

# MAIN REPORT: WEST BARTON 13/01383/OUT EAST AREA PLANNING COMMITTEE TUESDAY 24 SEPTEMBER 2013

Agenda No Item

# 3. <u>Land West of Barton North of A40 and South of Boundary Brook:</u> 13/01383/OUT

The Head of City Development has submitted a report which details an outline application (seeking means of access) for the erection of:

- a maximum of 885 residential units (Class C3)
- a maximum of 2,500 sqm gross Class A1, A2, A3, A4 and A5 uses (with a maximum of 2,000 sqm gross foodstore Class A1)
- a maximum of 50 extra care housing units
- a maximum of 7,350 sqm GEA hotel (Class C1)
- a maximum of 3,000 sqm GEA Class D1, D2 floorspace (community hub and primary school)

In development blocks ranging from 2 to 5 storeys with associated cycle and car parking, landscaping, public realm works, interim works and associated highway works.

Officer recommendation: That the Committee resolves to GRANT planning permission subject to the satisfactory completion of an accompanying legal agreement and to delegate to the Head of City Development the issuing of the Notice of Permission upon its completion. Should however the Community Infrastructure Levy (CIL) charging schedule come into force prior to the completion of the legal agreement, then it shall exclude any items included on the list of infrastructure published in accordance with Regulation 123 of the CIL Regulations. If the required legal agreement is not completed within a reasonable period, then the



Committee is recommended to delegate the issuing of a Notice of Refusal to the Head of City Development on the grounds that the development is not adequately mitigated.

Subject to the following conditions and legal agreement.

#### **Conditions**

- 1. Time limits for commencement.
- 2. Approved plans and documents
- 3. Reserved matters applications.
- 4. Scheme of enabling infrastructure works.
- 5. Phasing of development.
- 6. Materials
- 7. Amendment to Design Code.
- 8. Design Code Review
- 9. Restrict non food sales at supermarket
- 10. Landscaping / public realm.
- 11. Landscaping implementation.
- 12. Tree pits.
- 13. Tree protection plan.
- 14. Landscape management plan.
- 15. Dimensions to sports pitches
- 16. Withdrawal of householder permitted development rights.
- 17. Lifetime homes standards.
- 18. Car parking standards.
- 19. Cycle parking standards.
- 20. Servicing and deliveries.
- 21. Access.
- 22. Highways: Travel Plans.
- 23. Public transport provision.
- 24. Construction Environmental Management Plan.
- 25. Sustainability and energy strategy through district heating system.
- 26. Site wide surface water drainage, to include SUDs.
- 27. Phased surface water drainage scheme.
- 28. Foul water drainage scheme.
- 29. Flooding.
- 30. Access to watercourse for maintenance.
- 31. Ground contamination and remediation.
- 32. Air quality: monitoring.
- 33. Piling.
- 34. Petrol / oil interceptors.
- 35. Noise and vibration: attenuation.
- 36. Mechanical plant.
- 37. Cooking smells.
- 38. Protection of Sidlings Copse
- 39. Grassland mitigation.
- 40. Training and employment strategy.
- 41. Procurement of contracts.
- 42. Repeat ecological surveys.
- 43. Habitat creation.
- 44. Archaeology.
- 45. Public art.
- 46. Linear park.
- 47. Adult and school pitches to be constructed and maintained to Sport England guidelines.

#### Legal Agreement.

A comprehensive legal agreement would accompany the planning application if granted permission. The main elements of the agreement are:

- 1. Minimum of 40% of all residential units to be affordable housing to rent, with a minimum of 35% affordable in each phase of development.
- 2. Management of public open spaces by Barton Oxford LLP, (or adoption by local authority).
- 3. Financial contribution of £7,390,000 to Oxfordshire County Council for the provision of buildings to accommodate 1.5 form entry primary school academy, (or to be delivered direct by applicant).
- 4. Joint use agreement for use of school buildings and shared use of playing fields as "community hub".
- 5. Transfer of 1.48ha. of land to Oxfordshire County Council on 125 year lease for provision of primary school.
- 6. Financial contributions of up to £519,750 plus £10,000 costs to Oxfordshire County Council for the provision of temporary primary school facilities within the catchment area of the development, plus £220,000 for transport facilities if located outside catchment area.
- 7. Financial contribution of £3,104,595 to Oxfordshire County Council towards secondary school and sixth form facilities to serve the development.
- 8. Financial contribution to Oxfordshire County Council of £146,390 towards Special Education Needs (SEN).
- 9. Provision of "early years" facilities either with the community hub, or as a financial contribution of £69,350 to Oxfordshire County Council.
- 10. Financial contribution of  $\underline{£88,500}$  to Oxfordshire County Council for improvements to Headington Library.
- 11. Provision of day care facilities either within the community hub, or as a financial contribution of £163,500 to Oxfordshire County Council.
- 12. Financial contribution to Oxfordshire County Council of £38,500 towards waste recycling facilities.
- 13. Transport improvements to A.40 access and A.40 corridor works to value of £1.867,758.
- 14. Financial contributions to Oxfordshire County Council for other highways works: noise reduction surfaces, £391,644; A.40 traffic calming, £34,187; improvements to existing Barton underpass, £110,000; access to Barton Village Road, £305,598; access to Harolde Close, £105,133.
- 15. Financial contribution to Oxfordshire County Council of £82,600 to promote Controlled Parking Zone across site.
- 16. Financial contribution to Oxfordshire County Council of £3,000 to promote traffic Regulation Order (TRO) for 50mph speed limit to A.40.
- 17. Financial contribution to Oxfordshire County council of £709,722 for junction improvements at Headley Way / Marston Road / Marsh Lane / Cherwell Drive.
- 18. Financial contribution to Oxfordshire County Council of £15,727 to amend road markings at Green Road roundabout.
- 19. Financial contribution to Oxfordshire County Council of up to £850,000 to subsidise new / extended bus services.
- 20. Financial contribution to Oxfordshire County Council of £30,000 towards bus shelters.
- 21. Financial contribution of £203,161 to City Council for indoor leisure facilities.
- 22. Provision of public rights of way (as foot / cycle route) along southern side of development site; along linear park to link to Play Barton; and as diversion of existing right of way east of electricity sub station.
- 23. Financial contribution of £10,000 to City Council towards link between linear park and Play Barton.
- 24. Administration and monitoring costs.
- 25. Management and maintenance responsibilities for synthetic pitch and school pitch.

All sums are index linked and returnable to applicant if not spend within specified time periods.

**East Area Planning Committee** 

12<sup>th</sup> & 24<sup>th</sup> September 2013

**Application Number:** 13/01383/OUT

**Decision Due by:** 30th August 2013

**Proposal:** Outline application (seeking means of access) for the

erection of: A maximum of 885 residential units (Class C3); a maximum of 2,500 sq m gross Class A1, A2, A3, A4 and A5 uses (with a maximum of 2,000 sq m gross food store Class A1); a maximum of 50 extra care housing units; a maximum of 7,350 sq m GEA hotel (Class C1); a maximum of 3,000 sq m GEA Class D1, D2 floorspace (community hub and primary school); in development blocks ranging from 2 to 5 storeys with associated cycle and car parking, landscaping, public realm works, interim works and

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associated highway works.

**Site Address:** Land west of Barton, north of A40 and south of Bayswater

Brook, Appendix 1.

Ward: Barton And Sandhills

Agent: AECOM Applicant: Barton Oxford LLP

#### Recommendation:

Committee is recommended to resolve to grant planning permission subject to the satisfactory completion of an accompanying legal agreement and to delegate to the Head of City Development the issuing of the Notice of Permission upon its completion. Should however the Community Infrastructure Levy (CIL) charging schedule come into force prior to the completion of the legal agreement, then it shall exclude any items included on the list of infrastructure published in accordance with Regulation 123 of the CIL Regulations.

If the required legal agreement is not completed within a reasonable period, then the Committee is recommended to delegate the issuing of a Notice of Refusal to the Head of City Development on the grounds that the development is not adequately mitigated.

# Contents.

Reasons for Approval	3
Conditions	3
Legal Agreement	4
Principal Planning Policies	5
Public Consultation	8
Officers' Assessment	8
Background to Proposals	8
Planning Policy	10
Built Forms and Layout	11
Residential Development	16
Highways Access and Parking	18
Local Commercial Centre	24
Education and Community Facilities	26
Recreational Facilities	27
Landscape Strategy and Public Open Space	28
Trees and Landscaping	29
Landscape Setting and Visual impact	32
Biodiversity	
Archaeology	38
Water Resources, Flooding and Drainage	
Sustainability and Energy	
Environmental Statement	
Other Matters	
Conclusions	50
Appendices	
1 Cita plan	EO
Site plan     Summary of responses to public consultation	
Summary of responses to public consultation     Response of applicant to public consultation	
4. Comments of BOBMK to emerging Masterplan, May 2012	
5. Illustrative Masterplan: intended neighbourhood areas	
6. Sketch of possible layout for primary school	
7. Retail provision: impact study	
8. Tree condition survey	
9. Applicant's response to NRIA requirements	
Applicant's response to Nitra requirements      Summary of environmental impacts	84

#### **Reasons for Approval**

- The Council considers that the proposal accords with the policies of the development plan as summarised below. It has taken into consideration all other material matters, including matters raised in response to consultation and publicity. Any material harm that the development would otherwise give rise to can be offset by the conditions imposed.
- 2. The proposed development is submitted in outline only but with substantial supporting information to demonstrate that the proposed development would possess a scale and appearance that is appropriate to the site and its setting without resulting in unacceptable harm to nearby residential areas or other interests of acknowledged importance, whilst providing much needed good quality affordable and market housing at a sustainable location. The proposals also provide for a new primary school with facilities shared with the local community, plus additional facilities for secondary education and a new commercial centre to complement existing facilities, all in accordance with the adopted policies of the Oxford Local Plan 2001 to 2016, the Oxford Core Strategy 2026, Oxford Sites and Housing Plan 2011 to 2026 and Barton Area Action Plan 2012.
- 3. Officers have taken into account the comments made by statutory bodies, interested parties and private individuals, and note also the contents of the three petitions submitted. All are fully acknowledged. However Officers have concluded for the reasons set out in this report that the objections do not amount, individually or collectively, to reasons for refusal of the outline planning application, and that the issues that have been raised can be adequately addressed by the imposition of a range of planning conditions which would fix, amongst other matters, a series of Parameter Plans and a detailed Design Code, and by the completion of an accompanying legal agreement.

#### **Conditions**

- 1. Time limits for commencement.
- 2. Approved plans and documents
- 3. Reserved matters applications.
- 4. Scheme of enabling infrastructure works.
- 5. Phasing of development.
- 6. Materials
- 7. Amendment to Design Code.
- 8. Design Code Review
- 9. Commercial centre to front primary street.
- 10. Restrict non food sales at supermarket
- 11. Use of commercial units
- 12. Landscaping / public realm.
- 13. Landscaping implementation.
- 14. Tree pits.
- 15. Tree protection plan.
- 16. Landscape management plan.
- 17. Dimensions to sports pitches
- 18. Work to adult football pitch out of season

- 19. Access agreement for additional allotment land
- 20. Withdrawal of householder permitted development rights.
- 21. Lifetime homes standards.
- 22. Car parking standards.
- 23. Cycle parking standards.
- 24. Cycle route signage.
- 25. Cycle / pedestrian routes.
- 26. Servicing and deliveries.
- 27. Access.
- 28. Highways: Travel Plans.
- 29. Public transport provision.
- 30. Construction Environmental Management Plan.
- 31. Sustainability and energy strategy through district heating system.
- 32. Foul water drainage.
- 33. Site wide surface water drainage, to include SUDs.
- 34. Phased surface water drainage scheme.
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- 51. Archaeology.
- 52. Public art.
- 53. Linear park.

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- provision of primary school.
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- 23. Financial contribution of £10,000 to City Council towards link between linear park and Play Barton.
- 24. Administration and monitoring costs: £111,494.

All sums are index linked and returnable to applicant if not spend within specified time periods.

#### **Principal Planning Policies:**

Oxford Local Plan 2001-2016
CP1 - Development Proposals

CP9 - Creating Successful New Places

CP5 - Mixed-Use Developments

CP6 - Efficient Use of Land & Density

CP8 - Design Development to Relate to its Context

CP10 - Siting Development to Meet Functional Needs

CP11 - Landscape Design

CP13 - Accessibility

CP14 - Public Art

CP17 - Recycled Materials

CP18 - Natural Resource Impact Analysis

CP20 - Lighting

CP21 - Noise

CP22 - Contaminated Land

CP23 - Air Quality Management Areas

TR1 - Transport Assessment

TR2 - Travel Plans

TR3 - Car Parking Standards

TR4 - Pedestrian & Cycle Facilities

TR5 - Pedestrian & Cycle Routes

TR7 - Bus Services & Bus Priority

TR13 - Controlled Parking Zones

TR14 - Servicing Arrangements

NE4 - Loss of Agricultural Land

NE6 - Oxford's Watercourses

NE11 - Land Drainage & River Engineering Works

NE12 - Groundwater Flow

NE13 - Water Quality

NE14 - Water and Sewerage Infrastructure

NE15 - Loss of Trees and Hedgerows

NE20 - Wildlife Corridors

NE21 - Species Protection

NE22 - Independent Assessment

NE23 - Habitat Creation in New Developments

HE2 - Archaeology

HE7 - Conservation Areas

#### Core Strategy

CS1 - Hierarchy of centres

CS3 - Regeneration areas

CS7 - Land at Barton

CS9 - Energy and natural resources

CS10 - Waste and recycling

CS11 - Flooding

CS12 - Biodiversity

CS13 - Supporting access to new development

CS14 - Supporting city-wide movement

CS15 - Primary healthcare

CS16 - Access to education

CS17 - Infrastructure and developer contributions

CS18 - Urban design, town character, historic environment

CS19 - Community safety

CS20 - Cultural and community development

CS21 - Green spaces, leisure and sport

CS22 - Level of housing growth

CS23 - Mix of housing

CS24 - Affordable housing

CS31 - Retail

# Barton Area Action Plan

MP1 - Model Policy

BA1 - Transforming the ring-road

BA2 - Recreation ground

BA3 - Allotments

BA4 – Public Open Space

BA5 - Sustainable travel

BA6 - Vehicle access

BA7 - Pedestrian and cycle links

BA8 - Housing mix

BA9 - Affordable housing

BA10 - Local centre

BA11 - Community hub

BA12 - Energy efficiency

BA13 - Design

BA14 - Delivery

BA15 - Flooding

BA16 - Surface water drainage

BA17 - Water supply and waste water drainage

BA18 - Land remediation

BA19 - Sidlings Copse and College Pond SSSI

BA20 - Link local people - economic opportunities

# Sites and Housing Plan

HP2 - Accessible and Adaptable Homes

HP12 - Indoor Space

HP13 - Outdoor Space

HP14 - Privacy and Daylight

HP15 - Residential cycle parking

HP16 - Residential car parking

HP3 - Affordable Homes from Large Housing Sites

HP11 - Low Carbon Homes

HP12 - Indoor Space

#### Other Planning Documents

- National Planning Policy Framework (NPPF)
- Planning Obligations Supplementary Planning Document (SPD).
- Affordable Housing SPD.
- Natural Resource Impact Analysis (NRIA) SPD.
- Parking Standards, Transport Assessments and Travel Plans SPD.
- Balance of dwellings SPD.
- Accessible Homes Technical Advice Note (TAN) No.1

Draft Affordable Housing and Planning Obligations SPD

#### **Public Consultation**

Extensive consultation and engagement with the public and stakeholders was undertaken by the applicant prior to submission of the planning application, and the Council's normal consultation procedures undertaken upon its receipt. A full record of the various consultation exercises and responses received appears as **Appendix 2** to this report, plus a response from the applicant to its consultation exercises as **Appendix 3** and the views of the Berkshire, Oxfordshire, Buckinghamshire and Milton Keynes Design Panel Network (BOBMK) on the emerging Masterplan as of May 2012 as **Appendix 4**.

The comments submitted centred in the main on issues relating to:

- access arrangements;
- traffic generation;
- parking levels;
- the relationship to Northway and Marston;
- the appropriate mix and integration of housing types;
- the need for additional community facilities;
- the amount of open space;
- drainage and flooding issues;
- public transport; and
- education provision.

#### **Officers Assessment:**

#### **Background to Proposals.**

- 1. The planning application relates to a roughly triangular tract of land to the north of the A.40 ring road, west of the existing Barton residential area and south of the Bayswater Brook. It measures some 38 hectares (94 acres) in area with the land to the north of the brook falling within the administrative area of South Oxfordshire District Council. The application site is currently given over to agricultural usage in the main with fields separated by unmanaged hedgerows, trees and ditches, but also includes Barton Village Recreation Ground, allotments and Barton Nature Park. The site surrounds (but does not include) a Scottish and Southern Electric (SSE) sub station which faces onto the A.40. The land generally slopes from south to north with the highest ground located to the south east corner. It is traversed by public footpaths.
- 2. The site was identified in the Core Strategy adopted in March 2011as a strategic development site, and forms an integral part of the Barton Area Action Plan (AAP) which followed the Core Strategy and was adopted in December 2012.
- 3. The main elements of the development as proposed may be summarised as follows:

- up to 885 residential units which may include up to 50 units of extra care housing;
- hotel of up to 7,350 sq m of gross floorspace or approximately 120 bedrooms, (numbers of residential units to be reduced accordingly if a hotel is included);
- up to 2,500 sq m gross retail floorspace, consisting of a supermarket of not more than 2,000 sq m gross and additional retail units totalling not more than 500 sq m;
- primary school / "community hub" building and external areas consisting of 3,000 sq m main building, multi games area, adult sports pitch, 2 junior sports pitches, 400 sq m equipped play area, 360 sq m community sports pavilion and associated car parking;
- linear park;
- further equipped play area ("LEAPS");
- public squares;
- additional allotment provision;
- access roads;
- pedestrian and cycle routes;
- upgraded services, including media equipment, 2 pumping stations, substations and pressure regulators;
- drainage works including water attenuation and control;
- earth works;
- removal of existing buildings and structures;
- construction of new junction with A.40;
- new telecommunications infrastructure:
- landscaping and public realm works; and
- junction works at Barton Village Road / Fettiplace Road and Harolde Close.
- 4. The planning application is submitted in outline only with access fixed but details of appearance, landscaping, layout and scale to follow as part of the series of reserved matters applications to follow if outline permission is granted. However the form of the reserved matters applications would be conditioned by a series of "Parameter Plans" and a Design Code which would form part of the outline permission if granted and would provide a framework within which the detailed proposals would come forward. An illustrative Masterplan accompanies the outline planning application, anticipating in general terms how the whole site is intended to be laid out upon completion. A full Environmental Statement accompanies the planning application.
- 5. Officers consider the principal determining issues in the case to be:
  - planning policy;
  - built forms and layout;
  - residential development;
  - highways, access and parking;
  - local commercial centre;
  - education and community facilities;
  - recreational facilities;
  - landscape strategy and public open space;

- trees and landscaping;
- landscape setting and visual impact;
- biodiversity;
- archaeology;
- water resources, flooding and drainage;
- sustainability and energy;
- environmental statement.

# **Planning Policy.**

- 6. Historically the application site has largely formed agricultural land within open countryside on the periphery of the city. In planning terms at the time when the 1986 Local Plan was informally adopted the permanent boundaries of the Interim Oxford Green Belt had not been formally defined and the land in question attained the status of "Structural Open Space" under policy CO6 of that Plan where built development would be resisted. In the first fully adopted Local Plan of November 1997 the land became "Safeguarded Land" under policy EN3 where development would not be permitted during the Plan period other than for agriculture, forestry, outdoor sport or other uses which preserved the open nature of the land. This designation carried through to the current 2005 Local Plan under policy NE3. Whilst policy NE3 remains in force generally as part of the adopted Local Plan, with the subsequent adoption of the Oxford Core Strategy in March 2011and Barton AAP in December 2012 the policy is deleted in respect of the Barton site. Policy CS2 of the Core Strategy refers to the change in status of the land.
- 7. The Oxford Core Strategy establishes the spatial planning framework for the development of Oxford up to 2026, and represents the principal and overarching planning document within Oxford's Local Development Framework (LDF) suite of planning documents. Within the Core Strategy Barton is identified as a regeneration area under policy CS3, and the current application site as a location for a predominantly residential development under policy CS7. The policy reads:

"Land at Barton is allocated as a strategic location for a predominantly residential development. Planning permission will be granted for 800 – 1200 dwellings, and infrastructure and amenities to support the new community (including a new primary school). Development will be required to deliver access improvements that integrate it into the wider community and stimulate regeneration in Barton and Northway.

Development proposals will be expected to retain the existing allotments and an area of public open space equivalent in area to what currently exists, and to incorporate additional publicly accessible open space and an appropriate buffer zone to Bayswater Brook and A.40."

8. The principle of development for the uses now sought is therefore well established with all of the policies within the Barton AAP having a bearing on the case, as well as those policies of the Local Plan and Core Strategy which are listed at the head of this report. In particular the Barton AAP establishes 5 objectives against which the success of the development would depend:

- delivering a strong and balanced community;
- bringing wider regeneration of neighbourhood estates;
- improving accessibility and integration;
- encouraging low carbon lifestyles; and
- introducing design that is responsive and innovative.
- 9. Finally the National Planning Policy Framework (NPPF) published in March 2012 replaces a range of Planning Policy Statements, (PPSs), Planning Policy Guidance Notes (PPGs) and Circulars. Its overarching policy sets a presumption in favour of sustainable development to which there are 3 key roles: an economic one contributing to building a strong, responsive and competitive economy; social, supporting strong, vibrant and healthy communities; and environmental, contributing to protecting and enhancing the natural, built and historic environment. The planning application seeks to respond positively to these requirements.
- 10. The full list of local and national policies and policy documents relevant to the planning application are set out at the head of this report.

### **Built Forms and Layout.**

- 11. Although the application is submitted in outline only, it is accompanied by an illustrative Masterplan which indicates how the development is envisaged to be laid out over a period of years. The development is intended to create a new community with its own particular character but which relates also to the wider city context. Essentially three distinct neighbourhoods are proposed, a higher density residential and commercial neighbourhood to the western third of the site; a medium density central core with green links to the countryside to the north; and a lower density area to the east focusing on family housing and including a primary school, recreational facilities and existing allotments. The three neighbourhoods are linked by a central primary street as an extension of Fettiplace Road in the east to a new at grade road junction with the A.40 to the west. The junction would give access to and from the A.40 for all traffic, but to Northway south of the A.40 for bus services, emergency vehicles, cyclists and pedestrians only. A linear park and footpath network extends along the northern edge of all three neighbourhoods, forming a buffer with the countryside beyond. A sketch of the illustrative Masterplan indicating the intended neighbourhoods is attached as **Appendix 5**.
- 12. The <u>western neighbourhood</u> is intended to be laid out at a relatively high density, generally within the range of 50 to 70 dwellings per hectare (DPH) where buildings would generally be on up to 3 and 4 storeys, with the potential for a fifth storey adjacent to the point of access from the A.40 to form a gateway to the wider development up to 18m in height. Located here would be:
  - a new commercial core consisting of a new medium sized supermarket of not more than 2,000 sq m, (similar in size to the existing Tesco supermarket on Cowley Road, Co op in Headington or new Sainsburys at Templar's Retail Park);
  - up to 500 sg m of other commercial floorspace which could be in the

- form of shop units, cafes, offices or public house with residential accommodation located above and covered public car parking and servicing for the supermarket at ground and first floor;
- a raised central courtyard located above the car parking; and
- a hotel of up to 120 bedrooms within the same block as an alternative to residential accommodation. (If it were included the number of residential units would fall accordingly below the projected target of 885 units across the whole site).
- 13. The <u>central core neighbourhood</u> is envisaged to be at a lower, medium density of 40 to 50 DPH with buildings generally up to a maximum of 3.5 storeys, or up to 4.5 storeys for no more than 25% of the buildings where they front onto the primary street. This would allow architectural features and points of interest to be created along the primary east west route which runs centrally through this part of the site. A clear linear street pattern is proposed throughout this neighbourhood which exploits the fingers of greenery which protrude into it from the open countryside to the north in the form of retained ditches and hedgerows. Where fronting onto the new primary street the residential units would be in the form of flats with balconies.
- 14. The <u>eastern neighbourhood</u> would be lower in density in the range of 30 to 40 DPH with buildings generally up to 2.5 storeys but with up to 3.5 storeys fronting onto the A.40 and up to 4.5 storeys again along the primary street for up to 25% of its length. It would also include the small enclave to the south east of the site to the east of the existing allotments accessed from Harolde Close. A more informal layout of development is anticipated in this eastern neighbourhood which would reflect more closely the form of the existing Barton area with which it would interface. To the north of the primary road the new school and community hub would be located on one and two storeys and sit alongside a reorientated recreation ground where the playing field facilities would be shared between the primary school and wider local community.
- 15. The primary school / "community hub" building would occupy a site of 1.48 ha, with a school building of 3,000 sq m floorspace on one and two levels. A sketch of how it might be laid out adjacent to the public playing fields it would share is attached as **Appendix 6.** The development site would include:
  - a main hall of 180 sq m; 90 sq m of floorspace available during school hours for community activities; and a further 75 sq m occupied by toilets, kitchen and studio, all of which would be available evenings and weekends during term plus daytimes during weekends holiday periods for a variety of community uses;
  - an adult sports pitch and 2 junior pitches (one all weather) and multi use games area (MUGA) would also be available for community use at these same times;
  - a 360 sq m community sports pavilion is also provided to serve the sports facilities;
  - retention of existing allotments measuring 2.5 ha. improved and extended by the inclusion of a community garden to its southern side; and
  - linear park measuring 3.79 ha.

- 16. The package of public access to the community hub facilities would be secured by joint user agreement included within an accompanying S.106 agreement.
- 17. Two public "squares" are also indicated, one within the western neighbourhood either side of the primary street to the frontage of the commercial centre, and the second within the eastern neighbourhood, again along the primary street, adjacent to the primary school.
- 18. Set between the central and eastern neighbourhood is the existing Scottish and Southern Electricity (SSE) sub station which would remain, but with its 33,000 volt and 11,000 volt overhead power lines rerouted underground. The sub station itself would become less visible as a consequence of new landscaping and housing intended to back onto it. The existing public footpath which runs along its eastern edge would be realigned to run through the new street to its eastern side. Moreover where the development faces towards the A.40 either side of the sub station residential development would be set back 25m to 30m behind a service and access road and landscaped buffer zone.
- 19. Connectivity between the new development and Oxford within the A.40 / ring road is limited. Due to the high development costs in bringing forward the development, including realigning services along the A.40, then the only new crossing created is the new at grade junction to Northway. The development does not preclude the possibility of future access points however and there exists a commitment and funding to upgrade the existing underpass from Barton Road to Barton Village Road. Moreover a tension exists in any event between creating additional connectivity, and the functioning of the A.40 as a significant transport corridor eastwards towards the M.40 and London, and westwards towards West Oxfordshire and Cheltenham. The A.40 is no longer a trunk road but still carries high volumes of traffic along this corridor such that neither the Inspector into the Barton AAP nor the Highway Authority would support a 40 mph speed limit being imposed along this section of the A.40 which would have assisted integration. A 50mph limit is accepted however.
- 20. In order to deliver high quality in architecture and urban design, a series of Parameters Plans and a Design Code would form a framework to inform and manage detailed designs at the reserved matters stage. These would be in addition to planning conditions and the legal agreement. The Parameters Plans and Design Code would form part of the outline permission if granted, thereby requiring all subsequent reserved matters applications to conform strictly to them before they could be supported and granted planning permission.

#### 21. Some 6 Parameter Plans are submitted:

- <u>Plan 1</u> identifies the land to which the application applies, including zones for ancillary highways works which may be required.
- <u>Plan 2</u> identifies the general disposition of land uses as broadly discussed above, in particular the residential areas, school and

- recreational land, and the commercial area.
- <u>Plan 3</u> indicates the open spaces and landscaped areas retained and proposed, including tree belts, "greenways", recreational areas, play areas, existing and extended allotments and public squares.
- Plan 4 relates to movement and access and indicates the principal public vehicular and footpath routes and rights of way as existing, as proposed, and as proposed to be diverted. This includes the primary street, main secondary streets, points of access from Barton and A.40, and cycle links.
- Plan 5 describes the required residential density across the site as also referred to above, with the higher density areas generally to the west where a greater proportion of flatted accommodation would be located in and around the commercial centre created there, with densities reducing progressively to the east.
- Plan 6 relates to building and storey heights, also generally scaling down west to east with the taller buildings at the commercial core up to 18m in height reducing to 11.0m at the primary school and 9.5m for the residential development to the eastern neighbourhood. All these figures represent the maximum heights based on the height of ridgelines to roof structures (excluding chimneys etc), but in the expectation that development is unlikely to be built out to the maximum height across the whole of the application site.
- 22. The Design Code follows on from where the Parameters Plans leave off by providing detailed requirements as to how individual streets and buildings should be laid out on the ground and relate to one another. It sets minimum standards with the majority of its requirements being mandatory. Permeability and legibility to layouts and continuity and distinctiveness to the public realm, but not uniformity of building types, are critical requirements.
- 23. Notwithstanding the 3 neighbourhoods and Parameter Plans referred to above, the Design Code imposes detailed requirements across the whole development relating to the semi natural environment as well as across 4 distinct character areas described as "transects":
  - <u>Transect 1: Green Edge</u> relates to areas of lower density development adjacent to areas of informal open space, and coincides generally to the eastern neighbourhood and to the northern edge of the central neighbourhood where it adjoins the linear park along the northern side of the application site.
  - <u>Transect 2: Suburban</u> consists of a medium density zone, coinciding roughly to the central neighbourhood, other than where development is proposed directly onto the primary street.
  - <u>Transect 3: Higher Density Residential</u> consists in the main of the zone
    of development along the primary street which seeks to create a strong
    residential frontage but with the future flexibility to permit commercial
    uses at ground floor level.
  - <u>Transect 4: General Urban</u> consisting generally of the higher density western neighbourhood, including the commercial area.
- 24. These transects translate into a hierarchy of street types. Thus along the

main primary street buildings are typically proposed to be set apart by 17m to 18m with a 6.1m carriageway, 2.4 m parking bays either side interspersed with tree planting, 2.2 m footways and short frontages of 1.0m to 1.5 private areas as defensible space to individual properties. The carriageway and footways would be set at a single level without kerbs and speeds limited to 20 mph, to emphasise that pedestrians and cyclists have equal priority with vehicular traffic. The street would however permit new and extended bus routes to operate within them. Buildings along this primary street would typically be on 3 and occasionally 4 floors.

- 25. Adjoining the primary street two secondary streets are identified which would be of sufficient proportions to permit terminating buses on new or extended routes to loop around them for return journeys. These streets are located around the commercial centre to the west and south of the new primary school where building to building distances are reduced to 14.5m with car parking bays to one side of the street only and footways of 2.2m with kerblines and short private areas to buildings of between 0.75 to1.5m. Buildings would typically be of two storeys for the residential accommodation, but up to 4 or 4.5 storeys for the commercial buildings where there is flatted accommodation above.
- 26.A third, tertiary level of street would encompass the remaining, and bulk of, the residential areas with 9.0m to 12.0m building to building distances in a cycle and pedestrian friendly mews type of environment designed for speeds of no more than 10 to 20mph. Kerblines would not be present and surfaces would be of porous paving, again with tree planting interspersed with an amount of car parking.
- 27. The Design Code goes on to define how public areas such as green areas, "pocket parks" and squares fronting the commercial area and primary school are to be laid out, as well as detailing how play areas, car and cycle parking, street furniture and landscaping are also to be set out.
- 28. Turning to the new buildings themselves, the development is intended:
  - to display traditional building forms with materials in the local vernacular, but with the potential, and intention, for reinterpreting traditional elements in a contemporary fashion;
  - to possess a clear rationale in the treatment of buildings, especially individual houses which in the main would feature pitched roofs;
  - to provide cycle and bin storage and utility boxes designed as an integral part of the whole;
  - that new buildings demonstrate Secured by Design compliance, and to achieve the latest requirements set out in the Code for Sustainable Homes, Buildings for Life Gold Standards and Lifetime Homes standards. Non domestic buildings should attain a minimum BREEAM Very Good and meet the minimum Natural Resource Impact Analysis (NRIA) criteria.
- 29. A mix of traditional materials is required by the Design Code with red or buff brickwork for the majority of houses, but with some render and natural /

reconstituted stone allowed. To the northern side of the primary street along a short, central section, 100% light / buff brickwork is proposed with the streets extending north towards the northern boundary of the application site possessing a mix of stonework and buff brickwork with a small amount of render permitted. For the gateway buildings anchored at the new access from the A.40, and for the commercial development and primary school, these are intended to contrast with the residential accommodation and be faced in either render or natural / reconstituted stone. On points of detail use of UPVC or GRP is not permitted. Photovoltaics, whilst supported, have to be flush with roof structures and not stand proud of them, ie as an integral part of the roof structure.

- 30. Overall the purpose of the Parameter Plans and Design Code is to provide the means to create a successful, sustainable and attractive environment in which people can live and work. They seek to ensure that detailed design and implementation is based on sound principles that will help secure this, examining in detail a range of functional requirements. Their effectiveness will determine how the development appears not just internally, but also externally as part of Oxford in its wider setting.
- 31. On specific points however there is insufficient detail on kerblines at crossover points; little reference to corner buildings; only 30% of proposed houses are required to have chimneys (when 100% may be more appropriate); further consideration may be needed in the detailed choice of materials; and no commitment is given to self build groups. These elements could usefully be included. The Design Code would also benefit from other minor adjustments, whilst there is a need for greater clarity in the use of terminology so that there is no confusion at the reserved matters stage as to what terms such as "informal", "shallow" and "medium setbacks" are intended to mean for example, and which elements are truly mandatory and which just advisory. And although the Design Code focuses on the internal environment there is less discussion about managing the wider setting.
- 32. Whilst the Design Code is a thorough and detailed document in the main, equally it is complex to apply. That said, in its generality it is rational and supportable (with minor adjustment) as the principle tool to ensure the development achieves the quality sought for it in the Barton AAP. A condition is suggested requiring the submission of an amended code to encompass the above concerns and other adjustments prior to the issuing of the notice of permission if the planning application is supported by committee. Also, when tested as reserved matters applications are rolled out, further amendment or fine tuning of the Code may be required. A separate condition is suggested requiring the periodic review as the development is built out over a period of years.

