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A1 Bibliography

Greater London Authority

- The London Plan July 2011
- Mayor’s Land for Industry and Transport Supplementary Planning Guidance September 2012
- Mayor’s Transport Strategy May 2010
- Mayor’s Rail Vision February 2012
- Housing Strategy and Housing SPG November 2012
- London Regional Flood Risk Appraisal October 2009
- All London Green Grid Supplementary Planning Guidance March 2012
- Delivering London’s Energy Future - The Mayor’s climate change mitigation and energy strategy October 2011

London Development Agency

- Upper Lee Valley Energy Report April 2010
- A10/A1010 Corridor – A Corridor of Opportunity in the Upper Lea May 2010

Transport for London

- Upper Lee Valley Transport Study November 2012
- The TfL Business Plan 2011/12 - 2014/15
London Borough of Enfield

- **Core Strategy** Adopted November 2010
- **Development Management Document** Draft 2012
- **Investment and Regeneration in the Lee Valley Corridor** (Oxford Economics) January 2012
- **North East Enfield Area Action Plan** Interim Direction July 2012
- **Ponders End A Framework for Change** Consultation August 2009
- **Ponders End Central, South Street and Water Front planning briefs** Ponders End Central Adopted May 2011
- **Draft Central Leeside Area Action Plan** May 2012
- **Meridian Water Masterplan** July 2013
- **Meridian Water Masterplan, Masterplan options and flood risk modelling report** (Atkins Limited) March 2011
- **Draft Edmonton Green Area Action Plan** April 2012
- **Edmonton Eco Park Planning Brief Supplementary Planning Document** May 2013
London Borough of Hackney

- **Core Strategy** Adopted November 2010

London Borough of Haringey

- **Local Plan Strategic Policies**
  Adopted March 2013

- **Development Management Policies**
  Draft policy approach consulted March - May 2013

- **Sustainable Design and Construction Supplementary Planning Document** Adopted March 2013

- **A Plan for Tottenham** August 2012

- **High Road West** Consultation April 2013

- **Transforming Tottenham Hale Urban Centre Master Plan Supplementary Planning Document** 2006

London Borough of Waltham Forest

- **Core Strategy** Adopted March 2012

- **Development Management Policies**
  Proposed submission July 2012

- **Blackhorse Lane** Urban Design Framework
  Consultation August 2011

- **Blackhorse Lane Area Action Plan**
  Submission March 2013

- **Northern Olympic Fringe Area Action Plan**
  Consultation 2011
Other

- **The Department for Communities and Local Government Circular 05/05**
- **Park Development Framework**
  Lee Valley Regional Park Authority, 2011
- **From Edge to Common Ground – Upper Lee Valley Landscape Strategy**
  Witherford Watson Mann Architects and Jonathan Cook Landscape Architects, February 2010
- **North London Waste Plan**
  North London Waste Authority, Preferred Options November 2009
- **Upper Lee Valley Decentralised Energy Network Feasibility study**
  North London Strategic Alliance, August 2012
- **Upper Lee Valley Economic Study**
  North London Strategic Alliance, 2008
- **Upper Lee Valley Investment Framework**
  North London Strategic Alliance, July 2010
### TA1 Industrial uses

