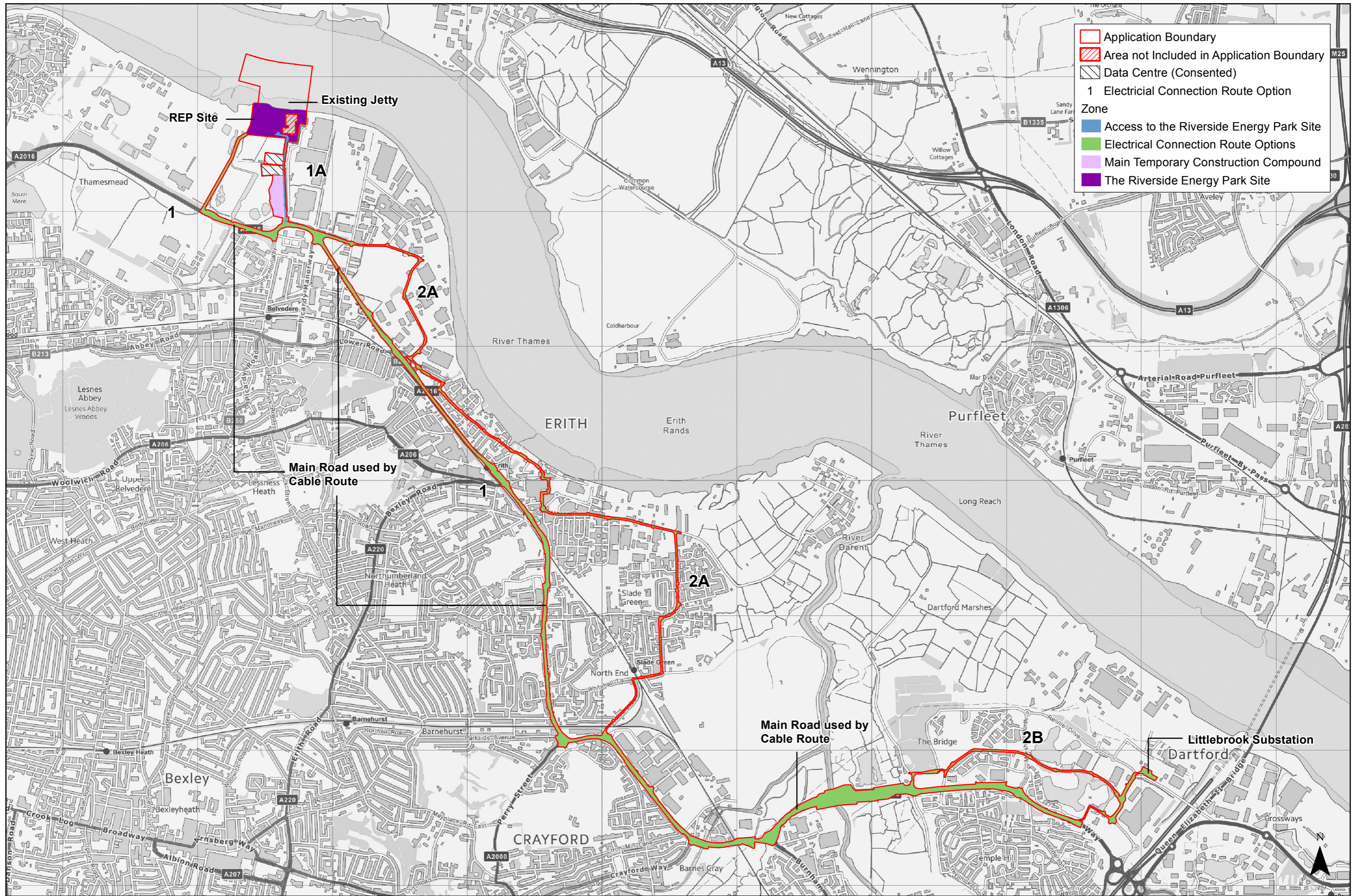
RIVERSIDE ENERGY PARK

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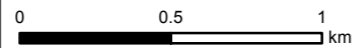
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Site Location Plan



- Application Boundary
- Area not Included in Application Boundary
- Data Centre (Consented)
- 1** Electrical Connection Route Option
- Zone**
- Access to the Riverside Energy Park Site
- Electrical Connection Route Options
- Main Temporary Construction Compound
- The Riverside Energy Park Site

RIVERSIDE ENERGY PARK



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Based on Babcock/EDF plan - RRRL Cable Route Landowners - 2-01-2010 - Drawing NO. Cable Route Plan



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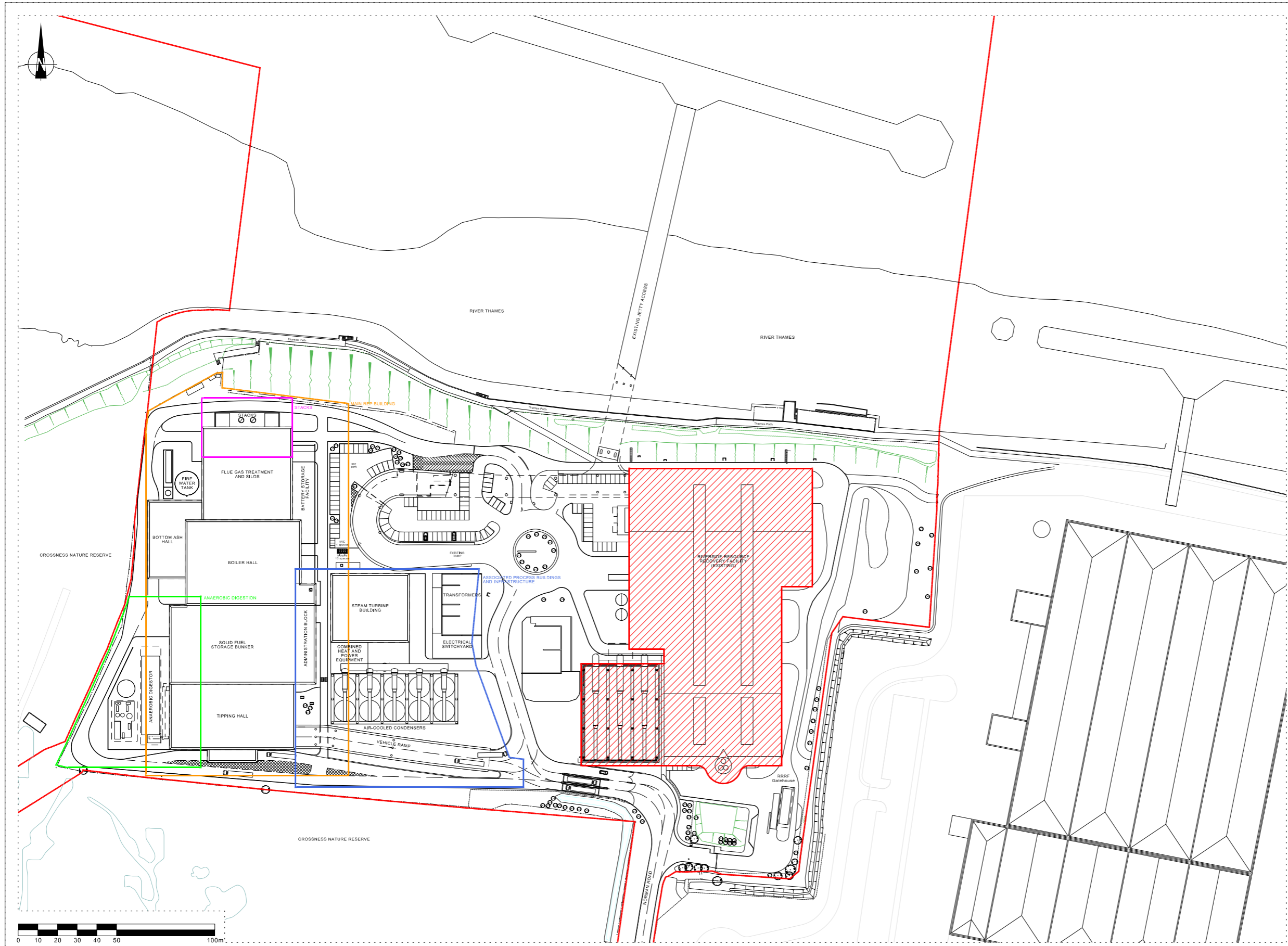
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Application Boundary and Assessment Areas



- KEY:**
- APPLICATION BOUNDARY
 - AREA NOT INCLUDED IN APPLICATION BOUNDARY

- PARAMETERS KEY:**
- MAIN REP BUILDING
 - ANAEROBIC DIGESTION
 - ASSOCIATED PROCESS BUILDINGS AND INFRASTRUCTURE
 - STACKS