#### **Residential Development.**

33. The Barton AAP establishes the aim of creating a balanced new community of between 800 and 1200 homes in a mix of different types, sizes and tenures to accommodate differing household needs. The AAP accepted however that

due to the abnormal costs in bringing forward the development, (which included the provision of a new primary school, a major new junction with the A.40 ring road and various on - site constraints), then 50% affordable accommodation in line with the Core Strategy would make the development commercially unviable. A minimum figure of 40% affordable accommodation was therefore established in the AAP. The mix of market and affordable accommodation in terms of the proportion of variously sized units is also established in the AAP and is broadly in line with that of the Balance of Dwellings SPD which applies elsewhere in the City.

34. The planning application complies with these requirements and indicates how they would be met for a development of 885 residential units in line with the illustrative Masterplan:

	AAP	Application					
		No. TOTAL	% TOTAL	Market TOTAL	Market as %Market TOTAL	Aff TOTAL	Aff as % Aff TOTAL
1 bed	5-10%	45	5%	27	5%	18	5%
2 bed	25-30%	265	30%	159	30%	106	30%
3 bed	40-55%	416	47%	239	45%	177	50%
4+ bed	15-20%	159	18%	106	20%	53	15%
Total		885	100%	531	100%	354	100%

- 35. The numbers of units represent the maximum proposed in the planning application and in the event that a hotel were to be included in the development, then the numbers would be adjusted accordingly, but with the proportions maintained. The AAP also required the affordable accommodation to be distributed across the whole development with a minimum of 35% of the units in any phase of development.
- 36. The legal agreement securing the affordable accommodation would therefore contain the following detailed requirements:
  - minimum of 40% affordable units, all for social rent;
  - minimum of 35% and maximum of 60% affordable units within any phase of development;
  - mix of units to be: 1 bed 5% to 10%; 2 bed 25% to 30%; 3 bed 40% to 55%; and 4 bed+ 15% to 20%.
  - phasing and distribution to be agreed;
  - maximum clustering of affordable units to be 15 houses and 20 flats;
  - no more than 60% of market properties to be occupied until 40% of affordable units have been transferred to City Council as affordable housing provider;
  - last 10% of market housing not to be occupied until 100% of affordable units transferred to City Council as affordable housing provider;
  - allocations policy to follow local lettings policy to prioritise relocation of existing tenants in adjacent neighbourhoods.

- **37.** Any additional affordable units above the 40% figure could be in the form of intermediate, shared ownership or affordable rented accommodation.
- 38. In addition the Sites and Housing Plan requires that all new dwellings must meet Lifetime Homes standards with at least 5% being either wheelchair accessible or easily adaptable to wheelchair use. Half of that figure should be market housing. The Barton AAP is less prescriptively worded however, stating only that all new homes should be built to this standard as far as possible. In the submitted application 100% of the affordable housing is proposed to Lifetime Homes but only 15% of the market housing. 5% of all the units would be capable of full wheelchair use.
- 39. Whilst it is welcomed that all the affordable accommodation meets the required Lifetime Homes standard, it is disappointing that a greater proportion of the market housing is not indicated to do so. It is argued in the planning application that with the undulating nature of parts of the site, then additional space within the curtilage of dwellings would be required with detrimental impacts on overall numbers of units to be provided. Such an argument is not fully understood however as much would depend on the detailed layout of the development at reserved matters stage. Certainly officers would welcome the opportunity to increase the proportion of market properties given over to Lifetime Homes standards and a condition is recommended that all residential properties be constructed to that standard unless it can be fully justified why that should not be the case.
- 40. The planning application proposes that up to 50 of the residential units could be in the form of Extra Care accommodation

# Highways, Access and Parking.

- 41. Context. The application site is located wholly north of the A.40 / Oxford ring road dual carriageway with the nearest junctions on that road being at grade at the Green Road roundabout to the east which gives access to the current Barton residential area plus Stanton St. John and other villages to the north and east within South Oxfordshire, and at the grade separated junction at Marsh Lane to the east which gives access to the A.40 itself plus Elsfield and Woodeaton and villages beyond to the north. The A.40 at this point is currently subject to a 70 mph speed limit. The eastern boundary of the application site is formed by Barton Village Road, which is a two-way residential street, subject to a 20mph speed limit. It runs around the western and southern edges of the existing Barton residential area, becoming North Way before meeting Bayswater Road near the Green Road roundabout. The alternative principal route through the Barton residential area to the west of Bayswater Road is via Fettiplace Road, which runs to the northern side of the area and would form the principle vehicular link to the new development from existing Barton. Its extension would form the new primary street through the proposed development.
- 42. Pedestrian and cycle access exists to Barton currently via the subway from Barton Road in Headington to a point north of the A.40 near the junction of Barton Village Road and North Way, near the eastern edge of the application

- site. Subways also exist beneath the Green Road roundabout. All of the subways are of poor quality and unattractive. Although there are no segregated cycle routes within the existing Barton area a route via the North Way / Barton Village Road subway gives access to a cycle way / footpath along the south side of the A.40 and links via residential streets to cycle routes within the Headington area and beyond.
- 43. Within the application site a public footpath and bridleway runs south north along the eastern side of the SSE sub station, leaving the site across the Bayswater Brook and proceeding northwards towards the Sidlings Copse and College Pond SSSI and Elsfield village. This forms an extension to the Stoke Place footpath which runs from Old Headington alongside Ruskin College land on the south side of the A.40, and which is now effectively severed by that road.
- 44. The existing Barton area is served by the high quality No.8 bus service operated jointly by the two bus companies which links to the city centre via Headington. The No. 8 is a 6 7 minute service, (10 minute on Sundays), operated in a circular fashion around Barton from Green Road via Bayswater Road, Wayneflete Road, Stowford Road, Underhill Circus Fettiplace Road, Barton Village Road and North Way.
- 45. Research accompanying the planning application has abstracted information from the Local Transport Plan and 2001 and 2011 Censuses relating to the Barton and Sandhills ward and the City and County as a whole. The research indicates that traffic on the A.40, Eastern By Pass and London Road has not changed significantly over the decade to 2011 though over the same period the population of Oxford and Oxfordshire has increased by 12% and 9% respectively and car ownership by 6.2%.
- 46. The number of private cars owned by residents of Barton and Sandhills ward increased by 21.1% however compared to 7% for the City as a whole though the average car ownership per household only increased by 3.2% from 0.94 vehicle per household to 0.97. For the City the average decreased marginally from 0.94 to 0.93 vehicles per household. Despite increased car ownership in Barton and Sandhills, the proportion of car driver trips to work fell over the decade by 1.8% from 45.1% to 44.3%, whilst trips by sustainable modes increased by 6.4% from 39.3% to 45.7%
- 47. <u>Traffic Generation and Mitigation</u>. To serve the new development a new at grade junction would be created from the A.40 at a point along Foxwell Drive opposite Meadon Hill in the Northway area. The junction would be restricted in the movements possible with left in and left out movements to and from the new development from the A.40 for all traffic, and right in from the A.40 westbound, also for all traffic. Movements across the A.40 between the development and Northway would be restricted to public bus services, emergency vehicles plus cyclists and pedestrians, enforced by camera detection. Within the ring road bus routing through Northway is likely to be eastwards towards Saxon Way and John Radcliffe Hospital, though routing could be taken to the west via Westlands Drive with minor road realignments perhaps required. There would be no bus movements along Meadon Hill. The

junction would be fitted with traffic signal controls and, (subject to confirmation by Traffic Regulation Order, TRO), a 50 mph speed limit imposed along the A.40. Initially this may be imposed by signage only, but with additional controls such as speed cameras introduced later if the restriction is not fully observed. A speed limit of 50 mph would better integrate the development with Oxford within the ring road, whilst a heavily engineered design solution for the junction should be avoided for the same reason. As much of the existing tree coverage and greenery would be maintained as possible and supplemented with new planting as appropriate.

- 48. Modelling accompanying the planning application predicts traffic generation for 2019 on completion of the development of an additional 435 car trips in the morning peak (8.00 9.00 am) and 730 in the evening peak (5.00 6.00 pm). Without mitigation, the modelling shows that the development would cause additional queuing in the morning peak on some routes, most noticeably at Marsh Lane (southbound) and at North Way. In the evening peak, the average queue length would increase in particular on Marston Road. The following mitigation measures are therefore proposed, with funding secured by legal agreement:
  - changes to the spiral lane markings on the Eastern By Pass entry to the Green Road roundabout and amendments to the timings of the signal controlled junction in order to improve utilisation of the lanes and overall capacity; and
  - converting the existing double mini-roundabout at Marston Road / Headley Way / Cherwell Drive / Marsh Lane to a pair of linked traffic signal controlled junctions in order to increase their combined capacity, in particular on the Marsh Lane and Marston Road entries.
- 49. The modelling shows that with this mitigation in place the status quo would be maintained and a marginal improvement in conditions achieved as there would be a net reduction in average journey times across the network of 26 seconds in the am peak and 4 seconds in the pm peak. Whilst the development is forecast to have different impacts on different roads, overall it would not therefore have a significant impact on the operation of the local highway network generally. Within Barton itself, there would inevitably be increases in traffic flows on some routes, most noticeably on North Way and Fettiplace Road. The modelling shows the increases will be higher in the evening peak than in the morning. However, these roads are relatively lightly trafficked at present and, even with the new development, the overall traffic flows would be lower than on many comparable roads elsewhere in the city.
- 50. The modelling also examined the potential for 'rat-running' through the development to avoid queuing traffic at the Green Road roundabout. It found little evidence that this would be significant, with a predicted 'rat-running' flow of only 47 trips in the am peak, (of which the vast majority would be heading to the Bayswater Road northbound), and only 17 in the pm peak. A speed limit of 20MPH plus street designs to the primary street controlled by the Design Code would serve to slow such journeys and discourage use for rat running.
- 51. Overall, given the size of the proposed development, the traffic impacts are

considered to be acceptable with the various mitigation measures in place which generally maintain the status quo whilst encouraging and promoting cycling, walking and public transport as far as possible as alternatives to the use of the private car. Constraints are imposed by only one wholly new crossing of the A.40 being possible at this stage, though the potential may exist for further crossing points in the future, whilst funding is made available to improve the attractiveness of the existing underpass to Barton from Barton Road in Headington.

- 52. Car Parking. The required car parking to serve new development is set out for residential development at policy HP16 of the Sites and Housing Plan and for non residential uses at policy TR3 of the Local Plan. Both indicate that the standards should be regarded as maxima. For non centrally located residential developments outside Controlled Parking Zones, the Sites and Housing Plan requires one allocated parking space per unit, but with unallocated space also provided which can be used flexibly. It is stressed in the documentation that the parking proposed for the development is indicative only however, and that the actual numbers of spaces for each phase will come forward with each reserved matters planning application.
- 53. Nevertheless the Transport Assessment suggests a total of some 1,653 car parking spaces to serve 885 residential units. This figure is in line with policy HP16 though below the maximum permissible of 1,910 spaces for the intended size and mix of units in the development.
- 54. However at 397 unallocated spaces the figures show an under-provision where the policy would require a minimum 450 spaces. It is important to provide adequate on-street parking in the development to provide flexibility, given that car ownership will vary with some households not being car owners whilst others may 'spill over' from their allocated provision. It is also suggested in the application that the 5 bedroom market units should be provided with 3 allocated spaces each. This is more than the maximum of 2 permitted in the policy and cannot be supported, and may lead to an impression of sprawling low density development, and which may not be the most efficient use of land. Out of the total provision 5% of homes, (distributed equally across dwelling types and tenures), would be required to include an on plot space suitable for use by a wheelchair user. These would be the same residential units as the wheelchair adaptable homes. These parking spaces should be of a minimum dimension of 3.6m x 5.4m with side transfer space.
- 55. In view of the falling proportions of residents in the existing Barton and Sandhills ward who use the private car for their journey to work; the high quality bus services envisaged; and the need to restraint traffic generation in line with established policy, then it is considered that the total figure of 1,653 on and off street residential parking spaces (equivalent of 1.9 spaces per unit) is appropriate to serve the development. There is a caveat however that detailed designs should preclude the possibility of unauthorised fly parking at inappropriate locations across the development site such as on parkland or recreational areas.

- 56. Furthermore in order to prevent unauthorised commuter parking relating to major employment sites in Headington, a Controlled Parking Zone (CPZ) is proposed. A CPZ can only apply to adopted highways however and additional controls of the same or similar nature will need to be in place for any privately maintained thoroughfares. The extent of the CPZ is not defined at this stage but it is suggested that it be introduced progressively as each phase of development is built out and its access roads are formally adopted as public highway. There are firm proposals to advise incoming residents of the intention to prioritise their parking facilities by introducing the CPZ, and also to support and encourage the use of public transport facilities and other transport modes.
- 57. In terms of non residential parking, some 90 car parking spaces are proposed in the off street car park plus a further 30 in short stay spaces on street within the square to the frontage of the commercial centre. Those to the north side of the primary street at this point are intended to serve residential needs and those to the south short term parking for shoppers etc. A further 30 spaces would serve the primary school and 54 for the hotel if that proceeds instead of residential accommodation. In view of its peripheral location to the city however this figure would need to be reassessed if it were intended to form part of a reserved matters application in due course.
- 58. These figures are within maximum standards in the Local Plan. Not all the detail of parking appears to be provided for the sports pavilion or allotments though a small amount is proposed for each. A condition to the outline planning permission would require full details of all parking proposed as part of each reserved matters application.
- 59. Cycling and Cycle Parking. In view of the high cycle usage in Oxford and the aspiration for a sustainable development it is essential that every opportunity is created for cycling and cycle parking. In this regard it is anticipated that streets within the development would be relatively lightly trafficked, generally with 20 MPH speed limits, making conditions very suitable for cycling. Signposting of cycle routes would also be provided and crossing facilities incorporated into the new A.40 junction to facilitate connection to existing cycle routes within the A.40 / ring road and along its southern side via the existing cycle track there. Two strategic cycle routes are also proposed along the northern and southern fringes of the development. The northern route would run parallel with the northern boundary through the linear park, and Barton Village Road through to the Play Barton recreation area to the east. The southern route would run parallel to the A.40 from the new A.40 junction via the different neighbourhood areas and extended allotments to the junction of Barton Village Road with North Way, close to the north side of the existing A.40 subway. The Oxfordshire County Council Rights of Way team have requested that these routes also become definitive rights of way, which is supported.
- 60. In terms of cycle parking the Transport Assessment confirms that all dwellings would be provided with secure cycle parking to comply with the standards set out in the Sites and Housing Plan of at least 2 spaces per 2 bedroom unit and at least 3 spaces for every 3 bed unit. A condition is required to ensure compliance

- at reserved matters stage and to be alert to the design constraints to provide access to the street without having to wheel cycles through houses or flats.
- 61. For non residential development the provision for the retail uses is in line with adopted standards in the Local Plan at 26 spaces whilst the hotel if it proceeded would be required to provide bespoke cycle parking for 20% of non resident staff, or 12 spaces in this case, plus a further space per resident staff. For the primary school provision would be made on the basis of 1 space per 15 pupils, plus 1 space per 5 staff with additional cycle parking for users of the sports pitches. These figures should be regarded as minimum requirements however. Where cycle parking is provided specifically for residents or staff of commercial or other premises for all day parking it should be in covered, secure conditions. Elsewhere the development would benefit from additional casual facilities at appropriate locations, provided on street for visitors and users of commercial and other premises. These can be provided at low cost.
- 62. <u>Public Transport</u>. The Masterplan accompanying the planning application indicates a layout for the development which would allow bus access into the development site both from the Barton end and from Northway via the new A40 junction. Two bus turning loops are included, one at the commercial centre to the western end of the site, and another near the primary school to the east. All residential properties are intended to be located within a five minute walk of a bus stop. As the Masterplan is illustrative only however a degree of flexibility in terms of bus route provision is required at reserved matters stage to allow for various routing arrangements, namely:
  - bus services entering the development site as an extension of the existing Barton route before returning the same way, as now;
  - bus services entering from Northway via the bus only route through the new A40 junction, turning within the site and returning the same way; and
  - bus services entering from Barton, continuing through the site via the primary street and exiting via the new bus-only route at the new A40 junction, or vice versa.
- 63. The Transport Assessment also addresses the issue of phasing in bus route provision, indicating that during the early phases of the development additional services may not be commercially viable. The accompanying S.106 agreement therefore provides for a public subsidy, declining in its provision as the development is built out and as services become fully commercially viable. An annual subsidy of up to £150,000 is therefore proposed for a 5 year period, with receipts from ticket sales offset against that sum the following year. A final payment of £100,000 for a 2 year period would be provided at the end of the 5 year period, again with an offset arrangement. As the existing Barton services are of high frequency and currently commercially viable, it is anticipated that with the full build out of the development new services would similarly become commercially viable.
- 64. <u>Travel Plan</u>. The planning application also proposes that Travel Plans be drawn up to encourage sustainable travel options, reducing reliance on the private car. They would seek to build on existing trends towards sustainable trips to work at the expense of car travel, as indicated in recent census data.

Each Plan would be secured by condition requiring details to be submitted and agreed by the City Council as Local Planning Authority in consultation with the Highway Authority. It is envisaged that a Travel Plan Coordinator be appointed prior to the first occupation of any residential property with responsibility for implementing a residential Travel Plan. For non - residential uses the responsibility would lie with those occupiers. In that regard Travel Plans would be required for the primary school, supermarket and hotel if that proceeded.

- 65. The objectives of the residential Travel Plan would be to:
  - ensure that residents are properly informed about the travel choices available to them:
  - promote sustainable travel;
  - reduce the need to travel by car;
  - reduce the number of single occupancy journeys by car; and
  - encourage healthy and active lifestyles.
- 66. The residential Travel Plan Coordinator would be responsible in the first instance for ensuring all new residents are aware of the Travel Plan. A "welcome pack" could include bus and train timetables and maps; details of car clubs; locations of electric charging points to be included in the development; Oxford cycle map; details of period bus fares etc. It is envisaged that the Coordinator would also set up a website with links to external travel information and commission a baseline travel survey after 100 properties had been occupied, or after one year whichever were the sooner. Annual surveys and monitoring reports would also be produced for the lifetime of the build out of the development and submitted no later than 2 months following their completion. A similar approach would be anticipated for Travel Plans drawn up for the primary school, supermarket and hotel, though with specific facilities such as secure cycle storage, provision of changing and showering facilities also required.

#### **Local Commercial Centre**

67. A new commercial centre is proposed to be located to the western end of the application site, south of but fronting onto the primary street and with active frontages to the primary street running through the development. A medium sized supermarket up to 2,000 sq m gross is proposed, together with a series of smaller units totalling 500 sq m gross. It is anticipated that 85% of the supermarket floorspace would be given over to convenience goods and 15% to comparison goods. The permission if granted would permit the smaller units to be occupied for a variety of alternative uses which could include retail shops, estate agents, café, post office, building society, takeaway. hairdresser, launderette, public house etc. It is anticipated that the block accommodating the retailing would possess flats above on another 3 floors arranged around a central raised and landscaped courtyard. A rear, covered car park would provide 90 car parking spaces, plus a further 30 short stay on street spaces to the street frontage. Located at this position to the western end of the development the new commercial centre would be along the anticipated bus route and would be intended to complement rather than

- compete with the existing neighbourhood facilities at Underhill Circus to the east.
- 68. The Barton AAP had indicated that the new retail development must demonstrate need, compliance with the "sequential test", good accessibility by various modes of transport and that there would not be an adverse impact on the vitality and viability of existing centres. Equally it required that it not be visible from the A.40 or act as a destination shopping venue for passing traffic on the A.40. Whilst the new centre does not lie within an existing centre, it does relate to an allocation of a new local centre and can therefore be considered as a sequentially preferable site.
- 69. To accompany the planning application, a retail impact assessment was undertaken of the Primary Catchment Area (PCA) which comprises the wards of Barton and Sandhills, Churchill, Headington, Headington Hill and Northway, Quarry and Risinghurst, and Marston that together make up the catchment for the Headington District Centre. Within this catchment area the impact on the Headington District Centre was examined together with the local neighbourhood parades at Underhill Circus in Barton, Roundway in Risinghurst, Girdlestone Road in New Headington, Westlands Drive in Northway, Cherwell Drive in, Marston, and Old Marston Road in New Marston. Other larger retailing centres across the city and outside but on its fringes were also taken into account and allowance made for the attraction of a limited amount of trade from outside the area. An assumption was also made that the new supermarket would be completed and open in 2016, though it was recognised that this might be optimistic. Expenditure data was taken from the Oxford Retail Needs Survey Update (ORNSU) of 2008, with figures updated further to 2010 prices using information from the Retail Expenditure Guide by Pitney Bowen and Oxford Economics. The "design year" for testing the retail impact was 2018 when trading patterns are forecast to be settled, on or about the completion date for the development. The survey work was undertaken before the recent opening of the new Sainsburys supermarket at Templar's Retail Park, though it is not considered this is likely to have any great impact on the findings of the study given its location some distance from the Primary Catchment Area.
- 70. The conclusions of the impact study are included in detail as **Appendix 7** to this report. The principal findings in relation to the examined centres were that:
  - the impact would not be great enough to cause closure of any existing foodstores;
  - there would be no significant impact on the vitality or viability of any existing centre;
  - there would be more than sufficient expenditure capacity in Oxford as a whole to support the proposed retail development by the assumed design year of 2018; and
  - any marginal loss in sales at existing centres at 2018 would be made up by increased growth in total expenditure by 2021.
- 71. Overall the applicant's submitted impact assessment is comprehensive,

- considering the overall capacity both within the City as a whole and within the Primary Catchment Area (PCA) for the application site. The analysis of expenditure capacity shows that there will be more than enough convenience goods expenditure as a whole for the proposed retail development.
- 72. Officers have concluded that the provision of the supermarket and supporting commercial facilities would therefore meet the requirements set for it in the Barton AAP and can be supported.

# **Education and Community Facilities.**

- 73. Central to the development is the provision of a new primary school to the value of £7.39m located to the west of the recreation land for 1.5 form entry with the capacity for 2 form entry at a later date if required. The school would employ some 30 staff and occupy a site of 1.48 ha. or 2.2ha. in combination with shared community recreational facilities. The intention is that the community hub facilities would operate in parallel with the Barton Community Centre as an extension to that facility. It is anticipated that Barton Community Association would run the activities at both sites.
- 74. The school building would be located centrally to the extended Barton on the north side of the primary route at a focal point in views along that street from the west and from the south. **Appendix 6** referred to earlier is an illustrative sketch indicating a possible general layout for the school land and adjoining recreation facilities. The Development Specification sets out that the school building itself should be designed to have a minimum height of 6m. and a maximum height of 11m. The Design Code illustrates that the majority of the frontage onto the main street would be "active frontage two storey". The proposal as suggested is broadly in line with this requirement, with the building addressing the corner either in a two storey structure or a single storey building but with a double height hall at that point.
- 75. The primary school / community hub building would consist of a total of 3,000 sq m of floorspace with a joint user arrangement making the 180 sq m school hall and 165 sq m of other floorspace including kitchen, adult toilets etc available for a range of community uses during school hours, at evenings, at weekends and out of term time as a "community hub" to provide a range of facilities including:
  - day care provision, or if not possible as an off site contribution of £163,500 to Oxfordshire County Council; and
  - early years provision, or if not as an off site contribution of £69,000 to the County Council.
- 76. A contribution of £88,500 is also made to improved facilities at Headington Library whilst policy CS15 of the Core Strategy requires development of this site to provide for or contribute towards appropriate primary healthcare facilities either on or off-site. The submitted documentation states that healthcare facilities are not required on site.
- 77. Overall the provision of a community hub within the school accommodation in this form would satisfy policies CS16 and CS20 of the Core Strategy in that it would

- provide suitable provision for a primary school and for new community facilities to support new development and integration within the wider community..
- 78. The school building itself is most likely to be delivered by the education authority for occupation as an academy school, funded at the developer's expense at a cost of up to £7.39m. The legal agreement accompanying the planning permission would require the provision of the school at a point in the build programme no later than when the development had generated 90 children of primary school age. To accommodate that figure the legal agreement would require that the school be constructed and available before the occupation of the 400<sup>th</sup> residential unit, or such other time as agreed between the parties.
- 79. Prior to its provision however temporary school facilities of up 3 classes would be provided, either within the 2 mile catchment area of the development, such as at Bayard's Hill Primary School, or if outside the catchment area with a financial contribution of up to £228,000 towards transport to an alternative site. The temporary school would be available only to children resident within the new development.
- **80.** No secondary school facilities would be provided within the development, but rather a financial contribution of £3.1m made to fund secondary and sixth form facilities off site to serve the development on the basis of 170 secondary school places being generated by the development and 27 sixth form places.

#### Recreational Facilities.

- 81. The City Council's Playing Pitch Strategy 2012 2026 recognized that the north east area of the city possessed an undersupply of sports pitches. The Strategy also stressed the importance of securing joint use of school facilities at the Barton development to address additional demand. The current level of provision at Barton consists of:
  - 1 adult size grass football pitch
  - 1 grass practice pitch
  - 1 multi use games area (MUGA) laid as 2 hard surface basketball courts
  - 1 disused bowling green
  - Sports Pavilion measuring 294 sq m.
- 82. This level of provision would be replaced by the following:
  - 1 adult size grass football pitch: 100m x 64m
  - 1 junior / practice pitch provided as 3G synthetic turf pitch with floodlighting: 72 x 46m.
  - 1 MUGA: 39 x 26m
  - 1 grass pitch within school demise: 82 x 45m
  - Replacement sports pavilion measuring 360 sg m.
- 83. The new facilities would be in the same location as now so would continue to serve the existing Barton community as well as the proposed extension. A joint user agreement with the school would secure community use of the school facilities during weekday evenings, weekends and out of term. The

school hall measuring 180 sq m would also be available.

- 84. The adult pitch would be laid out so as to possess the potential to upgrade to Hellenic League standard if required, whilst the second, smaller, grass pitch would be within the demise of the primary school and would be for its use during school hours. However it would be available for wider community use at other times. The "junior" pitch would be provided with a synthetic surface with floodlighting, ensuring the facility was available for longer periods throughout the year. Again it would be utilised by the school. The existing MUGA is of poor quality and would be replaced by a new facility with an improved multi use surface and would again be available to both school and community, with the potential for it to be floodlit if required. Works to the existing recreation ground to reprovide the adult pitch etc would be undertaken out of season to minimise disruption to formal league fixtures.
- 85. For younger children two 400 sq m Locally Equipped Areas for Play (LEAPs) are proposed, one to the eastern side of the development within the linear park, and one within the recreational area. The LEAPS would be aimed at children typically aged 2 to 8 and each would possess a minimum of 9 pieces of play equipment with seating and low level fencing providing a sense of enclosure and to exclude dogs etc. None of the residential properties with the development would be more than 5 minutes walk (or 400m) from one of the LEAPs.
- 86. Lastly the existing cultivated allotments would remain with improvements provided in the form of fencing, mains power, car parking and accommodation for gardening equipment. To the south of the allotments an additional area is intended to be brought into use as a community garden or as additional allotment plots.
- 87. This level of recreational provision with joint user arrangements in place for the sports facilities is supported by officers.

#### Landscape Strategy and Public Open Space

- 88. The landscape strategy for the Barton development seeks to draw upon the existing landscape context with objectives to:
  - maintain existing key landscape features such as mature hedgerows as much as possible;
  - address and mitigate the impact of the development on the local landscape;
  - retain all public rights of way within the site and create new routes;
  - retain and enhance existing habitats;
  - provide appropriate strategic landscape planting;
  - enhance the open space network; and
  - provide additional play opportunities.
- 89. One of the key and unique landscape features of the development is the proposed linear park extending along the northern boundary of the application site along the line of the Bayswater Brook. It seeks to create an informal

recreational area with cycle and footpath routes extending to Barton Village Road with links through to the Play Barton recreational area to the east. The linear park would occupy some 3.89 ha. in total, or 10% of the development site, and provide both informal and formal recreational areas. The planting of trees, grassland and wildflowers and the creation of flood attenuation ponds along the linear park would also introduce new habitats along the line of the brook in line with policy BA4 of the Barton AAP.

- 90. Similarly the retention of 3 north south aligned green corridors (or "greenways") retaining existing lines of trees, hedgerows and ditches penetrating into the heart of the development would provide physical links with the wider landscape setting and references to the previous use of the land for agricultural purposes. The western greenway for example would be some 283m in length and 20m in width, running from the linear park in the north to a point just north of the A.40 in the south, interrupted only by the primary street running east west across the application site. The other greenways would not be as long and would be typically 15m in width. The ditches along these greenways would retain existing hydrological and ecological conditions and would not be used for attenuation purposes. As with the linear park the greenways would provide important habitats and feeding corridors for wildlife.
- 91. Elsewhere, and as indicated above, the existing allotments would be extended to the south, possibly to include a community garden, whilst a 1.9 ha recreation ground would be created with facilities shared with the adjacent primary school. In total 12.56 ha. or 33% of the total site area of the development area of 38.3 ha. is given over to open space in one form or another, as follows:

	Hectares	% of total site area
Total site area	38.03	
Recreation ground	1.9	5.00
Area containing School pitch	0.63	1.66
Allotments (including additional)	3.15	8.28
Community garden	1.17	3.08
Linear park	3.79	9.97
Greenways	1.85	4.86
Pocket Parks	0.07	0.18
Total open space	12.56	33.03

92. In terms of the amount of public open space in relation to the resident population, policy CS21 of the Core Strategy seeks to maintain an overall city wide average of 5.75 ha. per 1000 population. The end population of the development will depend on a number of factors including, for example, whether the full target of 885 residential units and potential population of 2,495 is achieved, and whether a hotel is included at the expense of some of the residential units. Broadly however it is anticipated that the provision of open space would be comparable to provision across the city as a whole and can be supported.

#### Trees and Landscaping.

93. Although landscaping would not form part of the outline planning permission if

granted, a detailed arboricultural report accompanies the current submission. The report includes a detailed survey of all the trees and hedgerows within the application site which amounts to 213 individual trees, 149 groups of trees and 20 hedgerows. Of the trees 8 are category A as defined by British Standard BS5837:2012, being of high quality and making a substantial contribution to public amenity; 152 category B of medium quality; and 153 of category C low quality. A further 39 individual trees and 10 groups of trees were classified U, ie with less than 10 years life expectancy, being either dead, dying or close to structural failure. **Appendix 8** to this report refers.

- 94. The report identifies 5 areas of importance in landscape terms:
  - Adjacent to the Bayswater Brook where mainly hedgerow specimens are present, plus over mature crack willows of low quality. Some good offsite screening is provided by specimens north of the brook.
  - <u>Internal to the site including field boundaries</u>. The hedgerows here are of variable quality. Two grey poplar woodland groups are located to the west of the site and have good long term potential.
  - Within the existing allotments and immediately to their east and west.
     The mainly ash specimens to the west provide a mature backdrop to the allotments, with good quality maple sycamore and wild cherry to the east.
  - Adjacent to Barton Village Road. The principal trees here are category
     A alder and hybrid black poplar, together with category B ash.
  - Adjacent to the A.40 corridor. North of the A.40 the tree coverage is mostly field maple with hawthorn to the east, providing good screening. To the south of the road the coverage is mostly of hawthorn hedgerow with mature grey poplar to the south west close to Foxwell Drive and good quality woodland groups between Foxwell Drive and the A.40. The central reservation consists mostly of unmaintained hawthorn with occasional mature trees.
- 95. If the development were permitted and laid out strictly as indicated in the illustrative Masterplan, then the proposals would require the removal of a significant number of existing trees and other vegetation, the removal of sections of hedgerow and the replacement of fields with development, all necessarily changing the appearance and character of the landscape. Of the 213 existing individual trees identified in the tree report 24 would be lost as a direct result of the proposed development indicated in the Masterplan. Of these 6 are crack willow pollards that are in very poor structural condition and another 4 trees (2) ash, 1 crack willow and 1 hawthorn) are assessed to be low quality and value. This results in 14 remaining public amenity trees needing to be removed, (4 ash, 5 crack willow, 1 hawthorn, I hornbeam, 1 field maple and a sycamore). Of the 149 groups of existing trees, the proposals require 18 to be fully removed with another 3 groups substantially removed. The principal hedgerows within the site, to the northern edge along the line of the Bayswater Brook and the north - south aligned hedgerows intended to penetrate into the development itself, are intended for retention in the main. They will however require careful management if they are to continue to provide not only a visual presence but to retain a role in providing habitat and foraging for wildlife.

- 96. The Arboricultural Report also recommends that a number of trees not required by the development itself to be lost should nevertheless be removed within 2 years for arboricultural management reasons. These include 25 individual and 3 groups of crack willows. These are outgrown pollards in poor structural condition. The report advises that re-pollarding of these trees is not viable. 8 other trees and 3 groups of trees are also recommended for removal because of their poor condition.
- 97. In mitigation the report suggests that replacement structural landscaping would be required, providing opportunities to plant new trees in areas of open and green space such as the linear park and other green corridors; along roads and streets; and within garden areas. The submitted Design and Access Statement therefore suggests a palate of species to form the basis of a landscape strategy. These would be predominantly native species and would be appropriate to the development, being based on an examination of the existing landscape and visual context. The key objectives of the landscape strategy are indicated to be:
  - to maintain existing key landscape features such as mature trees and hedgerows as much as possible and incorporate them into the development;
  - to mitigate any effects on the local landscape;
  - to maintain all public rights of way within the site and create new routes;
  - to retain and enhance existing habitats as much as possible;
  - to provide appropriate strategic landscape planting to the site's boundaries;
  - to enhance the open space network ;and
  - to provide additional play opportunities.
- 98. These features would be captured at the reserved matters stage by conditions imposed on the outline permission. Certainly high quality and consistent standards of landscape management would be required across the whole site at that stage if the vision provided by the landscape strategy were to be delivered in the long term.
- 99. In summary, many of the tree losses are a direct result of the allocation of the site for development and losses cannot therefore be avoided given the nature and extent of the development as identified in the illustrative Masterplan. The Masterplan itself has evolved through pre-application negotiations and consultation, so that effects on trees are minimised with opportunities provided to plant new trees to mitigate the losses. Although the number of trees and hedgerows lost is not insignificant, they are relatively few in relation to the size and wider context of the development. In bringing forward detailed landscaping proposals however there remain matters which may require further attention.
- 100. Firstly the Barton Village Nature Area to the south east corner of the development site has good public access with the trees around its boundaries providing a pleasing backdrop to adjacent housing. This part of the site has been quarried in the past so that it has an undulating ground profile where development is likely to require extensive ground modelling and widespread removal of trees. The trees and other vegetation that grow here are not only important for visual amenity but provide a range of habitats for wildlife. Care

- should therefore be taken in the design and layout of the development at this point to ensure that effects are minimised as far as possible and mitigated by new planting.
- 101. Secondly removing, rather than re-pollarding, relatively large numbers of old crack willow pollards will have a significant effect on the appearance and character of the landscape. It also removes existing and potential habitats for wildlife which are associated with the dead and decaying wood in the boles of the trees. Officers would recommend that the management of these trees should be given more detailed consideration as part of the landscaping proposals accompanying the reserved matters applications to follow if outline planning permission is granted.
- 102. Lastly in relation to tree pits required for planting within residential streets, linking tree planting to surface water drainage systems should be explored. Planting pits can be used to intercept and store surface water runoff with the added benefit of improving the underground growth environment for street trees. It is disappointing that this possibility has not been considered in the submission.