<table>
<thead>
<tr>
<th>Locations</th>
<th>Growth areas</th>
<th>SIL</th>
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<tbody>
<tr>
<td>1. Freezywater</td>
<td>Other</td>
<td>11.1 ha</td>
</tr>
<tr>
<td>2. Innova Park</td>
<td>Other</td>
<td>26.0 ha</td>
</tr>
<tr>
<td>3. Brimsdown</td>
<td>Other</td>
<td>116.0 ha</td>
</tr>
<tr>
<td>4. Redburn Trading Estate</td>
<td>Ponders End</td>
<td>4.0 ha</td>
</tr>
<tr>
<td>5. Meridian Business Park</td>
<td>Ponders End</td>
<td>14.0 ha</td>
</tr>
<tr>
<td>6. Aztec 406</td>
<td>Central Leeside</td>
<td>18.0 ha</td>
</tr>
<tr>
<td>7. Montagu Industrial Area</td>
<td>Central Leeside</td>
<td>10.0 ha</td>
</tr>
<tr>
<td>8. Edmonton Eco Park</td>
<td>Central Leeside</td>
<td>16.0 ha</td>
</tr>
<tr>
<td>9. Eley Estate</td>
<td>Central Leeside</td>
<td>26.0 ha</td>
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<tr>
<td>10. Central Leeside Business Area</td>
<td>Central Leeside</td>
<td>3.7 ha</td>
</tr>
<tr>
<td>11. Lee Valley Trading Estate (Harbet Road)</td>
<td>Central Leeside</td>
<td>18.0 ha</td>
</tr>
<tr>
<td>12. Brantwood Road</td>
<td>Central Leeside</td>
<td>17.0 ha</td>
</tr>
<tr>
<td>13. North East Tottenham</td>
<td>Central Leeside</td>
<td>15.5 ha</td>
</tr>
<tr>
<td>14. Marsh Lane</td>
<td>Central Leeside</td>
<td>2.1 ha</td>
</tr>
<tr>
<td>15. Millmead</td>
<td>Tottenham Hale</td>
<td>8.0 ha</td>
</tr>
<tr>
<td>16. Blackhorse Lane</td>
<td>Blackhorse Lane</td>
<td>16.5 ha</td>
</tr>
<tr>
<td>17. Lee Bridge Gateway</td>
<td>Other</td>
<td>37.7 ha</td>
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#### Table TA1.1 Strategic Industrial Locations in the Opportunity Area

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<th>Growth areas</th>
<th>SIL</th>
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<tbody>
<tr>
<td>Tottenham Hale</td>
<td>8.0 ha</td>
</tr>
<tr>
<td>Blackhorse Lane</td>
<td>16.5 ha</td>
</tr>
<tr>
<td>Central Leeside</td>
<td>126.3 ha</td>
</tr>
<tr>
<td>Ponders End</td>
<td>18.0 ha</td>
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<tr>
<td>Other</td>
<td>190.8 ha</td>
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<tr>
<td><strong>Total SIL in the Opportunity Area</strong></td>
<td><strong>359.6 ha</strong></td>
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</table>
Fig. TA1.1 Strategic Industrial Locations

© Crown Copyright and database right 2013. Ordnance Survey 100032216
Sources: Enfield, Haringey and Waltham Forest Councils
## Locations Growth areas LSIS

1. Alma Industrial Estate  
   Ponders End  
   4.5 ha

2. Queensway  
   Ponders End  
   3.5 ha

3. Claverings Industrial Estate  
   Central Leeside  
   2.5 ha

4. Montagu Industrial Area  
   Central Leeside  
   6.0 ha

5. Langhedge Lane Industrial Estate  
   Central Leeside  
   0.7 ha

6. High Road West  
   (Brook House potential 1.8 ha to be released)  
   Central Leeside  
   6.2 ha

7. Lindens/Roseberry Works  
   Tottenham Hale  
   1.3 ha

8. South Tottenham  
   Tottenham Hale  
   9.1 ha

9. Sutherland Road  
   Blackhorse Lane  
   5.7 ha

## Growth areas LSIS

<table>
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<tr>
<th>Growth areas</th>
<th>LSIS</th>
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<tr>
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<td>10.4 ha</td>
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<tr>
<td>Blackhorse Lane</td>
<td>5.7 ha</td>
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<tr>
<td>Central Leeside</td>
<td>15.4 ha</td>
</tr>
<tr>
<td>Ponders End</td>
<td>8.0 ha</td>
</tr>
<tr>
<td>Other</td>
<td>0.0 ha</td>
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</tbody>
</table>

**Total LSIS in the Opportunity Area** 39.5 ha

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Table TA1.2 Locally Significant Industrial Sites

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Table TA1.3 Total industrial land in the Opportunity Area

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Total SIL in OA</td>
<td>359.6 ha</td>
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<tr>
<td>Total LSIS in OA</td>
<td>39.5 ha</td>
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<tr>
<td><strong>Total industrial land in OA</strong></td>
<td><strong>399.1 ha</strong></td>
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</table>
TA2 New jobs and homes

The growth figures outlined in this Framework have been determined using the London Plan and the boroughs’ Local Plans.