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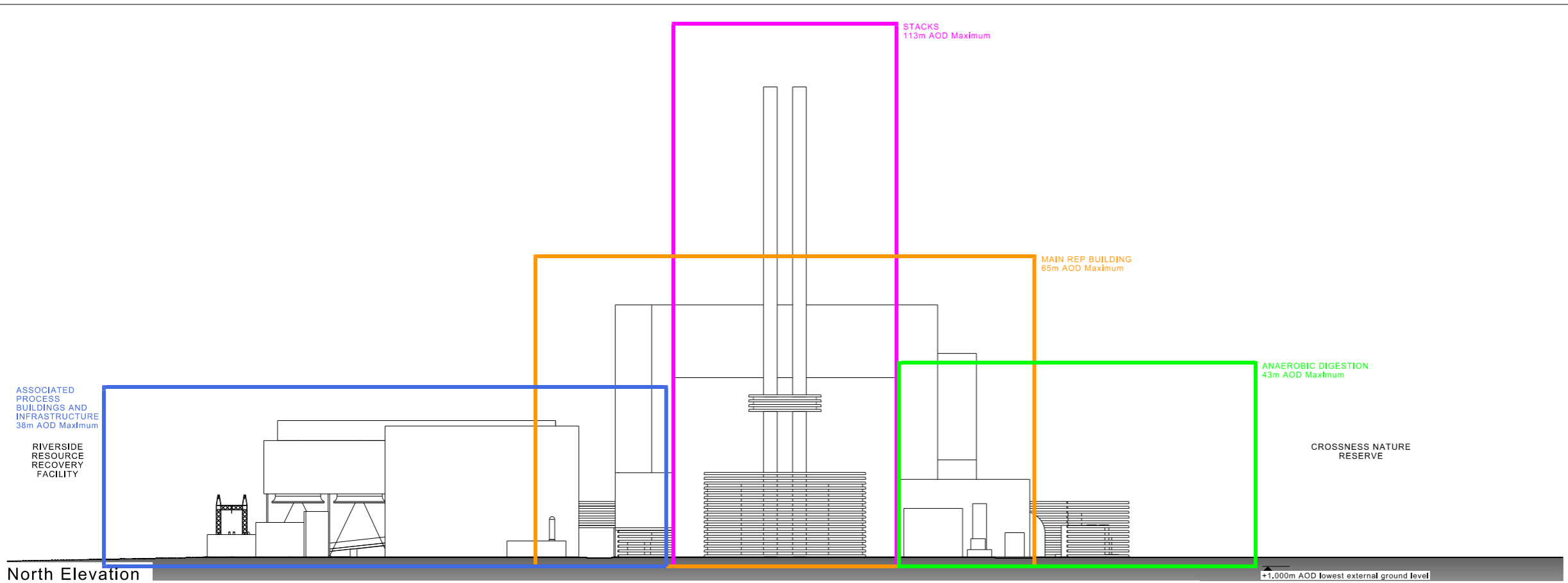
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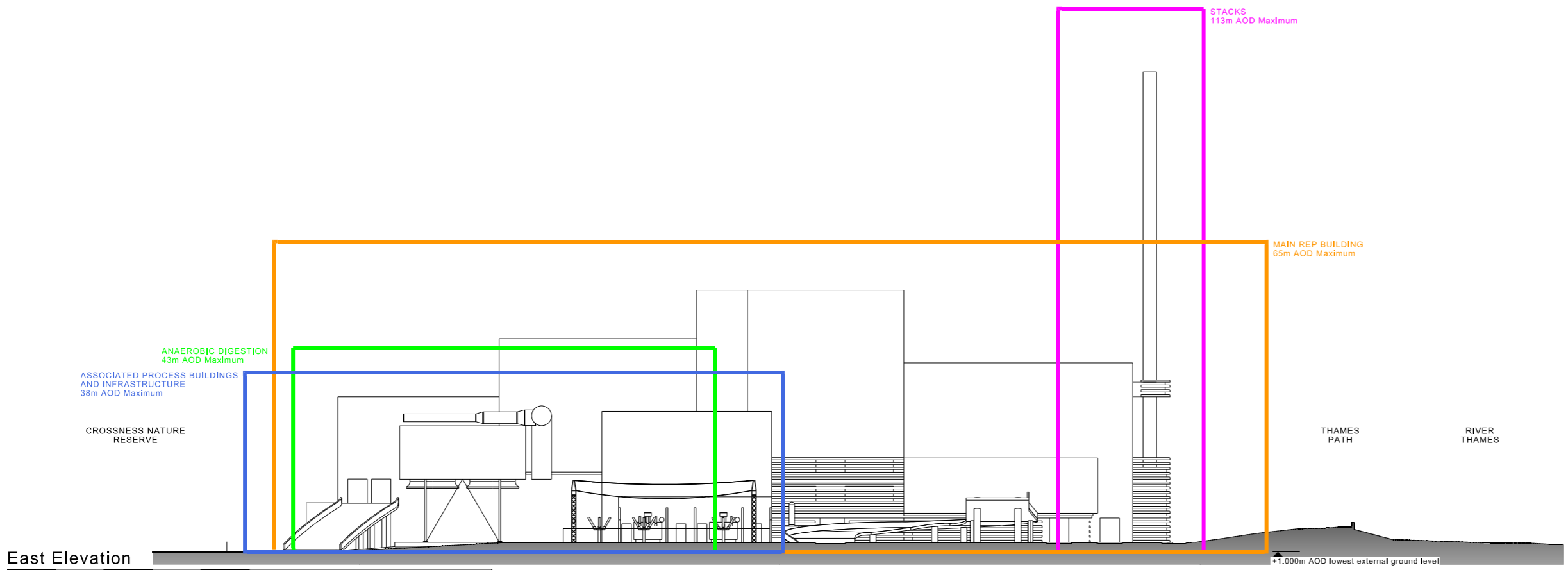
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RIVERSIDE ENERGY PARK
NORMAN ROAD BELVEDERE LONDON
ILLUSTRATIVE SITE LAYOUT AND PARAMETERS PLAN
THE RIVERSIDE ENERGY PARK SITE LONDON

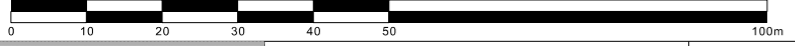
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North Elevation



East Elevation



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 - ANAEROBIC DIGESTION
 - ASSOCIATED PROCESS BUILDINGS AND INFRASTRUCTURE
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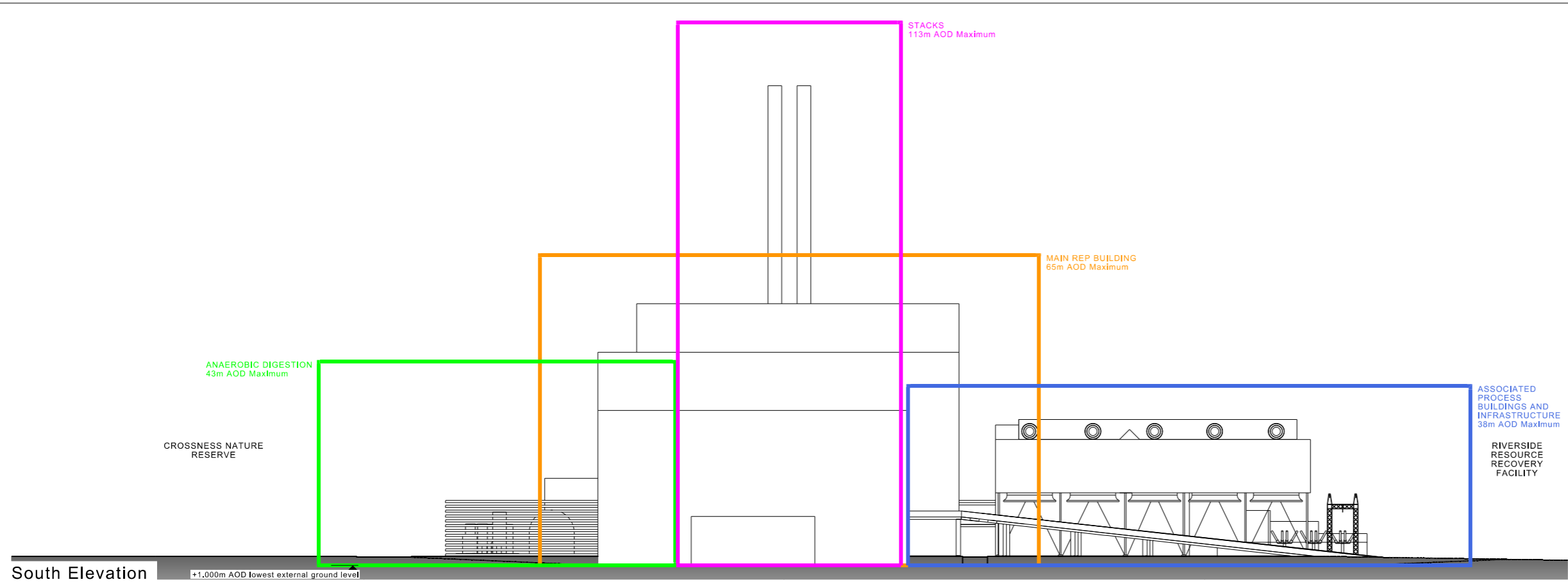
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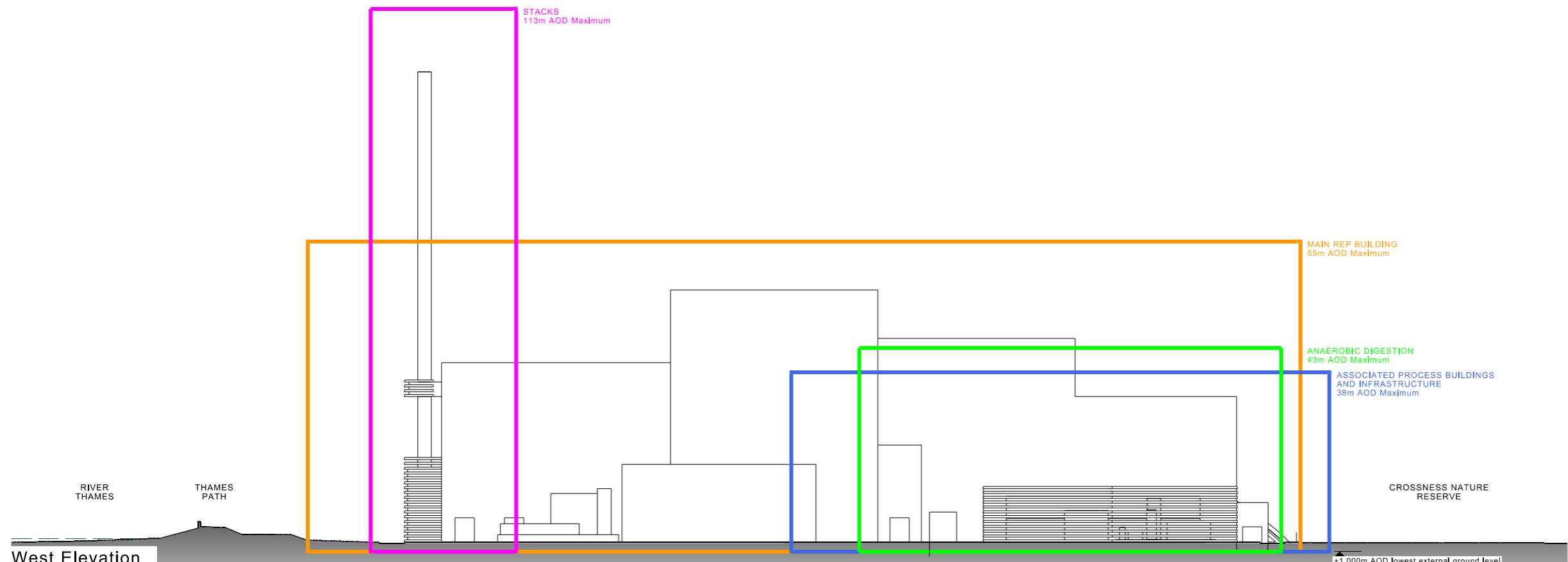
RIVERSIDE ENERGY PARK
NORMAN ROAD BELVEDERE LONDON
ILLUSTRATIVE NORTH AND EAST PARAMETER ELEVATIONS
THE RIVERSIDE ENERGY PARK SITE LONDON

Date	13.11.18
A3 Scale	1:1000
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Drawing Number	Figure 1.3b