#### Landscape Setting and Visual Impact.

103. The National Planning Policy Framework, seeks to ensure that those aspects of the historic environment that hold significance should be sustained. The guidance supporting these policies goes on to explain the importance of ensuring that there is an understanding of the significance which the historic environment holds and how it is valued to be able to assess the impacts. If impacts are predicted to be harmful then there needs to be a justification, measured in terms of public benefit to outweigh that harm, unless it can be mitigated or eliminated by design. The adopted Core Strategy and Barton Area Action Plan acknowledge that the benefits to the wider Oxford community outweigh any harm in allocating the current application site for development. The AAP does however incorporate advice and policies to ensure that the development respects the landscape, its historic and architectural characteristics, and context. The Core Strategy refers at paragraph 3.4.46:

"Whilst the comments about the area's rural character are noted, given the severe shortage of available land for development in Oxford, this is not considered to be of such intrinsic importance as to prevent any future development."

104. The historic core of Oxford sits on a gravel terrace above the surrounding floodplain. This elevates it in views from the surrounding countryside and in views across the city. The 19th and early 20th century suburbs by contrast are mostly obscured in views on lower lying land and screened by intervening vegetation. The ring of medieval villages around Oxford, mainly sited on higher ground and on spring lines, now absorbed within the city's administrative area, (and to varying degrees themselves now surrounded by suburban development), help to explain the settlement pattern of the area and their agricultural origins. These villages retain characteristics of their rural and agricultural roots and of their subsequent gentrification by 18th and 19<sup>th</sup> century businessmen from the

- city, with the development of a number of villas and other large houses set in spacious grounds. Old Headington is one such village
- 105. The views of Oxfords historic core have high significance and the viewing places also have significance for the history of the view and how it has been recorded over time. During the 20<sup>th</sup> century viewers will have witnessed a variety of changes to Oxford's setting with the development of the 20th century suburbs, (in particular its rapid post war growth associated with the car industry), the loss of some 19th century suburbs, and the development of the city's hospital and medical research facilities. These changes, a part of Oxford's history and identity, have not directly impacted on the views of the historic core, but they have changed the wider setting.
- 106. There are 10 protected view cones of Oxford, which represent a selection of the many views from surrounding hills of the dreaming spires and domes and towers, recorded in words and pictures since the 17<sup>th</sup> century. One of these views is from Elsfield, a long view down onto Oxford city centre, looking over an agricultural landscape. The application site is to the east (left) of this view located beneath Headington Hill and below the development of the John Radcliffe Hospital, which sits on the skyline. To either side of the application site are the 20th century suburban developments of New Marston, Northway and Barton.
- 107. The application site itself retains evidence of an agricultural landscape with field boundaries and hedgerows that have been in place since at least Parliamentary enclosure at the beginning of the 19<sup>th</sup> century. These fields once ran up into Old Headington, but have since been truncated by the A40, which in this section of the ring road runs in an almost straight line, ignoring the landscape structure and contours. Subsequent roadside planting has helped to screen much of the road and its traffic. In views over the site from Elsfield and the footpath network that traverse the valley side, the green and wooded nature of the backdrop to Old Headington appears almost seamless. In views over the application site from Old Headington, there is visual connection with the rural landscape, including Elsfield and the isolated farmsteads which helps understanding of the village's rural origins and Oxford's rural hinterland. The A40 is more visible and intrusive in these views however.
- 108. As a conservation area Old Headington has high significance, as does Elsfield to the north within South Oxfordshire's administrative area. The relationship of the application site to Old Headington is that it forms part of the rural setting of the village, containing physical evidence of the historic field patterns and understanding of the village's agricultural origins. Views of the village nestled in amongst the wooded hillside are possible from the footpath network leading down from Elsfield and hold aesthetic value the church, visible amongst the trees, and the Rookery (Ruskin College) visible above its walled garden and open fields. The current field pattern and hedgerows to the application site form the fore and middle ground to these views. Also in the view are the developments at Barton and Northway and the John Radcliffe Hospital, which means that the application site represents the only surviving element of the agricultural landscape immediately south of the Bayswater Brook. From within Old Headington village itself however this wider setting is generally not apparent and the character of the

village derives from the mix of cottages and houses that line the intimate network of lanes.

- 109. The planning application is accompanied by a series of technical documents examining the existing characteristics of the site and its role within this wider landscape setting. Using accepted professional and technical methodologies these studies also examine the nature of change proposed and what impacts those changes would have on the landscape character, views, heritage assets and their settings. The conclusions in those reports are broadly that the magnitude of change would be significant and the effect adverse. The degree of change is accepted, given that the site is allocated for development in adopted Core Strategy and Barton AAP and that the existing setting to the conservation area will change too.
- 110. How this change is perceived and understood will rely to a great degree on the quality and extent of the landscaping and how it is designed to integrate with the layout (rather than merely filling spaces between buildings). Of equal importance is the design and appearance of those buildings that will be visible in certain view points and how they sit within their new landscape and wider setting. From the north, Elsfield village and the surrounding footpath network, the new development will be seen within a wide landscape context. Closer to, from the footpaths surrounding the site the buildings will be larger components and will have to bear closer scrutiny. The landscaping, neither existing nor as proposed will conceal them entirely. Elsfield is a designated conservation area and Wick Farm a listed building. Whilst these are not within the city's administrative area it is worth noting that the studies accompanying the application assess the impact on these heritage assets. The impacts derive from the visibility of Oxford and its changing suburbs, as experienced in views from these locations.
- 111. Beyond the grant of any outline planning permission maintaining scrutiny and quality of delivery of development will be critical elements in the success of this new community. Vulnerable issues include:
  - the proposed dwellings in the south east corner facing towards the A40 which are proposed to be up to 3.5 storeys, though it is suggested that the majority of the houses in this part of the development are likely to be 2 to 3 storeys. This part of the site is on higher ground and development here would be more visible in views into the Old Headington Conservation Area. If all built out to the maximum 3.5 storeys they would be likely to intrude on the green backdrop of Old Headington below the church impacting on it accordingly. At any reserved matters stage this potential impact needs to be carefully assessed to avoid or minimise adverse impacts.
  - the commercial core of the development, at the lower north west end of
    the site is proposed to accommodate buildings up to 18 metres high
    with a chimney up to 26 metres high. Tall buildings in this proposed
    commercial core would result in a substantial change to the existing
    character and would threaten to add to the adverse impact of the John
    Radcliffe Hospital unless their mass is carefully articulated and
    detailed, with careful choice of building materials. This would not

- conceal these structures but should help to ensure that the impact on the view and wider landscape character is mitigated.
- the view down Meaden Hill will overlook the new at grade junction across the A.40. This is also the part of the development site where the buildings will be the tallest. The view would change substantially from what currently exists, changing the landscape characteristic and limiting longer views of the green hills beyond the application site. Highway engineering requirements for the road junction would threaten to introduce highway 'clutter' of traffic signals and signs as well as road markings into the foreground. Whilst designing a safe access is paramount, care will need to be taken to ensure signage and lighting is kept to the minimum and new landscaping introduced to soften the impact. The new view needs to provide points of interest in streetscape and greenery, and a sense of visual and physical continuity between Northway and the new development.
- 112. In summary the proposed development involves a significant change to the landscape character of the site and change to the setting of heritage assets. The degree of change has already been assessed and accepted as a part the Barton AAP process and in allocating the site for development. Some aspects of these changes need to be carefully managed through the reserved matters stage by securing high quality design and use of materials, based on an understanding of the wider context in which the site sits. National policy and advice explains that public benefits to be derived from a development are a consideration and permission can be forthcoming if those benefits outweigh the harm. There is also the potential to minimise or mitigate those impacts through design and careful use of landscaping, but this is predicated on having a robust mechanism to ensure delivery of buildings and a landscape of suitable quality. The Design Code and Parameters Plans are important guiding documents, but the standards they set out should be viewed as minima which new development should seek to match or exceed.

## **Biodiversity**

- 113. National planning policy and the City Council's own policies together provide a framework to make decisions on the impact of planning applications on biodiversity interests. The National Planning Policy Framework (NPPF) indicates that planning authorities should minimise impacts on biodiversity from new development and take the opportunity to incorporate biodiversity enhancement. There is also legislation and European directives to avoid harm to biodiversity interests and to have regard to the purpose of conservation of habitats. Moreover the Core Strategy at policy CS12 indicates that:
  - Sites of Special Scientific Interest (SSSI) must be protected from any development that would have an adverse impact;
  - no development should have a significant effect upon a Site of Local Interest for Nature Conservation (SLINC) other than in exceptional circumstances where the importance of the development outweighs the harm, and where it is possible to compensate for the damage caused by providing adequate replacement habitat; and

- species and habitats of importance for biodiversity are to be protected from harm, unless the harm can be properly mitigated.
- 114. Policy BA19 of the Barton AAP also requires that a plan for avoiding any harm to the Sidlings Copse and College Pond SSSI located 600m to the north of the development site be submitted.
- 115. The current proposals require the loss of grassland currently of County wide biodiversity value together with the removal of a significant number of trees and some hedgerows, whilst lighting, drainage and disturbance by domestic cats etc all have the potential to affect wildlife using the site. There also exists potential to impact on the Bayswater Brook Site of Local Interest for Nature Conservation (SLINC) through increased usage. In mitigation the proposals include the creation of a linear park with sustainable drainage features, grassland sown with wildflower species, and areas of scrub managed in a naturalistic way. This is supported by a commitment also to restoration and improvement works to an off-site floodplain meadow as compensation for the loss of meadows on site.
- 116. There are therefore 3 particular areas of concern addressed in the proposals:
  - loss of lowland meadow grassland;
  - potential impact on Sidlings Copse and College Pond SSSI; and
  - wildlife habitats.
- 117. Loss of Lowland Grassland Meadow. The development involves the loss of 11.5ha. of lowland grassland, (referred to as MG4 grassland), described in this case as being of County level significance. The England Biodiversity Action Plan has a policy to not reduce lowland grassland any further, and in this case a scheme of compensation is proposed by improving land off - site to the same level of biodiversity importance as that lost. The selected location must enjoy similar hydrological and soil conditions; should form part of a network of similar type communities; and be managed appropriately with long term monitoring secured. As it may take a minimum of 15 years for compensation land to attain a similar level of biodiversity interest, then a site larger than that lost should be sought. In this case a site of 11.0ha. has been identified for compensation plus an adjoining parcel of land of 4.0ha. The land is owned by the Oxford Preservation Trust and falls within the Cherwell Valley west of the River Cherwell between the Marston Ferry Road and A.40. The land is already identified as of nature conservation interest. Negotiations have already taken place with the Trust which is supportive of a scheme of compensation. A "Grampian style" planning condition is therefore suggested if permission is granted, securing the required work and future management at the applicant's expense.
- 118. Impact on Sidlings Copse and College Pond SSSI. The SSSI lies approximately 600m north of the application site and is owned and managed by Christ Church and Bucks, Berks and Oxon Wildlife Trust (BBOWT). It is a site of some 22ha. and designated due to its mosaic of habitats, including calcareous fen, broadleaved woodland scrub, reedbed, open water and acid and limestone grassland. The variety of habitats present support a wide range of over 400 plant species and fauna, including a diverse assemblage of invertebrates. Despite an expressed intention by the applicant to improve security at the site to prevent

inappropriate access, in response to public consultation both the college and BBOWT have expressed concerns that the site would become more vulnerable to damage as a possible consequence of dog fouling, trampling of plant species etc due to the presence of an enlarged residential population nearby. Currently the planting of thicket forming shrubs, new post and rail fencing, signage and regular checking and repair of boundaries as part of routine management of the site is proposed. Again a positive dialogue is under way with the college and BBOWT and it is suggested that a further Grampian style condition be imposed requiring a more detailed scheme of protective works and future management regime be brought forward and adopted.

- 119. Wildlife Habitats. The Environmental Statement accompanying the planning application uses guidance from Government and the Chartered Institute of Ecologists and Environmental Managers (CIEEM) to assess the significance of the wildlife present at the site which currently has interest for a variety of species. A badger sett is located on the land which is required to be relocated to allow the development to proceed. It is intended to close the existing sett and create a new one within the linear park. However a licence for closure and creation of a replacement sett can only be obtained from Natural England with a planning permission in place. The intention would therefore be to seek such a licence following the gaining of outline permission. In total the proposed development would include at least 6.99ha. of suitable foraging habitat on the site, compared to 5.4ha. known to be used by the current social group.
- 120. In relation to bats the survey work undertaken highlights the importance of the Bayswater Brook corridor and hedgerows orientated north - south across the site. especially towards the centre and western sectors. The survey revealed at least 9 species of bat foraging and / or commuting over the area, with the common pipistrelle the most frequently recorded. None of the survey work recorded patterns of activity indicating the presence of bat roosts on site, although the presence of transient roosts could not be ruled out. The proposed development enhances the Bayswater Brook corridor by the creation of the linear park and largely retains the hedgerows as the "greenways" within the development. Nevertheless in view of the phased nature of the development, further surveys would be undertaken periodically to ensure opportunities for roosts and for foraging are maintained. In this regard it is intended to provide bat boxes on mature trees at suitable locations along the Bayswater Brook corridor, consisting of at least 2 boxes designed specifically for hibernating bats, and 20 designed for summer use by a variety of bat species. Opportunities would also be taken to integrate bat boxes into new buildings where appropriate in line with established Core Strategy policy CS12. Details of street lighting columns, design of cowls and intensity of lighting should be considered so as to avoid spillage onto semi natural areas.
- 121. Surveys of <u>bird life</u> undertaken in 2007 recorded an assemblage of bird species typical of the habitat types present. Species recorded included bullfinch, starling, song thrush, linnet, reed bunding, marsh tit and yellowhammer. Incidental bird records collected in 2012 also included the presence of a kingfisher on one occasion, little owl on 3 occasions and a kestrel frequently hunting over the site. Overall birdlife is assessed as being of local biodiversity

significance. To accommodate future bird life following construction of the proposed development at least 40% of the hedgerow and woodland habitat would be retained. It is important however that grassed margins to the hedgerows are also included and maintained as suggested in the documentation for the benefit of all wildlife. Whilst new tree planting and landscaping would also provide new habitats for nesting, there would also be an increased threat from the domestic cats of new residents. The retention of dense shrub layers where they already occur and the creation of new dense shrubbery to provide suitable nesting habitat which is more difficult for domestic cats to penetrate is therefore suggested. Details would come forward at the reserved matters stage, but locations would include, for example, the western section of the linear park adjoining existing broad leaved woodland where public access would be more limited.

- 122. A further survey in 2012 recorded the presence of 300 terrestrial <u>invertebrate species</u> present, including a number of scarce species, particularly in the Bayswater Brook corridor and the lowland grassland area. However it is proposed to fully compensate for the loss of the lowland grassland elsewhere, as indicated above), whilst the creation of the linear parkland area along the brook would deliver a positive impact on biodiversity. Two of the invertebrate species found on site are acknowledged to be of national conservation importance. The careful management of the linear park should provide suitable habitat for them.
- 123. Also in 2012 a survey for <u>reptiles</u> recorded the presence of one species only, grass snake. One adult was recorded but also juveniles, indicating breeding activity in the area, associated with the Bayswater Brook corridor. Only a low breeding population of grass snake was therefore assessed as being present. As part of the landscaping for the development, habitats would be created designed specifically for reptiles, by the creation of uneven margins along treelines and hedgerows and wetland habitat
- 124. Overall officers are satisfied that with the full mitigation and compensation measures in place as a consequence of the creation of new MG4 lowland grassland off site, new linear park, hedgerow retention, and new tree and landscape planting that appropriate habitats would be created and maintained to ensure that the biodiversity of the locality can be maintained and enhanced.

## Archaeology.

125. An archaeological desk based assessment was undertaken for the application site in 2009. This assessed the site as having moderate potential for Neolithic and Iron Age remains based on the previous recovery of a single Neolithic Axe from within the site and the proximity and character of known Iron Age activity. The assessment also noted the potential for Anglo - Saxon remains in the south - eastern part of the site, which is located 50m from a poorly recorded Early Anglo - Saxon burial and sunken building noted during the construction of the Ring Road. The site was also assessed to have a high potential for medieval and post-medieval agricultural features. An analysis of available aerial photographs tentatively identified two features as of possible archaeological interest (features of enclosure type). The denuded remnants of ridge and furrow earthworks were also plotted. A geophysical survey was subsequently undertaken in 2011. The

survey identified a number of parallel linear anomalies in the western and central parts of the site which were interpreted as areas of former ridge and furrow. A number of possible discrete archaeological features were also noted. Subsequently in September and October 2012 an archaeological evaluation was undertaken on the accessible parts of the site, comprising the excavation of 58 trial trenches. The current sports field, the Barton nature reserve area and small areas identified as having high biodiversity value were not evaluated at this stage because of the physical and environmental constraints.

- 126. The archaeological evaluation identified a dispersed pattern of ditches, although there were concentrations of these features in the northern, central and eastern parts of the site. Neither of the features tentatively identified in the 2009 aerial survey analysis were confirmed by the trenching. The earliest identified feature was a small ditch near the site's eastern edge, from which was recovered two shards of Roman pottery. No other Roman features were encountered, although a small assemblage of residual Roman pottery was recovered from later features and deposits, indicating some activity in the vicinity during this period.
- 127. Most of the encountered archaeological remains dated to the medieval period, from the 12th to the 15th centuries. They indicate the presence of an agricultural landscape of fields, paddocks and droveways, possibly associated with the site of the putative medieval settlement to the north of Bayswater Brook. Artefactual evidence was scarce, with most of the pottery recovered from the site coming from the northern central area, to the north of the electricity substation. The evaluation also demonstrated that the site had been reorganised in the early post-medieval period, when a system of ridge and furrow ploughing was established. The earthworks associated with this system survived until relatively recently as 19th-century land drains were noted in many of the furrows, indicating that the ridges were still visible at this time.
- 128. The site also displays a number of hedgerows which meet the criteria for 'historical importance' under the 1997 Hedgerow Regulations. These are the 1802 Parliamentary enclosure boundaries and the hedge line along the length of the Bayswater Brook which marks an historic parish boundary. The 1802 boundaries represent the last coherent block of Parliamentary Enclosure within an otherwise largely developed landscape. Parameter Plan No.3 indicates that the existing trees and hedgerows within the site would be substantially retained (including the hedgerow along the brook) and would contribute to much of the underlying structure to the development, thus preserving the general character and layout of the current field pattern.
- 129. The National Planning Policy Framework states the effect of an application on the significance of a non-designated heritage asset should be taken into account in determining the application. In weighing applications that affect directly or indirectly non designated heritage assets, a balanced judgement will be required having regard to the scale of any harm or loss and the significance of the heritage asset. Where appropriate local planning authorities should require developers to record and advance understanding of the significance of any heritage assets to be lost (wholly or in part) in a manner proportionate to their importance and the impact, and to make this evidence (and any archive generated) publicly

- accessible. An appropriately worded condition to be imposed on the outline permission if granted is suggested.
- 130. The scope of the archaeological investigation will depend on the details of the reserved matters applications and the extent and character of the proposed ground works. It is likely that trial trenching will be required in the area of Barton Nature Reserve followed by further mitigation if appropriate. In addition a number of areas where a concentration of medieval features were identified may require a strip and record excavation or watching brief. Finally any substantial reworking of the Bayswater Brook channel may require targeted recording because of the potential for environmental deposits.

## Water Resources, Flooding and Drainage.

- 131. Policy BA17 of the Barton AAP requires that:

  "An on site and off site water network supply and drainage strategy must be produced by the site developer to ensure that appropriate upgrades are in place ahead of occupation of the development. Planning conditions will link the start and phased development of the site to the availability of wastewater infrastructure capacity and the capacity of receiving watercourses. Development of any phase must not result in an adverse impact on water quality or any increased risk of sewer flooding as a result of the additional wastewater flows from the development."
- 132. This policy was brought forward in the context of existing sewers surcharging at certain times in the Borrowmead Road area of Northway, south of the A.40. There are 2 related elements to drainage infrastructure which flow from the condition: foul sewerage drainage and surface water drainage.
- 133. <u>Foul Sewerage Drainage</u>. In preparation of the planning application the applicants commissioned Thames Water to undertake a foul water impact study of the network in the vicinity of the development to identify what improvements to the network would be required to accommodate the additional foul water flows from the development so as not to increase the potential for sewer surcharging in the Northway area. In doing so Thames Water undertook an extended monitoring exercise of flows in the existing system.
- 134. The main sewerage network upstream of the application site is 300mm in diameter and serves the existing Barton area fed by 255mm diameter sewers to smaller streets. From Barton the sewer runs along the line of Bayswater Brook before turning south and passing beneath the A.40 where it increases in size from 300mm to 375mm in diameter. Thames Water's assessment of the hydraulic loading of the existing foul system indicated that the 300mm diameter sewer had limited capacity; was 2m deep; and was prone to surcharging elsewhere during storm events. It would not therefore be capable of accommodating the additional flow from the new development without improvement and upgrading. In this regard the peak flow from a development consisting of 885 residential units, primary school and commercial centre was calculated at 28.12 litres per second (l/s).

- 135. In order to accommodate this increased flow Thames Water examined the possibility of a new trunk sewer or pumped solution but concluded that no suitable connection point within a practical distance was available. Any new sewer would also have to cross the A.40 incurring considerable disruption and adding significantly to costs. As a consequence a "fill and drain" attenuation system was proposed involving the installation of additional storage capacity of 1900 cu m which would store foul water flows during storm events and then pump effluent back to the existing public sewer at later date when there were capacity in the system. The attenuation system would contain two storage areas along the line of the brook, with a section of the existing on site sewer also being diverted.
- 136. Thames Water stressed that the details were indicative for this outline application stage however and would be required to be refined during detailed design. Nevertheless the Thames Water report concludes:
  - "Thames Water Utilities were commissioned to undertake a study to assess the impact of proposed development of around 1000 new homes at Barton on the foul water drainage sewer network from the site and through the surrounding area; and identify potential solutions that would not be detrimental to the local area or increase the incidence of localised flooding. As part of the study Thames Water carried out flow monitoring of the existing sewers in the area to feed into the modelling of the sewer network. The study has identified a single deliverable solution to accommodate the additional development foul water flows. The solution is to provide underground foul water storage that will retain sewage on site during periods of heavy rainfall when the existing network is at capacity and discharges at a controlled rate during dry periods when capacity is available in the network."
- 137. On this basis officers have accepted that a foul system to accommodate the new development can be provided without causing additional capacity problems elsewhere. Subject to a condition requiring details of the attenuation system to be approved by the City Council as local planning authority in consultation with Thames Water the foul system proposed is accepted in principle.
- 138. Surface Water Drainage. The application site slopes from a high point of 92.8m AOD in the south east corner to a low point of 62.15m AOD adjacent to the Bayswater Brook. Although a foul water sewer runs along the northern side of the side parallel to Bayswater Brook, there are no surface water sewers crossing the land. Nor does any part of the site fall within Flood Zone 3b,(ie functional floodplain where water has to flow or be stored in times of flood), though a small area measuring 3ha. (or 8% of the development site) falls within Flood Zone 3a where there is a high probability of flooding. No building works are proposed within this area. The site has not been affected by recent flood events in Oxford, and it is accepted that in flooding terms the development is located at a "sequentially preferable" site in terms of the technical guidance to the NPPF.

- 139. That technical guidance recommends allowance be made in drainage schemes for new development for a 30% increase in peak rainfall intensity up to the year 2115. The planning application seeks to achieve this requirement with a sustainable drainage strategy (SUDs) based on a typical lifetime for commercial development of 60 years, and for residential accommodation of 100m years, and which mimics natural catchment processes as much as possible given the constraints of the application site.
- 140. Ground conditions are such that groundwater levels are high across the site ranging from 0.04m to 9.51m below ground level which means that direct infiltration of surface water would not be possible as this could lead to a future flood risk. Instead the surface water strategy is based on a single catchment discharging into the Bayswater Brook, but at a controlled rate to avoid flooding. This is achieved by permeable surfacing being incorporated into all parking areas, private courtyards etc, conveying surface water via swales and cascaded attenuation facilities to the brook.
- 141. Essentially the system consists of two underground storage facilities located beneath the recreation ground, each with a volume of 1,770 cu m and situated outside the agreed fluvial 1 in 100 year flood level associated with the Bayswater Brook in order to avoid loss of attenuation storage during flood conditions. Two smaller attenuation features of 170 cu m and 175 cu m are also provided elsewhere. From these facilities water would be released at a controlled rate into balancing ponds along the line of the Bayswater Brook which would form landscaped features of the linear park. From here water would in turn be released into the Bayswater Brook at a controlled rate. The balancing ponds would be lined to prevent ingress of groundwater which would reduce their capacity.
- 142. Other features of the sustainable drainage strategy include green roofs to the retail and commercial buildings, plus school building if possible; filter strips and swales; geocellular storage; and rainwater harvesting. It is intended to include water butts to all residential properties for irrigation, and similarly to utilise water in storage facilities for irrigating the recreation ground.
- 143. Overall the strategy is designed to meet the 1 in 100 year plus 30% for climate change criteria, but would not utilise existing drainage ditches across the site as these already convey flows from off site third party land into the Bayswater Brook. The proposed sustainable drainage strategy would also reduce flood risk to existing local residents, creating a minor positive effect.
- 144. The Environment Agency accepts the strategy proposed to address surface water drainage and raises no objection to the planning application subject to the development being carried out in accordance with the principles embodied in the Flood Risk Assessment (FRA) accompanying the planning application, in particular that:
  - no building is permitted within the 1 in 100 year plus 30% for climate change flood extent;
  - finished floor levels should be no lower than 450mm above the 100 year plus 30% for climate change level;

- surface water catchment control features should be located outside the 1in 100 year plus 30% for climate change extent;
- outfalls and storage arrangements to be tested at design stage;
- there should be limited and specified rates and volumes of surface water run off only, as indicated in the FRA;
- details to be submitted of how contamination risks are to be mitigated.
- 145. Conditions to the planning permission would capture these requirements, and officers are therefore able to support the surface water strategy accordingly.

## Sustainability and Energy.

- 146. In the event of outline planning permission being granted, followed by a series for reserved matters permissions, then it is anticipated that the development would be constructed over a period of years commencing in 2014, with a likely completion date of 2019. During that period the Building Regulations will become increasingly challenging in terms of energy and other requirements. In the period between 2014 and 2016 the residential elements of the development will be required to meet Part L1A 2013 of the Building Regulations. At the time of writing the 2013 Regulations had not come into force but are likely to require achieving either an 8% or 25% aggregate reduction in regulated carbon emissions across developments compared to the 2010 standard, and to also include minimum Fabric Energy Efficiency Standards (FEES). The FEE standard represents the maximum allowable amount of energy used to heat and cool the dwelling per metre squared of the dwelling's area. The 2013 Regulations are in turn planned to be replaced in 2016 by Part L1A 2016 which will also require the achievement of "carbon" compliance" to meet "zero carbon" standards.
- 147. For non domestic buildings, Part L2A 2010 of the Building Regulations apply, again to be replaced shortly by Part L2A 2013. The new Part L2A is expected to require either an 11% or 20% reduction in aggregate carbon emissions beyond 2013 compared to the 2010 requirement, with a Government aim of achieving zero carbon standards for all non domestic buildings from 2019. This approach is consistent with the NPPF which, inter alia, states that in order to support the move to a low carbon future, local planning authorities should:
  - "when setting any local requirement for a building's sustainability, do so in a way consistent with the Government's zero carbon buildings policy and adopt nationally described standards."
- 148. In addition to the Building Regulations and NPPF, at the local planning level policy CS9 of the Core Strategy requires the submission of a Natural Resource Impact Analysis (NRIA) which in turn requires a checklist of measures to be submitted and a minimum score achieved in each of 4 separate categories: energy efficiency, renewable energy, materials and water resources. In addition policy BA12 of the Barton AAP requires that the outline planning application demonstrates how the development would optimise energy efficiency by minimising the use of energy through design,

layout, orientation, landscaping and materials and by utilising renewable and /or low carbon technologies. A full NRIA for each phase of development would only be possible at the reserved matters stage however with the production of detailed designs.

- 149. In responding to the NRIA requirement to provide 20% renewable energy on site the supporting documentation to the planning application refers to a district heating system for the residential elements of the development having been considered but ruled out on the basis of the additional cost to be borne by individual householders, including those occupying the 40% affordable properties. Other solutions to meet the 20% requirement were also considered, including the use of solar thermal hot water heating systems and air source heat pumps. Neither alone would achieve the 20% on site renewable target however. The favoured solution for the residential development is therefore proposed to be a standalone one consisting of high efficiency condensing boilers together with photovoltaics (PV) to all roofs. The overall design and layout of the development as suggested in the illustrative Masterplan is conducive to such an approach. PVs would not only provide a significant amount of electricity with low running costs but would also be technically simple to install, and was a solution favoured at the development forum during the public consultation phase prior to submission of the planning application.
- 150. Whilst the applicant's position is noted, and the use of photovoltaics and condensing boilers welcomed. Officers would wish to maintain a dialogue to explore the potential still for the inclusion of a district heating system and not rule it out at this stage. A condition is suggested requiring that a district heating system should be brought forward to serve the development unless there are cogent and persuasive arguments justifying that it be set aside in favour of alternative approaches to the use of energy. Indeed for the commercial centre a combined heat and power (CHP) system is proposed with sufficient thermal storage to provide approximately 50% of the hot water heating load. The potential may exist to extend that CHP system to the residential flats within the same block of accommodation and / or the hotel if that were included. The primary school is indicated to be too far from the commercial centre to be served by that CHP system and a standalone biomass boiler system is proposed instead to achieve the 20% renewable requirement on site. Again Officers recommend that the energy requirements for the school should be met through the district heating system unless it can be fully justified that it is not appropriate.
- 151. As a footnote to the suggested approach to on site renewables, the policy requirement of 20% provision of energy needs refers to the total energy associated with development proposals. The Energy Statement submitted with the planning application refers only to regulated energy use and therefore excludes the energy required for plug-in appliances for such uses as cooking, washing clothes and entertainment for example. When the full NRIAs are submitted alongside the reserved matters applications, it will be expected that total energy use will be the criterion adopted. As with a potential district heating system, any departure from such an approach would require the fullest

justification. In any event a full NRIA will be required to accompany the reserved matters application, and to include measures relating the full range of issues identified in the NRIA SPD. Attached as **Appendix 9** is the applicant's response at this stage as to how the range of NRIA requirements would be addressed.

### **Environmental Statement.**

- 152. The planning application is supported by an Environmental Statement (ES), which considers the likely environmental effects of the development and proposes, where necessary, measures to mitigate any adverse effects that might arise. The ES is necessary because paragraph 10(b) of Schedule 2 of the Town and Country Planning (Environmental Impact Assessment)(England and Wales) Regulations 2011 will normally require an Environmental Impact Assessment (EIA) to be undertaken for any mixed use urban development project in excess of 0.5 ha. The EIA is an important procedure for ensuring that the likely effects of a new development on the environment are understood and taken into account before development is allowed to go ahead. Where the ES reveals that a project will have an adverse impact on the environment, it does not follow that planning permission must be refused however. It is for the local planning authority as decision maker to determine each planning application on its merits within the context of the development plan, taking account of all material considerations, including environmental impacts.
- 153. As part of the EIA process the applicant prepared a "Scoping Report" that indicated the range of topics that it was intended to consider in the ES. This was sent to the Council as local planning authority with a formal request for the local planning authority's "Scoping Opinion" under Regulation 13 of the EIA Regulations. It's response (its "Scoping Opinion"), (which is informed by the comments of various statutory bodies who were consulted by the local planning authority), largely concurred with the scope of the applicant's intended assessment but highlighted the topics that, in the local planning authority's opinion, particular attention should be paid to.
- 154. The EIA Regulations indicate that where an EIA is required, information must be provided by the developer in an ES. The ES must contain the information specified by Regulation 2(1) and in Schedule 4 to the Regulations. The advice of the Secretary of State is that local planning authorities should satisfy themselves that submitted ESs contain the information specified in Schedule 4. In this context the ES has been critically reviewed by Officers using criteria that are intended to test whether an ES contains the requisite information required by the EIA Regulations. Of particular interest in relation to the ES in this case are requirements to protect the local environment as far as is practical during the construction period, as well as transport issues and matters relating to sustainability, drainage and the water environment, biodiversity, landscaping, public realm etc. Some of these matters are also considered in the preceding text.
- **155.** Attached as **Appendix 10** is a summary of the environmental impacts of the development. It provides a description of the key impacts that have been predicted for each topic area; outlines the mitigation measures proposed;

identifies the significance of the residual impacts; and provides a short officer commentary. Impacts can be adverse, neutral or beneficial and their significance will depend upon their magnitude and the sensitivity of the receiving environment (or receptor) to change. The criteria that are used to categorise the significance of impacts vary according to the nature of the topic being assessed and on occasions they may include subjective judgements about the baseline situation and the magnitude and significance of predicted impacts.