The original estimates for the Opportunity Area in the London Plan were derived from information available at the time. Since then, work carried out in the production of this Framework and by other consultants has shown that the homes capacity of the area (20,100) exceeds original estimates (9,000).

A breakdown of the new homes and jobs figures is shown in the tables below.

<table>
<thead>
<tr>
<th>Location</th>
<th>Area</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>Tottenham Hale</td>
<td>39 ha</td>
<td>GIS calculation</td>
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<tr>
<td>Blackhorse Lane</td>
<td>39 ha</td>
<td>GIS calculation</td>
</tr>
<tr>
<td>Central Leeside</td>
<td>48 ha</td>
<td>GIS calculation</td>
</tr>
<tr>
<td>Ponders End</td>
<td>46 ha</td>
<td>GIS calculation</td>
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<tr>
<td>A1010 Corridor</td>
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<tr>
<td><strong>Total</strong> growth areas</td>
<td>172 ha</td>
<td></td>
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<tr>
<td><strong>Opportunity area</strong></td>
<td><strong>3884 ha</strong></td>
<td>London Plan (July 2011)</td>
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</table>

Table TA2.1 Size of growth areas and Opportunity Area
### Table TA2.2 New jobs in growth areas and Opportunity Area

<table>
<thead>
<tr>
<th>Location</th>
<th>New jobs</th>
<th>Year</th>
<th>Reference</th>
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</thead>
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<tr>
<td>Tottenham Hale</td>
<td>4 000</td>
<td>2031</td>
<td>- Assessments carried out by ARUP identified in Tottenham Physical Framework</td>
</tr>
<tr>
<td>Blackhorse Lane</td>
<td>1 000</td>
<td>2026</td>
<td>- Waltham Forest Core Strategy</td>
</tr>
<tr>
<td>Meridian Water</td>
<td>3 000</td>
<td>2026</td>
<td>- Meridian Water Masterplan</td>
</tr>
<tr>
<td>Ponders End</td>
<td>700</td>
<td>2026</td>
<td>- Enfield Core Strategy</td>
</tr>
<tr>
<td>A10/A1010 Corridor</td>
<td>5 000</td>
<td>2031</td>
<td>- A10/A1010 Corridor Study (2010)</td>
</tr>
<tr>
<td></td>
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<td></td>
<td>- Assessments carried out by ARUP identified in Tottenham Physical Framework</td>
</tr>
<tr>
<td><strong>Total</strong> growth areas</td>
<td>13 700</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Opportunity area</strong></td>
<td>15 000</td>
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<td><strong>London Plan (July 2011)</strong></td>
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</table>

### Table TA2.3 New homes in growth areas and Opportunity Area

<table>
<thead>
<tr>
<th>Location</th>
<th>New homes</th>
<th>Year</th>
<th>Reference</th>
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<td>Tottenham Hale</td>
<td>5 000</td>
<td>2031</td>
<td>- Assessments carried out by ARUP identified in Tottenham Physical Framework</td>
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<tr>
<td>Blackhorse Lane</td>
<td>2 500</td>
<td>2026</td>
<td>- Waltham Forest Core Strategy</td>
</tr>
<tr>
<td>Meridian Water</td>
<td>5 000</td>
<td>2026</td>
<td>- Meridian Water Masterplan</td>
</tr>
<tr>
<td>Ponders End</td>
<td>1 100</td>
<td>2026</td>
<td>- Enfield Core Strategy</td>
</tr>
<tr>
<td>A1010 Corridor</td>
<td>6 500</td>
<td>2031</td>
<td>- A10/A1010 Corridor Study (2010)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>- Assessments carried out by ARUP identified in Tottenham Physical Framework</td>
</tr>
<tr>
<td><strong>Total</strong> growth areas</td>
<td>20 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Opportunity area</strong></td>
<td>9 000</td>
<td></td>
<td><strong>London Plan (July 2011)</strong></td>
</tr>
</tbody>
</table>