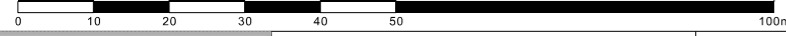
South Elevation

+1.000m AOD lowest external ground level



West Elevation

+1.000m AOD lowest external ground level



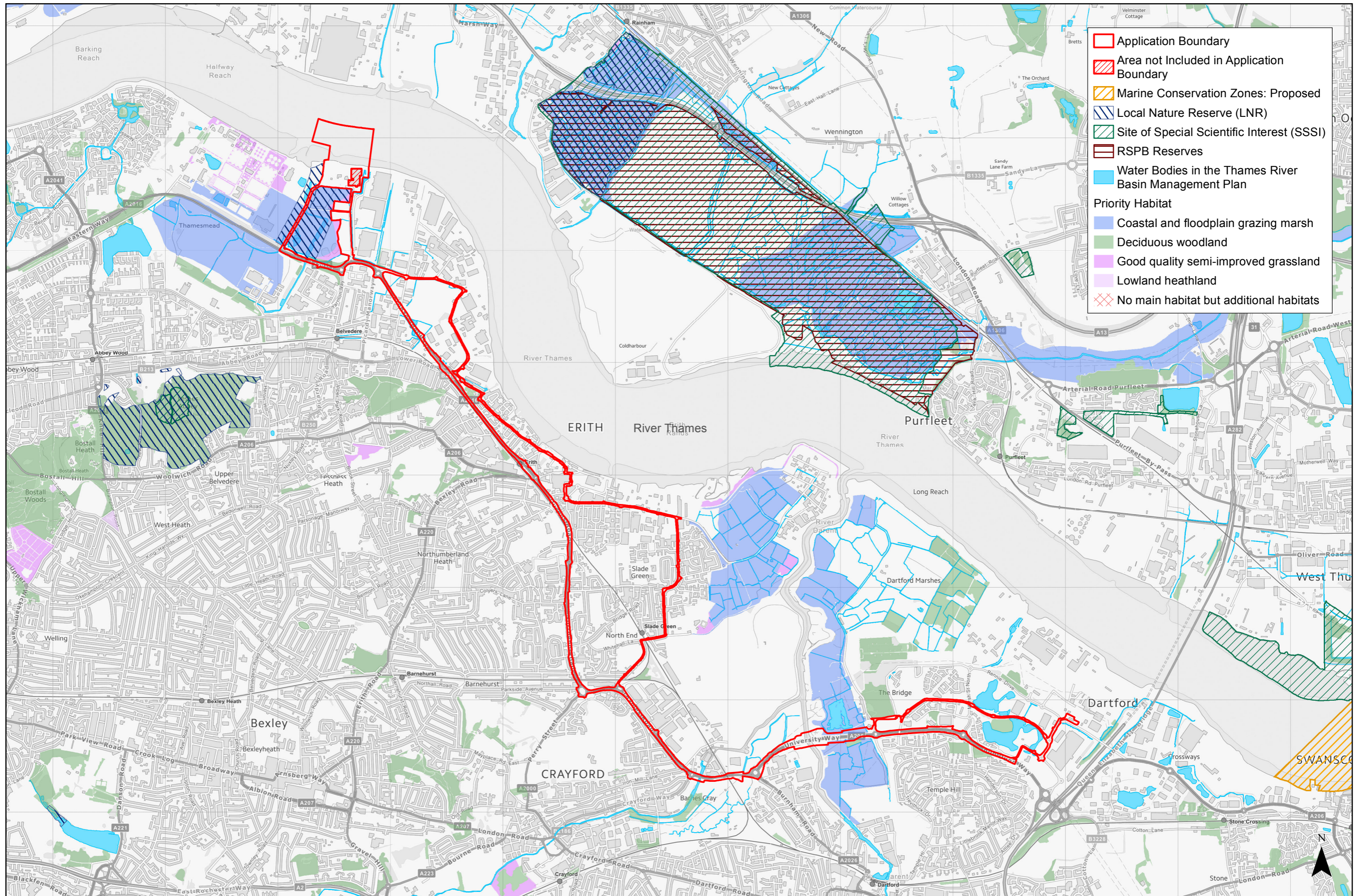
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 - ANAEROBIC DIGESTION
 - ASSOCIATED PROCESS BUILDINGS AND INFRASTRUCTURE
 - STACKS

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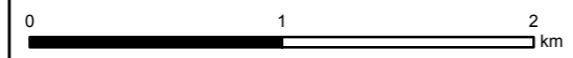
RIVERSIDE ENERGY PARK
NORMAN ROAD BELVEDERE LONDON
ILLUSTRATIVE SOUTH AND WEST PARAMETER ELEVATIONS
THE RIVERSIDE ENERGY PARK SITE LONDON

Date	13.11.18
A3 Scale	1:1000
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Drawing Number	Figure 1.3c



- Application Boundary
- Area not Included in Application Boundary
- Marine Conservation Zones: Proposed
- Local Nature Reserve (LNR)
- Site of Special Scientific Interest (SSSI)
- RSPB Reserves
- Water Bodies in the Thames River Basin Management Plan
- Priority Habitat**
- Coastal and floodplain grazing marsh
- Deciduous woodland
- Good quality semi-improved grassland
- Lowland heathland
- No main habitat but additional habitats

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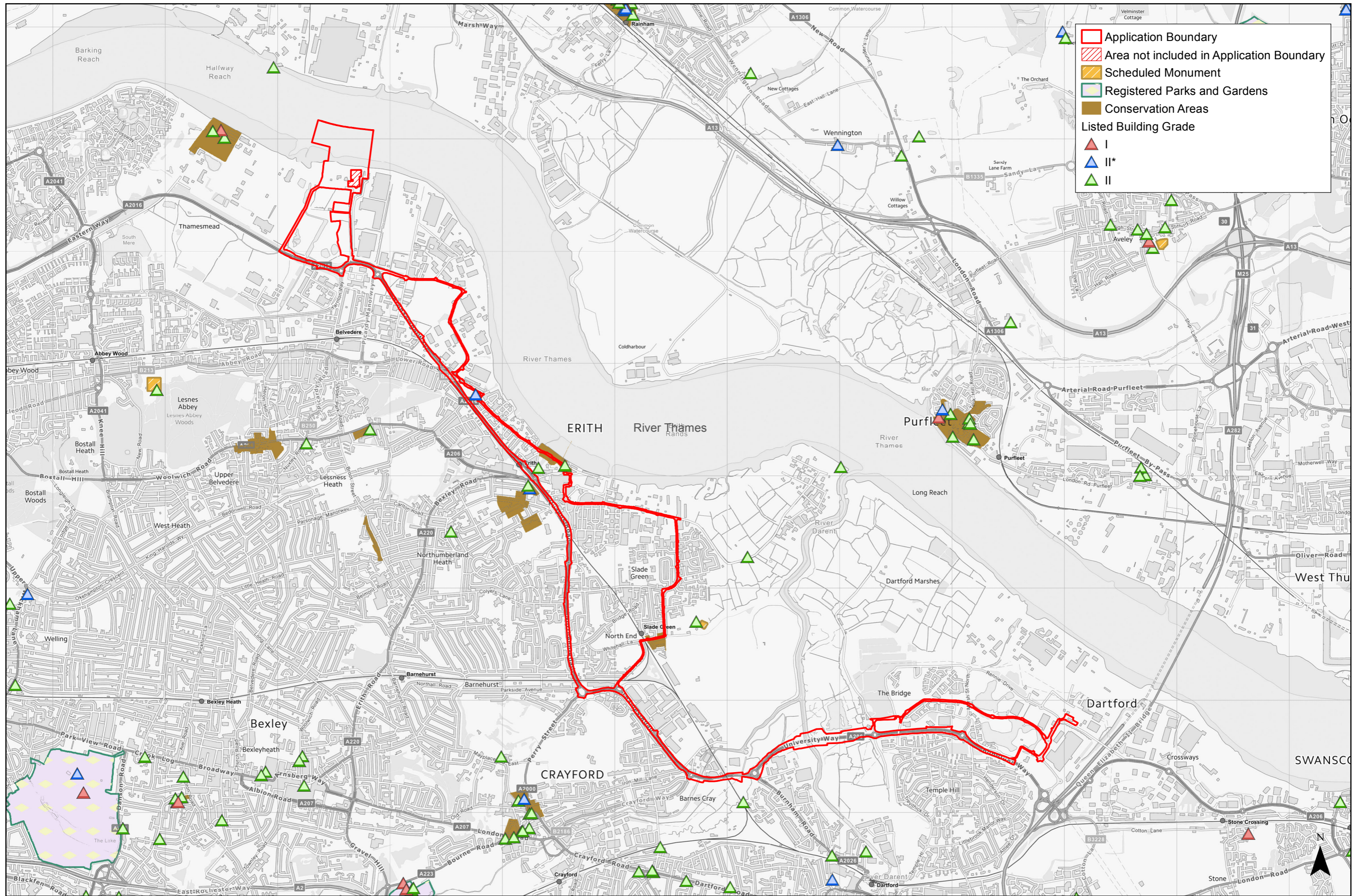


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Statutory and Non-Statutory Sites, Features and Habitats of Nature Conservation



Application Boundary
 Area not included in Application Boundary
 Scheduled Monument
 Registered Parks and Gardens
 Conservation Areas
Listed Building Grade
 I
 II*
 II

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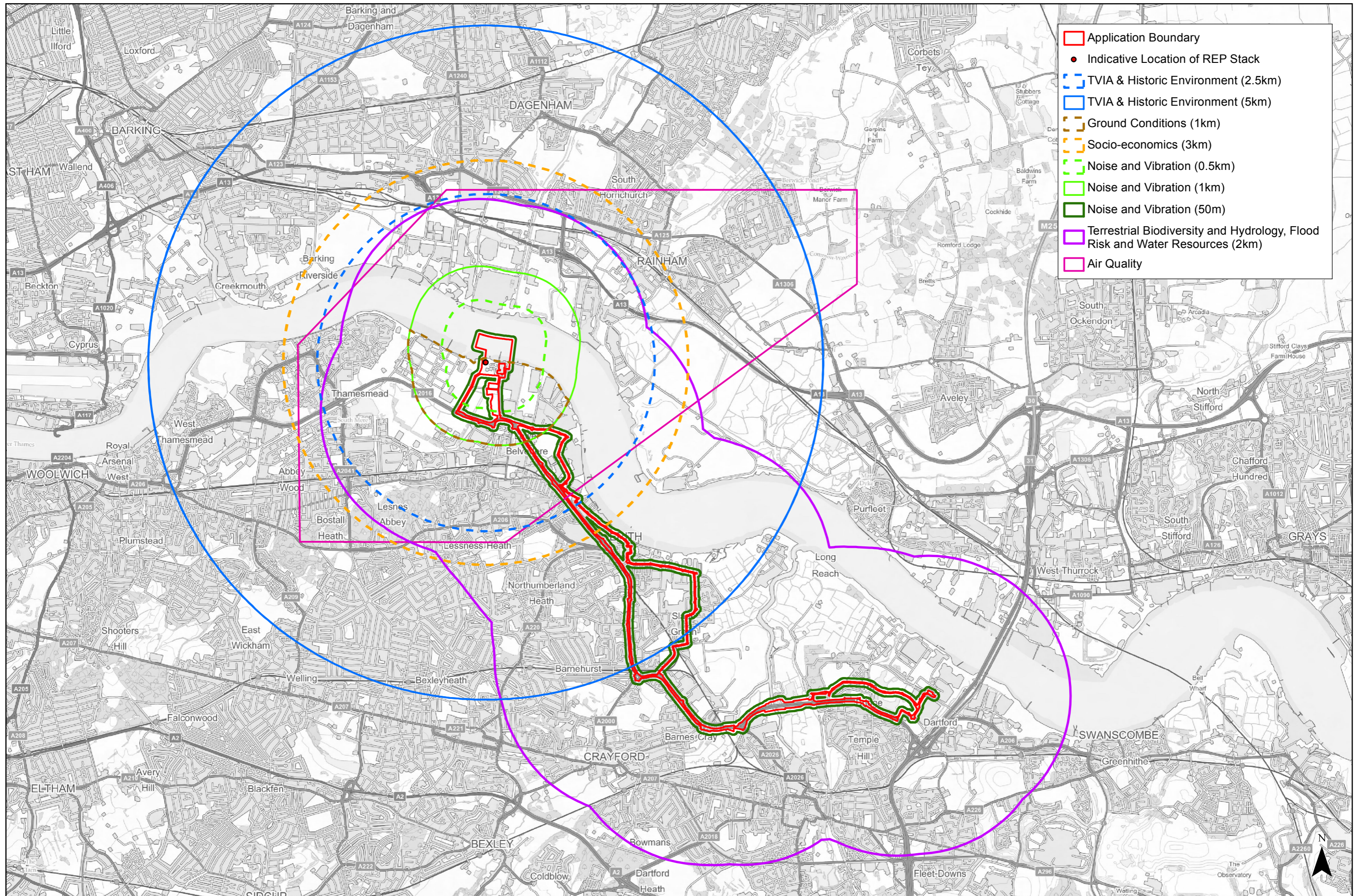