### Other Matters.

- 156. Employment Opportunities. The AAP indicates that that the City Council will use planning conditions to ensure that local people and businesses benefit from the opportunities that are generated by the new development. The planning application includes an assessment of the likely socio economic benefits resulting from the development. It forecasts that the proposed development would generate some 12 full time equivalent (FTE) construction jobs at the anticipated commencement of the development in 2014, rising to 109 FTE nearing completion in 2019. The Barton Oxford LLP has also agreed to explore potential links to education and community training through the development of an Employment and Skills Plan. This would specify the provision of training to improve vocational and employability skills and would involve the LLP itself, contractors and future occupiers to deliver new jobs and business opportunities. A condition is suggested accordingly. In addition, procurement of contracts for the new development will promote local businesses for each phase of the development. A further condition is suggested.
- 157. In terms of direct employment generated from the new development it is forecast that the anticipated end population of 2,495 would give rise to the creation of an estimated 208 FTE jobs. For example some 82 jobs are estimated to be created at the proposed supermarket and 30 at the primary school with others at the other commercial outlets and hotel if that proceeds. A large proportion of the new employment is anticipated to come from the new development itself or wider local area. The new employment created is considered to represent a significant beneficial effect of the development for the local area.
- 158. Construction. If permitted the development would be subject to Construction Environmental Management Plan (CEMP) which would address issues such as working hours, signage, site hoardings, piling methods, earthworks, routing arrangements, arrival and departure times for construction vehicles, control of dust and emissions, vibration, materials storage, waste management etc. It would need to fully comply with British Standard BS5228: Noise and Vibration, which would require, for example, equipment and vehicles to be shut down when not it use; semi static equipment to be located as far as possible away from noise sensitive areas; mains electricity to be used rather than generators wherever possible; and cutting or other noisy operations undertaken through off site fabrication wherever possible. Piling where required should be by the less intrusive bored method such as the Flight Auger method.

- 159. During construction there would be various site clearance operations which would have the potential to create dust or other emissions. The impact of these operations would be minimised by, for example, vehicles carrying loose aggregates being covered; completed earthworks being covered and vegetated as soon as possible; windbreak netting or screening erected around material stores where appropriate; material stockpiles being dampened during dry weather conditions using water sprays; use of dust suppressed tools; and not permitting unauthorised burning of materials anywhere on site.
- 160. The CEMP will be required as a condition of planning permission, with principal contractors and plot developers also registering with the Considerate Contractors Scheme.
- 161. Lastly it is intended that construction traffic access to the site would enter via a temporary access junction directly off the eastbound carriageway of the A.40 close to the existing electricity sub station, with the routing of vehicles not permitted to pass through sensitive areas such as residential streets.
- 162. Air Quality. Oxford was declared an Air Quality Management Area in 2010, which includes the current application site. The main influence on local air quality at the application site is emissions from road traffic using the local road network, especially the A.40 adjacent to the site and the A.420 London Road which lies between 800m and 1400m to the south. The main pollutants of concern for road traffic sources in this case are nitrogen dioxide and carbon monoxide. The City Council currently monitor concentrations of nitrogen oxide at a number of key locations in and around the Green Road roundabout approximately 800m from the application site at its closest point. These are at Roundway, Green Road, and Lydia Close. Analysis of results indicates that measured roadside concentrations at these locations are close to or above the statutory objective level with an upward trend from 2008 to 2012 but decrease in 2012.
- 163. The Environmental Statement accompanying the planning application predicts annual mean levels of concentrations of nitrogen dioxide particulates at 79 relevant sensitive locations assuming the following transport measures are in place, as discussed earlier in this report:
  - conversion of Marston Road mini roundabouts to traffic signal controlled junction;
  - amended lane markings and signal timings at Green Road roundabout;
  - new / extended bus services into the new development;
  - reduction in speed limits on the A.40 to 50mph between Green Road and the Marsh Lane junction; and
  - travel plan measures.
- 164. With these in place, on completion of the development the quantitative assessment indicates that concentrations of nitrogen dioxide and airborne particulates would decrease at all assessment points in and around the application site to a level well below the national air quality objective, creating

- a permanent, direct, long term beneficial effect on local air quality. This is primarily due to the reduction in speeds on the A.40 from 70mph to 50mph between Green Road roundabout and the Marsh Lane junction, alongside the other transport and Travel Plan measures proposed.
- 165. It is suggested that a condition be imposed accordingly requiring the applicant to undertake a scheme of additional air quality monitoring upon completion of each phase of development.
- 166. Noise Attenuation. The noise climate relating to the application site is dominated by road traffic, especially from the A.40, although noise from the sub station can also be heard from close proximity. Noise monitoring was carried out at a number of locations across the site in November 2011. From this mapping software was used to zone the site according to environmental noise exposure categories (NEC), using those suggested in the former Planning Policy Guidance Note 24 (PPG 24) which specified noise levels for each category:
  - NEC A Noise need not be considered as a determining factor in granting planning permission, although the noise level at the high end of the category should not be regarded as a desirable level.
  - NEC B Noise should be taken into account when determining planning applications and where appropriate conditions imposed to ensure an adequate level of protection against noise;
  - NEC C Planning permission should not normally be granted. Where it
    is considered that permission should be given, (for example because
    there are no quieter sites available), conditions should be imposed to
    ensure a commensurate level of protection against noise.
  - NEC D Planning permission should normally be refused.
- 167. The findings indicated that during daytime conditions the majority of the site fell within categories A or B with only a strip of land along the A.40 and a small enclave adjacent to the sub station within category C. Under night time conditions category B extended to cover most of the site with no part of the development within category A and the strip along the A.40 and at the sub station within a marginally extended category C. At no time was any of the application site within category D.
- 168. These findings assume a maximum speed limit on the A.40 of 50mph, and are based on an open site. In reality however the majority of buildings would be screened by those closest to the A.40, reducing noise levels elsewhere accordingly, and no buildings would be constructed within a minimum of 25m of the A.40.
- 169. For buildings within category A no additional noise mitigation is considered to be necessary by the applicants. For dwellings falling within categories B and C it is suggested that various design solutions are considered such as orientation of properties, (especially those closest to the A.40), so that rear gardens are screened by the buildings themselves; arrangement of the internal layout such that the less noise sensitive rooms (bathrooms, kitchens etc) overlook the noise source; and sound insulation by double glazing etc is

fully incorporated. The internal noise levels would aim to meet the following targets:

- night time internal (bedrooms): 30 dB LAeq 8 hr.
- daytime internal (living rooms): 35 dB LAeq 16 hr.
- 170. This approach is supported by Environmental Development colleagues subject to the imposition of a condition which requires the submission of a detailed noise mitigation scheme to protect the development from noise emanating from the A.40 and from the sub station. This should be subject to verification on completion of each phase of development to ensure the measures are successful.
- 171. Contamination. Whilst the application site is predominantly agricultural there is also a large electricity sub station central to the site plus derelict farm buildings and most significantly an area of landfill at the existing recreation ground. The landfill here extends to up to 4m in places. The land in this area was raised from natural ground level in 1951 using inert, semi inert and biodegradable waste materials which was subsequently levelled, covered with topsoil and completed as the recreation ground in 1958. The Environmental Statement accompanying the planning application has identified that parts of the site are impacted by contamination, including elevated concentrations of metals. Localised hotspots of organic contaminants were also noted. Small areas of made ground also exist west of the sub station and to the south east corner of the development site off Harolde Close.
- 172. Overall contamination was found in the groundwater and soil, and gas recorded. As the initial stages of a phased risk assessment have already been undertaken then a planning condition is required to secure its completion with details of remediation, subsequent verification and validation and long term monitoring supplied in due course. A further condition is recommended to impose long term controls through the removal of permitted development rights to control any development involving groundworks within the landfill areas.
- 173. Waste. Using Building Research Establishment (BRE) indicators, it is estimated that a development consisting of 885 residential units, commercial centre, recreation land, primary school and other works would generate a total of 15,305 tonnes of construction waste which would require management throughout the construction period. The largest elements would be packaging (25%) and timber / wood (19%). Waste would be located away from sensitive areas with colour coded skips to segregate different types of waste. Hazardous waste would be stored in secure bunded compounds in appropriate containers, as would any fuels, oils or chemicals. Best practice would be aimed for by adopting the following targets:
  - at least 85% of non hazardous construction waste to be diverted from landfill for re use or recycling;
  - not more than 9 sq m construction waste per 100 sq m of residential use;
  - not more than 6.2 sq m of construction waste per 100 sq m of commercial and retail uses;

- not more than 8.3 sq m of construction waste per 100 sq m of educational uses; and
- not more than 9.3 sq m of construction waste per 100 sq m of commercial office uses.
- 174. Public Art. A public art strategy is required of the development in line with established planning policy requirements for major developments. The strategy would form the framework from which individual projects would emerge which could, for example, be in the form of specific pieces at landmark locations; projects involving the local community and / or school; or linked elements such as a country park trail through the linear park. They would be intended to form an integral part of the townscape of the development, to integrate with the public realm and landscaping.
- 175. The strategy would be required by planning condition, developed by an artist appointed by the Barton LLP. Development and implementation of the public art strategy would be carried out in consultation with the City Council.

#### Conclusion.

- 176. The proposals represent a major urban extension to the built up area of the city, responding positively to the urgent need for additional housing and supporting facilities, and to the objectives set out in the Barton AAP. At the head of this report those objectives were listed and are returned to now, as follows.
- 177. Deliver a strong and balanced community. The proposals comply with the AAP policies on housing types, size and tenure to provide a good mix of housing for different needs, whilst the community hub will provide the required primary school facilities and flexible spaces for a range of community uses. In addition, with the creation of linked formal and informal public open spaces a network of public routes would exist, facilitating walking and cycling within the site (and beyond), encouraging healthy living. The retail provision proposed is of a scale in line with that of the AAP policies, being complementary to existing facilities rather than competing with them.
- 178. Bring wider regeneration of neighbouring estates. The proposals include improvements to cycle and pedestrian access between Barton and the rest of Oxford and make provision for bus services through the site and improved bus services to the wider community. The development would also include new community facilities available to the wider local populace. The scale of the development project and commitment to local jobs and training would offer local people new economic opportunities, providing it is allied to other projects and schemes.
- 179. Improve accessibility and integration. The Design Code sets a framework to ensure that the new neighbourhood is legible and walkable, offering comfortable and safe opportunities to walk and cycle. The proposals also include a new at grade vehicular access from the ring road and a new link for pedestrians, cyclists and emergency vehicles across the ring road to Northway, the John Radcliffe Hospital and city beyond. The existing underpass would be improved, with the

potential existing for future connections to the Headington area south of the A.40. The indicative Masterplan shows how the new housing along the primary street extending through to the junction with Fettiplace Road and facing onto Barton Village Road could be provided, integrating it with the existing Barton community. In this regard the Design Code demonstrates how the development can be designed to face outwards towards neighbouring areas to help with the sense of integration.

- 180. Encourage a low carbon lifestyles. The combination of providing attractive walking and cycling options and building properties to be energy efficient and use renewable energy brings with it the potential for new residents to lead a more low carbon lifestyle. In addition, new bus routes and relatively modest car parking levels and requirement for Travel Plans can help to encourage alternative modes of travel to the private car. The built environment can only ever play a part in changing lifestyles, but the measures included in the proposals go some way to assist with the objective.
- 181. <u>Introduce design that is responsive and innovative</u>. The indicative Masterplan shows the creation of 3 distinctive neighbourhoods within the site ranging from higher density mixed use at the commercial centre to the west, through medium density residential development in the centre of the site, to lower density residential development with the primary school / community hub at the Barton edge of the site. Overlaying this structure is a green network of spaces that also include sustainable drainage systems.
- 182. Overall therefore the proposed development has the potential to respond positively at the reserved matters stage to the challenges set for it in the Barton AAP. The intention would be to build out the development over a period of years commencing at the western end of the site. Although all the details of the development are not known at this outline stage, a clear framework is established by the Parameter Plans, Design Code, planning conditions and accompanying legal agreement for a series of successful reserved matters applications to follow in due course. These controls will ensure that the development is of an appropriate quality and provides facilities for a new and expanded community to grow and evolve.
- 183. It is regretted that greater connectivity across the A.40 could not be achieved as part of these proposals but the potential exists for future connections, with the new access to Northway accommodating new and extended bus services to facilitate integration with the wider Oxford community. Landscaping to mitigate trees lost to construction is provided for; issues relating to any potential for flooding and drainage addressed; and impacts on archaeology, biodiversity and other environmental considerations in hand. A minimum of 40% of all residential units would be affordable accommodation to rent and distributed across the site.
- **184.** Committee is recommended to support the proposals accordingly.

## **Human Rights Act 1998**

Officers have considered the Human Rights Act 1998 in reaching a recommendation to grant planning permission, subject to conditions and an accompanying legal agreement. Officers have considered the potential interference with the rights of the owners/occupiers of surrounding properties under Article 8 and/or Article 1 of the First Protocol of the Act and consider that it is proportionate.

Officers have also considered the interference with the human rights of the applicant under Article 8 and/or Article 1 of the First Protocol caused by imposing conditions. Officers consider that the conditions are necessary to protect the rights and freedoms of others and to control the use of property in accordance with the general interest. The interference is therefore justifiable and proportionate.

### Section 17 of the Crime and Disorder Act 1998

Officers have considered, with due regard, the likely effect of the proposal on the need to reduce crime and disorder as part of the determination of this application, in accordance with section 17 of the Crime and Disorder Act 1998. In reaching a recommendation to grant planning permission with an accompanying legal agreement, officers consider that the proposal will not undermine crime prevention or the promotion of community safety.

Background Papers: Application 13/01383/OUT

**Contact Officer:** Murray Hancock

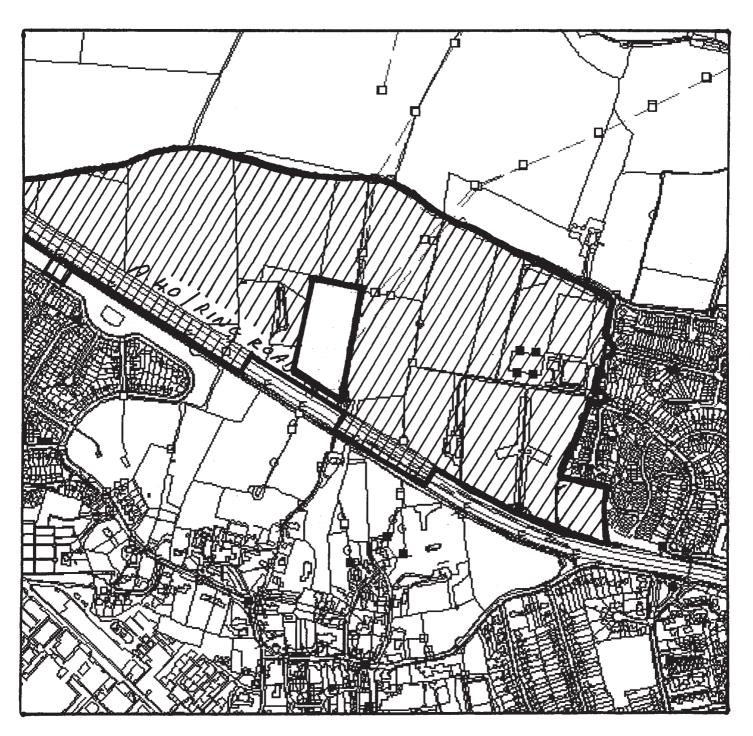
Extension: 2153

Date: 30<sup>th</sup> August 2013

# Appendix 1

13/01383/OUT - Land West Of Barton





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# Appendix 2:

Public Consultation: Summary of Comments Received.

# Consultation Undertaken by Applicant.

During the course of 2012 and prior to the submission of the planning application the applicant undertook a comprehensive programme of public consultation and community involvement. Over the course of the year this consisted of press releases, the establishment of a website and public engagement in the form of public exhibitions and drop in sessions at Barton and Northway, and a mail out to 3,000 people in those areas. At the same time a programme of stakeholder events was also under way involving regular project team meetings, workshops, member briefings and a symposium. On 4<sup>th</sup> May 2012 the Berkshire, Oxfordshire, Buckinghamshire and Milton Keynes Design Panel Network (BPBMK) considered the emerging Masterplan at that stage.

The outcome of the consultation process was fully reported with the planning application documents and summarised as **Appendix 3** is the applicants' response to the points raised. The comments of the BOBMK group are attached as **Appendix 4**.

# OCC Consultation on Receipt of Planning Application.

# **Statutory and Other Organisations.**

Oxfordshire County Council - School Provision: 1.5 form primary school entry extended to 2 form entry agreed; amendments to projected layout of primary school suggested; community space within primary school agreed; financial contribution to secondary education to be secured by S.106 agreement.

County Council - Transport and Highways: Access from A.40 at Northway agreed for buses and emergency vehicles only plus cyclists and pedestrians; in principle layout of junction acceptable subject to detailing; bus link may not be deliverable if Town Green application successful; with mitigation additional traffic movements can be accommodated; key mitigation measures are traffic signal control at Marsh lane / Cherwell Drive / Marston Road / Headley Way junction, enhancements at Green Road roundabout including road markings and enhancement to bus services; agreement in principle to 50 MPH speed limit to A.40; alterations to other highways required; Controlled Parking Zone (CPZ) supported; detailed amendments to Design Code required (eg relating to bus stops, bus shelters, lighting at bus shelters, traffic calming; surface water drainage; tree species; location of bin storage, size of garages, levels of parking provision, location f car parking etc).

<u>County Council - Rights of Way</u>: Support footbridge across Bayswater Brook to footpath leading to Elsfield; would welcome wider package of measures and improvements to footpath along Bayswater Brook.

County Council - Non Highways Drainage: Overall approach acceptable.

<u>County Council: Waste</u>: Use of recycled aggregates and management of waste adequately addressed; condition suggested for management of excavated waste.

<u>Environment Agency</u>: No objection to application as submitted; suggests various conditions relating to development being in accordance with the Flood Risk Assessment (FRA) submitted; details of surface water drainage to be submitted; details of contamination and its remediation and subsequent verification to be submitted; 8m buffer zone to Boundary Brook required.

<u>Thames Water</u>: Details of on and off site drainage works to be submitted and approved in consultation with Thames Water.

<u>English Heritage</u>: A number of views from Old Headington Conservation Area and Stoke Place bridleway are of significance in conservation terms; development visible from Stoke Place in particular; rural setting compromised and some harm caused; however this would be limited with mitigation from existing tree coverage; rural land within conservation area would remain intact; massing and layout of development would minimise visual impact on views out of conservation area as far as possible; impact on conservation area therefore minor negative; public benefits justify harm.

Natural England: Not likely to have adverse effect on Sidleys Copse and College Pond Site of Special Scientific Interest (SSSI) subject to mitigation including open space and greenways; support compensation for loss of lowland meadow grassland but concerned that replacement area should be larger than that lost; no objection in terms of protected species, but local planning authority should assess adequacy of surveys submitted; planning authority should also assess other possible impacts.;

Thames Valley Police Crime Prevention Officer: Do not object; development to be in accordance with Secured by Design principles; all properties should have zone of defensible space; landscaping and lighting details to be brought forward together; advise against bollard lighting; uplighters to be avoided; some concern regarding location of play areas; no details of youth provision; need to avoid conflicts between uses within commercial centre; welcome upgrading of existing underpass; need to control future features to main street such as roller shutters etc; suggest restrictions on height of landscaping features to front and side of plots; street furniture should be robust and deter antisocial activity; cycle parking to be secure; would wish to make recommendations on traffic speeds; 20 MPH speed limit throughout estate and during construction; provision to be made for safety camera a system; link to Northway needs to include technology to ensure bus /emergency use only.

<u>Sport England</u>: Applicant needs to demonstrate facilities would be equivalent or better in quality and quantity, and subject to equivalent or better management; information not provided as drawings illustrative only and not possible to assess if facilities better in quality and quantity; location adjacent to primary school and dual use both welcomed; unable to support due to lack of information; therefore object to proposals.

<u>Scottish and Southern Energy (SSE)</u>: Clear policy required for diversion of 11,000 volt and 33,000 volt power lines underground to meet requirements of development; no objection to application subject to condition requiring contractual undertaking in respect of rerouting.

Old Marston Parish Council: Object; concerned at amount of traffic generated through Old Marston village and Marsh Lane.

## Third Parties.

Oxfordshire Green Party: Various objections to the Barton AAP but these were not taken on board by Inspector - loss of nature park; level of affordable housing at 40%; inadequate public open space; concerned about density and garden space; too close to A.40 resulting in air pollution and noise; loss of greenery to central reservation of A.40 and at Foxwell Drive. Application cannot be objected to these grounds therefore but other concerns nevertheless: question the need for a hotel; concerned at density and height of buildings - heights should be reduced; not convinced there would be a 76% - 24% split of houses to flats; no indication of what would happen if Town Green application for Foxwell Drive were successful; concerned about food crops in extended allotments being grown so close to A.40; details of form and extent of foul drainage needed; photovoltaics and solar thermal provision should be extended.

Berks. Bucks and Oxon Wildlife Trusts (BBOWT: Insufficient mitigation proposed to ensure no damage to Sidlings Copse and College Pond Site of Special Scientific Interest (SSSI) due to potential increased recreational pressures, in particular from uncontrolled dogs and antisocial behaviour; possible insufficient off - site compensation for loss of lowland meadow; not clear who would maintain fencing at SSSI; mitigation should be undertaken to improve potential habitats for water voles.

Northway Residents Association: Object to size of development, damage to environment and intrusion of access into Northway; will harm; landscapes and habitats; increase pressures on drainage and other services; loss of greenery; additional noise and pollution; possible damage to parked cars; through traffic not acceptable: potential for flooding.

Friends of Old Headington: Support level of affordable housing; welcome creation of new semi rural neighbourhood; linear park imaginative; need to minimise reflection from photovoltaic panels; may not meet Core Strategy requirements on open space; pocket parks may be too small; welcome primary school but concerned that existing secondary facilities and doctors' surgeries would be sufficient; lack of public house is a missed opportunity; not clear what mixed use means in terms of commercial centre; spine road may become a rat run - traffic calming required; safety risks to spine road; landscaping to central reservation of A.40 should be retained; some properties too close to A.40; how would 50 MPH speed limit on A.40 be enforced; may be harm to Northway from traffic via new access; routing of buses from new access through Northway not clear - needs to be clear and prevent other traffic; concerned about potential for flooding; height of buildings at gateway entrance not acceptable and will be visible from Old Headington; views in and out of Old Headington need to be respected.

County Councillor Roz Smith: Concerned about impact on traffic at green Road roundabout; potential pressure on secondary school provision; integration with Marston, Risinghurst and existing Barton areas.

County Councillor Anne Purse: Will worsen conditions at Green Road roundabout; better solution than adjusted line markings at roundabout required; pollution from queuing traffic; will result in diversion of traffic through surrounding villages.

West Oxfordshire District Council: Welcomes substantial new housing development; need to consider impact on A.40 and junctions to absorb additional traffic - any development which slowed or restricted traffic movements would be a concern; City council should seek advice of Local Enterprise Partnership (LEP) on economic implications of development and attractiveness for inward investment; highway modelling should extend beyond 2019 and consider cumulative impacts; assumptions about car ownership are optimistic; query what measures would be taken if traffic modelling proves to be incorrect; question whether there is a case for measures to ease traffic congestion at Wolvercote roundabout; would have concerns about any future at grade crossings of A.40; concerned that development should not extend westwards and conflict with environmental constraints.

Gerald Eve on Behalf of Christ Church: Any enhanced access to countryside needs to be fully managed and agreed so that use of land as farmland is not compromised; Christ Church interested in exploring potential opportunities to work with Council to bring forward land to serve and support Barton in long term; appropriate measures to protect SSSI need to be agreed (secured by S.106 agreement), and in place to prevent unauthorised access and issues of dog fouling, litter, trampling of habitats; disturbance to livestock etc; linear park will not necessarily be preferred route for short walks; concerned at adequacy of proposed new junction in terms of safety and delays; traffic implications on surrounding villages not assessed - traffic to Woodeaton would increase, leading to rat running through Elsfield.

#### Individual Comments.

Main points raised:-

- difficult / inappropriate access;
- increased traffic generation;
- increased flood risk:
- impact on ecology and biodiversity;
- concerns relating to public transport infrastructure;
- there should be no access to the development through the existing Barton estate;
- would welcome the reintroduction of a post office;
- taxis and private hire vehicles should be excluded from use of new junction;
- bus services may be required from A.40;
- Foxwell Drive unsuitable for buses and heavy vehicles;
- too little information with application;
- significant investment in public transport and cycling facilities required;
- Green Road roundabout already overloaded;
- no details of how car club would operate;
- more local facilities required in development;
- increased air pollution;
- · cycling times inaccurate;
- better bus links with other residential areas required;
- half hourly bus frequency not sufficient;
- no detail of population breakdown;
- no additional capacity on A.40 or feeder roads;
- majority of journeys would be by car;
- insufficient outdoor and community space;

- impact on Old Headington Conservation Area not assessed;
- transport and travel framework inadequate;
- · no dedicated youth facilities provided;
- would increase rat running through Old Headington;
- public house should be provided;
- pedestrian routes not adequately addressed;
- · increased noise generation;
- secondary school pupil should be directed to Cherwell not Cheney School;
- emerging design of primary school inappropriate;
- · control of lighting required;
- plans themselves look exciting;

In addition three separate petitions have been received from residents in the Northway and Marston areas, two via <u>Councillor Haines</u>. A petition of 582 signatures is concerned regarding the additional traffic in the Marston area and "rat running" through Old Marston Village, whilst a second of 935 signatures relates to concerns about flooding and sewage issues in Marston and Old Marston. The third petition of 66 signatures suggests that the proposals are in breach of various regulations, and also raises issues concerning the suitability of the road network in Northway to safely accommodate the additional traffic.

<u>NB</u>: Comments received which relate to matters outwith the planning process such as references to land ownership, covenants, potential Town Green status etc have not been included in the above summary.

## Outcomes of the consultation 5 process

- This section provides a summary of the consultation responses acquired during both the summer and autumn public 5.1 and stakeholder engagement events outlined above. This section also highlights the ways in which the Proposed Development was revised to take account of these responses and issues raised.
- Detailed responses from each of the consultation events are contained in the Appendices to this Statement. 5.2

#### **Summer 2012 Consultation Events**

The following table provides a summary of the key issues raised by members of the public and other stakeholder groups 5.3 during the summer 2012 consultation events, and outlines how the design of the Proposed Development was revised in response to these.

Issue	Proposed Development Response
Principle of development  Concerns regarding the number of new homes proposed – some residents queried whether these are really needed?	The principle for development and the need for homes in this location has been established through a range of planning policy documents since its designation as safeguarded land in Policy NE.3 of the Oxford Local Plan 2011 – 2016. The Proposed Development has been revised to provide flexibility to future developers to provide lower density development in certain areas of the site.
Design and Layout	Lu
Concern regarding the higher density residential development proposed in some areas of the masterplan, and suggestions that this should be located nearer to the foodstore and along Middle Street.	The illustrative masterplan that has been submitted in support of the application has been through an iterative process of design reviews to take on board stakeholder comments, as well as technical issues. This process is described in the accompanying Design and Access Statement.  The illustrative masterplan was revised following the Summer 2012 consultation to remove higher density apartments from the northern edge to focus on the site entrance, commercial centre and along Middle Street to assist in providing enclosure and encourage more activity in particular areas of the development.
Concern that the individual neighbourhoods within the site are not sufficiently mixed in terms of housing typology.	The illustrative masterplan has been refined to provide three distinctive neighbourhoods, each of which will provide a mix of housing types and tenures. The illustrative masterplan reflects the site constraints and opportunities and as such higher density areas, with a greater proportion of apartments are proposed to the western portion of the site, with a greater proportion of family house typologies located towards existing Barton to reflect existing family housing led development patterns in Barton.
Concern regarding the location of the foodstore, hotel and primary school within the development site, and ensuring that these are well-connected to residents within the site and those from surrounding neighbourhoods. In particular there were concerns that if the foodstore	A range of options were considered through the iterative design process around the location of community hub and commercial uses, including whether these facilities are co-located or separated. This was informed by extensive dialogue with stakeholders and members of the public. As a result the foodstore and commercial uses have been located further into the site, while the primary school forms part of a wider community hub in closer proximity to Barton to assist in providing greater integration. The range of options considered is set out within the accompanying Design and Access Statement.

was located directly adjacent to the A40 it would mainly serve external communities.	
Concern regarding the proximity of housing to the A40 and the impact this would have on local residents.	The amount of housing fronting the A40 has been reduced compared to original principles set out within the draft Area Action Plan, which proposed an extensive frontage along much of the road. The focus now is around the junction with the A40 to provide visibility to site. Although the originally proposed speed reduction to 40mph was ruled out during the AAP examination, it is still considered appropriate to include residential units fronting the road in this location. The Design and Access Statement and Design Code provide further information and principles on proposed mitigation measures to ensure that residents living in this location are not unduly affected by nuisance associated with the road at 50mph.
There was a suggestion that extra care homes could be located adjacent to the primary school.	The Planning Parameters enable extra care housing units to be brought forward within any part of the site where residential is permitted.
Suggestion that the community facilities should be spread throughout the site, rather than creating a single 'centre'.	Considerable analysis and engagement has taken place to ensure that a robust approach to community facilities is taken within the scheme, taking into account the needs of new and existing residents, and the presence of the Barton Neighbourhood Centre which presents a substantial existing facility.  A single community hub comprising primary school, pavilion, community space and sports pitches is
	considered to be the most effective way to provide community facilities from a design and regeneration perspective. A full rationale and justification is set out within the Design and Access Statement. Other community facilities and assets include the proposed linear park that runs alongside the whole site and further community open space alongside the allotments which will be improved.
Concern that there may not be adequate car parking facilities which would result in high levels of onstreet parking.	The illustrative masterplan has been carefully considered to ensure that full parking requirements (as outlined in the Transport Assessment and Travel Plan) can be accommodated. This demonstrates that a significant amount of provision can be made for on-plot parking as a priority with additional limited numbers of spaces on-street.
Housing	
Concerns that the new homes will not be available for existing local residents and they will end up as	While the Barton Oxford LLP cannot control the amount of private property sales through "buy-to-let", the proposals make provision for at least 40% of all units to be for social rented affordable housing.
'buy to let' private rented accommodation.	The Barton Oxford LLP is committed to working with Oxford City Council to ensure that local people are given the opportunity to find a place to live within the new development.
Need to ensure that the development provides an appropriate mix of homes. In particular, there was support for providing homes for first-time buyers.	The Barton Oxford LLP are fully supportive of provision for first time buyers.
Concerns that the social housing will not be adequately integrated with the	The Proposed Development will be phased to ensure social housing is distributed throughout the

non-social housing in the new development.	scheme. This provision is controlled through the adopted Barton AAP policy BA9.
Community Facilities	
Concern regarding the impact the development may have upon the success and capacity of existing community facilities elsewhere e.g. Cheney Secondary School.	The proposed development will make either provisions on site (such as a primary school and community hub) or a financial contribution to ensure that any impact of the development on community facilities is mitigated. This will be undertaken through the Section 106 agreement.
Suggestion that the development should provide facilities which are not already available in Barton e.g. a Post Office, bank and dentist surgery. Could a smaller retail parade be located close to the primary school? Any retail should complement, not compete with, the existing Barton centre.	The Proposed Development includes provision of a foodstore for the new and existing community. The store size has been determined in order not to compete with the existing shops at Underhill Circus. The location has been refined to take into consideration the views of local residents, stakeholders and commercial operators. The application parameters include provision for additional smaller units to be brought forward adjacent to the store. It is considered that retail provision should be clustered in one location to ensure linked trips and support the commercial viability of the scheme. A full rationale for this approach, and options considered is set out in the Design and Access Statement.
Concern that the Barton neighbourhood centre will deteriorate further if investment is not made there, alongside this development.	The approach to community facilities within the scheme has sought to be complementary to the existing Barton Neighbourhood Centre. The role of the new community space and investment needed to support and enhance existing provision in the existing Barton Neighbourhood Centre is currently being determined as part of the Section 106 negotiations.
Some residents objected to the provision of a hotel, and believed that the site should be used predominantly for residential use.	The application Parameters provide the opportunity for a hotel to be made which will complement residential uses. This will provide an opportunity for further jobs within the development, as well as much needed hotel accommodation in this part of Oxford that will benefit residents as well as hospital users through increased overnight provision.
A request that community facilities be provided at the primary school e.g. rehearsal/performance space.	Flexible community space will be provided within the community hub / primary school that could be used for rehearsal/performance space
Suggestion that the school and community playing pitches be combined to open up more space for housing.	The playing pitch provision has been refined to re-provide existing space, together with the requirements of the primary school in a position that will benefit both existing and future residents. This will be of an increased quality compared to the existing provision (including a 3G pitch) and will be subject to agreements to allow community and school use of pitches / MUGA in order that the new facilities are well utilised.
Open Space and Allotments	
Concern regarding the management of the communal open spaces.	A management company / or community development trust is being explored to oversee the long term management of the communal open spaces. This will further defined within the Section 106 agreement.
Concerns regarding the use of the open space to the south of the existing allotments. Suggestion that this area could be used as a communal or school teaching	The potential for a new community space has been explored and is proposed within the scheme. The Design and Access Statement sets out further principles for the detailed design of this area. The existing allotments will be extended.

garden.	
Concern that there is insufficient formal public open space e.g. for provision of farmer's market.	The Proposed Development provides a significant amount and variety of open space including two public squares. Further principles are set out in the Design and Access Statement and the Design Code.
Environment and Flood Risk	
Objections raised regarding the proposed loss of the nature park to provide additional housing. Some participants questioned whether the land to the south of the allotments could be used for housing, rather than the nature park.	The proposals envisage development in the nature park area in accordance with the AAP. However the ability to retain trees of value in the area is an accepted principle also contained within the Barton AAP.
Some residents raised concern with the positioning of the development in an area of flood risk.	The Environment Agency has confirmed the Flood Risk Zone for the site. The Flood Risk Assessment submitted as part of this application sets out the approach to ensuring the development responds to the flood risk as agreed with the Environment Agency following revised modelling during 2012.
Concern that the issue of surface water run-off and disposal of foul water has not been adequately addressed.	The proposed mitigation addresses on site impacts and has been developed through discussions with Thames Water. Detail is contained within the Surface Water Management and SUDS Strategy submitted as part of this application.
Concerns regarding the removal of existing vegetation along the A40, which would alter the character of this route.	The Masterplan has developed to reduce the need to remove vegetation along the central reservation, apart from at the new principal junction on the A40. New planting that will assist in screening new homes will be incorporated on the southern side of the new development running parallel with the A40.
Suggestion that district heating could be utilised in the more densely developed parts of the site.	The application includes provision for an energy centre as part of the commercial centre.
Access and Connectivity	
Concern that the A40 crossings will not provide adequate access to the site which may result in the site being isolated from the rest of Oxford. Can a bridge or underpass be installed? Concern that the development will not be adequately integrated with existing Barton.	The Masterplan and Design Code has been amended and developed to ensure that phases of development will be able to come forward without prohibiting the possibility of a future at grade crossing across the A40. Both bridge and underpass options were subject to extensive technical and financial testing but have not been incorporated due to technical and financial implications and impact on housing numbers.
Concern that the volume of traffic passing through Barton and along the A40 will create congestion, particularly if the speed limit on the A40 is reduced and additional	The transport assessment provides that the impact of the proposed development, following mitigation measures, will not be significant in terms of impact on journey times on the A40, congestion and traffic travelling through Barton.

crossing points are installed.	
Concerns raised by residents of Northway regarding the proposed bus and emergency service vehicle access in terms of propensity for noise and impact on children's safety.	Following the consultation the Masterplan was reviewed and amended to ensure minimum impact on the green space to the south of the A40 along Foxwell Drive. This theme was developed further during the Autumn consultation event in Northway. The A40 junction has been amended to show a new junction arrangement. The connection into Northway has been amended and reduced in size for bus/emergency vehicles.
A number of participants highlighted the need for enhanced public transport connections and bus routes to Barton and Oxford, in particular providing linkages to the John Radcliffe Hospital.	The Barton Oxford LLP has continued to engage with the bus operating companies. There is potential for a shuttle bus to the John Radcliffe Hospital and enhancements to local routes to provide access to the John Radcliffe Hospital and Oxford City Centre.
Concern that there are insufficient links to the surrounding countryside.	The design of the site and proposed Linear Park has been orientated to provide views and physical links to the surrounding countryside. Further principles are set out in the Design and Access Statement.