* Minimum target for housing
TA3 Summary of the Transport Study results

Considering the need for changes to the transport network to stimulate and accommodate growth in the Opportunity Area, the Transport Study tested a series of possible interventions over and above those already committed. These were compared to 2021 and 2031 scenarios with the committed transport network to present an indication of the implications of future growth on the transport system and refine priorities.

Each of the interventions has been assessed against the Mayor’s Transport Strategy objectives and those expressed by the boroughs. The priority interventions identified are:

- 4 trains per hour service on the West Anglia Main Line at regular time intervals calling at all stations between Brimsdown and Stratford,

- A package of bus interventions, including a combination of frequency enhancements or extensions to existing routes, and/or new services; further frequency increases by 2031,

- Further schemes to tackle peak time crowding on the Victoria line, such as further frequency improvements (e.g. towards 36 trains per hour, compared to the 33 trains per hour achieved through the recent upgrade) or a new line such as Crossrail 2,

- Measures to achieve a mode share for walking/cycling of at least 33% by 2021 and 36% by 2031.
Fig. TA3.1 Percentage change in total trips (highway and public transport) 2007-2031 AM Peak
Growth up to 2021 with a package of interventions

Transport outcomes with the identified package of interventions in place are improved in comparison with the ‘do-nothing’ scenario, reflected especially in increased patronage on local stopping services on the West Anglia Main Line. The outcome, however, is primarily improved connectivity to Stratford and the Isle of Dogs rather than reduced crowding on the busiest parts of the network, e.g. Victoria line. There is limited change to road congestion as a result of these interventions, with primarily local impacts in and around development sites.

Overall, the Study demonstrates that interventions delivered up to 2021 including the existing commitments on the rail, Underground and road networks will deliver improvements, meaning that growth can be delivered without worsening the existing transport situation.

Growth up to 2031 with a package of interventions

By 2031, improved services on the Main Line will have tackled crowding issues that would otherwise have arisen, in addition to improving connections to Stratford, the Isle of Dogs and surrounding growth areas.

On the road network the picture is more varied. Whilst there will be a slight reduction in traffic and an increase in average speed, congestion remains at a number of junctions and further work will be required to identify ways to reduce this (Fig.3.8). The Victoria line towards the West End is severely overcrowded, an issue that could be tackled over the longer term through a new rail line, such as Crossrail 2.

The Study demonstrates that improved local services on the West Anglia Main Line will deliver substantial benefits to crowding and connectivity on the National Rail network. The more persistent issues of road congestion and Victoria line crowding are unlikely to be resolved through the identified priority interventions.

Figures TA3.1 and TA3.2 show the forecast scale of change in trips across the Upper Lee Valley (origin and destination). This does not account for the targeted increase in walking and cycling trips.
Fig. TA3.2 Absolute change in total trips (highway and public transport) 2007-2031 AM Peak
Public Transport Accessibility Levels – mapping potential benefits

Public Transport Accessibility Level (PTAL) is measured on a 9 point scale (0, 1a, 1b, 2, 3, 4, 5, 6a and 6b) where 0 is poor and 6b is excellent.

PTAL analysis shows that the southern portion of the study area, where population density is generally greater, benefits from a higher PTAL because of the Underground service and higher density of bus services.