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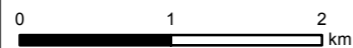


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Historic Environment - Statutory and Non-Statutory Sites and Features



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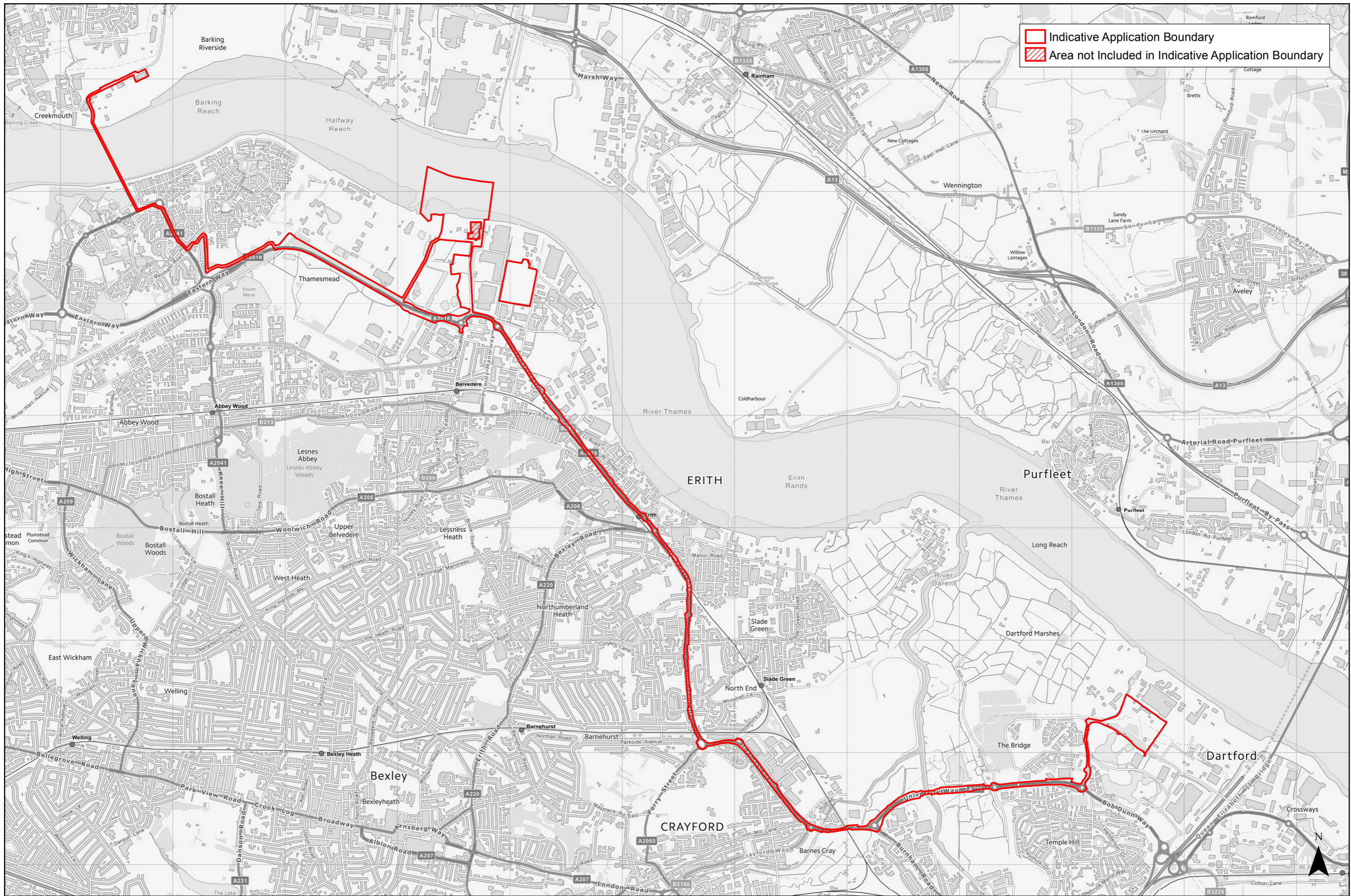
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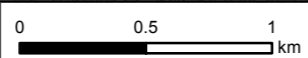
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EIA Zones of Influence for Cumulative Assessment



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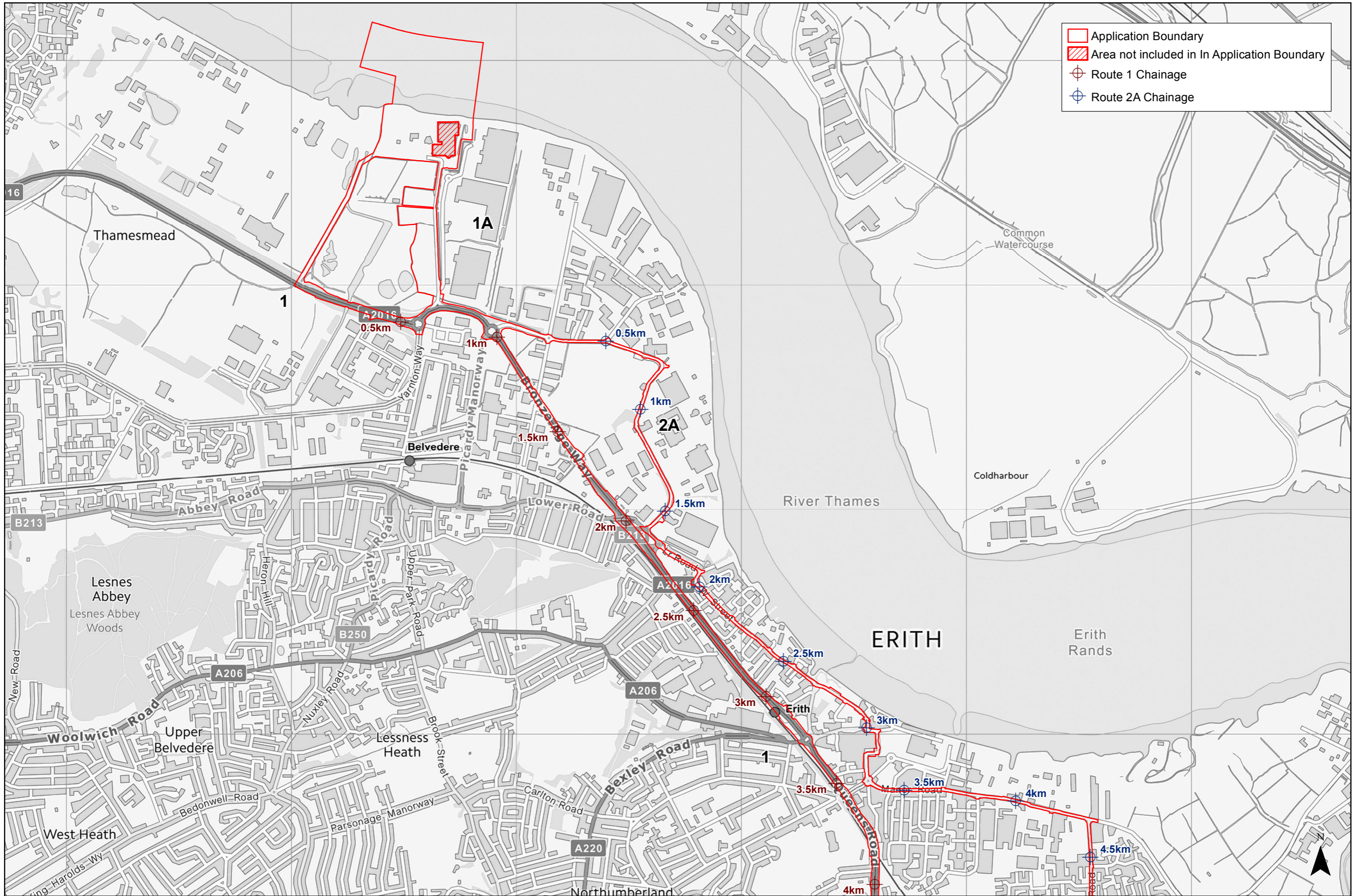
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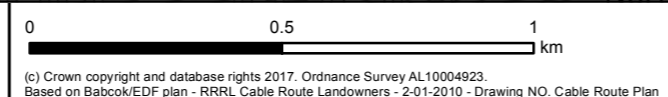
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Indicative Application Boundary - Scoping Stage