# **Autumn 2012 Consultation Events**

The following table provides a summary of the key responses and issues raised by members of the public and other stakeholder groups during the autumn 2012 consultation events, and outlines how the design of the Proposed Development has responded to these where necessary.

Issue	Proposed Development Response
Principle of development	
Large proportion of Barton a Northway residents support general principle of developr	the the
Need to consider wider rege benefits to Northway and Ba including re-housing residen current social housing does their needs. (BOB MK Panel	rton, its whose not meet initiatives that are set out in the Barton and Northway area Regeneration plans.

Design and Layout	
Masterplan is good and an improvement on previous versions. Long-term management of dwellings and green spaces need to be better thought out to achieve aspiration of becoming '21st Century Garden Suburb'. (BOB MK Panel)	Housing layout at western entrance to scheme reconfigured. Apartments have been rationalized to better reflect housing mix.  The Barton Oxford LLP are currently working with consultants to ensure that the management and ownership of the dwellings and the landscape are considered at this stage in the planning process. As part of this advice the Barton Oxford LLP visited communities including Derwenthorpe, York and Lightmoor, Telford to investigate and test further the elements of a management and maintenance strategy that can be developed for the site in order to help foster a strong sense of community.  Costs to residents, particularly given the affordable housing element of the scheme, are of course a key consideration. The LLP recognise the importance of getting the long term management right and are committed to delivering a long term sustainable management proposal.
Two centre approach accepted by the panel. (BOB MK Panel)	The Barton Oxford LLP is pleased to note that the panel accepts the need for two centres and recognises the role of Middle Street in promoting 'linked trips'.
Mid section of Middle Street should have higher ground floor heights to provide future flexibility should commercial uses wish to locate there. (BOB MK Panel)	Middle Street has been reconfigured to ensure this is possible. Parameter Plan setting out building heights revised to ensure floor to ceiling heights at ground floor level are appropriate, The heights also allow feature buildings (up to a maximum of 4.5 storeys along up to 25% of Middle Street) to assist in definition and interest along the principal street.
Remove hedgerows between blocks in Neighbourhood 2, north of Middle Street, to allow for increased planting in back gardens and remove issue of who will maintain hedges. (BOB MK Panel)	General amendments to block sizes reconfigured following testing, strengthening key/landmark buildings. Housing layout at western entrance to scheme has been reconfigured to respond.  The apartments now rationalized to better reflect the proposed housing mix.
Residential blocks too small, particularly in the area between the sub-station and allotments. (BOB MK Panel)	
Parking ratio of 1:1 spaces per dwelling is too low. Parking in front of houses will dominate front gardens – buildings should be set back at least 5m from street. (BOB MK Panel)	The parking ratio for the scheme is 1.69 spaces per dwelling.
Need to set out mechanism for management, policing, updating and control of the design code e.g. performance codes and a Regulatory Plan. Need clear brief for each street type. (BOB MK Panel)	This has been addressed through the provisions of the Design Code and the need for reserved matters applications to provide a Design Statement to demonstrate compliance with the code.
Public right of way alignment needs strengthening. (BOB MK Panel)	Illustrative masterplan amended to strengthen link as proposed to be diverted.

Housing	
Lack of one bedroom and studio flats within the development.	The proposed development accords with the adopted AAP unit mix that seeks to ensure the appropriate mix for a balanced community at Barton.
Need to consider location of affordable housing to avoid clusters that detract from objective of tenure-blind development. (BOB MK Panel)	Clusters of affordable housing are provided within phases as prescribed by the Barton AAP.  Maximum clustering arrangement for houses and flats is 15 houses and 20 flats.
Community Facilities	
Need to ensure that there is indoor space that can be used by local community groups e.g. within the primary school.	A Community Hub which includes a primary school is proposed. This will include spaces that can be utilised by a wide range of community groups. The spaces will vary include rooms that can be accessed during the school day and spaces such as the school hall that can be used through agreement with the school outside school hours.
	The approach to community facilities as part of a wider "community hub" has been fully considered in dialogue with members of the local community and other stakeholders including city and county officers. Full rationale is set out in the Design and Access Statement. The Community Hub sports pitch/pavilion arrangement has been updated in latest masterplan in response to this consultation.
Need to give further thought to how to prevent foodstore from overtrading, especially as this phase of the development is planned first. (BOB MK Panel)	The impact of the foodstore on the surrounding economy is set out in the Retail Assessment that supports the planning application.
Open Space and Allotments	
Emphasis on need to ensure that open spaces and facilities are properly managed.	The management of open spaces will be addressed as part of a wider estates management strategy for the development. This will be agreed prior to the development taking place.
Concern about the loss of the Nature Park.	The proposals envisage development in this area in accordance with the AAP. However the ability to retain trees of value in the area is an accepted principle also contained within the Barton AAP. A new open space adjoining the existing Nature Park will be provided to the south of the Existing allotments that is well connected to the existing and new community.
Consider integration of allotments within the community rather than fenced off – would require natural surveillance to be maximised, or improve appearance and design of fence. (BOB MK Panel)	The integration of the allotments will be enhanced by proposals being developed with the allotment association. Alternatives to the current fencing, a new hazel coppice, new tree planting, car parking and improvements to the on-site building have also been agreed with the allotment association members.

er og er forste grænning fygging. I dette særligte grænne fygser fygter skild og er fygging i skild er og er f Franklikker fygging forste fygging fygging fygging.

Environment and Flood Risk	
The proposals envisage development in this area in accordance with the AAP. However the ability to retain trees of value in the area is an accepted principle also contained within the Barton AAP.	
A new open space adjoining the existing Nature Park will be provided to the south of the Existing allotments that is well connected to the existing and new community.	
CHP is being considered and could form part of the retail / residential area near to the new junction with the A40. CHP is not viable across the whole development.	
The bus/emergency vehicle access has been narrowed to into Northway enabling the maximum amount of green space to be preserved.	
This parcel of land will provide for a small number of homes that will not have a significant impact on the existing network. The construction of this parcel will be controlled through the Construction Environment Management Plan to be agreed with the City and County councils.	
The Masterplan and Design Code has been amended and developed to ensure that phases of development will be able to come forward without prohibiting the possibility of a future at grade crossing across the A40.	
The Design Code provides clear guidance on the detailed design of streets including hierarchy, to ensure that traffic does not dominate the development and the environment is safe for pedestrians and cyclists.	



# Barton Masterplan, Oxford 2<sup>nd</sup> November 2012

## **Panel Members**

Garry Hall – Joint Chief Executive, Transform Places
Rebecca Hart – Urban Designer, Wycombe District Council
Malcolm Moor – Director, Malcolm Moor Urban Design
Jennifer Owen – Secretary, BOB MK Coordinator
Jon Rowland – Director, Jon Rowland Urban Design
Penelope Tollitt – Head of Policy and Design, Kensington and Chelsea Council (Chair)

## Introduction

Thank you for asking the BOB MK Design Panel to review the masterplan for Barton. The panel believe that, on the whole, the masterplan has been improved and are pleased to see that progress has been made since the BOB MK workshop on the 4<sup>th</sup> May. There are however, areas that can be strengthened further and thought about in more detail at this stage.

Below is a report summarising the comments and suggestions that the panel would like to make

#### The A40

The Panel was disappointed in the approach to the A40, and the limited opportunities for surface 'at grade' crossings to integrate the new development into the existing suburbs of Oxford. It is understood that this is a constraint placed upon the development by the AAP, following examination in public. However, the Panel urge all those involved in the project to remember the timescales over which this development will take place, and to take any opportunities that may arise in future years to review this relationship.

Without easy access – especially for pedestrians and cyclists – across the A40, the new development will remain isolated – just as Barton is now. It will make it harder for new residents to access facilities south of the A40, such as jobs at the John

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Radcliffe, or schools, and likewise existing residents will not easily benefit from the proposed facilities on the new development. It will also place a higher reliance on the private car and public transport, and is in every way an undesirable outcome. In balancing the competing issues of crossings vs congestion vs speed vs safety, the Panel have a strong view that much greater weight should be placed on the needs of existing and new residents to the north and south of the A40.

The masterplan should therefore be prepared on the basis that 'at some time in the future' a surface crossing will be provided at the south east corner of the substation, as well as in place of the existing underpass that currently provides pedestrian access to Barton. We very much hope that surface solutions can be found before substantial expenditure has been made on improving the existing or providing new underpasses, which is very much a sub-optimal solution.

## **Masterplan**

The masterplan 'does the job'. It is - correctly in the Panel's view - a landscape based masterplan. It builds in the existing hedgerows, it makes good use of the stream along the northern boundary and locates public space there, and it integrates with the street network of Barton to the east, and across the A40 to Northway to the south west. It also builds in new tree planting. It has clearly responded to the earlier comments, and the general layout of the streets and layouts of the blocks. The one weak area is how the masterplan responds to the 'future crossing' of the A40 at the south east corner of the sub-station.

## 21st Century Garden Suburb and Long Term Stewardship

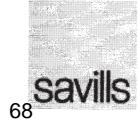
The Panel agree with the idea of a garden suburb but feel that there is still some way to go until it can truly be branded and considered as such. A garden suburb is so much more than a landscape based masterplan - the long term management of the estate is crucial, and needs to be planned for at this early stage.

The philosophy of a 21st Century Garden Suburb needs to be clearly defined and understood in order for Barton to become an exemplar scheme. It is understood that the aim is to create a 'cohesive neighbourhood but with variety of density and style', however it is not clear how this will be maintained throughout the years.

The long term management and ownership of the dwellings and the defining character of the green landscape have not been thought through in enough detail for the area to be considered a 'garden suburb'. Bourneville, for example, feels safe for families and has a strong sense of community due to the original forward thinking

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about management and maintenance. There is a concern that if the County Council do not take on the responsibility of maintaining the trees and greenery then it will be too expensive for the residents to uphold and will therefore not be upheld. Oxfordshire County Council do have a good record of maintaining local parks e.g. Bury Knowle Park, however it must be noted that managing a park is very different to managing hedgerows in between housing plots and green squares in residential areas.

Although long term ownership of bits of the site by Grosvenor (the commercial centre) and the City (affordable housing, possibly streets and some elements of the public realm and green space), there is no indication of how this would be translated into an overall management strategy, nor to new forms of leasehold or similar tenure, nor is it clear how the proposed energy centre (CHP) would provide heat to the development, who would be responsible, how this might impact on provision to both affordable and market housing.

Costs of on-going management also need to considered at this stage — it is not enough to say that the on-going costs would be met through a service charge on each property, as that is unlikely to be affordable to most residents.

One way of creating a 21st century development would be to provide managed work spaces i.e. facilities for home working, installation of fibre-optic connections and meeting places for networking. People's working patterns have changed so the dwellings need to reflect this with a flexibility to cater for a live/work lifestyle. There is a concern that the volume house builders will have the ultimate control over the design of the houses and will thus simply roll out the standard housing types.

The panel would like the branding of the garden suburb to be considered and would like to know what aspects of the scheme will make it exemplar. There is an underlying feeling that, perhaps, the development needs to set out and reflect garden suburb principles that respond to today's lifestyles, rather than being another estate. The Council's aspiration as partner is to create an exemplar. In order to achieve this, a management strategy must be established at this stage and that the opportunity for long-term interest by developers in the suburb should be explored. The panel would like to see more information on a sustainability strategy and how the involvement of the developers and partners (Oxford City Council and Grosvenor) will be incorporated as part of the sustainability agenda.







### **Benefits to Northway and Barton**

The Panel was disappointed that the project seemed to be conceived as a new development, and not an opportunity to make significant improvements to Barton and Northway. There are unlikely to be any other opportunities to get inward investment into these neighbouring areas once this development has taken place.

The aim of the masterplan is understood to be to allow the new facilities to be 'owned' as much by Northway and Barton as by the new development (see two centres below). To create a truly cohesive neighbourhood there needs to be improvements in the surrounding, existing neighbourhoods of Northway and Barton in terms of landscaping, redevelopment opportunities, and the local economy as well simply interlinking the roads. If people are to drive through Barton in order to get to the new community there has to be some regenerative benefits for Barton that Oxford City Council must consider.

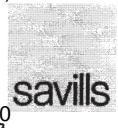
Given that one of the aims of the new development is to provide 40% affordable housing, there are many opportunities to re-house residents from the neighbouring areas, especially where their current housing no longer meets their needs. This then presents the possibility of redeveloping some of the existing social housing. The panel was disappointed that this was not even mentioned, whereas it should be one of the overall aims of the project. A strategy setting out phased improvements to the surrounding areas on this basis should form a core part of the project, and not be a forgotten afterthought. This also links back to the 'garden city' aspiration above - the new development risks being only a new housing estate, and not maximising the potential for change in the area as a whole.

The Panel noted that because the City Council are involved as landowner, there is scope for a more proactive approach in relation to any potential impact of the new development on existing neighbourhood centres, than that enabled only by the planning system.

### Two Centres rather than One

The Panel – after robust discussion – accepted the philosophy that the new development should locate the new commercial and community facilities so that they benefit existing residents as much as those on the new development. Nonetheless there remained concerns that the two centres may disperse community activity too far. If Northway and Barton do not make use of these new facilities, the new community of 800 houses is unlikely to support both, or rather, they are unlikely both to be vibrant as the schools and shops are too far apart to naturally







complement one another e.g. parents and school children are unlikely to go from school and straight into a coffee or local convenience shop.

However, the masterplan has ensured that those that want to make 'linked trips' will be more likely to do so, with the direct and clear connection of Middle Street between the two centres. This mid section of Middle Street should have higher ground floor heights to provide future flexibility should commercial uses wish to locate there, which will help create continuity of street activity between the two centres.

### **Street Order**

The relationship of the new streets in the development with the A40 is difficult. In order to change driver's attitudes towards the change in speed limit from the proposed 50mph on the A40 to 20mph within a short transition space, the entrance design is crucial and the streets must have 'incidents' along them e.g. horizontal shifts in alignment, material changes and trees or other three-dimensional features which introduce 'side friction' along the carriageway to make it clear to drivers that the order of the streets has changed. While the physical width of streets needs to allow for larger vehicles, the visual width can be narrowed to help slow vehicle speeds.

There is particular concern near the supermarket, and the risk of the shop 'overtrading' by being used by those passing on the A40 as an out of town supermarket, when it is only of the size of a neighbourhood supermarket. The volume of traffic this would generate would quickly degrade the area. The Panel was concerned that role of the supermarket was slightly confused. On the one hand it was to be a neighbourhood supermarket, not promoted by signage on the A40, and its location near the A40 was as much a function of the overall masterplan design and a desire to be near to Northway rather than for functional reasons. On the other hand, this is the phase of the development that is planned to be first, and that before the new development is occupied, the supermarket will depend on trade from those passing on the A40 – risking the potential of overtrading. The Panel suggest that further thought is given to how to reduce these risks.

The massing also shows the supermarket block being higher than the block immediately on the A40 junction, drawing attention to the supermarket block itself. Perhaps this needs to be reviewed.

On the current plans all of the streets are measured at 6.1 metres wide, which seems wide except for Middle Street, which is the main 'spine' of the development, likely to carry the most traffic, and also, importantly, the bus route. Street width







needs to be varied between the main and side roads so that the order is clearly indicated.

In Neighbourhood 2, north of Middle Street, the Panel questioned if it was desirable to have new hedgerows between the blocks, resulting in the need for two 'single sided' roads for each block. This arrangement also broke the enclosure on the north side of Middle Street. Instead, the blocks could be made slightly wider, with scope for large planting in the back gardens. This would also remove the issue of who would maintain the hedges in the longer term.

### **Plots**

A number of the plots are arranged awkwardly on the current plan and it has been noted that the blocks are almost certainly too small, particularly in the area between the sub-station and the allotments. The layout creates a particular challenge on the corners to accommodate a quality street enclosure, parking, bins etc. The proposed planting may be too large for the rear gardens. This is particularly the case in the housing to the east of the transformer station.

The Panel feel that a more detailed plan/model, perhaps at a scale of 1:50, of an individual plot as well as some of the critical areas i.e. Commercial Areas, Middle Street etc. would help to bring the scheme to life. It is currently difficult to understand how the gardens, parking and bins etc. will be arranged.

### **Parking**

The proposed parking ratio of 1:1 spaces per dwelling is too low as it is likely that in order for residents to afford a mortgage most of the properties will be shared by a couple with up to two cars. The proposed parking spaces in front of the houses will dominate the front gardens, precluding their use for anything else, and will undermine interaction with the streets by creating a physical barrier between the dwellings and the roads which is not the desired outcome. If the car is to be positioned in front of the dwellings then the buildings would need to be set-back at least 5 metres from the street.

Avoidance of large rear parking courts is welcome but imaginative arrangements of parking, including suggested parking squares, are needed to avoid car dominated streets, especially where there is concentration of higher density housing.







### **House Design and Tenures**

There is a concern that there may be an over-reliance on the volume house builder. This in turn may mean that quality may become subservient to cost, regardless of whether the dwellings are to be tenure blind. Given the location of the development, with no dominant strong character from which to draw its cues, there is the opportunity to be more adventurous, with, for example, self-build playing a greater role. There could also be a place for co-ownership.

The location of affordable housing was described as clusters. The Panel felt that this needed to be clarified, in order to avoid large lumps (mini estates) that detract from the objective of tenure-blind development

The question of space standards was raised in relation to different tenures, and there was concern about the size of market housing.

'Lifetime Homes', co -housing other forms of tenure could be incorporated into the housing mix.

### **Allotments**

A suggestion has been made that the allotments should be integrated within the community rather than fenced off as is currently proposed. In order to achieve this, it is important to ensure there are active frontages overlooking the allotments, in order to maximise natural surveillance. Opportunities to improve the allotments – appearance, number of plots, services, management – to enable them to cope with additional demand and visibility should also be explored. If a fence of some sort is felt to be necessary, it could be aesthetically much more pleasing than the current structure.

### **Design Codes**

The emerging design codes are generally good but the mechanisms to ensure they are put into practise need to be secured. For example, each dwelling boundary and amenity space need to be knitted together in order to maximise the utility of the area. This could be achieved by the Council placing covenants to protect front gardens by ensuring that they are not used for parking as this would create a physical barrier between the dwelling and the pavements. The management of this needs to be considered, and a mechanism for the management, policing, updating and control of the design code should be clearly set out. Developers were advised to look at







performance codes and a Regulatory Plan similar to the German Plan to keep things simple.

It will be important to have a clear brief / design code for each street type in the form of a street design guide to ensure that this most important piece of public realm meets the design aspirations of the Garden Suburb. The issue of parcellation needs to be resolved. Developers should be responsible for development on both sides of a street. The emphasis in the codes should be on performance (rather than form) with the priority being design quality of the public realm should be prioritised. The panel welcome the inclusion of feature houses throughout which will need to be indicated in codes/regulatory plan.

### Conclusion

The scheme is generally promising and the physical aspects of the plan are becoming clearer, many of the management and quality aspects have yet to be addressed. These would need to be included in any application to make sense of the masterplan. Although time may not allow, we would suggest it might be appropriate to review the scheme once more before the planning application is submitted in February 2013.

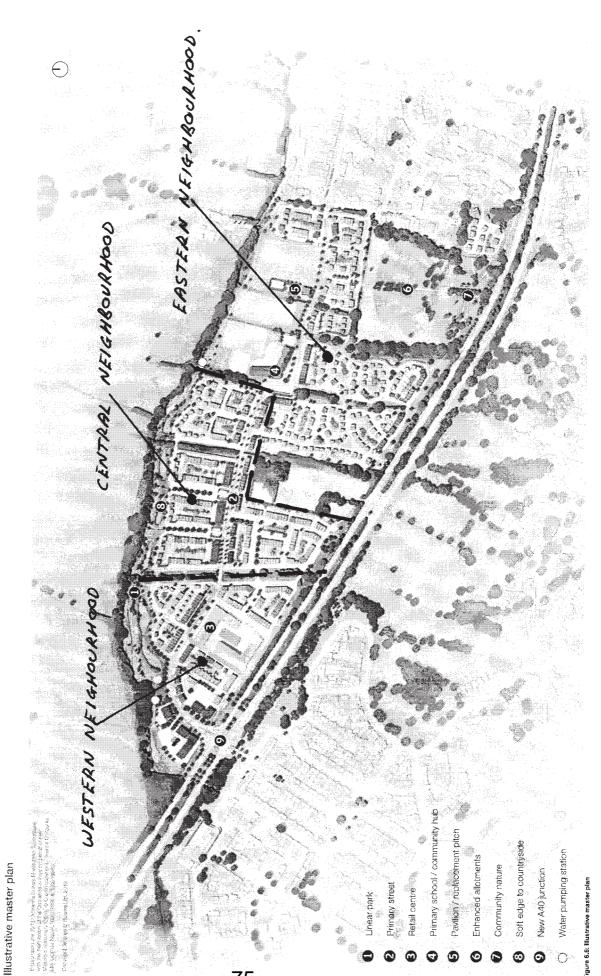
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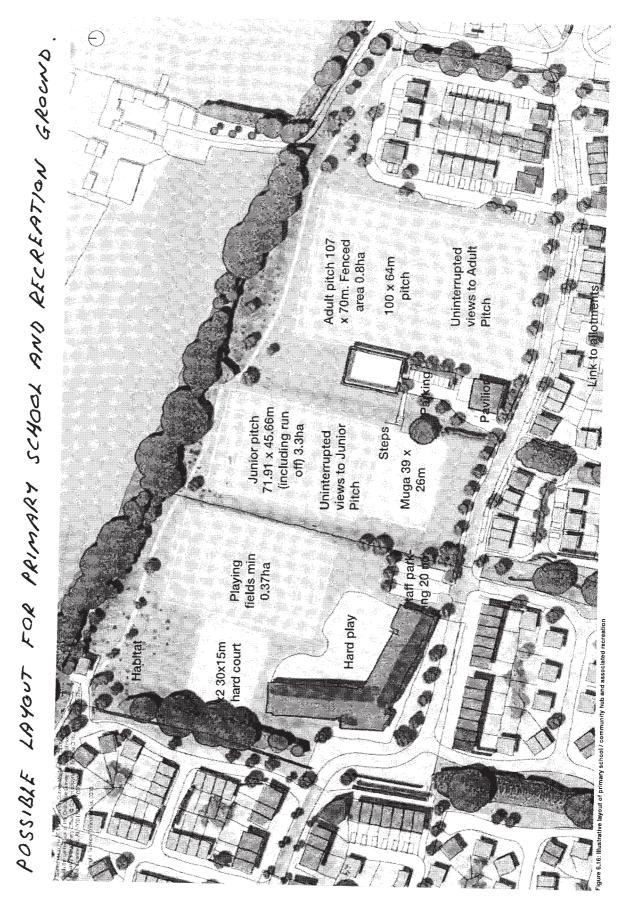
## APPENDIX S.

# 111 USTRATIUF MASTERPLAN AND NEIGHBOURHOOD AREAS



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APPENDIX 6:



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### RETAIL IMPACT ASSESSMENT

Convenience Goods Retail Impact Assessment 2018

23.80 from Table 3 Growth in Expenditure in Oxford (post commitments) 2011 to 2018 apportioned between existing stores/centres in the city (£m):

1	2	3	4	5	6	7	8	9	10
	Conv Goods Net Sales	Conv Goods Sales Density	Sales 2011	Sales 2018			Conv Goods Sales post		Difference between 2018 post-impact &
Store/Centre	Area	2011					impact	Impact	2011 sales
Headington District Centre in the PCA:	(sq m net)	(£ per sq m net)	(£m)	(£m)	(%)	(£m)	(£m)	(%)	(%)
Co-op	751	9.687	7.27	8.02	3.5	0.50	7.52	6.2%	3.4%
Waitrose	1.070	12.079	12.92	14.25	5.0	0.71	13.54	5.0%	4.8%
Iceland	271	7,059	1.91	2.11	0.5	0.07	2.04	3.4%	6.5%
Total Headington District Centre		.,,,,,,	22.11	24.39	9.0	1.29	23.10	5.3%	4.5%
Local Centres in the PCA:						11-4			
Underhill Circus	188	6,000	1.13	1.24	0.4	0.06	1.19	4.6%	5.2%
The Roundway	96	4,000	0.38	0.42	-	-	0.42	0.0%	10.3%
Girdlestone Rd, New Headington	80	4,000	0.32	0.35	-		0.35	0.0%	10.3%
Westlands Drive	182	4,500	0.82	0.90	0.2	0.03	0.87	3.2%	6.8%
Old Marston Road	635	8,500	5.40	5.95	1.3	0.19	5.77	3.1%	6.8%
Marston (Cherwell Drive)	234	7,000	1.64	1.81	0.4	0.06	1.75	3.2%	6.8%
Summertown District Centre:									
M&S, Summertown	1,014	11,192	11.35	12.52	1.5	0.21	12.30	1.7%	8.4%
Co-op, Summertown	437	9,687	4.23	4.67	0.5	0.07	4.60	1.5%	8.6%
Tesco Express	316	13,960	4.41	4.86	1.0	0.14	4.72	2.9%	7.0%
Sainsburys Local	230	12,288	2.83	3.12	1.0	0.14	2.97	4.6%	5.2%
Total Summertown District Centre			22.82	25.17	4.00	0.57	24.59	2.3%	7.8%
Templars Square, Cowley:					_				
Со-ор	744	9,687	7.21	7.95	0.5	0.07	7.88	0.9%	9.3%
Iceland	453	7,059	3.20	3.53	0.1	0.01	3.51	0.4%	9.8%
Total Templars Square, Cowley			10.40	11.47	0.6	0.09	11.39	0.7%	9.5%
Cowley Road:									
Tesco Metro	1,297	13,960	18.11	19.97	2.5	0.36	19.61	1.8%	8.3%
Со-ор	130	9,687	1.26	1.39	0.1	0.01	1.37	1.0%	9.1%
Sainsburys Local	272	13,415	3.65	4.02	0.2	0.03	4.00	0.7%	9.5%
Total Cowley Road			23.01	25.38	2.8	0.40	24.98	1.6%	8.5%
Oxford City Centre:	4 455				۱				
M&S, Queen Street	1,487	11,192	16.64	18.35	1.5	0.21	18.14	1.2%	9.0%
Sainsburys, Westgate	1,042	13,415	13.98	15.42	2.7	0.39	15.03	2.5%	7.5%
Sainsburys Local, Magdalen Street	407	13,415	5.46	6.02			6.02	0.0%	10.3%
Total Oxford City Centre			36.08	39.79	4.2	0.60	39.19	1.5%	8.6%
Other Stores in Oxford:	0.040	40.000	40.74	44.00	1	2.50	40.00	5.00/	4.40/
Tesco superstore, Oxford Retail Park	2,916	13,960	40.71 8.64	44.89	17.5	2.50	42.39	5.6%	4.1%
M&S, Oxford Retail Park Sainsburys superstore, Heyford Hill	772 3,463	11,192 13,415	46.46	9.53 51.23	4.0 12.5	0.57	8.96 49.45	6.0%	3.7% 6.4%
Aldi, Botley Road	656	7,314	46.46	5.29	12.5	1.79	5.29	3.5%	10.3%
Co-op, Walton Street	201	9,687	1.95	2.15			2.15	0.0%	10.3%
Co-op, ffley Road	159	9,687	1.54	1.70	<del>                                     </del>	<del></del>	1.70	0.0%	10.3%
Co-op, Rose Hill	173	9,687	1.68	1.85	<del>                                     </del>		1.85	0.0%	10.3%
Co-op, Atkyns Road	159	9,687	1.54	1.70	-		1.70	0.0%	10.3%
Total Oxford Stores	100	3,007	231.42	255.22	56.9	8.13	247.09	3.2%	6.8%
Kidlington:			231.42	233.22	30.3	0.13	247.03	3.2 /0	0.078
Sainsburys superstore, Oxford Road	3.532	13,415	47.38	52.25	17.5	2.50	49.75	4.8%	5.0%
Kidlington Town Centre:	5,002	10,413	47.00	02.20	17.5	2.00	45.70	7.076	3.070
Tesco Metro	1,029	13,960	14.36	15.84	1.8	0.26	15.58	1.6%	8.5%
Co-op	599	9,687	5.80	6.40	1.0	0.14	6.26	2.2%	7.8%
Iceland	232	7.059	1.64	1.81	0.2	0.03	1.78	1.6%	8.5%
Total Kidlington Town Centre		.,300	21.81	24.05	3.0	0.43	23.62	1.8%	8.3%
Wheatley:			2			<u> </u>			3.0 70
Со-ор	191	9,687	1.85	2.04	0.1	0.01	2.03	0.7%	9.5%
Asda	2,666	14,606	38.94	42.94	12.5	1.79	41.16	4.2%	5.7%
Other Stores/Centres outside Oxford		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			10.0	1.43			
TOTALS	I		1	1	100.0	14.28			

Sources:

VOA Rating List & IGD for floorspace, with estimation of net to gross ratios for some stores by Jonathan Baldock. Convenience goods space allocations estimated by Jonathan Baldock. Sales densities estimated from data published by Verdict Research Limited. Trade draws to new Barton Local Centre estimated by Jonathan Baldock.

### Notes:

Old Marston Road includes the permitted Tesco Express at 2 Old Marston Road.

Sales densities are as at 2009/10; and it is assumed that these will be maintained until 2021. If sales densities rise, pre-impact sales would rise and

Assumes that there will be direct bus, pedestrian and cycle access from areas south of the Northern Relief Road to the new Barton Local Centre via a new junction on the Northern Relief Road, but there would be no direct car access from these areas to the new Barton Local Centre. Assumes that the new Barton Local Centre via a new junction on the Northern Relief Road, but there would be no direct car access from these areas to the new Barton Local Centre will be located off the Northern Relief Road, close to the new junction.

Assumes that sales in the stores in Kidlington and Wheatley will grow over the period 2011 to 2018 at the same rate as in the Oxford stores.



Tree Survey

Table 1 - An overview of tree quality within the surveyed area

	Category A	Category B	Category C	Category U	
Individual Trees	6	94	74	39	213
Groups of Trees	2	58	79	10	149
TOTAL	8	152	153	49	362

In line with the BS5837:2012 retention categories, there are

- 6 individual trees and 2 groups of trees which merit an A category and are of high quality, with the opportunity to provide a significant future contribution (40+ years) to the site.
- 94 individual trees and 58 groups of trees which merit a B category and are considered to be of moderate quality with a minimum of 20 years useful life expectancy remaining.
- 74 individual trees and 79 groups of C category trees (including hedgerows), which are either of low quality or are young specimens.
- 39 individual trees and 10 groups of trees which are U category and have less than 10 years life expectancy remaining and are either dead, dying or close to structural failure.

It should be noted that the BS5837:2012 Cascade Chart for Tree Retention (at **Appendix 3**) only gives recommendations in relation to remaining years. A tree may be considered to have a longer remaining life, but still be considered to be of a lower category given its maturity, condition or overall impact.

### 6. NATURAL RESOURCES IMPACT ANALYSIS QUESTIONS

Below is a list of questions which form the framework of the NRIA SPD.

Primary Questions	Detailed Questions	Comment					
Energy efficiency							
How will the design and layout ensure	Has an energy strategy been prepared?	Yes, an energy strategy has been prepared and is submitted in support of this application.					
that energy is used efficiently in the scheme?	How is the development designed to maximise beneficial solar gain? (through orientation, spatial layout and systems design)	It is anticipated that buildings will be orientated to benefit from solar gain where possible. However, it will not be possible for every building as other constraints, such as the SSE site, must be taken into account.					
	How will the design of the building make efficient use of energy? (linked buildings, buffer zones, thermal mass etc)	Energy efficiency measures including materials used have been considered within the Proposed Development. For further details, please see the Energy Statement submitted in support of this application.					
How will the construction of the buildings ensure efficient use of energy and reduce overall energy use?	What insulation standard will the development be built to?	Energy efficiency measures including materials used have been considered with the Proposed Development. For further details, please see the Energy Statement submitted in support of this application.					
	How is the development designed to minimise unwanted air infiltration?						
	What glazing standard will the development be built to?						
How will the mechanical and electrical systems	What efficiency standard will boilers be specified to?	Full details on mechanical and electrical specification will be provided at the detailed design stage. All homes and commercial spaces will provide real time					
of the buildings ensure efficient use of energy and reduce overall energy use?	Will the development be linked to a combined heat and power plant or to a district heating system?	metering and BEMS for non-domestic, energy guide and workshops to inform occupiers of their functions.					
	How has the development been designed to maximise controlled natural ventilation?						