Considering the possible package of interventions, Figure TA3.3 shows how PTAL might improve, particularly around the four growth areas.
Fig. TA3.3 Areas with change in public transport accessibility levels
PTAL 6b - Excellent accessibility
PTAL 6a  - Excellent accessibility
PTAL 5 - Very good accessibility
PTAL 4 - Good accessibility
PTAL 3 - Moderate accessibility
PTAL 2 - Poor accessibility
PTAL 1b - Very poor accessibility
PTAL 1a - Very poor accessibility

Fig. TA3.4 Public transport accessibility levels 2012
Fig. TA3.5 PTAL with committed investment and suggested further improvements 2031
The strategic landscape projects identified by Witherford Watson Mann Architects in “From Edge to Common Ground - Upper Lee Valley Landscape Strategy are summarised below.

1. **Lammas Land to Back Water**
   Improve existing paths across Marsh Lane playing fields, railway and across golf course. New direct path from golf course to Back River.

2. **Hackney Marshes**
   New path across Hackney Marshes from Olympic Park to entrance of Middlesex filter beds. River edge to be naturalised along Back River with drainage cuts and river tree planting.

3. **Aqueduct path - Hackney Marshes**
   New bridge across Back River with direct connection to Hackney Marshes. Additional entrance to Waterworks Centre, clear entrance to Middlesex Filter Beds and reconfigure pathways to Hackney Marshes. New public open space.

4. **Thames Water site**
   Improve sight lines from Lea Valley Road to Back River with wide landscape strip, new foot and cycle path. Create view corridor through south-east section of site to the marshes with public open space.

5. **Lea Bridge Road**
   Foot and cycle paths to be set away from road, with improved connections to Sandy Lane and the Paddocks. New secondary bridges across River Lea, Aqueduct path and flood relief channel.

6. **Black path**
   Improve legibility of path through landscape and public realm design, signage, ramps, bridge and viewpoint on existing railway bridge.
7. **Aqueduct path**  
Improve existing path including new path surface and clearing shrubbery at entrance. New path section from railway intersection to Coppermill.

8. **Leyton Marsh**  
Scraping made ground, raised level to form swales/habitats.

9. **Dagenham Brook**  
New path along brook between Lea Bridge Road and Dunedin Road. Opportunity to create wetland on playing field edge.

10. **Clapton Towpath**  
Repave path with clay pavers/granite setts.

11. **Walthamstow Marshes**  
Extend, link and intensify habitats. See Walthamstow Marshes management plan.

12. **Flood relief channel path – southern section**  
New paths to surrounding areas with white poplars along paths.

13. **Low Hall playing fields**  
Plant white poplars and willow hedgerow. Intensify naturalisation of playing field edge. New and improved paths to South Access Road.

14. **Clapton Common**  
Improve visibility of Spring Hill entrance, clear back shrubs and possible public use of disused Victorian public toilets.

15. **Thames Water Coppermill works**  
Planting willow trees to perimeter of operational site.

16. **Spring Hill - Coppermill Lane**  
New ramps on Spring Bridge, clear shrubs along paths to marina, re-profile edge of Coppermill Meadows. Relocate Thames Water car park.
17. **West Warwick Reservoir**
   New path along bank of reservoir and a viewing platform on southern bund towards City and Canary Wharf. Extend water edge and habitat with floating reedbeds. New boardwalk and planted pontoons leading to gated footbridge onto Markfield Recreation Ground.

18. **Alternative N1 foot and cycle path**
   New cycle path with bridge between reservoir bank and railway line.

19. **Coppermill entrance to reservoirs**
   New visitor entrance via two footbridges and a new path to East Warwick Reservoir. Possible access to Coppermill Tower for views over reservoirs.

20. **Markfield Recreation Ground**
    De-culvert and naturalise Stonebridge Brook. Possible public access to West Warwick Reservoir with new bridges and frontage onto River Lea.

21. **Douglas Eyre Playing Fields**
    In addition to Project 12, open additional access from Hawarden Road to connect onto flood relief channel path.

22. **Ferry Lane - Forest Road**
    New foot and cycle path with bridges over waterbodies. Enhance entrance to park with generous landscaped space. Possible location for water bus stop and viewing terrace off Ferry Lane to islands.