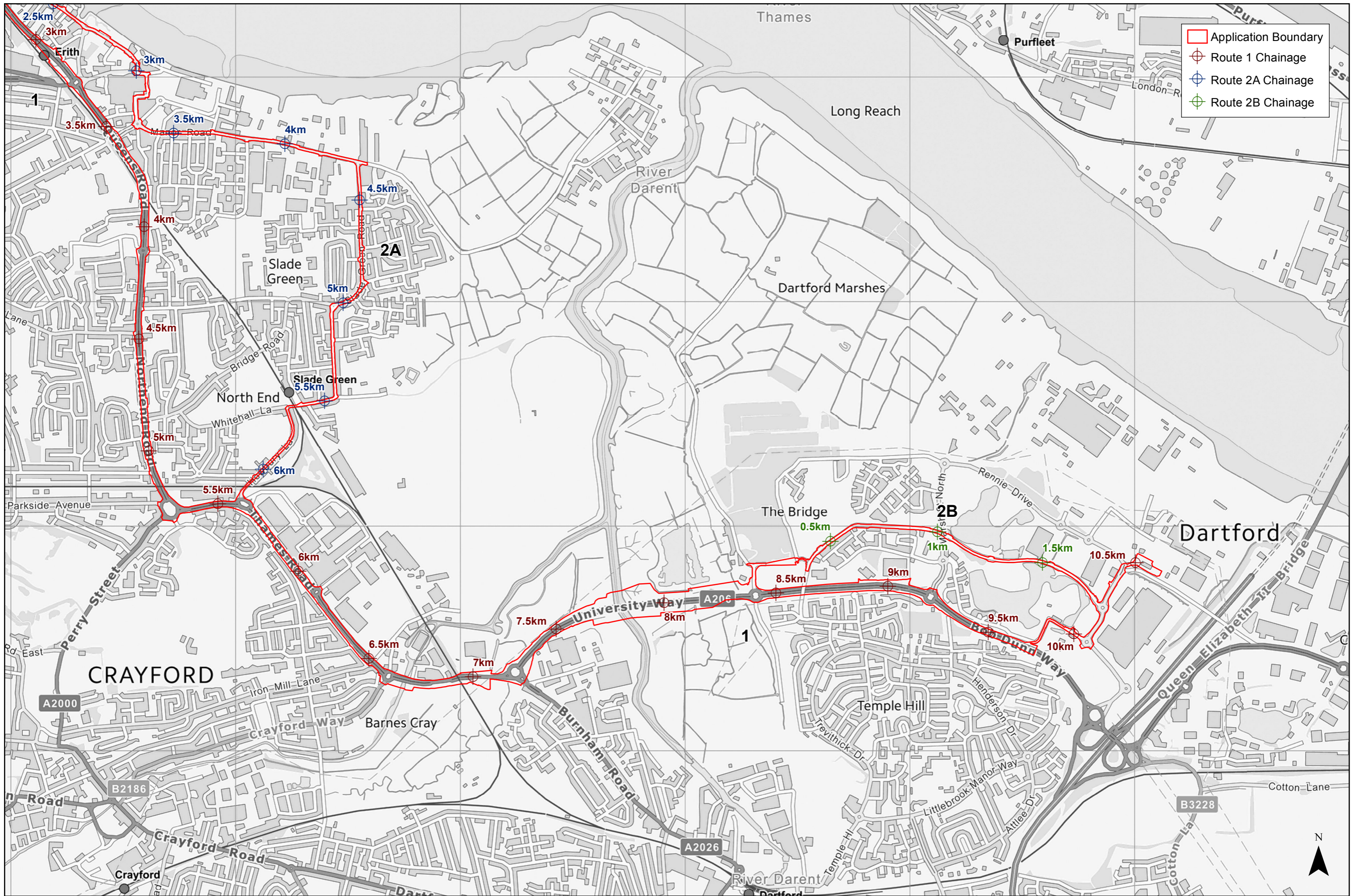
Application Boundary
 Area not included in In Application Boundary
⊕ Route 1 Chainage
⊕ Route 2A Chainage

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Electrical Connection Route Options (1 of 2)



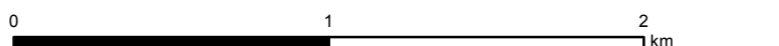
- Application Boundary
- ⊕ Route 1 Chainage
- ⊕ Route 2A Chainage
- ⊕ Route 2B Chainage

RIVERSIDE ENERGY PARK			Client 	1:15,000 @ A3 08/11/18 Drawn: CM Checked: JM	Electrical Connection Route Options (2 of 2)
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	Application Boundary
	Area not Included in Application Boundary
	Additional Areas Included in Application Boundary

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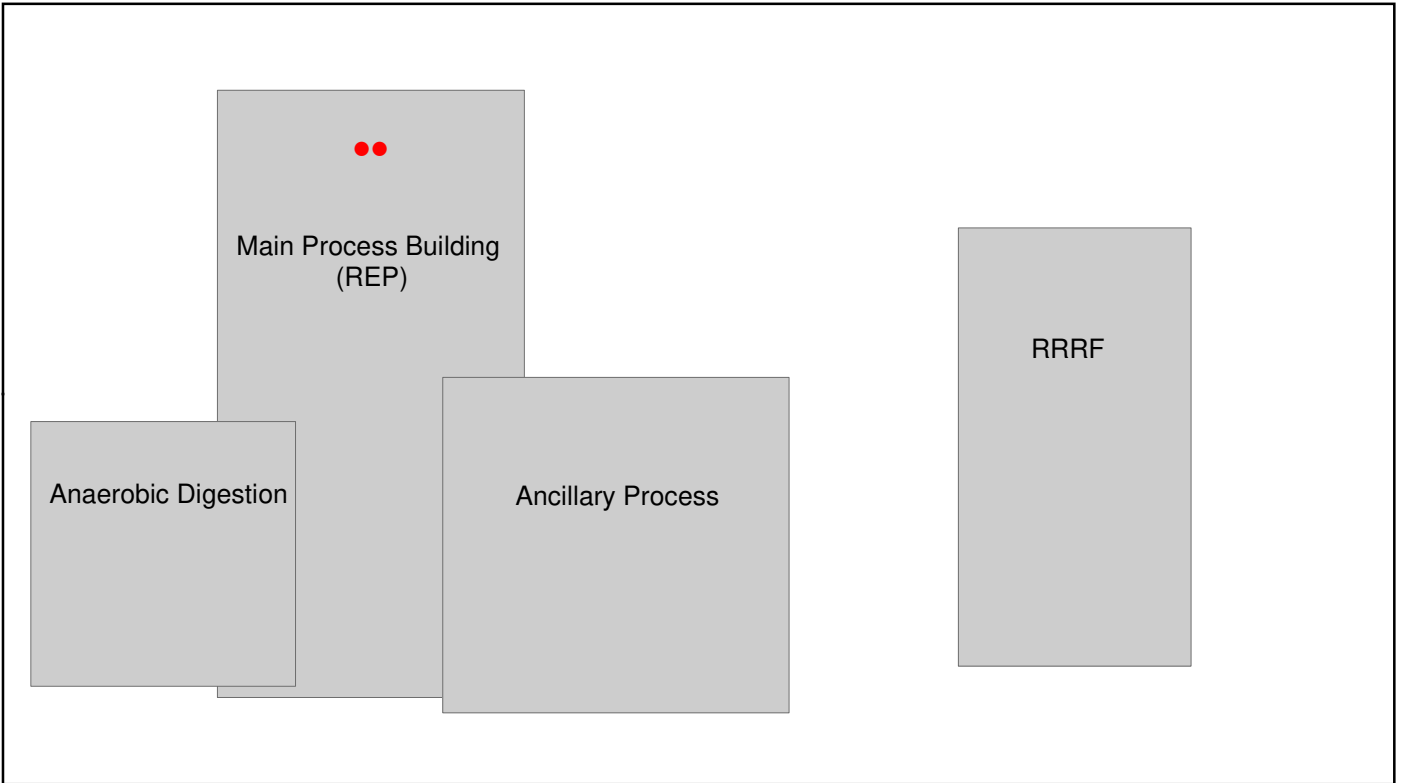
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Electrical Connection – Extension to the Application Boundary

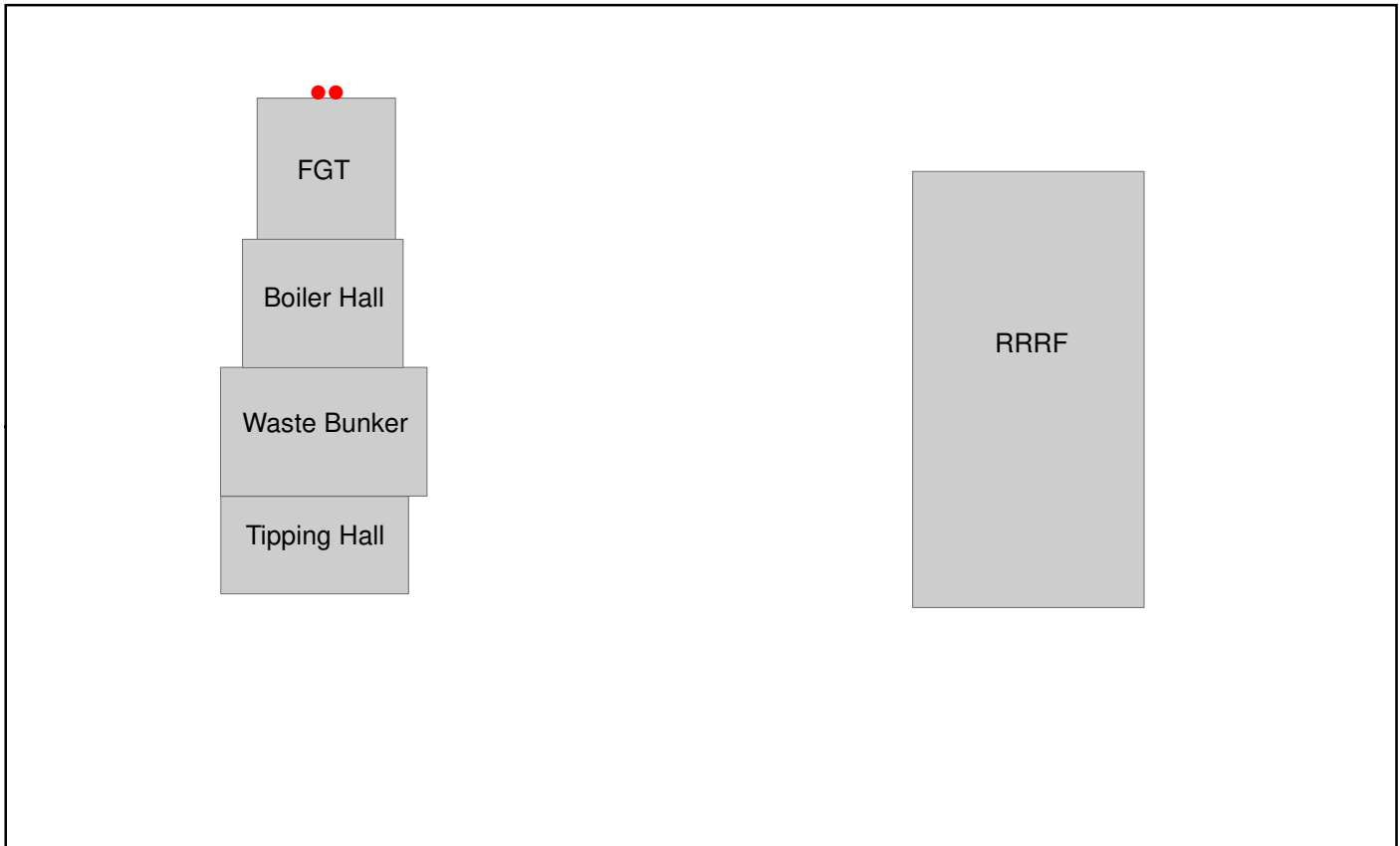
Legend

- Air Dispersion Modelling System Point Source
- Buildings

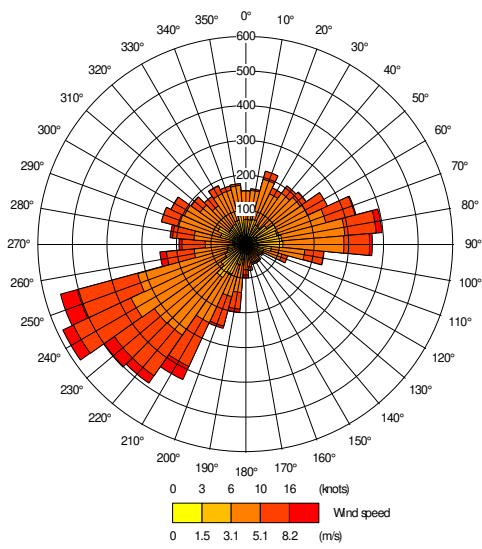
Rochdale Envelope



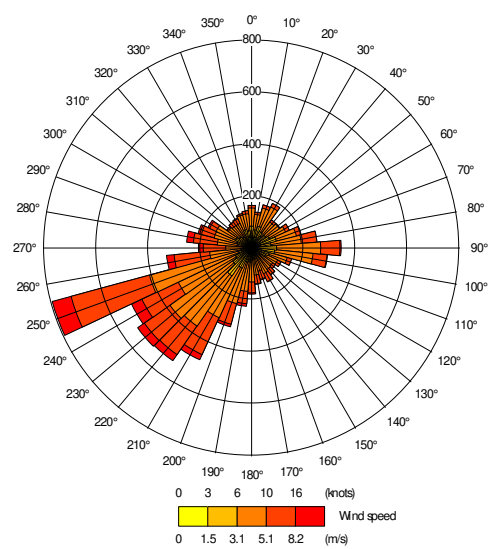
Proposed design stepped buildings for REP