Primary Questions	Detailed Questions	Comment
	Will any mechanical ventilation to be incorporated be of high efficiency?	
	How has the development been designed to maximise natural daylight?	
	How will the development incorporate high-efficiency lighting?	
	How will the development incorporate high-efficiency appliances (where installed)?	
	How will the heating, lighting and ventilation systems be controlled?	
Renewable energy		
How will the design incorporate the use of energy from renewable sources on-site?	Will the development incorporate the use of biomass as a fuel?	The Energy Strategy prepared for the Proposed Development determined that for the residential dwellings a conventional high efficiency gas condensing boiler and solar photovoltaic (PV) based solution was
	Will the development incorporate the use of heat pumps?	the preferred approach for a standalone solution, for the following reasons:  The 20% renewable target can be met based on the use of PV panels alone.
	Will the development incorporate active solar water-heating systems	<ul> <li>A standalone high efficiency gas boiler for space and domestic hot water heating is a familiar, easily operable and</li> </ul>
	Will the development incorporate solar electricity generation?	easily maintainable solution for prospective homeowners.
	Will the development incorporate wind-energy electricity generation?	and feed in tariff (FIT) payments, a high efficiency gas condensing boiler and PV panel solution will yield the lowest energy bills to the customer.
	Will the development incorporate a micro-hydro scheme?	The capital cost of the solution is lower than the Solar Thermal Hot Water (STHW)/PV or STHW/ Air A=Source Heat Pump solutions, particularly as the house builders will be able to buy PV in bulk to further reduce capital costs.
		For the non-residential aspect of the

Primary Questions	Detailed Questions	Comment					
Timely Questions		proposed development, it is proposed that the commercial areas in Phase 1 of the development may be served by a central CHP led heating system with high efficiency natural gas fired boilers for backup operated under a private landlord system. Based on the proposed development mix in this area, it is expected that an appropriately sized CHP system with sufficient thermal storage could provide up to around 50% of the annual space and domestic hot water heating load from CHP. Paragraph 43 of Oxford's NRIA SPD confirms that CHP is an allowable technology for meeting the 20% renewables requirement; and on that basis such a solution would allow Oxford's 20% regulated renewable energy requirement to be easily met. The system may also be extended to serve the apartment buildings at the south west corner of the site. Rather than being operated via an ESCO, it is envisaged that the system would be owned, operated and maintained by the management organisation for the site.  It is proposed that the primary school (located at the north-east side of the development and so too far from the Phase 1 commercial areas to be served by the central CHP led heating system in that area) may be heated by a standalone biomass boiler with high efficiency natural gas boilers for backup. As a qualifying renewable energy technology, the biomass boilers would allow the 20% regulated renewable energy requirement to be					
		readily met.					
Choice of materials at How will the materials specified minimise embodied energy,	How will the materials be specified to ensure a low level of embodied energy?	Materials will be specified to achieve the Fabric Energy Efficiency Standards (FEES) under Building Regulations part L1A.					
energy in use and environmental impact?	How will the materials be specified to prioritise those with minimal environmental impact?	The Proposed Development will utilise a mix of materials from renewable and non-renewable sources. All natural materials fully certified - e.g. FSC/PEFC.					
	Will the materials be sourced locally?	Local materials will be preferred where available and suitable for proposed use.					
	How will the materials	Materials and systems will be specified at					

Primary Questions	Detailed Questions	Comment		
	and systems be specified to ensure a good quality internal environment?	the detailed design stage.		
	How will the timber be specified to ensure it is from the most sustainable sources?	All timber will be FSC certified.		
	Will contractors and suppliers be chosen with regard to their environmental management record?	The environmental management record of individual contractors and plots developers will form part of the selection criteria.		
Recycled materials				
How will the buildings be reused and/or demolition waste be responsibly dealt with?	How will the development make efficient use of all material resources on site (for example existing buildings, services, infrastructure and topsoil)?	No demolition required on site, materials such as soil we be reused on site where possible. However, please note that a new pavilion will be provided on site and the existing pavilion will be relocated off site.		
	Has a strategy for the minimisation and handling of waste been prepared?	Yes, a Waste Management Strategy has been prepared in support of this outline planning application.		
	How will waste be minimised and the materials and construction methods used in the development make best use of recycling?	A Waste Management Strategy has been prepared that outlines measures to ensure that the system of waste minimisation, reuse and recycling is effective.		
	How will the development make maximum use of recycled materials?	Recycled materials will be used where possible. How they are used can only be identified at the detailed design stage.		
	How will the development make maximum use of construction and demolition waste arisings?			
	How is the development designed to incorporate materials / elements that will be simple to			

Primary Questions	Detailed Questions	Comment
	reuse/recycle at the end of the building's life?	
How will domestic/commer cial waste generated in the development be dealt with?	How will provision be made for the storage/collection of waste generated in the development?	Storage will be provided in accordance with Code for Sustainable Homes requirements.
	How will the development provide opportunities and facilities for home/community composting?	Residential units with gardens shall have an area reserved for the potential location of a home composting container. The allotment may also provide an opportunity for either individual or community composting.
Water resources	· · · · · · · · · · · · · · · · · · ·	
How will water resources be conserved and recycled?	How will the development incorporate the use of water-saving devices?	The Proposed Development will include water efficient devices to ensure that the water efficiency requirement of Code for Sustainable Homes Level 4 (105 litres per person per day) will be met. Opportunities to implement water conservation measures across the development to conserve water resources will be assessed at the detailed design stage and may include measures such as water metering, low flush toilets and the provision of rain water harvesting in the form of water butts.
	How will the landscaping be designed to minimise water consumption?	Native planting will be used to minimise water consumption.
	How will the development incorporate the harvesting and re-use of rainwater?	The potential for harvesting and reuse of rain water will be identified at the detailed design stage.
	How will the development incorporate the collection, treatment and recycling of grey water?	The potential for harvesting and reuse of rain water will be identified at the detailed design stage.

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IMPACT	DESCRIPTION OF PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
Traffic &				
Construction	Construction traffic and	HGV delivery routes and	The residual effect on	The proposed mitigation
	se <i>veranc</i> e: The assessment of	times would be secured with a Construction Environment	severance as a result of construction traffic is	measures deal adequately with the issue at the construction
	severance relates to the change in daily flow traffic	Management Plan that will be agreed with the relevant	negligible.	stage. During construction, transport and traffic impacts are
	experienced on a link, with	authorities and secured by a		likely to be short-term (and last
	changes in traffic flow greater than 30%. Routing	planning condition.		only as long as the construction itself). Ensuring that HGV
	construction traffic primarily			routes are and timings are
	result in less than 5%			that direct issues related to
	increase in traffic flows.			construction traffic are minimised and the proposed
8.	Predicted impact:			temporary speed limit is likely
84	Negligible			to cause short term minor and negative impacts after
	Driver Delay:	No specific mitigation	The residual impact of the	mitigation. The result of which
	Temporary speed limit	proposed.	effect on driver delay is	will be during certain times,
	introduced to assist	construction activities in the	temporary minor and	longer queues that normally
	construction vehicles to	highway will be programmed	negative.	experienced on the A40.
	access/ egress the site	to avoid busy periods. The		
	safely.	effects of the works are		
	Predicted impact:	unavoidable.		
	temporary/ negative			
	Composary segana		Given the mitigation	
	Pedestrian delay:		measures proposed, it is	
	Construction traffic routes to	Needs of pedestrians will be	likely that the effect of	
	are denerally on roads with	construction in order that any	construction traine on pedestrian delay will be	
	limited pedestrian provision	pedestrian route closures are	negligible.	
	however during the	adeditately sign-posted and		

OFFICERS COMMENTS		
SIGNIFICANCE OF RESIDUAL IMPACT		Where mitigation is provided it is considered that the construction of the proposed development will have a minor negative effect.  Effects on pedestrian amenity will be short term and temporary.
MITIGATION PROPOSED alternative provision is made available.		Proposed pedestrian/ cycle crossing at the A40 development access will enable pedestrians and cyclists originating in the proposed development to access areas south of the A40 more safely.  During construction, any effects on pedestrian amenity will be mitigated by ensuring a continued provision of pedestrian facilities where possible. Where pedestrian routes are closed or diverted, clear signage will be provided to show pedestrians the alternative route. When pedestrians are required to continue
DESCRIPTION OF PREDICTED IMPACTS construction phase it may be necessary to close or divert public rights of way or footpaths.	Predicted impact: Where pedestrian footpaths/ rights of way are closed/ diverted effect on pedestrian delay likely be short-term, minor, temporary and negative.	Pedestrian Amenity: Construction traffic routes are predominantly along roads with limited pedestrian provision. Main effects on pedestrian amenity due to construction activities include: Temporary closure/diversion of public footpaths/ public rights of way across the site. Temporary closure/ width restrictions on footways during off-site highway schemes Mud/ debris on footways within the proposed development.  Predicted Impact:
TOPIC		85. 85

OFFICERS COMMENTS		-					During the operational phase of the development, the mitigation	designed into the scheme, such as a reduction in the speed limit	along the A40 and the collaborative work that has	gone into the Design and Access Statement has ensured	that the internal layout of the	Circle the likely delays under	the do nothing scenario at	2019, the scheme itself and mitigation measures are likely	to result in small positive
SIGNIFICANCE OF RESIDUAL IMPACT		Given the mitigation	impact is considered negligible.	<b>,</b>			Given the mitigation measures proposed, the	considered <b>negligible</b> .					Given the mitigation	proposed there is a likely positive minor impact of	the proposed development
MITIGATION PROPOSED	their journey drop kerbs will be provided	Traffic management and	reduction proposed in the vicinity of the temporary	construction access to the proposed development			Barton AAP seeks to reduce severance between the	Oxford, by reducing the severance effects of the A40.	Proposals include the introduction of a new	pedestrian crossing across the A40; upgrading the	existing underpass; and a	reduce the speed limit to			schemes at the Headington
DESCRIPTION OF PREDICTED IMPACTS	negative	Accidents and safety Change in traffic levels as a	will be less than 5%.	Predicted Impact: Negligible	A temporary construction access is proposed to be constructed onto the A40.	Predicted Impact: Minor negative short-term/ temporary	Severance: The assessment undertaken	where the severance increases from negligible to	minor. These streets are in Northway between	Bayswater Road and Burchester Road and	Waynflete Road south.	Negligible	Driver Delay:	The assessment shows the likely impact on driver delay	without mitigation against a
IMPACT						86 86	Operational:								

officers comments impacts on driver delays, whereas overall impact on pedestrian delays has been assessed to be negligible	with the policy which seeks with the policy which seeks reduced traffic speeds on the ring-road and development along the frontage of the site to be set behind a buffer.		
SIGNIFICANCE OF RESIDUAL IMPACT in the AM peak hour and a negligible positive impact in the PM peak hour	With the implementation of the mitigation measures the likely significance of the impact is minor positive; however coupled with the potential negligible negative impact of the increase in traffic flows in Barton, overall the impact on pedestrian delays is negligible.	Overall with the addition of new pedestrian routes throughout the site, and in particular the new pedestrian crossing across the A40, will have a minor positive effect on pedestrian amenity	Given the implementation of the mitigation schemes, the likely residual impact on accidents and safety is minor positive.
MITIGATION PROPOSED roundabout and B4150/ B4495 junction to mitigate the effect of proposed development traffic.	Development proposals include construction of a new pedestrian link between Barton and Northway and a new pedestrian crossing across the A40. There are also improvements proposed to the underpass	The provision of new pedestrian links through the site will improve pedestrian accessibility in the area.	The reduction in speed limit along the A40 will reduce the risk of accidents. The A40 junction will be designed to accord with current guidance
DESCRIPTION OF PREDICTED IMPACTS baseline scenario for 2019. Predicted impact: AM peak – Minor PM peak – Negligible	Pedestrian Delay: The existing built area close to the site is characterised with urban streets and flanking footways. There are currently no controlled crossings within the Barton residential area albeit vehicle speeds are low. There is a crossing point on the A40 at a pedestrian subway between North Way and Barton Road.	Pedestrian Amenity: No residential streets experience peak traffic- flows in excess of 10 vehicles per minute. The criterion for minor impact on residential streets is where traffic flows on a link exceed 10 vehicles per minute.	Accidents and Safety: The proposed development will increase the total number of vehicles using the existing and proposed
IMPACT	87 87		

IMPACT	PREDICTED IMPACTS residential streets in the vicinity of the development; however it is also predicted that overall speeds within		SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
	the development will be lower and so this will reduce the risk of accidents.	speed limit. The provision of a new pedestrian crossing at the new site access junction will allow pedestrians and cyclists to cross more safely.		
<b>Ecology</b> Operational	Sydlings Copse (SSSI) Habitat degradation due to	Provision for recreation on- site (6.99ha informal open	<b>Unlikely</b> that adverse effects on Sidlings Copse	The proposals include a detailed assessment of
	recreational pressure  Predicted Impact: Unlikely Minor Negative Medium to Long Term	space, greenways, accounting for over 10% of the site. And installation of fencing, signage and planting	SSSI as a result of the development.	biodiversity impacts and provisions to compensate or avoid or mitigate harm
88 <i>&amp;&amp;</i>	(given mitigation built into the scheme)	measures to discourage physical access to the SSSI from existing PRoW		Bats Of the receptors of potential biodiversity impact, bats have
Construction	Bayswater Brook SLINC (including Water Vole) Habitat degradation due to pollution effects Predicted Impact: Near Certain negligible	Pollution prevention measures and exclusion fencing to be formalised in the Construction Environmental Management	Near certain that there will be no adverse effects resulting from the proposed development on Bayswater Brook during the construction phase	the highest level of protection and are affected by the development, a level of impact (before mitigation) that triggers the need for assessment under the Habitat Regulations. With a
Operational	Habitat degradation due to recreational pressures. In the absence of mitigation it is considered unlikely that		Overall it is considered in the <b>short term</b> there will be <b>no adverse impacts</b> on Bayswater Brook SLINC.	residual impact of site level only, on balance the population extent will not be significantly affected, after mitigation and provided the green north-south corridors provide appropriate
	there will be an adverse impact on the Brook resulting from increased recreational pressure	Pathway to provide access to alternative areas, and be set back from proportion of the SLINC; and	In the longer term, the enhancement and extension of habitat suitable for water voles means that there is a	nabitats and can be managed as such. A condition should be attached to any consent to ensure this happens.

IMPACT TOPIC	DESCRIPTION OF PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
		Habitat to be actively	likely significant positive	
		managed during the	effect.	The EIA acknowledges that
		operational phase to benefit		there will be a need for Bat
		biodiversity.		surveys prior to the granting of
		,		reserved matters for each
Construction	Hedgerows	Retention of most valuable	It is <b>probable</b> that there will	phase of the development as
	Habitat loss and		effects of negligible	bat survey data needs to be
	degradation	Habitat to be actively	significance as a result of the mitigation measures	regularly updated.
		during the operational phase	proposed	Sydlings Copse and College
		to benefit biodiversity		Pool SSSI
		•		. The EIA indicates that the
-				residual impact is negligible.
Construction	Grassland	Compensation entailing	It is <b>probable</b> that there will	Natural England is a statutory
89	Loss of 11.5ha of lowland	restoration of flood meadow	effects of negligible	consultee and will provide a
9	flood meadow (MG4 &	habitat off-site	significance as a result of	view on the significance of the
	MG5) is near certain to		the mitigation measures	residual impact.
6	result in a significant		proposed.	
19	adverse effect at the county			Flood-plain Grassland MG4
	scale (moderate).			The Grassland is of European
				conservation concern, and the
Construction	Badger	The badger sett will be	Through implementation of	England Biodiversity Action
	There is potential for habitat	relocated under licence from	appropriate mitigation, it is	Plan for lowland grassland has
	loss (foraging and sett	Natural England if required.	considered unlikely that	a policy to not reduce lowland
	construction) habitat	The alternative sett will be	there will be a <b>residual</b>	natural grassland any further.
	fragmentation and direct	situated within suitable	adverse effect upon	The EIA judged the significance
	effect (potential killing, injury	foraging habitat range and	badgers. In the unlikely	of the MG4 Grassland to be of
	and disturbance) during the	connected to the wider	event that a residual effect	County level. Because the
	construction phase.	landscape.	occurs it would be	proposal is to fully compensate
			significant at the Site level at	for the grassland and is
			most.	covered anyway by Oxford City
				Council's policy CS12, I have
Construction	Bats	During construction, where	It is considered overall, in	not considered the validity of
	To facilitate construction,	tree removal and/ or selective	terms of operational and	this assessment of significance
	habitat utilised by bats will	pruning is required, a ground	construction phases there	further.

IMPACT TOPIC	DESCRIPTION OF PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
	be removed including	level inspection will be	will be a residual minor	
	mature trees, hedgerows	repeated to confirm the	adverse effect on bats.	It will take up to 15 years for
	and other semi-natural	potential for bat roosts. Due		MG4 compensation to take full
	habitat types such as	to the phased nature of the		effect (to allow new
	grassland and tall ruderal	development is		ecosystems to establish). This
	vegetation. The masterplan	recommended to ensure the		means that the offset has to be
	retains key habitats where	most appropriate approach at		more than like for like to take
	the greatest bat activity was	the time of construction. The		account of this time lag. The
	recorded. These areas will	surveys will occur in		proposals for compensation
	be protected during the	association with the relevant		allow for this, but there should
	construction phase.	phase of the works.		be some controls in place to
				secure delivery of the full
Operational	There are likely potential	Key lighting design principles		compensation measures
	effects on habitat	will be implemented in order		proposed.
	degradation as a result of	to mitigate potential impacts		-
	lighting in the operational	on bats at the reserved		Considering the tight timetable
9	phase. There are potential	matters stage including using		for development, it is desirable
00	effects on bats of habitat	timers and lighting sensors		to provide the applicant with the
9	creation and management	where appropriate, using		flexibility to provide
0	of the habitats retained on-	narrow spectrum bulbs to		compensation outside the City
	site. During the operational	reduce the range of species		or the County. I accept this
	phase no further direct	affected by lighting and		because the habitat is rare and
	habitat loss is anticipated.	including directional lighting		is part of a national resource so
-		to avoid spill into areas which		safeguarding the national
		do not specifically need it.		resource is an acceptable aim
				of any compensation.
Construction	Birds	Longer term mitigation	The highest quality areas of	1
	The construction phase	through creation of	habitat available to nesting	Bayswater Brook SLINC
	requires remove of habitat	replacement habitat which will	birds on site will be retained	The proposed development
	suitable for nesting birds	become established during	and protected in their	would not have a significant
	such as hedgerow, trees,	the operational phase.	entirety, or in their majority.	impact beyond a site level, and
	scrub and ruderal		There will be an overall	that impact is fully mitigated. In
	vegetation; where clearance		reduction in suitable habitat	fact the development, if the
	is required it will be		for nesting birds and the	proposals for the linear park
des particular de la constante	undertaken outside the		potential for degradation of	managed for biodiversity are

IMPACT	DESCRIPTION OF PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
Operational	breeding bird season.		retained habitat during the	implemented, is likely to have
		Retention of a dense shrub	operation phase through the	its value significantly increased,
	No further direct habitat loss	layer where this already	additional pressure primarily	particularly for Water Voles, the
	is anticipated during the	occurs and creation of areas	associated with cat	main reason for the SLINC
	operational phase and the	of dense shrubbery is	predation.	designation.
	retained and newly created	_		
	habitat will be managed to	bird habitat. The precise area	Overall it is considered that	Hedgerows
	benefit biodiversity. Some	will be determined at the	there will be a minor	After mitigation the EIA
	residents may keep cats	reserved matters stage.	permanent adverse effect	assessed that the impact is
	which could increase the		at the <b>site scale</b> .	only at a site level. I accept
	likelihood of bird predation.			this, on the basis that the
				mitigation is implemented as
Construction	Invertebrates	Overall to facilitate	At the site level, the	stated which will retain much of
	The construction phase will	development on site there will	retention and long-term	the biodiversity functionality of
9	result in the loss of at least	be a reduction in the area of	management of a proportion	the more important hedges.
1	40% of the hedgerow. All	semi-natural habitat which is	of the main habitats of value	However, there is some conflict
	the woodland habitat	near certain to have an	to the invertebrate	in the submitted documents
9	currently present on site will	adverse effect on the	community means that it is	(Ecological and Arboricultural
1	be retained and protected	invertebrate community	unlikely that there will be a	reports) about the
	during the construction	present. Due to the spatial	residual minor adverse	implementation of the
	phase. The habitats form	constraints on-site, the loss of	effect at the district scale.	mitigation with reference to the
	part of the mosaic	grassland habitat is subject to		retention of Crack Willow
	supporting the current	off-site compensation. The	Residual positive effects	pollards and the provision of
	assemblage of invertebrate	method for compensation set	are likely to result from the	adequate grassland strips
	species. A maximum of	out in respect to grassland	compensation grassland	along the North-South- vital for
	23.5ha of grassland and	will also benefit the	and it is likely that the	
	3.2km of hedgerow will be	invertebrate community local	invertebrate community	importance of the hedges. This
	removed. With the absence	to the compensation areas.	present in the vicinity of the	discrepancy needs to be
	of mitigation the loss of		compensation site will	resolved.
	grassland and hedgerow is		benefit from these measures	
	near certain to lead to minor		at the local scale.	Birds
	adverse effects at the			The EIA states that the birds
	district scale.			using the site are of Local
Crostional	During the operational			biodiversity significance. Part of the reasoning in the FIA is that
Operational	בייוווק ווופ סלפומווסוומו			מוס וסמסטוווול ווו מוס בוע וא מומט

TOPIC	PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMEN S
	phase, retained and newly			the site is used by species on
	created habitats in			the NERC Act list, under wildlife profection legislation
	confinal aleas will be managed to benefit			and on other lists of birds of
	biodiversity. The proposed			conservation concern
	development will include			considered as valid by the UK
	6.99ha informal open space.			Government, and therefore
	It is likely that in the longer			should be considered as
	term, positive minor			Species of biodiversity
	permanent beneficial effects			importance for Policy CS12.  The EIA argues that the best
				areas for birds will be retained
Construction	Otter			and 40% of the hedgerow
	It is likely that there would	The immediate corridor of the	Although, the Proposed	habitat retained with associated
	be minor adverse impact at	Bayswater Brook will be	Development will alter the	edge habitat and therefore with
	the site scale during the	largely unaffected during the	character of habitat present	mitigation the impact will be
	construction of new	construction works, with the	to the south of the	only significant at a site level,
	attenuation features in the	majority of mature trees and	Bayswater Brook, in the	though the impact of domestic
	habitat south of Bayswater		longer term the channel will	cats introduces some
	Brook.	otter resting places have	remain a suitable habitat	uncertainty. I accept this
		been identified, there is no	resource for otter.	analysis. However this
	Standard pollution	know requirement for		reduction of significance of
	prevention processes will be	mitigation (under licence from	Overall, it is considered	impact is contingent on full
	adopted throughout all	Natural England).	probable that there will be a	implementation of the
	construction activities and		negligible effect upon this	mitigations and management of hahitat
	Therefore habitat		Proposed Development.	
	degradation as a result of			The EIA does add a rider to its
	pollution is unlikely to occur.			assessment- the impact of
				domestic cats on bird
Operational	Proposed development	To mitigate potential habitat		population in the operational
	includes creation of	disturbance during the		phase of the development is
	recreation areas and pauts in close proximity to	operational priase The habitat corridor		wish to be cautious over the
	Bayswater Brook. Due to	adjacent to Bayswater		impact of domestic cats and

rec	FREDICTED INFASTS		RESIDUAL IMPACT	
do	recreation pressure in the	Brook will contain		consider the residual impact on
_	operational phase there is	areas of dense		birds to be overall significant at
od	potential for a decrease in	planting along the		a local (District) level.
ns	suitable habitat.	existing tree line to		
		discourage direct		Invertebrates
		access to the water		The EIA assessed the current
		course by recreation al		value of the invertebrates found
		users and provide		on the site as at a Local
		cover for otter;		(District) level. The
		- Recreational pathways		invertebrates using MG4
		will be set back from		grassland are the reason for
		the Brook, being over		this Local significance;
		10m away where		However it is proposed to fully
		possible to avoid		mitigate the loss of the
9		informal access to the		grassland. The remaining
3		channel and damage		invertebrate value of the site is
9		to the bankside		only of Site importance
3		vegetation; and		according to the EIA, and with
		- There will be no		the creation of the linear park
		artificial lighting or		and its management for
		light-spill onto the		biodiversity, the site may
		Brook or its associated		deliver a positive impact on
Construction Re	Reptiles	semi-natural habitat.		biodiversity of Local (Direct)
<u>~</u>	Vegetation clearance will be		Mitigation proposed during	significance. There are two
- ne	necessary to facilitate		the construction phase	invertebrate species found on
8	construction, this includes	To minimise the risk of killing	reduces the risk of killing	site that are acknowledged of
- ha	habitat suitable for reptiles	and, or injuring grass snake	and, or injuring reptiles. It is	national conservation concern,
<u>&gt;</u>	where a low, breeding	mitigation will be designed	therefore considered	and careful management of the
<u>a</u>	population of grass snake	into phase specific EMMS to	probable that there will be	linear park should provide
- P	has been recorded. In the	cover vegetation clearance	no adverse effect in this	habitat suitable for them, so the
at	absence of mitigation there	activities where this includes	respect. There will be a	development accords with
.i.	is the risk of killing and, or	habitat suitable for reptiles.	temporary adverse effect at	Policy CS12 in relation to
<u>.⊑</u> `	injury of grass snake during	The following actions will be	the Site scale, during the	invertebrates.
<u>5</u>	clearance activities. Grass	completed:	construction phase resulting	
S	snake are relatively	<ul> <li>Vegetation clearance</li> </ul>	from temporary habitat loss.	Badgers

IMPACT TOPIC	DESCRIPTION OF PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
	widespread in Oxfordshire,	from habitat suitable	However, in the longer term	For Badgers, I consider that the
	however the loss of animals	for reptiles will be	the masterplan includes	biodiversity impact is of Site
	along the Bayswater Brook	undertaken under an	creation of replacement	importance only. This is mainly
	corridor has potential to	ecological watching	habitat which will be	because it is considered the
	fragment the local	brief, during the	managed to provide suitable	badgers will lose some foraging
	population. For this reason,	seasonal period when	conditions for reptiles and it	area but the Social Group will
	in the absence of mitigation	reptiles are active (i.e.	is therefore considered	survive by compensating with
	it is considered probable,	April-September	probable that residual	other areas off site, and using
	that this would lead to an	inclusive);	effects upon this receptor	the naturalistic park areas and
	adverse effect at the Local	<ul> <li>Immediately prior to</li> </ul>	will be <b>negligible</b> .	natural corridors of the
	scale (minor).	clearance the ecologist		development.
		will complete a		
	During the construction	fingertip search to		Otters and reptiles
	phase, the corridor of	detect snakes present		I accept assessments for the
	suitable habitat available to	in the works area. If		significance of residual impacts
-	reptiles along the Bayswater	detected, individuals		on the Otters and reptiles, both
77	Brook will be narrowed. The	will be moved to		at below Local level.
<b>2</b> 4	loss of habitat, before	suitable habitat in the		
	replacement suitable habitat	Bayswater Brook		Barton Village Nature Area
	is created as part of the	corridor which will		I accept that the biodiversity
	overall masterplan, will	remain unaffected by		value of Barton village Nature
	temporarily restrict the	proposed works; and		Area is only of Site level or
	extent of habitat available	<ul> <li>Clearance will then be</li> </ul>		below. This part of the site is
	and reduce connectivity of	completed to		discussed in the BAAP and the
	habitat along the Brook	approximately 200mm		desirability of developing the
	corridor. It is considered	above ground level		site explained. Given the low
	near certain that this will	using hand tools, or a		ecological value the area holds
-	lead to a temporary,	mounted flail with		the proposed changes will not
	adverse effect at the Site	clearance undertaken		have an adverse impact
	scale (minor).	towards retained		(although in landscape terms
		habitat enabling any		this may require careful
Operational	The masterplan includes the	reptiles previously		delivery to avoid other impacts)
	creation of suitable reptile	undetected to escape		
	nabitat Within the Bayswater Brook corridor which will	towards suitable		
		Habitat.		

TOPIC TOPIC Noise Noise
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OFFICERS COMMENTS	but I will require further	location points.	<ul> <li>I am content to consider</li> </ul>	construction	noise/vibration and	mitigation once the	CEMP is submitted.	I would like to see the	baseline noise data used	to Inform the design of	the site so as to protect	spaces, both private and	communal. This is a	preferred approach,	rather than designing	building envelopes to	accommodate site	layout.	<ul> <li>I am content to consider</li> </ul>	construction lighting	once the CEMP is	submitted.	<ul> <li>I have no concerns to</li> </ul>	raise with regard to	street lighting. These	lighting schemes are	unlikely to cause	statutory nuisance.	Other issues such as	impact on biodiversity	and road safety are for	other agencies to	comment upon.
SIGNIFICANCE OF RESIDUAL IMPACT																			Following mitigation, the	magnitude of vibration	effects on occupants of the	surrounding residential	properties, and the buildings	themselves, is <b>likely</b> to be a	direct, temporary, short-	term and of negligible	significance.						
MITIGATION PROPOSED	The selection of the quietest	practicable plant and	techniques.		Experience from other sites	implementing the above	miplementing the above	measures, typical noise levels from construction works can	horizonal de approximately	5 to 10 dB										_	oration levels to a	particular, Best	le Means should be	adopted.				techniques to be employed.					
DESCRIPTION OF PREDICTED IMPACTS	scenario.	The worst-case noise levels	should be treated with	caution as they are	considered to be an	indication of what could	happen, for a limited period	in the absence of mitigation.		I nere is likely to be a direct,	temporary short-term enect	residential properties of	negligible to major negative	significance without the	implementation of	mitigation.	1	Potential Construction	Vibration effects (existing	dwellings)		The main sources of ground	bourne vibrations are likely	to be:		<ul> <li>The use of tracked</li> </ul>	excavators during	site clearance work;	<ul> <li>The use of vibratory</li> </ul>	compactors during	site clearance works;		- I he use of bored
IMPACT															9	g,																	

Should other lighting scheme be proposed, such as commercial carparking/security lighting or sports pitch flood lighting, Environmental Development should be consulted as these have the potential for causing significant intrusion or statutory nuisance.		
SIGNIFICANCE OF RESIDUAL IMPACT	In terms of the majority of dwellings, located away from the A40, beyond at least the outermost dwellings, the magnitude of effect is anticipated to be negligible. Therefore, there is likely to be a direct, permanent, long-term effect of negligible significance.	In terms of a minority of dwellings, where the adopted internal targets may be exceeded with windows open, the magnitude of effect is anticipated to be low.
MITIGATION PROPOSED	For those dwellings in NEC A, no mitigation is required. For those in NEC B, include the following: Locate gardens away from A40 Orientate habitable rooms away from A40	Fit acoustically treated passive ventilation units to dwellings within NEC B  Consider mechanical ventilation for dwellings within NEC C
PREDICTED IMPACTS  PREDICTED IMPACTS  piling rigs during foundation works.  The magnitude of effects is predicted to be negligible to low. Therefore there is likely to be a direct, temporary, short-term, effect on occupants of the surrounding residential properties of negligible to minor negative significance prior to the implementation of mitigation measures.	Potential noise effects from existing and future road traffic on proposed dwellings  The majority of the site falls within NEC A. There is a small strip of the site within NEC C. The remainder of the site (around 40%) is in NEC B.	The effect on any dwellings located in areas classified as NEC A would be negligible. Therefore, there is likely to be a direct, permanent, long-term effect on the dwellings of negligible significance
TOPIC	97 9>	

OFFICERS COMMENTS	
SIGNIFICANCE OF RESIDUAL IMPACT Therefore, there is likely to be a direct, permanent, long-term effect of minor negative significance.	With intervening buildings acting as screening, there is likely to be a direct, permanent, long-term effect on the school of negligible significance.
MITIGATION PROPOSED	Intervening buildings as a result of the proposed development will act as screening of noise for the school. With these buildings in place it is anticipated that the effect of road traffic will be negligible. As such no further mitigation is proposed.
pescription of prior to the implementation of mitigation measures.  The effect on any dwellings located in areas classified as NEC B would be low.  Therefore, there is likely to be a direct, permanent, long-term effect on the dwellings of minor significance prior to the implementation of mitigation measures.	The effect on any dwellings located in areas classified as NEC C would be medium. Therefore, there is likely to be a direct, permanent, long-term effect on the dwellings of moderate significance prior to the implementation of mitigation measures.  Road Traffic noise at future school The whole of the site falls within the acceptable limits of noise for new schools albeit, the likely noise is at the upper limits of what is considered acceptable.  Based on the assessment of
TOPIC	98 98

OFFICERS COMMENTS		
SIGNIFICANCE OF RESIDUAL IMPACT	Assuming the use of suitable means of ventilation, and where the noise levels within gardens is no more than 55 dB, the magnitude of effect is anticipated to be low negative. Therefore, there is likely to be a direct, permanent, long-term effect of minor negative significance. Where noise levels within gardens exceed 55 dB, the magnitude of effect is anticipated to be medium negative. Therefore, there is likely to be a direct, permanent, long-term effect of moderate negative significance.	Given the indirect mitigation
MITIGATION PROPOSED	A screen will be erected but given the low frequency nature of the noise from the substation this is likely to be of limited effectiveness. The screen is primarily for visual effectiveness.  Once windows are opened in properties it is unlikely that the noise criteria would be met therefore mechanical ventilation units should be considered in properties in the NEC C area.	In terms of the majority of dwellings there is no mitigation proposed as there
PREDICTED IMPACTS the school area as a whole, there is likely to be a direct, permanent, long-term effect of negligible significance. The effect on the internal areas of the school is likely to be of low significance.	Potential noise from the substation on proposed dwellings In the daytime the noise from the substation is masked by the A40 but at night the substation does affect the noise on site as the noise from the substation remains constant. Those properties closest to the substation site are in the NEC C noise class. Any impact on these properties is likely to be direct, permanent, long-term effect of moderate significance.  Some dwellings would also fall within the NEC B. Any impact on these properties would be of low significance.	Potential noise effects from future road traffic on existing
TOPIC	99	

OFFICERS COMMENTS	
SIGNIFICANCE OF RESIDUAL IMPACT as a result of the queue reductions, the overall effects range from negligible to minor significance.	There is likely to be a direct, permanent, long-term effect on the nearest dwellings of negligible significance.
is unlikely to be any effects of more than negligible significance.  Limited mitigation measures area available for the remaining properties and those mitigation measures available have been presented in the TA in order to decrease queues in the vicinity of the Barton Village Road where predicted noise impacts are highest.	There are no significant issues anticipated. Providing the quietest plant is installed at the furthest point from the neighbouring dwellings and/ or where ambient noise levels are highest, and with
_ = +	the road/ link).  Those existing dwellings dominated by noise from the sections of the A40 subject to a reduction in speed are likely to experience a direct, permanent, long-term positive effect of low significance.  Potential noise effects from future building services plant on existing and future dwellings Possible that school, retail, employment and community elements of the proposed development will require
TOPIC	1600