23. **The Paddock**
    River edge naturalisation and create areas of wet woodland. New enclosure to Victoria line ventilation tower with external stairs and viewing platforms to overlook the Paddock and the reservoirs.

24. **Walthamstow Reservoirs**
    Increase public access in existing path network, including new entrance off Ferry Lane and visitor centre possibly in existing Pump House.
25. Backriver path
New path along river channel and new bridge. Boardwalk through new wetland in the Paddock (project 23) to water edge and platforms.

26. Chesnut Road to the Paddock
Green east-west link from Tottenham High Road through Hale Village, including bridges across waterspaces to Paddock and Back River path.

27. Blackhorse Lane Waterfront Park
Waterfront park beside Dagenham Brook/flood relief channel with open space connection to Blackhorse Lane.

28. Moselle Brook to Clendish Marsh
De-culvert Moselle Brook between back of houses and plant trees to naturalise banks. Create wetland/river edge area at edge of Scotland Green. New bridge over railway and Meridian Way with viewing platforms over the marshes. Increase height of existing underpass by excavating further 0.5m.

29. Marsh Lane to Stonebridge Lock
New bridge at Stonebridge Lock and create public open space with seatings, new lido, new paddling pool and playground.

30. Park Lane - Marigold Road to Wild Marsh East
Full restoration of western bank of Lee Navigation between Stonebridge Lock and Chalk Bridge. New small public areas, small scale community gardens and greenhouses (with possible waste heating) in existing open spaces surrounding housing estates.

31. Flood relief channel path 2
Open existing paths to public towards Lea Valley Road. New path along flood relief channel to Central Leeside, from playing fields onto existing path from Eatons Mead.

32. Banbury Reservoir
Review access, parking, possible use of former pumping station. Landscape enhancements.
33. Folly Lane
Reinforce with tree planting and widen path. Possible BMX/scrambler track on playing fields. Reactivate neighbouring playing fields.

34. River Ching walk
Naturalise river bank and create clear link along river with tree planting and daylighting. New footpath through greyhound stadium, and edge of sport centre to connect to Wickham Road.

35. Central Leeside open space
Possible new open space on confluence of Salmons and Pymmes Brook.

36. Central Leeside waterspace
Possible canal basin/marina and quayside landscape to the Lee Navigation. New path from Chalk Bridge to Lee Parkway.

37. Kimberley Road to River Ching
Potential new open space and pathways through former gasworks site. New paths to Angel Road, rivers and playing fields with bridges over rivers, roads and railway.

38. Central Leeside flood relief channel
Tree planting on river edge landscape area and open footpath.

39. North Circular landscape enhancements
Roadside white poplars planting and ambient lighting to viaduct undercroft. Traffic island as possible location for public art to mark crossing of the valley for North Circular users.

40. Old railway line to Chingford Mill
Extend old railway line path with potential open space adjacent. Straightening of Lee Valley Parkway cycle path and replace shrubs with white poplars. New foot and cycle bridges across railway, Meridian Way to Nobel Road, and over Pymmes Brook towards Lee Parkway cycle path.

41. Salmons Brook
Planting willows to existing 10m wide strip on east side of brook through industrial estate.
42. **Infrastructure site Central Leeside**  
New open space along Salmons Brook for flood storage and wetland habitat, and productive landscape/orchard besides existing path. Landscape link to Lee Park Way and possible location for community glasshouse. New bridge to William Girling Reservoir and remove palisade fencing along path.

43. **Salmons Brook path**  
New community gardens on Montague Recreation Ground with new east-west path and new ramped bridge across railway/A1055. New paths along golf course and brook. Enhance connection to surrounding areas, including signalled surfaces over roads.

44. **Picketts Lock**  
Enhance leisure cluster with new facilities and better synergies between uses with improved links to Ponders End and Columbia Wharf.