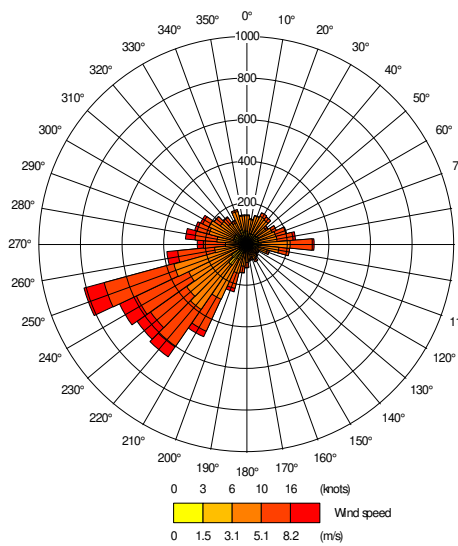
2013



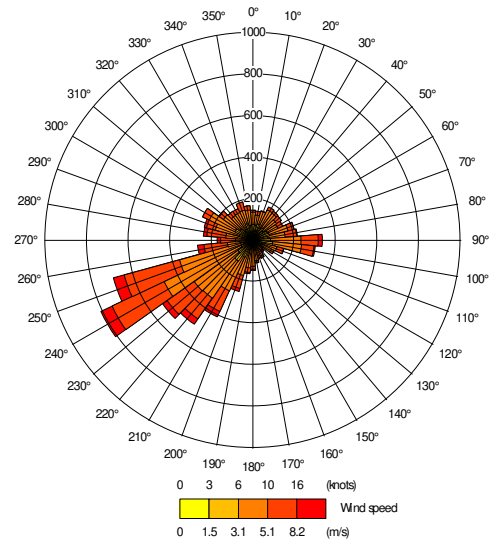
2014



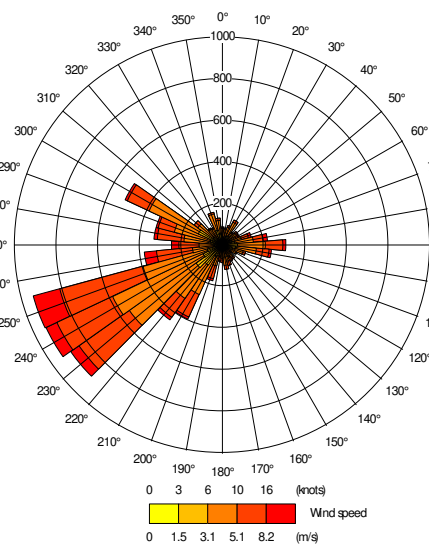
2015

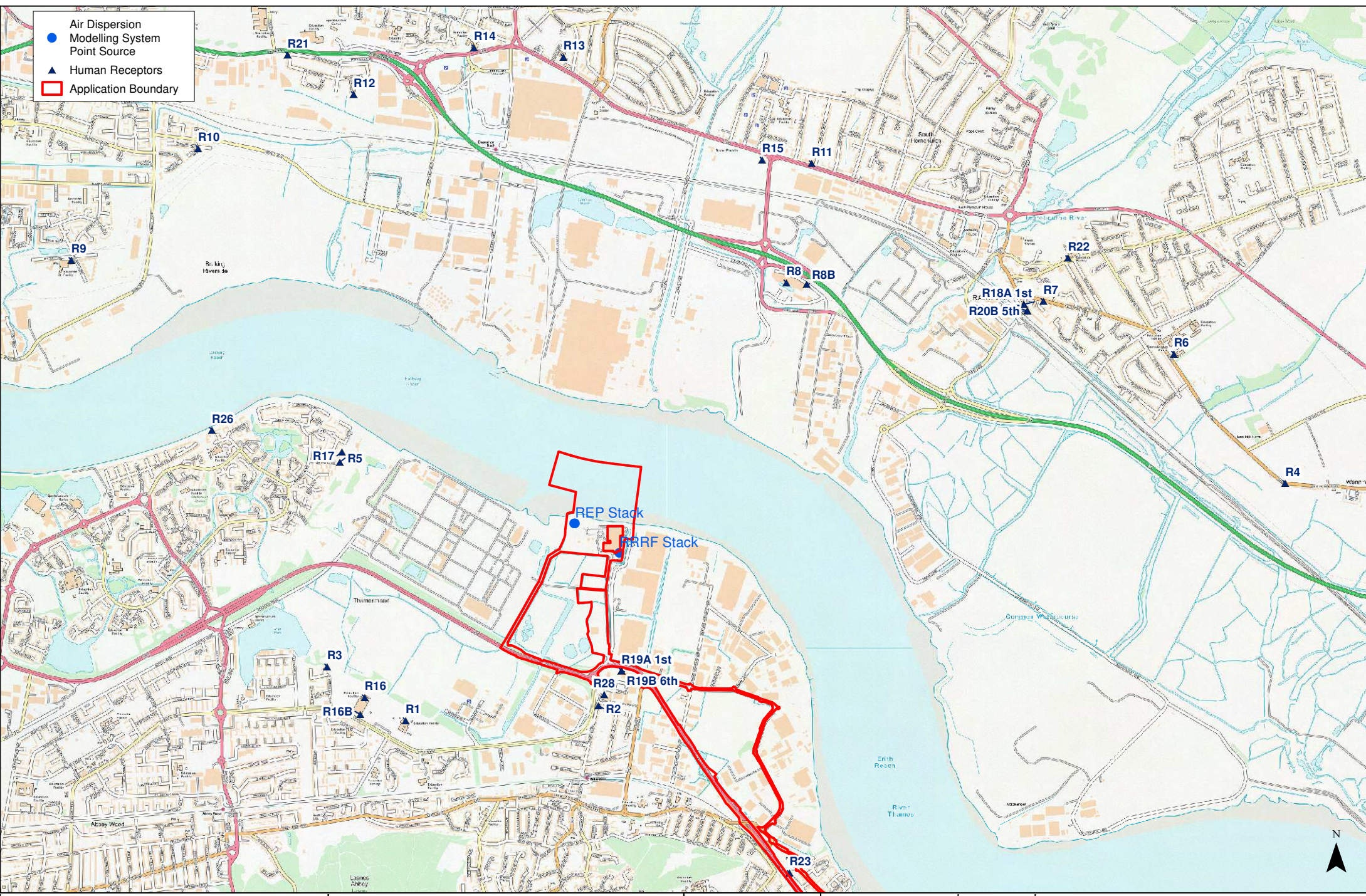


2016



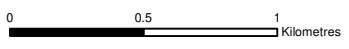
2017





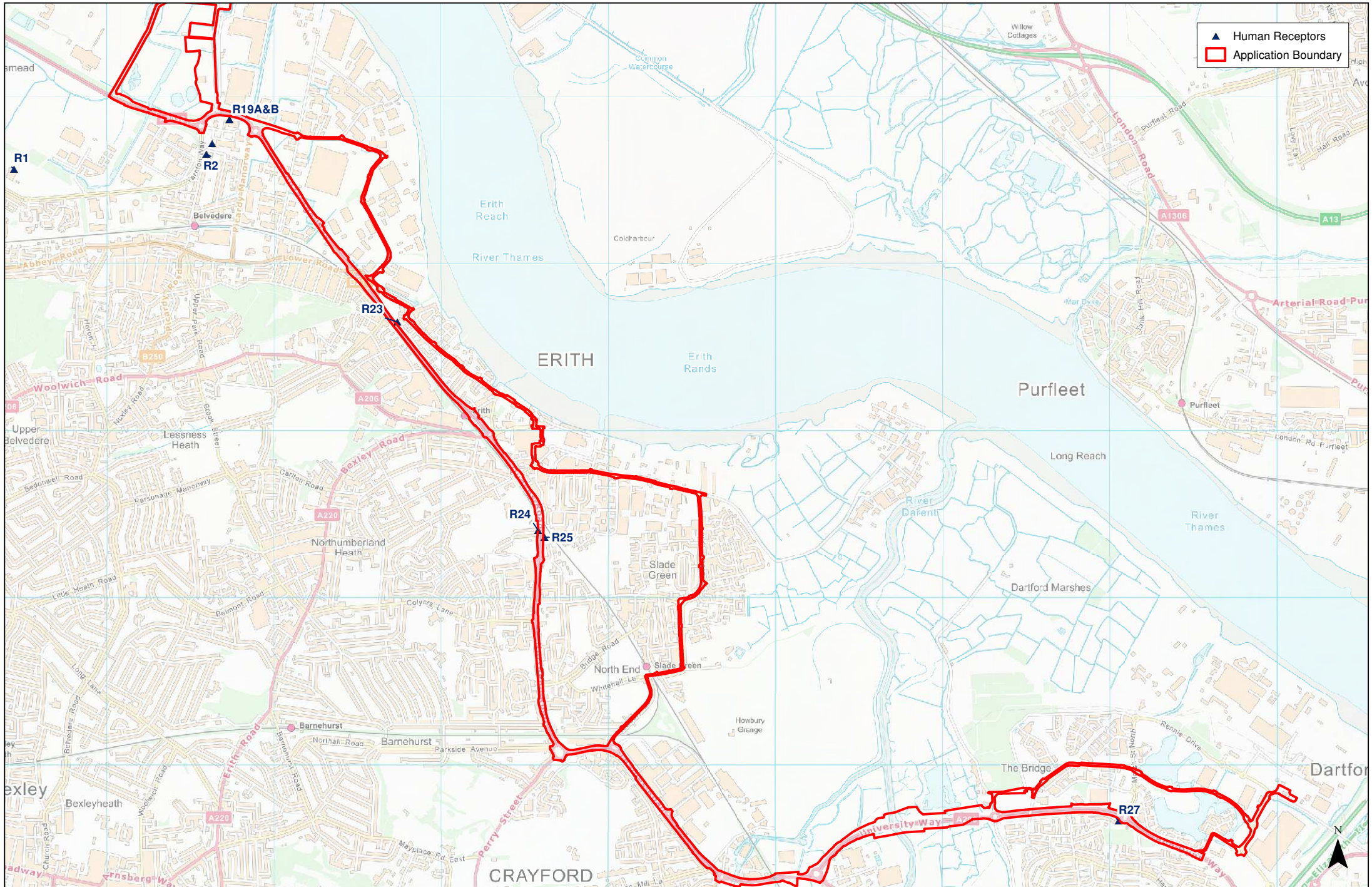
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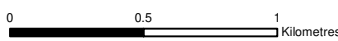
Human Health Receptor Locations