E OF OFFICERS COMMENTS PACT		ered that any Measures to ensure that local	economic opportunities within the job-		<u> </u>	employment the construction phase. The mplemented mitigation measures suggested												
MITIGATION PROPOSED SIGNIFICANCE OF RESIDUAL IMPACT	silencers, enclosures or screens used. These will be controlled via planning conditions where necessary.	will	explore potential links to residual socio economic education and community effects will result from the			Employment and Skills Plan   to which local employment to specify the provision for   initiatives are implemented	»		-	Procurement of contracts	related to the development	will seek to promote local	businesses through the	based in the County of	Oxfordshire (subject to	meeting general minimum	cnteria) in the list of tenderers for each phase of the	development.
DESCRIPTION OF PREDICTED IMPACTS	t as t at	-	I ne majority of permanent exemployment space and jobs e	)	from the retail	floorspace. E	It is considered likely that	the development will create jo		construction jobs at 2019.  There is a possibility that			that major construction	plno		E .		<del>  Q</del>
IMPACT		Socio-		1	01	101	Construction		-									

OFFICERS COMMENTS	During the operational phase, it is likely that regeneration benefits associated with the scheme will benefit the existing community as well as the new one. The direct employment associated with the operational phase of the development could all be sourced locally, and depending on the level of success with the integration of the mitigation initiatives, there could be positive beneficial effect.
SIGNIFICANCE OF RESIDUAL IMPACT	Depending on the level of success with integrating these initiatives, this has the potential to have a moderate beneficial effect.
MITIGATION PROPOSED	There is potential for a local skills and employment programme for the construction stage of the development to ensure local access to jobs and training. This could be provided alongside existing programmes being delivered by the Barton Community Association and/or the Barton Job Club.
DESCRIPTION OF PREDICTED IMPACTS	Direct Employment It is estimated that 208FTE jobs could be generated from the proposed development.  Employment FTE jobs Cultural/ Community Building Food superstore 82 Hotel 60 Primary School 30 Retail (High St) 20 Extra Car Housing 12 Total 208  Indirect Employment is determined by a number of factors:  • Leakage: The proportion of jobs that may be taken by people living outside of the assessment area;  • Displacement: This reflects the potential reduction in activity elsewhere in the area;  • Deadweight: The proportion of employment that may have occurred in the area without the Proposed Development; and
IMPAGT	Operational 384

MITIGATION PROPOSED SIGNIFICANCE OF OFFICERS COMMENTS RESIDIIAL IMPACT																							The increase in population is No residual effects as a
DESCRIPTION OF N	Multiplier Effects: These are the further economic	activity (indirect and induced jobs) generated as a result	or trie additional direct income and supply chain	activity.	Operational	)	Minis 10% 187	 Minus 0% 187 displacement	Minus 0% 187	Total Direct 187		+ 10% Local 206	Total Local 206 Jobs (Net)	A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	At the scheme's operational phase (2019) it is	anticipated that the	development will generate	Considered a positive	beneficial effect of moderate	significance. A large	proportion of the employees	are expected to come from within the application site or the inner impact area	
IMPACT TOPIC									1(	0,3	63	•											

OFFICERS COMMENTS	The addition of a new 1.5-2FE school mitigates the additional need generated by the likely growth in children associated with the new population.
SIGNIFICANCE OF RESIDUAL IMPACT result of population growth.	Depending on the size of school built there is potential that the on-site primary school capacity outside of the Application Site. This is considered as a major beneficial effect, providing additional capacity to cope with the significant impending increase in school demand across the city, as identified in the Oxfordshire Pupil Places Plan (2012/13 - 2016/17).  With demand arising for secondary school and sixth form provision, the Oxfordshire Pupil Places
central to the nature of the Proposed Development. As a result, this is deemed neither positive nor negative in terms of assessing significance of effects. It is the effects of this change on the wider population that is to be assessed.	The development of a primary school (1.5FE –potential for 2FE) is proposed on-site. Depending on the phased delivery of this, additional demand in the interim should be sufficiently absorbed within the planned school expansion of the Bayards Hill primary school.  There is also potential for the planned school to incorporate an early-years (ages 0-3) facility, which would also sufficiently mitigate demand on-site.  There are no proposals at the Application Site to provide
ead lopment which and 40% The of out for	Population 283 2485 ces pment will d for local cting of the new rdable lt of the commer of to the comment. Form entries
PESCRIPTION OF PREDICTED IMPACTS Population generated through the scheme The proposed development includes up to 885 residential units of which 60% will be market and 40% affordable housing. The following estimates of population are set out for the beginning and end of the scheme	YearUnitsPopulatio201410028320198852485EducationServicesThe new development will increase demand for local schools by attracting families to live in the new market and affordable properties.The following tables show the estimated number of pupils as a result of the proposed development.Construction: AgeForm entriesO-310-4-10290.1
TOPIC TOPIC	1944

OFFICERS COMMENTS	Given the mitigation proposed and using the figures provided, the health effects (need for additional GP, dentists etc.) of the development can be accommodated in the wider community and on-site at the Community Hub.	·
SIGNIFICANCE OF RESIDUAL IMPACT Plan suggests that there is sufficient capacity within the two local secondary schools to accommodate this growth in the short-term. The longer-term however, may see an expansion of existing school capacity as opposed to new school development.	With regard to secondary and sixth form place demands, it is therefore considered that the effect of the scheme would be negligible.  Based on the proposed mitigation there is no residual effect with regard to Health impacts.	
MITICATION PROPOSED  any secondary school provision and this will therefore require a financial contribution to provision off site.	There are currently no proposals at the Application Site to provide any healthcare provision. However, there is potential for healthcare outreach services to be provided as part of flexible community floorspace within the Community Hub.  Discussions are also oncoing to investigate the	potential to improve the satellite surgery of the Bury Knowle facility (in the Barton neighbourhood centre) to accommodate the need for an
DESCRIPTION OF PREDICTED IMPACTS           11-15         18         0.1           16-17         3         0.1           Operation:         Age         Pupils         Form entries           0-3         59         -           4-10         272         1.3           11-15         162         1.1           16-17         23         1.1	Health Effects There are no statutory limits on the number of patients per GP. For modelling purposes a standard of 2,000 patients per GP has been developed for use by Oxfordshire County Council.  At 2019, the estimated population increase as a result of the development	could generate demand for at least one additional GP. This is considered to be a moderate negative impact.
TOPIC	10505	

OFFICERS COMMENTS			New community space			<u> </u>	nat surrounding area.	pe							Ç									
SIGNIFICANCE OF RESIDUAL IMPACT			Because of existing local capacity and proposed new	community space, the	provide new residents with	additional, quality	community space than what is required to meet demand.	This is therefore considered	as having a moderate	beneficial impact.	Furthermore having	additional designated	community space on-site	will also contribute to the	sustainability and overall	place-lilaniily qualities of the								
MITIGATION PROPOSED	additional GP.	These options have the potential to mitigate the impact.	At least 340 m <sup>2</sup> of flexible community-use space is	proposed at the Application Site as part of the primary	school. Including dedicated	community space of 100 m²	and use of the school hall (180m²).		The pavilion will also be	expanded (60 m²) proposed to be provided as part of the	new pavilion, delivered as	part of the Community Hub.		Results of the Barton Hub	Building Service Audit (2011)	suggest that there is callently	apploximately 140 III Ol spare community space	located within the Barton	Neighbourhood Centre. This	centre is situated in close	proximity to the Application	Site, with new residents able	to access this space.	Depending on the phasing of delivery, demand at both
DESCRIPTION OF PREDICTED IMPACTS			Community Facilities Modelling suggests that	increased demand as a	and population growth	associated with the	development) will be an increase of 36m2 at the	start of the development	(2014) and 321 at the	operational phase of the		The table below shows the	breakdown at the different	phases of development:		Community/ Construction		s (m²)	Community 17	Library space 6	Arts/ Cultural 13	space Total		Operational:
IMPACT DE			Ϋ́	ž Ž	(a)	as .	de in	st		d d d		Ė	pr	<sup>l</sup> d	Č			<u>"  </u>		<u>' -</u>	A	<u>σ</u> -		Ō

OFFICERS COMMENTS			The views of Oxfords historic core have high significance and the viewing places also have significance for the history of the view and how it has been
SIGNIFICANCE OF RESIDUAL IMPACT		The cumulative assessment concluded that there would be no significant effects.	The following significant residual impacts are considered unavoidable:
MITIGATION PROPOSED  2014 and 2019 should be more than sufficiently	mitigated, with additional capacity also available. This is therefore considered as having a moderate positive impact.	Mitigation measures have been built into the design of the scheme. Further mitigation includes (on the topic of health) the need to accommodate an additional GP at the Barton Neighbourhood centre.	Measures to minimise the landscape and visual effects have been developed during the design process and incorporated into the final
DESCRIPTION OF PREDICTED IMPACTS Community/ Construction Cultural (2014)	space 57  Iltural 112	Cumulative effects assessment was undertaken for each of the above topics. This looked at the effects of the development in the context of what other developments are happening within Oxford — particularly the strategic developments at Northern Gateway and the West End. Locally, cumulative increases in population could be around 4,500 additional residents. This includes new residents at at Westlands Drive and the Northway Centre.	Although the proposed development is large scale, lies adjacent to the open countryside and is near to the conservation area of Old
TOPIC PREDICTE Community/	Community Space Library space Arts/ Cultural space Total	Cumula A cumu assessr underta above ta the effect develop of what are hap — particulation increase could be addition includes Westlar Northwest	Landscape & Althoug Visual Quality develop lies adje country

OFFICERS COMMENTS	recorded over time. During the	C20th viewers will have	witnessed a variety of changes	to Oxford's setting with the	development of the suburbs (in	particular its rapid post war	growth associated with the car	industry), the loss of some	C19th suburbs and the	development of the city's	hospital and medical research	facilities. These changes, a	part of Oxford's history and	identity, have not directly	impacted on the views of the	historic core, but they have	changed the wider setting.		Old Headington is a designated	conservation area (and also	Elsfield, but within another local	authority boundary) and	therefore has high significance.	The relationship of the	application site to Old	Headington is that it forms part	of the rural setting of the village	to the north – containing	physical evidence of the	historic field patterns and	understanding of the village's	agricultural origins. Views of	the village, nestled in amongst	the wooded hillside, with a few	key buildings - the church,
SIGNIFICANCE OF RESIDUAL IMPACT	All medium term impacts	<ul> <li>Change in character</li> </ul>	and landscape	resources of the site	area.	- Change to	Landscape Character	Area 2B Cherwell	Pastoral Floodplains	- Change to	Townscape	Character Area 3B	Old Headington	Historic Village Core		Operational:	All long-term impacts	- Change in character	and landscape	resources of the site	area.	- Change to	Landscape Character	Area 2B Cherwell	Pastoral Floodplains	- Change to	Townscape	Character Area 3B	Old Headington	Historic Village Core					
MITIGATION PROPOSED	design. These include	suggested mitigation	measures set out in the EIA	scoping report. The predicted	adverse effects beyond the	immediate local area are	mainly as a result of the scale	and nature of the	development.			Headington, it was identified	that an area of up to 4.5	storey residential	development had the	potential to encroach into	views to a greater degree	than the remaining	development. Although this	would not result in a step	change in the assessment	results, the benefits of	reducing the visual effect in	views from a sensitive area	were recognised and the area	was reduced to up to 3.5	storey. No additional and	practicable additional	available measures that could	reduce the adverse effects of	the proposed development	whilst maintaining the		development have been	identined.
DESCRIPTION OF PREDICTED IMPACTS	Headington, significant	landscape and visual effects	are restricted to a very	localised area. This is	chiefly as a result of local	topography, with high	ground to the north, south	and east enclosing the area.	To the west, potential views	over lower-lying agricultural	land, are restricted by trees	and hedgerows.		The character of the	landscape of the site will	inevitably be physically	altered by the proposals.	Some trees and hedgerows	will need to be removed to	enable development,	including access. However	most of the site trees and	hedgerows, including most	identified as important under	the hedgerow regulations,	will be retained and	integrated into the	landscape and open space	structure. However, the	main change to the site	character will be the	replacement of rural fields	with development and this	will result in the only	landscape effect of
IMPAGT TOPIC																	12	08	}																

SIGNIFICANCE OF OFFICERS COMMENTS RESIDUAL IMPACT	visible amongst the trees and	the Rookery (Ruskin College)	visible above its walled garden	and open fields are possible	from the tootpath network	leading down from Elstield,	hold aesthetic value. The	current field pattern and	hedgerows to the application	site form the fore and middle	ground to these views. Also in	the view are the developments	at Barton and Northway and	the JR above, which means	that the application site	represents the only surviving	element of the agricultural	landscape immediately south of	the Bayswater brook.		From within the village this	wider setting is generally not	apparent and the character of	the village is unaffected by the	development proposals.		The application is accompanied	by a series of technical	documents that examine the	existing characteristics of the	site and its role within the wider	landscape. Using accepted	professional and technical	methodologies these studies	also examine the nature of
OF MITIGATION PROPOSED IPACTS	ificance.	:	ects on the	surrounding	townscape,	significant;	ant effects	moderate	Character		oral	d Character	eadington	Core.		Je Je	he north of	experienced	oublic rights	usion of	tion will help	ssimilate	vooded urban	. The	of Old	still be	m the	lic footpaths,	will be	struction of	se sections of	to and	h, the site.	s to Oxford	the Elsfield
IMPACT DESCRIPTION OF TOPIC PREDICTED IMPACTS	substantial significance	i	The indirect effects on the	character of the surrounding	landscape and townscape,	are mostly not significant;	the only significant effects	being effects of moderate	significance on Character	Area 2b	(Cherwell Pastoral	Floodplains) and Character	Area 3B, Old Headington	Historic Village Core		O In views from the	countryside to the north of	o the site, chiefly experienced		of way, the inclusion of	existing vegetation will help	the proposals assimilate	with the semi-wooded urban	edge of Oxford. The	wooded setting of Old	Headington will still be	appreciated from the	network of public footpaths,	although there will be	unavoidable obstruction of	views from those sections of	footpath close to and	passing through, the site.	Important views to Oxford	City core from the Elsfield

SIGNIFICANCE OF OFFICERS COMMENTS RESIDUAL IMPACT	change proposed and what	have on the landscape	character, views, heritage	assets and their settings.	The conclusions in those	reports are broadly that the	magnitude of change will be	significant and the effect	adverse. The Parameter Plans	accompanying the application	seek to provide a framework to	inform detailed design and	provide a mechanism for	helping to ensure that adverse	impacts can be minimised or	mitigated. These parameter	plans are supported by a	design code to advise on	detailed aspects of the design	and layout.		The documents and plans and	the supporting illustrative	masterplan show that it is	proposed to retain evidence of	the historic field pattern by	retention of field boundaries,	integrating them into the	proposed layout. These will	provide a memory of the	historic field pattern. Given that	the site is allocated for	development and that the
MITIGATION PROPOSED CTS	errupted		he views.	pue	ne site	effects of	the	of	ly restrict	m the	ws from			will help	ese	als will be	ws, but	istics of	which the	appraisal	lds south	Elsfield	ned and	effects on	tive views	on is	rate for a			sed area	uo bu	affected	We
IMPACT DESCRIPTION OF TOPIC	ridge will not be interrupted	by the proposals will be visible	to the east side of the views.	The retained trees and	hedgerows within the site	combined with the effects of	vegetation beyond the	site and the effects of	topography currently restrict	views of the site from the	south including views from	Old Headington	conservation area.	Additional planting will help	to further restrict these	views. The proposals will be	visible in some views, but	the main characteristics of	views to the north, which the	conservation area appraisal	identifies as the fields south	of the A40 and the Elsfield	Ridge, will be retained and	the significance of effects on	the five representative views	from Old Headington is	assessed as moderate for a	number of views.		Views from a localised area	of Northway centring on	Meaden Hill will be affected	by the proposed new

OFFICERS COMMENTS	existing character will change retaining hedgerows allows some sense of continuity with	the past (as well as helping to deliver on other objectives –	ecology, landscape, and archaeology).	There is reliance in the proposals on the role and contribution existing and	proposed landscaping will provide in screening, softening	development. Given the density and height of some	parts of the proposal this development will be visible, no	landscaping is provided.				
OSED SIGNIFICANCE OF RESIDUAL IMPACT												
OF MITIGATION PROPOSED PACTS	A40 and the of the	ond will be	s much of will remain	ē	on will be lopment	rge change ostantial	ffect on nmediate	tricted to a ea and the	of the I enhance of this	ill result in landscape s. including	nges to the site, but the of	s limited to cted area of ntryside and
IMPACT DESCRIPTION OF TOPIC PREDICTED IMPACTS	access from the A40 and development at the gateway. Views of the	countryside beyond will be restricted in some	but in most views much of the countryside will remain	visible beyond the development.	Views from Barton will be affected as development	area, with this large change resulting in a substantial	Significance of effect on views from the immediate	effect will be restricted to a very localised area and the	sensitive nature of the development will enhance the urban quality of this	edge of Barton.  The proposals will result in some significant landscape and visual effects, including	unavoidable changes to the changes to the character of the site, but the overall picture is of	significant effects limited to a relatively restricted area of surrounding countryside and

OFFICERS COMMENTS	exposures in the near vicinity to	transport and air quality	assessment will need to	carefully consider not only the	impact of additional traffic at	Green Road roundabout, but	also whether there may be	additional localised traffic	congestion with subsequent air	and noise pollution hotspots,	resulting from the development.		It is considered that the traffic	assessment should consider	the combined impacts of air	pollution and noise, in order to	reflect the local perception of	disturbances from the	additional traffic associated	with the development.		The air quality assessment will	need to consider the	significance of the impacts of	air pollution from the	development. It is	recommended that reference is	made to the criteria used within	the EP (UK) Development	Control: Planning For Air	Quality (2010 Update), notably	the criteria expressed in Box 1,	p21. The scope of the assessment should include an
SIGNIFICANCE OF RESIDUAL IMPACT	of the construction or	Proposed Development.																															
MITIGATION PROPOSED	be covered or vegetated as soon as is practicable:	d) regular inspection and, if	necessary, cleaning of local	highways and site boundaries	to check for	dust deposits (and removal if	necessary);	e) minimise surface areas of	stockpiles (subject to health	and safety and visual	constraints regarding	slope gradients and visual	intrusion) to reduce area of	surfaces exposed to wind	pick-up;	f) where appropriate,	windbreak netting/screening	will be positioned around	material stockpiles and	vehicle loading/unloading	areas, as well as exposed	excavation and material		to provide a physical barrier	between the Application Site	and the surroundings;	g) where practicable,	stockpiles of soils and	materials will be located as	far as possible from sensitive	properties and ecological	receptors (i.e. vegetation),	taking account of prevailing wind directions
13	advanced dispersion modelling to predict the	changes in NO2 and PM10	concentrations that would	occur due to traffic	generated by the Proposed	Development.	:	The results show that the	Proposed Development	without mitigation would	cause large to negligible	increases in NO2 and PM10	concentrations at the	assessment receptors.	However, under the DS	scenario with mitigation the	predicted NO2 and PM10	concentrations for the	opening year would show	large to negligible	decreases at all modelled	receptors. Therefore, the	effects of the operation	phase with mitigation are	considered to be substantial	beneficial to negligible effect	for NO2 and annual mean	PM10 concentrations, and	neutral for daily mean PM10	concentrations according to	the EPUK criteria.	Therefore, there is likely to	be a direct, permanent long- term effect on local air
IMPACT TOPIC														1	13		//	3															

OFFICERS COMMENTS	estimate of the number of	properties that may be	adversely affected, as well as	preparing to consider the effect	of mitigation measures (Table	7) where the scheme is shown	to have significant effects.		Mitigation measures should	include measures to promote	low emission transport	measures, particularly public	transport provision, and	measures to provide	alternatives to the use of	private motor vehicles.		There is an ambition within	Oxford to demonstrate that new	developments are contributing	to a Low Carbon economy	and low carbon transport	solutions, thus it is expected	that the assessment takes this	into account, by demonstrating	the impact of measures to	reduce emissions from the	development.		An integrated approach should	be taken in assessing the	impact of transport from this	development that combines the	transport assessment within or alongside the Environmental
SIGNIFICANCE OF RESIDUAL IMPACT																																		
MITIGATION PROPOSED	and seasonal variations in the	prevailing wind;	h) during dry or windy	weather, material stockpiles	and exposed surfaces will be	dampened down	using a water spray to	minimise the potential for	wind pick-up;	i) use of dust-suppressed	tools for all operations;	j) ensuring that all	construction plant and	equipment is maintained in	good working order and not	left	running when not in use;	k) Restrict on-site movements	to well within site and not	near the perimeter, if	possible; and	I) no unauthorised burning of	any material anywhere on	site.		A framework Construction	Environmental Management	Plan (CEMP) will be in place	outlining mitigation measures	recommend.		It is recommended that dust	monitoring is undertaken	during the construction period. The results of this
DESCRIPTION OF PREDICTED IMPACTS	quality of substantial	beneficial to negligible	significance.																															
IMPAGT TOPIC																	11	4,	4															

OFFICERS COMMENTS	Impact Assessment, in a way	that highlights to what extent	measures to promote	sustainable transport are being	implemented (or not) as the	case may be.		This assessment should	consider impacts on air quality	and carbon emissions, on the	basis of:-	1) Local assessment with	no development (taking	account of predicted	traffic growth)	2) Local assessment with	development (taking	account of predicted	traffic growth) -no	measures to promote	sustainable travel	3) Local assessment with	development (taking	account of predicted	traffic growth)with	measures to promote	sustainable travel,	highlighting to what	extent measures to	promote sustainable	transport are predicted	to contribute to reducing	emissions of carbon and air pollution.
SIGNIFICANCE OF RESIDUAL IMPACT																																	
MITIGATION PROPOSED		available to the local authority	throughout the construction	phase period. In the instance	of elevated levels observed at	sensitive locations, additional	mitigation measures can be	applied.		Operational Mitigation		ambient air NO2 and PM10	concentrations attributable to	traffic associated with the		is the need for the	implementation of mitigation	measures detailed within the	Travel Plan.		All receptors in the DS	scenario, which includes the	proposed mitigation	strategies, show significant	decreases in pollution levels	with the predicted effects	ranging from negligible to	substantial beneficial. This is	likely to be attributed to the	decrease in AADT flows and	decreased congestion on	roads affected by the	proposed mitigation measures.
DESCRIPTION OF PREDICTED IMPACTS																																	
IMPACT TOPIC														1	15	· //	15																

IMPACT TOPIC Ground Conditions	PREDICTED IMPACTS Exposure to Contamination and Geotechnical Hazards	MITICATION PROPOSED Workers will be required to wear personal protective	SIGNIFICANCE OF RESIDUAL IMPACT There will be a residual risk of negligible significance.	OFFICERS COMMENTS  The ground conditions chapter in the Environmental Statement
Construction	on Construction Staff During earthworks and excavations, construction workers may be exposed to contaminants. Certain	equipment. Appropriate hygiene and welfare facilities will be provided as per relevant regulations.		sets out the assessment methodology and baseline conditions based on previous site investigation information. The report confirms that parts of the site are impacted by
	found in the made ground at concentrations that could pose a risk to construction workers health.  There are short term negative effects of a moderate to major significance.	conducted.		contamination. Contaminant linkages have been identified using the source-pathway-receptor model and likely significance and mitigation have been outlined. It is understood that additional sampling is being undertaken and that a supplementary technical addendum will be submitted at a later stage.
	Potable Water Supply The nearest public water mains are located along the A40 and Barton Village Road. It is suspected that there are private water mains on site associated with the allotments and sports centre however their exact locations are unknown at this stage.  Where present private water mains could be affected by contaminants during the	Relevant guidance adhered to. Water supply pipes in accordance with guidance and Thames Water.	There will be a residual risk of negligible significance.	The site forms distinct parts from a ground conditions perspective. Whilst predominantly agricultural, there is also an electricity substation, derelict farm buildings and most significantly, an area of landraising/landfill in the recreation grounds area. This area of landfill extends to up to 4 metres in depth in some places. Contamination has been identified in the groundwater, soil and gas has

OFFICERS COMMENTS	been recorded. The information	mitigation measures are likely	to be able to reduce significant	However, additional sampling	and detailed remediation	strategies have not yet been	submitted and agreed.	The Environmental Statement	information can be seen as the	initial stages of a phased risk	assessment process as set out	in the Environment Agency's	document "CLR 11: Model	Procedures for the	Management of Land	Contamination". However, a	planning condition to secure	the completion of the phased	risk assessment process is	required. The condition should	secure the submission of a	detailed scheme for	remediation and long term	monitoring. It should also	secure the final verification and	validation processes.	of vacasoood od cale lim H	it will also be liecessaly to	controls - such as through the	removal of permitted
SIGNIFICANCE OF RESIDUAL IMPACT						There will be a residual risk	of negligible significance.																There will be a residual risk	of frequence.						
MITIGATION PROPOSED						Proposed mitigation	measures include working to an Appropriate Construction	Environmental Management	Plan, good working practice	and general good	nousekeeping to ensure that	contaminants do not spread	through preferential	pathways.									Removal of the surface of the	ialiuliii siloulu be delayed	until as late as possible	enabling/earthworks and, if	possible, undertaken during	seasonally drier periods of	the year.	Other proposed mitigation
DESCRIPTION OF PREDICTED IMPACTS	construction process.	There are short term	negative effects of a minor	olgimicance.		Effect on Third Parties and	Properties	Works that disturb or entail	removal of Made Ground	will potentially release	contaminants to the	atmosphere, or will	encourage migration or	contaminants through	groundwater by creating	preferrital patriways.	H	I nere is likely to be a direct	permanent impact on third	party properties of minor	negative significance.		the Social and Manifers	lile Secolidary (A) Aquilers	from existing sources of	COMBANINATION	Given that the landfill is	predominantly of soft cover,	it is not anticipated that	increase in infiltration of
IMPACT												11	7		//7	>														

OFFICERS COMMENTS	development rights - to control any development involving groundworks (such as extensions/conservatories/pond excavation etc.) on the landfill areas.			
SIGNIFICANCE OF RESIDUAL IMPACT			There will be a residual risk of negligible significance.	
MITIGATION PROPOSED	measures include working to an Appropriate Construction Environmental Management Plan, good working practice and general good housekeeping, control and management of water infiltration, consideration of clean piling techniques and the use of a clean soil cover layer obtained from site won materials suitable for the proposed end use.		Removal of the surface of the landfill should be delayed until as late as possible during the enabling/earthworks and, if possible, undertaken during seasonally drier periods of the year.  Other proposed mitigation measures include working to an Appropriate Construction	Environmental Management Plan, good working practice and general good
DESCRIPTION OF PREDICTED IMPACTS	surface water into the landfill as a result of removing hardstanding. However, given the removal of the soil cover on the landfill during construction and opening up of excavations, there is the potential for temporary direct water ingress into the landfill which could increase contaminant migration from perched groundwater into the Secondary (A) Aquifers.	There is likely to be a direct, temporary short term effect of moderate negative significance.	Effect on surface water in adjacent drainage channels and Bayswater Brook from existing sources of contamination  The site is bisected by three drains (north to south aligned) which flow northwards to discharge into Bayswater Brook. The	
IMPACT TOPIC		118 //8		

OFFICERS COMMENTS						
SIGNIFICANCE OF RESIDUAL IMPACT					There will be a residual risk of negligible significance.	
MITIGATION PROPOSED	housekeeping.				An appropriate remediation/ mitigation strategy including localised source removal, clean engineered cover and	gas protection will be undertaken and adhered to.
DESCRIPTION OF PREDICTED IMPACTS	map indicates the presence of 'sinks' associated with the watercourse next to the substation.	Due to the earthworks and movement of soil there is also the potential for overland surface flow from stockpiled contaminated material that could leach or wash into the drainage	channel or the Bayswater Brook. This could introduce existing contamination into the surface water affecting the water quality.	There is likely to be a direct temporary short term effect of moderate negative significance.	Effect of Contamination and Geotechnical Hazards on Future Site Occupants and Properties	The proposal for the site includes development of residential areas on the landfill. There is potential of exposure from the contamination to these residential receptors and to
IMPACT TOPIC			119 //	Operation		

VICE OF OFFICERS COMMENTS		
MITIGATION PROPOSED SIGNIFICANCE OF RESIDUAL IMPACT		
	those in other localised areas of contamination on the site (e.g. the derelict farm building area) from activities such as gardening, growing of home-grown produce for consumption or other general garden use such as playing or eating outdoors. There is also the potential for occupants to excavate into the landfill material from the construction of ponds, home extensions or conservatories. The pathways that could be present comprise indoor and outdoor dermal contact, inhalation of dusts or gases, ingestion of soil, vegetables or soil attached to vegetables and ingestion of dusts.	The residential properties will be constructed on landfill material up to 4m in thickness and therefore there is the potential for a geotechnical structural risk from settlement or subsidence of the material. In addition there is potential for effects on the structural
IMPACT	1200	

OFFICERS COMMENTS					
SIGNIFICANCE OF RESIDUAL IMPACT			There will be a residual risk of negligible significance.		
MITIGATION PROPOSED			Water supply pipes will be laid in accordance with the	Thames Water.	
DESCRIPTION OF PREDICTED IMPACTS	integrity of the building materials due to chemical attack of being constructed in the landfill material.  The sensitivity of future Site occupants is high and the	magnitude of change, prior to mitigation, is major.  Therefore, there is likely to be a major negative significance effect on future Site occupants and properties prior to the implementation of mitigation measures.	Effect on Potable Water Supply	The potable water supply on Site could be affected by the contamination in the landfill area. In the remaining areas of the site there is likely to be a negligible effect, with the exception of a localised area of contamination identified within the derelict farm building area.	Water supply may be affected by future vehicle fuel and oil spills entering
IMPACT		121	121		

SIGNIFICANCE OF RESIDUAL IMPACT		The sensitivity of third party properties and occupants is high and the magnitude of	is negligible. Therefore, there is likely to be a <b>negligible</b> effect on third party occupants and properties prior to the implementation of mitigation measures.	
MITIGATION PROPOSED		Due to the negligible significance of effects on third party occupants or properties,	שונים לישונים ביים ביים ביים ביים ביים ביים ביים ב	
PREDICTED IMPACTS the service trenches. However, any spills are likely to be small and very rare.	The sensitivity of potable water supply is high and the magnitude of change, prior to mitigation, is low to medium. Therefore, there is likely to be a <b>moderate</b> negative effect on potable water supply prior to the implementation of mitigation measures.	Effect of Contamination on Third Party Properties and occupants	Following remediation and the excavation or engineered cover of the identified areas of contamination at the Site during construction, it is considered unlikely that unacceptable risks to third party properties and occupants will remain.	The sensitivity of third party properties and occupants is high and the magnitude of change, prior to mitigation,
IMPACT		122 <sub>72</sub> 2		

OFFICERS COMMENTS				
SIGNIFICANCE OF RESIDUAL IMPACT	The sensitivity of groundwater in the Secondary (A) Aquifers is high and the magnitude of	change, prior to mitigation, is low. Therefore, there is likely to be a <b>negligible</b> effect on groundwater in the Secondary (A) Aquifers.		The sensitivity of surface water is high and the magnitude of change, prior to mitigation, is negligible. Therefore, there is likely to
MITIGATION PROPOSED	Due to the negligible significance of effects on groundwater in the	mitigation is required.		Due to the negligible significance of effects on surface water, no mitigation is required.
PREDICTED IMPACTS is negligible.  Therefore, there is likely to be a negligible effect on third party occupants and	properties prior to the implementation of mitigation measures.  Effect on Groundwater in the Secondary (A) Aquifers from existing contamination	Mitigation measures carried out during the construction phase will address identified sources of contamination that may potentially affect the Secondary (A) Aquifers,	The sensitivity of groundwater in the Secondary (A) Aquifers is high and the magnitude of change, prior to mitigation, is low. Therefore, there is likely to be a <b>negligible</b> effect on groundwater in the Secondary (A) Aquifers.	Effect on surface water in adjacent drainage channels and Bayswater Brook from existing contamination
IMPACT		123 123		

OFFICERS COMMENTS		
SIGNIFICANCE OF RESIDUAL IMPACT	be a <b>negligible</b> effect on surface water during operation of the development.	Providing all necessary remediation / mitigation
MITIGATION PROPOSED		No additional mitigation proposed.
DESCRIPTION OF PREDICTED IMPACTS	The mitigation measures carried out during the construction phase will address identified sources of contamination that may potentially affect the surface waters, particularly in the northern landfill area through control and management of water infiltration into the landfill and from overland flow by the use of silt traps.  In addition, a greater proportion of the landfill will be covered with hardstanding, thereby, reducing infiltration of rainwater and the potential downward migration of contamination through the landfill and effecting surface water as baseflow.  The sensitivity of surface water is high and the magnitude of change, prior to mitigation, is low.  Therefore, there is likely to be a <b>negligible</b> effect on surface water.	Cumulative Effects
IMPACT TOPIC	1244	

125 <sub>25</sub>	The implementation of the mitigation measures set out above will ensure that soil and water pollution during construction and operation is minimised to an acceptable level.  The proposed Development of the Application Site would remove (where necessary) and remediate (where required) sources of contamination, so any elevated levels in the soil and groundwater would be reduced.		measures are implemented, it is considered that the Proposed Development will have a negligible effect on the adjacent environment with regard to contamination and ground conditions, where existing ground contamination is removed/remediated.	
Construction at St. St. St. St. St. St. St. St. St. St	Potential risk of contamination to surface and groundwater Potential of contamination of surface water run-off from construction activities, which could subsequently enter the surrounding surface water features and potentially affect the under- lying Secondary (A) aquifer. Activities that could give rise to potential for run-off to be contaminated with pollutants include:	A Construction Environmental Management Plan (CEMP) will contain measures to manage and control all ground works, including management of wastewater and the storage of fuels and chemicals.  The CEMP will detail the procedures and methods that are to be followed by the construction workforce in order to minimise the potential effects of construction on the site on	The sensitivity of surface and groundwater is high and the magnitude of change, following mitigation, is negligible. Therefore, there is likely to be a <b>negligible</b> effect on groundwater following the implementation of mitigation measures.	Water quality is within the remit of the EA and as they will be part of the consultation group which will agree the CEMP.  Any issues which arise should therefore be addressed through the development of the CEMP.  The ES makes a commitment to following the Environment Agencies PPGs and providing this guidance is followed, at this stage, it is unlikely that the construction phase will have any significant impacts on water quality.