45. **Boundary ditch - Picketts Lock**  
Public realm improvements to increase visibility and ease of access. Close secondary road in front of local centre to increase pedestrian space and street furniture. New bridge over railway.

46. **Lea Valley Road**  
Create threshold to Lea Valley Road by planting trees on Meridian Way roundabout and on southern side of road. Relocate Thames Water perimeter fence to create combined foot and cycle path between trees. New foot and cycle bridge over flood relief channel.

47. **Ponders End and Wharf Road**  
Upgrade existing foot and cycle path, approach to South Street station and new ramped bridge over station. Additional links, landscape works and facilities on Ponders End Recreation Ground.

48. **South Marsh**  
New marina and building to service existing moorings. Intensify usage of open space with community allotment gardens and other uses. View point at cafe near King George V sailing club. New access road from Lea Valley Road, new paths and bridges to connect to new amenities.
49. Columbia Wharf
   New/improve existing foot and cycle paths and bridges, including planting trees and new boardwalks. Possible creation of wetland on water meadow with bird hides and habitat intensification.

50. Yardley Hill and Pole Hill
   Improve and clarify access to reservoir, Yardley Hill with clearly visible panel marker to interpret great views to the city. Clarify pathway hierarchy to and through forest.

51. Flood relief channel path 3
   New path from Eaton’s Mead leading to new signalled crossing at Lea Valley Road. New path along flood relief channel, with new public open space at Sewardstone Paddock with children’s activity and wildlife area. New path to Gunpowder Park and resurface Mill Lane dirt track for pedestrians and cyclists.

52. King George V Reservoir
   Improve access to reservoir and flood relief channel with ramps, new footpaths and bridges. Create habitats for birds and fish with floating reedbeds on sides of path.

53. Durants Park – Lee Navigation
   East-west connection at Durants Park with new and opening existing paths to and through allotment gardens. New pedestrian crossing over Mollison Avenue, and negotiate access to Lea Navigation.

54. Mossops Creek
   Planting along Stockingwater Lane towards Brimsdown station.

55. Swan and pike pool – Enfield Lock

56. Swan and pike productive cluster
   A number of community gardens, allotments, glasshouses, and beekeeping with timber rafts to carry beehives. Also includes small clubhouse and weekend produce market.
57. **Turkey Brook - Sewardstone**  
Naturalise riverbanks in Albany Park with possibility of extensive wetlands. Reinforce visibility and improve channel habitat. New path north of Turkey Brook, new bridges at Albany Park and railway. Widen and resurface footpath along Turkey Street to incorporate Turkey brook. Soft landscaping at Turkey station.

58. **Island Village**  
Small scale allotment and community herb gardens on raised beds.

59. **Gunpowder Park**  
Open access road for public. Reinforce tree planting on higher ground.

60. **Rammey Lock**  
Enhance habitat to create public wetland and existing cruising club as canoe hire and cafe. Additional moorings and possibility of a boardwalk. New paths and bridges to connect to Gunpowder Park and nearby rivers.

61. **Rammey Marsh**  
Turn former landfill into productive landscapes with glasshouses. Small Lea habitat improvement. New entrance and path to Innova Park.

62. **Small Lea footpath**  
Improve existing path between Long Croft Drive and New Ford Road for pedestrians. New paths to Turkey Brook, Mollison Avenue and Innova Park. New signalled crossings at Ordnance Road and Station Road.

63. **Links to north**  
Open path along Horsemill to public. New gateway and crossing to Lee River Country Park, new paths along Cornmill Stream and Town Mead.
TA5 Flood risk management

Tottenham Hale and Blackhorse Lane

The Tottenham Hale growth area is adjacent to the River Lee and its flood channels and the Walthamstow Wetlands. The topography of the area is low lying and relatively flat. The Moselle Brook joins the Pymmes Brook, which in turn flows into the River Lee Navigation immediately south of Ferry Lane. Tottenham Hale is predominantly within Flood Zone 2 with smaller areas within Flood Zone 3a and 3b where the River Lee and the River Lee flood relief channel run. Only a very small part of the growth area to the west is within Flood Zone 1.