▲ Human Receptors
 □ Application Boundary

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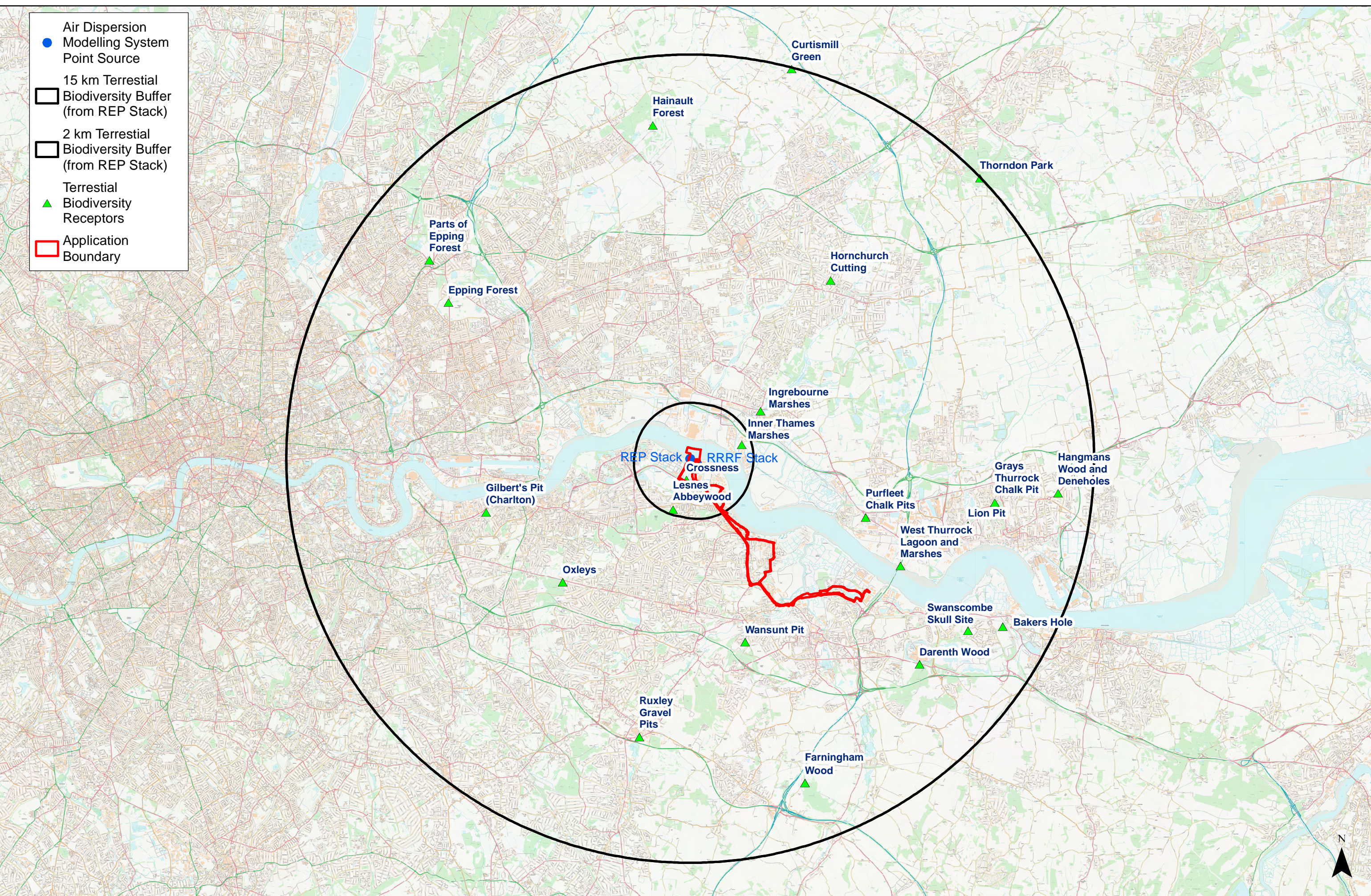
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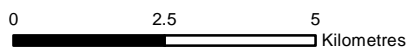
Human Health Receptor Locations

- Air Dispersion Modelling System Point Source
- 15 km Terrestrial Biodiversity Buffer (from REP Stack)
- 2 km Terrestrial Biodiversity Buffer (from REP Stack)
- Terrestrial Biodiversity Receptors
- Application Boundary



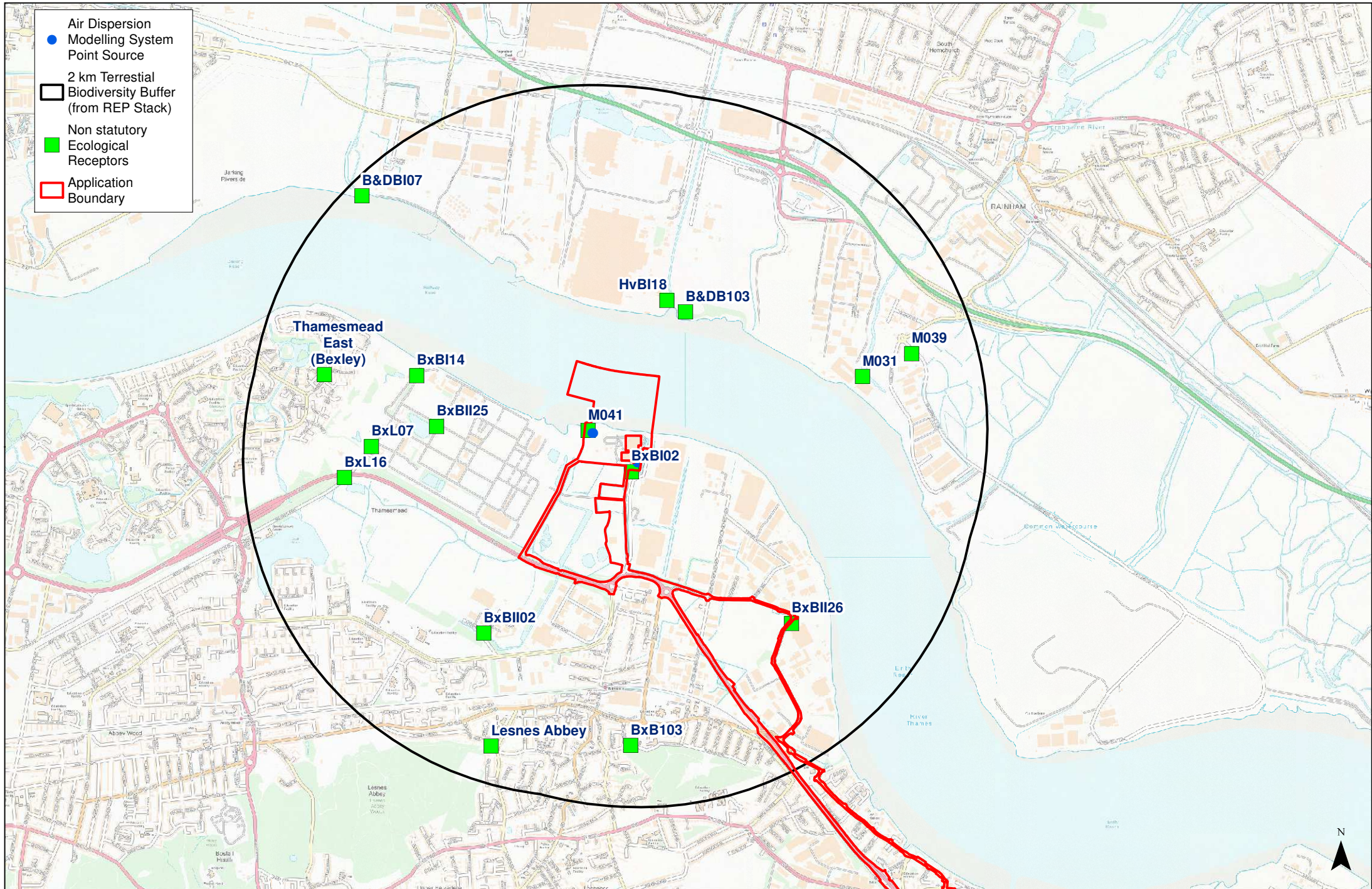
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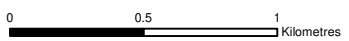
Terrestrial Biodiversity Receptors



- Air Dispersion
- Modelling System Point Source
- 2 km Terrestrial Biodiversity Buffer (from REP Stack)
- Non statutory Ecological Receptors
- Application Boundary