Further information on flooding can be found in the joint Strategic Flood Risk Assessment carried out for the North London Waste Plan (www.nlwp.net) and the Haringey Core Strategy Sequential Test 2011: Haringey Core Strategy Sequential Testing - Core Strategy Identified Areas of Development (2011).

The Blackhorse Lane growth area is adjacent to the River Lee flood relief channel and the Dagenham Brook channel which run adjacent to one another. The functional floodplain (1 in 20 year) extent is mainly constrained to the river channel areas, and some southern parts of the area (in the vicinity of Wickford Way) are located within the 1 in 100 year extent.

The northern part of the area, broadly from Hooker’s Road to Uplands Business Park lies within the 1 in 1000 year flood extent with some parts shown to be within the 1 in 100 year with climate change outline. The ground levels rise towards the east of the area, with Blackhorse Lane itself lying out of the 1 in 1000 year floodplain; i.e. within Flood Zone 1.

Further information on flooding can be found in Waltham Forest Council’s Level 2 Strategic Flood Risk Assessment.
Central Leeside

The Meridian Water site is crossed by several significant watercourses including the Lee Navigation and the River Lee flood relief channel, Pymmes Brook and Salmons Brook. All the rainfall runoff generated in Enfield drains through this site. It is a relatively flat site varying in height from eight metres above sea level to 12 metres at the highest. Significant alterations were made twenty years ago to the highway and drainage infrastructure as part of upgrade works to the North Circular.

The entire Meridian Water site is located with Flood Risk Zones 2 and 3 and five sites have been identified as at risk of flooding.

The draft findings of the detailed flood risk assessment of the masterplan area outline the flood mitigation measures required to enable development of Meridian Water and recommends actions that move the areas of flood risk and create alternative floodable areas to enable land currently at risk of flooding to be developed on. Lower Hall Lane and Tottenham Marshes are considered suitable candidates for flood compensation storage. The initial findings conclude that the best case scenario would be to use the entire Lower Hall Lane for flood storage. However, if this were not possible, the fall back option would be to use part of the Lower Hall Lane site and with the shortfall absorbed by the Tottenham Marshes and other sites to come available during the lifespan of the proposal. The provision of additional flood capacity upstream of the growth areas identified in this document would also help mitigate the impact of developing in these areas.

Thames Water retains significant landholdings within the Central Leeside area including the Lower Hall Lane site. The potential for some of this land to provide additional flood mitigation measures and a unique biodiversity habitat should be explored. Given the aspirations for Thames Water to develop the existing Deephams Sewage Treatment Works (Fig. 5.2) there is an opportunity to provide a joined up approach to water management within the growth area. This will resolve issues around flooding and sewage treatment and aid the Lee Valley Regional Park with proposals to open up new areas of the park to the public.

Further information on flooding can be found in Enfield Council’s Level 2 Strategic Flood Risk Assessment.
Fig. TA5.2 Flood risk and potential compensation areas: Central Leeside
Ponders End

Three main rivers cross the Ponders End growth area; the River Lee, the Lee Navigation and Brimsdown Ditch. The growth area is located on the west bank of the Lee Navigation at one of only two locations in London where an original loop of the River Lee still exists. The loop serves as a bypass to the nearby canal lock and also feeds a mill chase.

Brimsdown Ditch crosses the site at its north-west corner. Though now mostly culverted, historical maps show this was once an open watercourse. The area is fairly flat rising from 13 metres above sea level at its lowest point to just 15 or so at the highest end.

Ponders End Waterfront falls within Flood Zones 2 and 3. However, Ponders End South Street and Ponders End Central are not identified as areas at risk of flooding.

Further information on flooding can be found in Enfield Council’s Level 2 Strategic Flood Risk Assessment.
Fig. TA5.3 Flood risk: Ponders End