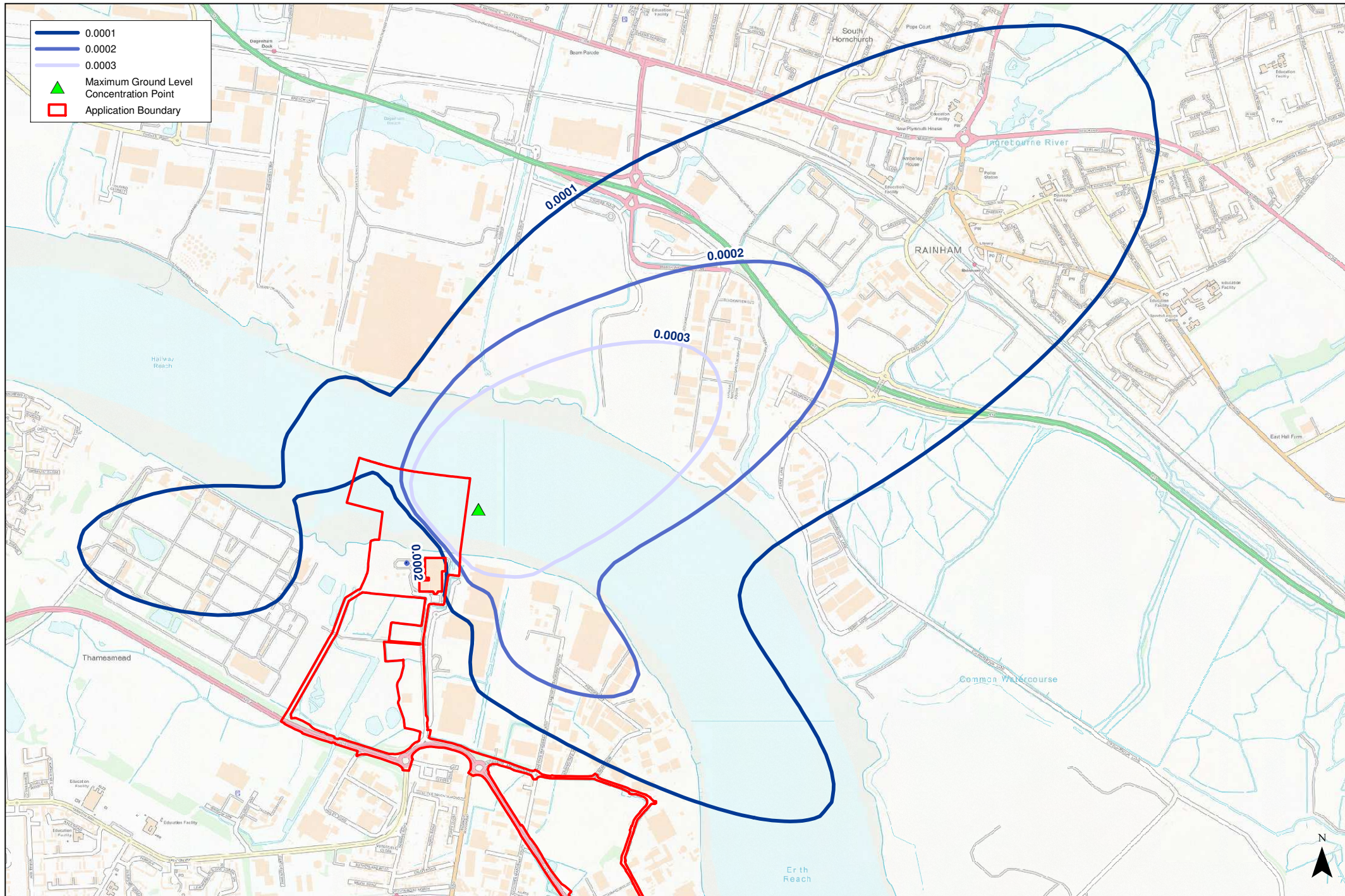
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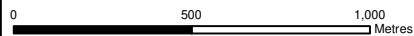
Terrestrial Biodiversity Receptors (Non-statutory designated sites)



- 0.0001
- 0.0002
- 0.0003
- ▲ Maximum Ground Level Concentration Point
- Application Boundary

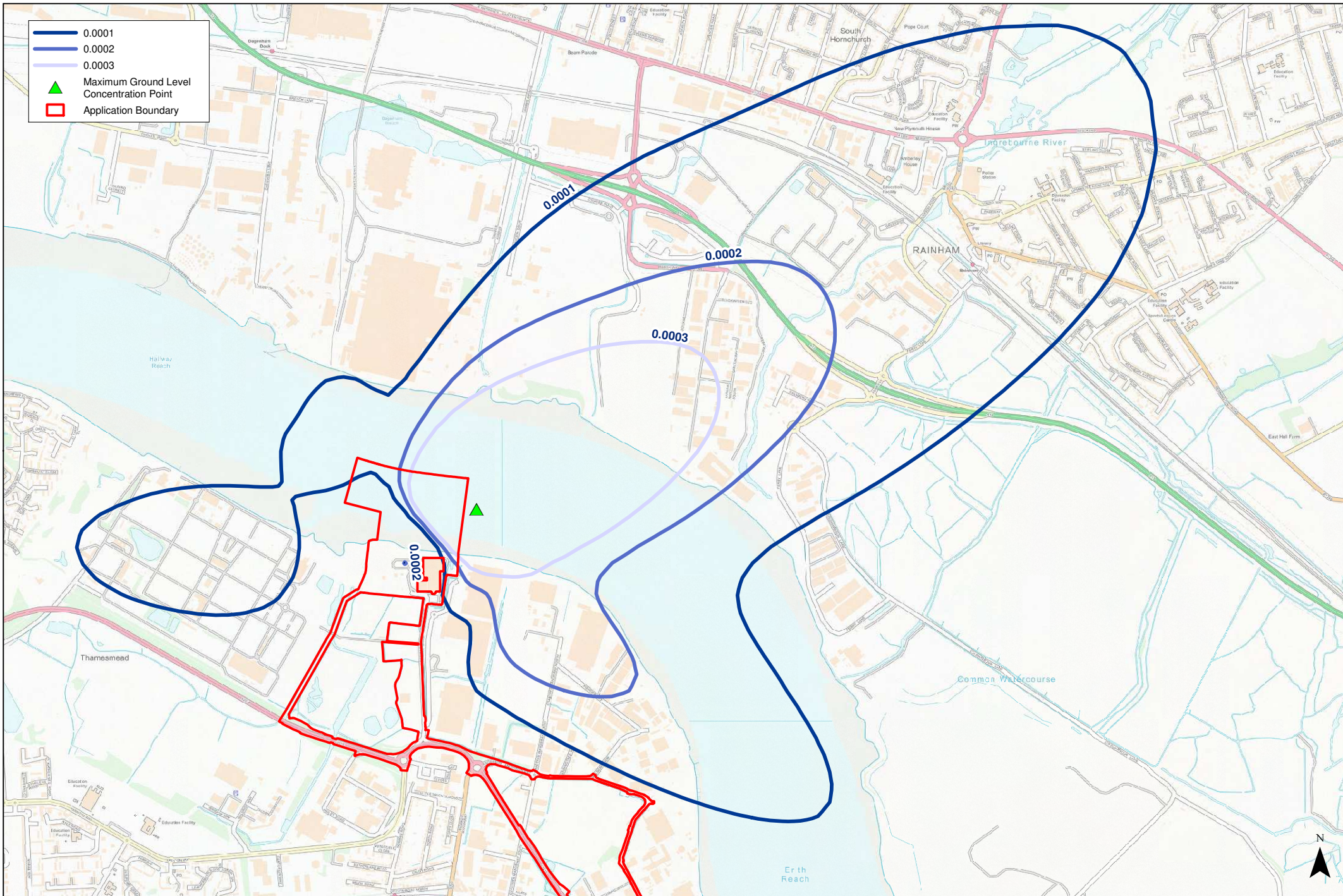
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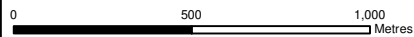
Predicted Annual Mean Nickel Concentration
($\mu\text{g}/\text{m}^3$)



- 0.0001
- 0.0002
- 0.0003
- ▲ Maximum Ground Level Concentration Point
- Application Boundary

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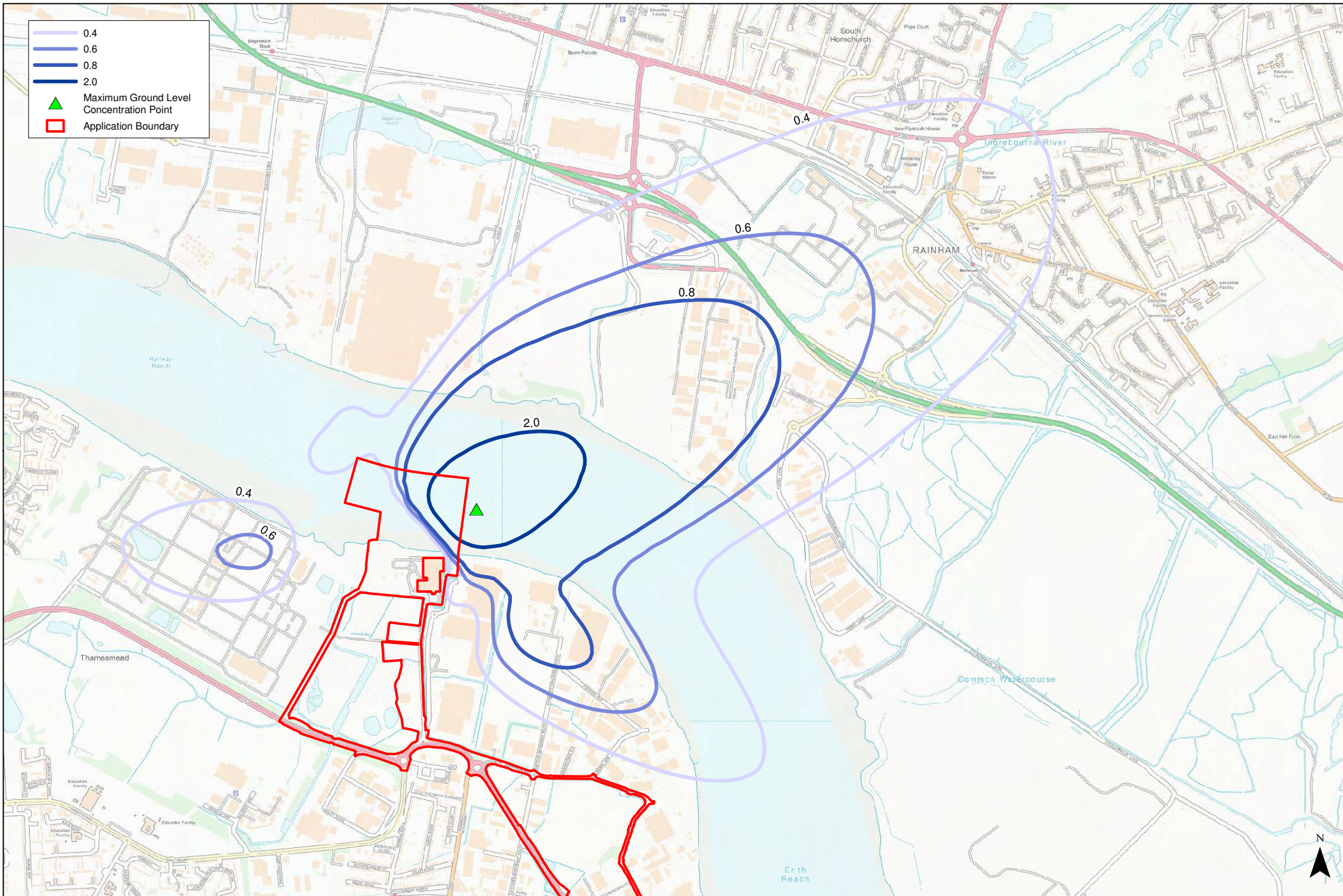
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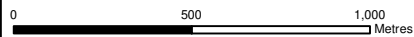
Predicted Annual Mean Arsenic Concentration

Figure 7.6 Rev 0



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Predicted Annual Mean NO₂ Concentration
(µg/m³)



Hourly Average NO₂ (µg/m³)

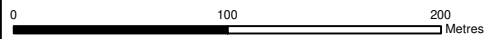
- 10
- 20
- 30
- 50

● Air Dispersion Modelling System Point Source

□ Application Boundary

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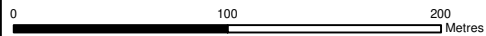
Predicted Hourly Average NO₂ Concentrations

Figure 7.8 Rev 0



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Predicted Annual
Mean NOx Concentrations (µg/m³)

Figure 7.9 Rev 0