OFFICERS COMMENTS																								Increase run-off during the	construction phase is likely to	the attenuation ponds which	are put forward as part of the	site-wide drainage strategy. This seems to be an
SIGNIFICANCE OF RESIDUAL IMPACT																								The sensitivity of the	downstream residential	be medium and the	magnitude of change,	following mitigation, is negligible. Therefore, there
MITIGATION PROPOSED	water features.	The CEMP will be developed	and agreed with Oxford City	Council, the Environment	Agency and other	regulator of consolinees, as required, prior to the	commencement of the	construction activities.	Contractors working on the	site will be then be required to	comply with the Child.	All construction activities to	be undertaken in accordance	with the EA PPGs.		Construction of surface water	drainage infrastructure in	early phase of development.						As part of the site wide	drainage strategy, a series of	constructed within the early	phase of development during	the primary infrastructure
DESCRIPTION OF PREDICTED IMPACTS	- Operation of	- General site	preparation/	construction activities	associated fuels and	chemicals; and	- The siting and	operation of site	construction	compound and the	construction of proposed site roads.		The sensitivity of surface	and groundwater is high and	the magnitude of change,	prior to mitigation, is	medium. Therefore, there is	likely to be a direct,	temporary, short-term effect	on groundwater of	moderate to major	to the implementation of	mitigation measures.	Potential effects due to	increased surface water		Construction activities such	as top soil stripping, the
IMPACT TOPIC														12	9	3												

OFFICERS COMMENTS	appropriate mitigation measure for the management of increased surface water during the construction phase.						
SIGNIFICANCE OF RESIDUAL IMPACT	is likely to be a <b>negligible</b> effect on downstream residential receptors following the implementation	of mitigation measures.					
MITIGATION PROPOSED	Surface runoff from the various points of construction within the Site will be	managed by the appropriate use of temporary bunding and the channelling of runoff to the attenuation ponds. All	discharges will be controlled and released off-site at Greenfield runoff rates.	disposed of appropriately, either tankered off-site or discharged to foul sewer or	Bayswater Brook following agreement with the appropriate regulatory authority prior to discharge.		
DESCRIPTION OF PREDICTED IMPACTS	vehicles movements are likely to result in soil compaction and ultimately less water being attenuated	on site by vegetation and within the unsaturated soil matrix.	The volume and rate of surface water runoff may increase posing a localised flood risk on site.	In addition, increasing the volume and rate of surface water runoff from the site	could potentially increase the downstream flood risk to sensitive residential receptors, if not appropriately mitigated.	The sensitivity of the downstream residential receptors is considered to be high and the magnitude of change, prior to mitigation is low. Therefore	there is likely to be an indirect, temporary, shortterm effect on flood risk of minor to moderate negative significance prior to the implementation of mitigation measures.
IMP/ACT TOPIC				127	127		

TOPIC	PREDICTED IMPACTS PREDICTED IMPACTS  Effects of shallow groundwater during construction	As detailed within Chapter 11 of the ES, further testing of the perched groundwater within the landfill will be	RESIDUAL IMPACT The sensitivity of surface water is considered to be high and the magnitude of change, following mitigation, is pedicible. Therefore	OFFICERS COMMENTS  The main effect of shallow groundwater during the construction phase appears to be that contaminated
	Shallow groundwater was encountered beneath the site and as such it is considered possible that the flooding and subsequent dewatering of excavations may be required during the construction of foundations, service trenches etc.  Dewatering activities have the potential to impact on surface water through the discharge of potentially contaminated groundwater, if not appropriately mitigated.  The sensitivity of the surface water receptors is considered to be high and the magnitude of change, prior to mitigation, is medium to high.	undertaken to confirm contaminant concentrations and previous conclusions made by PBA. In addition, dewatered water within this area should be discharged to foul sewer under an appropriate license or tankered off site.  Consideration to be given to CIRIA 515: Groundwater Control – Design and Practice.  Dewatered water to be discharged with appropriate consents.	there is likely to be a  negligible effect on surface water receptors following the implementation of mitigation measures.	groundwater mixes with the surface water and causes contamination. The ES provides mitigation measures and suggests that consideration will be given to the CIRIA guidance. This could be stronger and a commitment that the guidance be followed could be made. The ES provides sufficient mitigation measures at this outline stage for the principle of development to proceed. More precise details of measures to ensure that contamination of surface water from contaminated groundwater will need to be provided at the reserved matters stage.
	Therefore, there is likely to be an indirect, temporary, short-term effect on surface water of moderate to major negative significance prior to the implementation of			

OFFICERS COMMENTS	The proposed surface water strategy and mitigation measures included within it will need to ensure that there is no increase in flood risk elsewhere as a result of the development. From the information provided, this appears to be sufficient, however the precise details of the scheme will be submitted at the scheme will be submitted at the reserved matters stage and it is important that the surface water strategy is designed to fit the development that is proposed at that stage. What has been provided is sufficient for the principle of development to be accepted. A continued discussion with Thames Water is suggested to ensure that the surface water strategy is the right one for the proposed development.
SIGNIFICANCE OF RESIDUAL IMPACT	The sensitivity of the downstream residential receptors is considered to be high and the magnitude of change, following mitigation, is low. Therefore, there is likely to be a direct, permanent, long-term effect on downstream receptors of minor positive significance following the implementation of mitigation measures.
MITIGATION PROPOSED petrol interceptors to help manage sediment control and water quality.	The Proposed Development platform shall be set above the 1 in 100 year flood level, incorporating the impacts of climate change, with a minimum freeboard of 300mm to enable the entire development to be situated within the Flood Zone 1 therefore the future risk will be insignificant.  The surface water strategy has been designed so that during low flow/design storm conditions surface water will drain into the proposed adoptable surface water sewer network via the proposed SuDS source control techniques and where appropriate private drainage networks.
PREDICTED IMPACTS to mitigation, is low. Therefore, there is likely to be a direct, permanent, long-term effect on surface water of minor to moderate negative significance prior to the implementation of mitigation measures.	Potential effects on hydrology and associated flood risk of local watercourses due to increased surface water runoff including potential effects on fluvial flood flows and storage  The proposed surface water drainage strategy for the development is to mimic natural catchment processes as closely as possible to incrementally reduce pollution, flow rates and volumes. However, the change of land use to accommodate a mixed residential, commercial and community use development and the associated increase in impermeable areas will result in an increase in the surface of land rate of surface
TOPIC	13,90

OFFICERS COMMENTS		With such shallow groundwater on-site it is important that appropriate mitigation is employed to ensure that groundwater flooding does not affect proposed structures or the storage capacity of surface
SIGNIFICANCE OF RESIDUAL IMPACT		The sensitivity of end users to possible groundwater flooding is high and the magnitude of change, following mitigation, is negligible. Therefore, there is likely to be a <b>negligible</b>
MITIGATION PROPOSED	sized to ensure that no surcharging occurs for the 1 in 2 year design storm rainfall event and no flooding for the 1 in 30 year event in accordance with Sewers for Adoption 7th Edition.  In an exceedance event, such as the 1 in 100 year plus 30% allowance for climate change rainfall event, flows from the development parcels will be directed away from properties via overland flow routes towards the proposed exceedance SUDS features.  These SUDS features include swales with berms within the Green Infrastructure and filter drains. These devices will help manage exceedance flows as close to source as possible whilst also providing a degree of attenuation prior to discharging into the catchment storage controls.	To ensure that possible groundwater flooding does not affect proposed structures or the storage capacity of surface water attenuation features further groundwater level monitoring will be
DESCRIPTION OF PREDICTED IMPACTS	water runoff.  The sensitivity of the downstream receptors is high and the magnitude of change, prior to mitigation, is medium. Therefore, there is likely to be a direct, permanent, long-term effect on downstream receptors of moderate to major negative significance prior to the implementation of mitigation measures.	Potential effects of shallow groundwater on site Available monitoring data has recorded groundwater levels across the site ranging from 0.04m and
IMPAGT TOPIC	131 /3/	

OFFICEDS COMMENTS	OF TOPING COMMENTS	1	he provided at the reserved	matters stade once the results	of the monitoring data has been	put forward. Once the situation	is known the appropriate	employed Thiil this	information is available the	likely effects post-mitigation	no mitigation has been	proposed Suggestions of	potential mitigation measures	are appropriate and have been	considered.													The surface water strategy has
SIGNIFICANCE OF	RESIDUAL IMPACT	effect on end users	of mitigation measures																									The sensitivity of the
MITIGATION PROPOSED		undertaken to determine seasonal variability in	groundwater levels.		Based on the findings of this	monitoring data, where	mitigation measures will be	development at the detailed	design stage to ensure that	flooding is adequately	managed and proposed	structures / attenuation	features will not be affected.	Where applicable the Suns	in particular permeable	paving, attenuation facilities,	cut-off drains and swales in	areas susceptible to high	ground water will be lined or raised above the recorded	ground water table to prevent	ground water ingress entering	the surface water drainage	arrangement which would	water storage capacity and	exacerbate flood risk.			The presence of the linear park will enable rainwater to
DESCRIPTION OF	PREDICTED IMPACTS	9.51m. Whilst basement structures are not proposed	as part of the proposed	development given the	shallow level at which	groundwater has been	encountered it is considered possible that seasonal	variations in groundwater	levels across the site could	result in on-site flooding it not appropriately managed.		Furthermore shallow	groundwater levels could	affect storage capacity of	orr-site surface water run-orr	adequately considered.		The sensitivity of end users	to possible groundwater	Tlooding is high and the	to mitigation is medium	Therefore, there is likely to	be a direct, temporary,	Short-term effect on end	negative significance prior	to the implementation of	mitigation measures.	Effects on groundwater/ Bayswater Brook from
IMPACT	TOPIC														1,3	2												

OFFICERS COMMENTS	mimic that of a greenfield site as far as possible, although some concessions are made that this will not be completely possible. The surface water strategy is described in as much detail as is available which is proportionate to the detail needed at the outline planning stage. Mitigation measures are proposed including attenuation ponds which should be integrated into the design of the development. Given the mitigation proposed at this stage, it is unlikely that there will be significant effects however more and precise details will need to be provided as part of the finalised surface water strategy at the reserved matters stage.
SIGNIFICANCE OF RESIDING IMPACT	nand nge, s low to there minor n the suntation s.
MITIGATION PROPOSED	infiltrate directly back in to the ground in these locations, a large proportion of which correlates with Alluvium deposits that are associated with the Secondary (A) aquifer.  The surface water strategy for the site utilises SuDS and will seek to mimic the existing conditions on site as far as possible and will comprise a combination of the swales and filter drains that will connect to attenuation ponds. Where ground conditions permit, an element of infiltration will be possible further adding to groundwater recharge across the site.  Surface water runoff from the site will be discharged back to Bayswater Brook at greenfield runoff rates from a series of cascaded attenuation ponds ensuring that flows within Bayswater Brook are maintain at a similar rate.  It is therefore considered unlikely that groundwater recharge will be significantly.
DESCRIPTION OF PREDICTED IMPACTS	
IMPACT	

OFFICERS COMMENTS		The Thames Water Foul Water Impact Study identifies that a deliverable solution to ensure that foul waters associated with the development do not accentuate flooding in the Northway area.  As the detailed drainage system for the site has not been finalised, an approximation of what is to be
SIGNIFICANCE OF RESIDUAL IMPAGE		The sensitivity of the foul drainage sewerage network to increases in foul drainage from the Site is medium and the magnitude of change, following mitigation, is negligible. Therefore, there is likely to be a <b>negligible effect</b> on the foul drainage and sewerage network.
MITIGATION PROPOSED affected by the proposed development.		The Thames Water Foul Water Impact Study identifies that a deliverable solution to ensure that foul waters associated with the Proposed Development do not accentuate flooding in the Northway area will be to store foul water onsite. The proposed foul water sewer networks will convey to the onsite public 375mm
PREDICTED IMPACTS is considered possible that the proposed development could impact on groundwater recharge across the site which could indirectly affect the flow within Bayswater Brook although this is likely to be limited.	The sensitivity of groundwater is high and the magnitude of change, prior to mitigation, is low.  Therefore, there is likely to be a direct, temporary, short-term effect on groundwater of minor to moderate negative significance prior to the implementation of mitigation measures.	Potential increases in foul water discharges during operation  Due to the scale of the Proposed Development, the foul sewage output from the Site will increase significantly from that of current levels. A foul water impact study completed by Thames Water identifies
TOPIC	134	

provided has been suggested. Clearly further discussions and investigations area required to determine the finalised solution at the reserved matters stage and through the FRA to be submitted as part of the reserved matters application.	Given that Thames Water has confirmed sufficient capacity in their existing potable network system, albeit subject to some relatively minor off-site reinforcement works. These works will need to be undertaken prior to the development being occupied and should be conditioned as such if necessary.
SIGNIFICANCE OF RESIDUAL IMPACT OR RESIDUAL IMPACT OR RESIDUAL IMPACT	The sensitivity of the water supply infrastructure is high and the magnitude of change is negligible.  Therefore, there is likely to be a direct, permanent, long-term effect on the water supply infrastructure of <b>negligible significance</b> as there is no change following the implementation sof mitigation measures.
diameter public foul sewer via gravity. If there is insufficient capacity within the public network flows will be diverted into onsite foul storage. Once capacity is available flows will be lifted back into the public sewer via two on site foul water pumping stations,  The detailed foul drainage system for the Site has not been finalised to date, however, following discussions with Thames Water it has been determined that approximately 620m3 of foul water storage volume will be required on site to mitigate potential impacts, further details are included in the FRA.	Thames Water has confirmed that their existing potable water network system has sufficient spare capacity to serve the development subject to carrying out some relatively minor off-site reinforcement works.  No further mitigation measures are anticipated however, the proposed
PREDICTED IMPACTS that foul water sewer flooding during storm events may be possible in the Northway area if appropriate mitigation measures are not incorporated in to the Proposed Development.  The sensitivity of the foul sewer network is medium and the magnitude of change, prior to mitigation, is medium. Therefore, there is likely to be a direct, permanent, long term moderate negative effect on the foul sewer network prior to the implementation of mitigation measures.	The increased demand for potable water supplies during operation  The Proposed Development will increase the potable water demand on the Thames Water network compared to the existing situation.
135/35	

MITIGATION PROPOSED SIGNIFICANCE OF OFFICERS COMMENTS S	development will seek to minimise potable water consumption. Opportunities to implement water conservation measures across the development to conserve water resources will be assessed at the detailed design stage and may include measures such as water metering, low flush toilets and the provision of rain water harvesting in the form of water butts.	pare pare tively ment	high tion, irect, effect oply jible
DESCRIPTION OF PREDICTED IMPACTS	prepared a Water Resources Management Plan which identifies how they intend to maintain the balance between supply and demand for water over the next 25 years. In calculating the water demand estimates the Water Resources Management Plan takes in to consideration the potential growth in housing in the supply area over the 25 year period.	Thames Water has confirmed that their existing potable water network system has sufficient spare capacity to serve the development subject to carrying out some relatively minor off-site reinforcement works.	The sensitivity of the water supply infrastructure is high and the magnitude of change, prior to mitigation, is negligible. Therefore, there is likely to be a direct, permanent, long-term effect on the mains water supply infrastructure of <b>negligible</b>
IMPACT TOPIC		13,6%	

IMPAGT	DESCRIPTION OF PREDICTED IMPACTS significance prior to the implementation of mitigation	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
Archaeology	measures.  Disturbance to buried	A programme of trial	Archaeological recording will	An orthogological location
	archaeological remains	trenching evaluation work	ensure that any archaeology	assessment was undertaken
		carried out across the Site	that does survive is either	for this site by John Moore
	Prenistoric assets nave	identified a pattern of,	preserved in-situ' or more	Heritage Services in 2009.
	Site and within wider violative	generally snallow, dispersed	likely 'preserved by record'	This assessed the site as
	in the form of a Neolithic	drainage purposes on the	and will add furtner to our knowledge of the history	having moderate potential for Neolithic and Iron Age remains
	axe from within the Site	lower lying ground bordering	and development of this	based on the previous recovery
	boundary. The magnitude	Bayswater Brook. A tentative	area of Oxford. This will, in	of a single Neolithic Axe from
	of change, prior to	Roman date is suggested,	part, reduce the overall	within the site and the proximity
	mitigation, is anticipated to	from the recovery of two	magnitude of change.	and character of known Iron
13	be nigh.	pottery sherds, for a small	However, as a result of the	Age activity. The assessment
37	I heretore there is likely to	ditch near the eastern edge of	potential loss of	also noted the potential for
1.	be a direct, permanent, long	the Site; however the pottery	archaeological remains in-	Anglo-Saxon remains in the
37	term effect on	may be residual and the	situ, the effect for all time	south-eastern part of the site,
•	archaeological deposits of	reature could form part of a	periods is considered to be	which is located 50m from a
	moderate negative	later ditch system. The trial	negative though the	poorly recorded Early Anglo-
	significance prior to the	trenching evaluation	importance of the asset will	Saxon burial and sunken
	implementation of mitigation	combined with the	remain the same.	featured building noted during
	measures.	programme of geophysical		the construction of the Ring
		Investigation has produced		Road (although the
	I nere are no archaeological	enough information to		development site is located
	assets of the Post-	adequately understand those		noticeably down slope from this
	rocorded within the Cite	archaeological features		find spot). The site was also
	Thors are mooraled apports			assessed to have a high
	illere are recorded assets	to snow that this represented		potential for medieval and post-
	Within close proximity to the			medieval agricultural features.
	Site; tnese, nowever, are at			An analysis of available aerial
	nigner elevations than the	evidence is not anticipated		photographs tentatively
	Proposed Development	that any further programme of		identified two features as of
	area. As such the importance of	evaluation trenching will be		possible archaeological interest
				(realures of efficiosure type).

PROPOSED SIGNIFICANCE OF OFFICERS COMMENTS RESIDUAL IMPACT			briet, within also plotted.	he area of A geophysical survey			be to Magnetic Survey) was			as are dear. As a second parallel linear and anomalies in the western and	. Based	th the were interpreted as areas of		s can be a number of possible discrete				Cotswold Archaeology	out an archaeological	evaluation on the accessible	parts of the site, comprising the	excavation of fifty-eight trial	trenches. The current sports	field, the Barton nature reserve	area and small areas identified	as naving high biodiversity	Value were not evaluated at this	stage because of the physical		The archaeological evaluation	
MITIGATION PRO		It is possible that a	targeted watching brief, within the development foot print	and restricted to the area of	any below ground effect on	potential archaeology, will be	required. This will be to	ensure that any unknown	archaeological deposits in the	with appropriately, as	required by the NPPF. Based	on consultation with the	Oxford City Council's	Archaeologist, this can be	implemented as pa	specific planning condition,	targeted to specific areas as	described above.													
DESCRIPTION OF PREDICTED IMPACTS	archaeological deposits as	described above is low. The	to mitigation, is anticipated	to be <b>high</b> given the	potential change to isolated	artefacts and potentially	isolated features which	might be subject to	udication of removal.	Therefore there is likely to	be a direct, permanent,	long-term effect on	archaeological deposits of	moderate negative	significance prior to the	implementation of mitigation	measures.	100000000000000000000000000000000000000	No specific post-medieval	activity is recorded within	the Site of wider study area;	nowever it is likely that	agricultural activity would	this period As such the	importance of agricultural	deposite is described as	low The magnifule of	change, prior to mitigation.	is anticipated to be medium	given the potential change	to isolated artefacts and
IMPACT															13	838	}			-											

OFFICERS COMMENTS	concentrations of these	features in the northern, central	and eastern parts of the site.	Neither of the features	tentatively identified in the 2009	aerial survey analysis were	confirmed by the trenching. The	earliest identified feature was a	small ditch near the site's	eastern edge, from which was	recovered two sherds of	Roman pottery. No other	Roman features were	encountered, although a small	assemblage of residual Roman	pottery was recovered from	later features and deposits,	indicating some activity in the	vicinity during this period.		Most of the encountered	archaeological remains dated	to the medieval period, from the	12th to the 15th centuries.	They indicate the presence of	an agricultural landscape of	fields, paddocks and	droveways, possibly associated	with the site of the putative	medieval settlement on the	slope to the north of Bayswater	Brook. Artefactual evidence	was scarce, with most of the	pottery recovered from the site	coming from the northern
SIGNIFICANCE OF RESIDUAL IMPACT												Construction activities are	unlikely to have direct or	indirect effects on built	heritage remains.																				
MITICATION PROPOSED												No Mitigation proposed																							
DESCRIPTION OF PREDICTED IMPACTS	which might be subject to	truncation or removal.	· · · · · · · · · · · · · · · · · · ·	I neretor there is likely to be	a direct permanent, long-	term effect on	archaeological deposits of	minor negative significance	prior to the implementation	of mitigation measures.		nce to built heritage	remains	During construction,	potential effects on above	ground heritage assets will	comprise negative	temporary effects on the	settings of assets (all off	Site) within the sphere of	visual influence.		All of the receptors that are	documented will be	impacted upon in a localised	manner at the area scale.	The period of the effect in all	cases will be temporary. In	all cases the impact on the	built heritage will be a	change to the setting and	limited visibility.	:	In all the built heritage	assels illal were
IMPACT TOPIC																39		<u> </u>	39								•								

OFFICERS COMMENTS	central area, to the north of the	demonstrated that the site had	been reorganised in the early	post-medieval period, when a	system of ridge and furrow	ploughing was established. The	earthworks associated with this	system survived until relatively	recently as 19th-century land	drains were noted in many of	the furrows, indicating that the	ridges were still visible at this	time. The results of the	evaluation process have been	summarised in the submitted	Environmental Statement Vol 2	Section 13 (Barton LLP 2013).	Historic Hedgerows	The site contains a number of	hedgerows which meet the	criteria for 'historical	importance' under the 1997	Hedgerow Regulations. These	are the 1802 Parliamentary	enclosure boundaries and the	hedge line along the length of	the Bayswater Brook which	marks an historic parish	boundary (EIA Barton LLP	2013, 13:26-29).The 1802	boundaries represent the last	coherent block of Parliamentary	Enclosure within an otherwise
SED SIGNIFICANCE OF RESIDUAL IMPACT																		-															
- MITIGATION PROPOSED	nstruction	ment are	ect or	any of																													
IMPACT DESCRIPTION OF TOPIC PREDICTED IMPACTS	considered, the construction activities relating to the	proposed development are	unlikely to have direct or	indirect effects on any of	them.					-						1 4	·Q.c																

OFFICERS COMMENTS  largely developed landscape	The Parameter Plan - Open Space and Landscape (Drawing No. 173603/PP/Plan 3 Rev B) indicates that the existing tress and hedgerows within the site will be substantially retained (including the hedgerow along the brook) and will contribute to much of the underlying structure to the development, thus preserving the general character and layout of the current field pattern.	mind the scale and character of the proposed development, I would request that, in line with the advice in the National Planning Policy Framework, any consent granted for this development should be subject to condition.  The scope of the archaeological investigation will depend on the details of the reserved matters application/s and the extent and character of the proposed ground works. It is likely that trial trenching will be required in the area of
SIGNIFICANCE OF RESIDUAL IMPACT		
MITIGATION PROPOSED		
DESCRIPTION OF MIPREDICTED IMPACTS		
IMPACT DES	141/4/	

OFFICERS COMMENTS  Barton Nature Reserve followed by further mitigation if appropriate, also a number of areas where a concentration of medieval features were identified during the Cotswold Archaeology evaluation may require a strip and record excavation or watching brief. Finally any substantial	Brook channel may require targeted recording because of the potential for environmental deposits. The work should be undertaken by a professionally qualified archaeologist working to a brief issued by ourselves.	As identified in the application the magnitude of change, from fields to built environment will be significant and it will change	the setting of the Old Headington conservation area. How this change is perceived and understood will rely to a	great degree on the quality and extent of the landscaping and how it is designed to integrate	with the layout (rather than merely filling spaces between buildings). Of equal
SIGNIFICANCE OF RESIDUAL IMPACT		The residual impact of development on all receptors is minor apart from:	- Church of St. Andrew, St. Andrews Road; and	<ul> <li>Wick Farmhouse,</li> <li>Well House c. 30 m</li> <li>to north. Becklley and</li> </ul>	Stowood. The impact on these two
MITIGATION PROPOSED		The Proposed Development is considered, through design, to ensure the contribution of the Site to	other heritage assets is reduced as far as possible by design, for example, through the use of screening and	appropriate planting of hedgerows or tree cover. However since any direct	lines of sight from heritage assets into the Site are either significantly or totally
PREDICTED IMPACTS		Setting of Built Heritage Remains Proposed Development	would result in a change in the general appreciation and experience of the Site which provides a historically	open backdrop to a series of Listed Buildings.	The majority of Listed Buildings and would impacted on by a change in
TOPIC	1442	Cultural Heritage			

OFFICERS COMMENTS	importance is the design and appearance of those buildings that will be visible in certain view points and how they sit	within their new landscape and wider setting. From the north,	Elsfield village and the surrounding footpath network,	the new development will be seen within a wide landscape	context. Closer to, from the footpaths surrounding the site	the buildings will be larger	components and will have to	landscaping, neither existing	nor as proposed will conceal	them entirely. Elsfield is a	designated conservation area	building. Whilst these are not	within the city's administrative	area it is worth noting that the	studies accompanying the	Q.	impacts derive from the	visibility of Oxford and its	changing suburbs, as	experienced in views from	these heritage assets – an	experience that has existed for	as long as the places have.	I he proposal represents another phase of change in the
SIGNIFICANCE OF RESIDUAL IMPACT	receptors is of minor to moderate negative significance.																							
MITIGATION PROPOSED	obscured by either existing development, topography or hedgerows and tree cover no further mitigation measures	are considered appropriate or proportionate to meaningfully	reduce the effect of change.																					
DESCRIPTION OF PREDICTED IMPACTS	view. Old Headington Conservation Area would be impacted on by a change in the character of agricultural	area, a change in setting. The assessment considered	significant change in views	to the Old neadington Conservation Area.	The Elsfield Conservation	Area would be impacted	views and setting.		The importance of all	receptors was considered	which were considered of	high importance. The two	receptors of high	importance are as follows:	- Church of St		Road; and	<ul> <li>Wick Farmhouse,</li> </ul>	Well House c. 30 m	to north, Becklley and	Stowood.	of the second of the second IIV	All Impacts are assessed to	of the two high receptors, on
IMPACT TOPIC							1	42	3															

MPACT	DESCRIPTION OF PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
	which the effects of the			growth of Oxford and it is
	development will be			imperative that people's
	moderate			understanding of Oxford and its
				history, and how they
				experience it in the views from
				the surrounding hills and other
				vantage points is not
				diminished. Beyond the grant
				of any outline planning
				permission maintaining scrutiny
				development will be a critical
				development will be a critical
				element in the success of this
				new community of Oxford
14				There are some elements of
14				the scheme where the visibility
4				of buildings or highway works
				will have a more significant
				impact on the existing
				landscape characteristics of
				Headington Hill and the wider
				setting of Oxford: Careful
				design and consideration of the
				impacts at any detailed
				application stage will help
				ensure that any harmful effects
				are minimised.
Lighting	Effects of Light spill, glare	Suggested mitigation/	The residual impact is	On the assumption that further
;	and sky glow from	enhancement measures	assessed to be a minor	information and assessment
Construction	construction lighting on	include the following:	temporary direct impact in	will be carried out and
	residential receptors		the short term of minor	submitted (as stated in Para
		Specified working hours, uses	significance.	7.3.1 of the Noise Assessment)
	Without mitigation this is	of lighting, location of		I have no adverse comments to
	assessed to have a	temporary floodlights and		make on the work undertaken

OFFICERS COMMENTS	so far:	<ul> <li>All key guidance</li> </ul>	documents for both	noise and light have	been identified for the	assessment process.	Ine environment noise     monitoring is sufficient	hit I will require further	details on monitoring	location points.	I am content to consider	construction	noise/vibration and	mitigation once the	CEMP is submitted.	<ul> <li>I would like to see the</li> </ul>	baseline noise data used	to inform the design of	the site so as to protect	puildings and oben	spaces, both private and	communal. This is a	preferred approach,	rather than designing	building envelopes to	accommodate site	layout.	<ul> <li>I am content to consider</li> </ul>	construction lighting	once the CEMP is	submitted.	<ul> <li>I have no concerns to</li> </ul>	raise with regard to
SIGNIFICANCE OF RESIDUAL IMPACT																	-					42									7		
MITIGATION PROPOSED	construction compound(s);	CEMP to indicate proposed	location of the construction	compound(s) and storage	areas,	lighting to be ewitched off	when not required:		Glare to be minimised by	ensuring light fittings are	mounted close to the	horizontal and directed into	the centre of the assessment	site;	: : : : : : : : : : : : : : : : : : :	l emporary lighting fixtures to		directionally snielded;		Light spill to be minimised;	Contribution to colour to by	minimised through the con-	modern lights with	modern iignis with	appropriate tilt angles and full	cut-off shields to avoid	upward light loss;			Construction areas adjacent	to railway line to be orientated	to ensure train drivers are not	distracted by temporary
DESCRIPTION OF PREDICTED IMPACTS	moderate temporary direct impact of minor significance	in the short term.																															
IMPACT TOPIC													14	45	5																		

OFFICERS COMMENTS	street lighting. These	lighting schemes are unlikely to cause	statutory nuisance.	Other issues such as impact on biodiversity	and road safety are for other agencies to	comment upon.	scheme be proposed, such as commercial car-	parking/security lighting or sports pitch flood	Ingriting, Environmental Development should be	consulted as these have the potential for causing	significant intrusion or statutory nuisance.					
SIGNIFICANCE OF RESIDUAL IMPACT		The residual impact is	assessed to be a minor	the short term of minor	significance.				The residual impact is	permanent direct impact in the long term of minor	significance.					
MITIGATION PROPOSED	lighting;	Construction area fences	located near existing	well lit to assist in defining the	limits of the construction area for motorists and pedestrians;	and	Temporary lighting must be in accordance with current	guidance subulated in the ILP guidance notes.	Use of additional design	Maintenance including	ensuring that the main beam	angle of all lights is retained to a minimum;	Careful selection of luminaries and their location in relation to the assessment	site boundary to minimise light spill; and	Where practicable, consideration of the layout of	bedrooms and living rooms face away from significant sources of light.
DESCRIPTION OF PREDICTED IMPACTS		Effect of Glare and Light	opili on the Road Users utilising the surrounding	road network.	Without mitigation this is	assessed to have a moderate temporary direct	impact of minor significance in the short term.		Effects of Light Spill, glare, and sky alow from	operational lighting on future sensitive receptors	Without the soit of the soit of the soil o	assessed to have a moderate to minor	permanent direct impact of minor significance in the long term.			
IMPACT TOPIC									Operational	<b>4</b> 6						

OFFICERS COMMENTS											
SIGNIFICANCE OF RESIDUAL IMPACT	The residual impact is assessed to be a minor permanent direct impact in the long term of minor	significance.	The residual impact is assessed to be a minor permanent direct impact in	the long term of minor significance.							
MITIGATION PROPOSED	As above; and Lighting design in accordance with Road Lighting Standards (BS EN 54149-1:2003 and	BS EN 13201-2.2003)	Consideration of screening for nearby properties;	Consideration at detailed design stage for aligning new properties so that sensitive	light intrusion from cars turning out of junctions.						
DESCRIPTION OF PREDICTED IMPACTS	Effects of Glare and Light Spill on Road Users Utilising the Surrounding Road Network	Without mitigation this is assessed to have a moderate to minor permanent direct impact of minor significance in the long term.	Effect of light intrusion on nearby residents from road traffic	Without mitigation this is assessed to have a moderate to minor	permanent direct impact of minor significance in the long term.	The cumulative effects assessment looks at the	overall impacts the proposed Barton	Development 'in-	committed schemes. At the	urne or the submission of the outline planning	application a five schemes, identified in the local area were included in the
IMPACT			147	7147		Cumulative Effects					

S		
OFFICERS COMMENTS	No additional comments	No additional comments.
SIGNIFICANCE OF RESIDUAL IMPACT	No change in impact prediction on this receptor.	Impact on bats considered and sufficient mitigation at
MITIGATION PROPOSED	No additional mitigation proposed.	Of the schemes considered, the majority involve no net
DESCRIPTION OF PREDICTED IMPACTS	cumulative effects assessment. These are as follows: - Northway Centre, Maltfield Road, (47 residential units and community centre) - Westlands Drive, Northway (21 flats) - Old Road Campus (48,000m2 D1 research floorspace) - Oxford Brookes University, Gypsy Lane Campus - Northern Gateway (55,000m2 B-Class) - West End, City Centre (700 homes, 37,000m2 retail floorspace, office and other uses) - West End, City Centre (700 homes, 37,000m2 retail floorspace, office and other uses)  Given that Barton site is only site within close proximity of Sidlings Copse and College Pond SSSI, there are unlikely to be any cumulative effects of other sites with regard to this	Barton is considered to
IMPACT	Ecology/ Nature Conservation	

OFFICERS COMMENTS		No additional comments.	No additional comments.	
SIGNIFICANCE OF RESIDUAL IMPACT each development so as not to warrant additional mitigation. No change in impact prediction on this receptor.		No change in impact on transport noise as already assessed.	No change in residual No impact.	
MITICATION PROPOSED loss of semi-natural habitat types although there will be a change in how the habitat will be provided at some sites.		Road traffic assessment already included cumulative assessment through background transport growth. Therefore no further mitigation proposed.	nulative ptors too impact.	
PESCRIPTION OF PREDICTED IMPACTS have a cumulative impact in terms of its impact on seminatural habitat when considered in particular with the Northern Gateway and	Other cumulative effects could result from a reduction in smaller parcels of seminatural habitat currently present in Oxford which could lead to fragmentation of the habitat network available to mobile species such as bats.	There are three circumstances that may result in cumulative effects: - Where road traffic from more than one	development is predicted to affect the same road(s) and thus the same receptors  - Where noise from	of plant affects the same receptors,  - Where construction works from more than one
TOPIC	149	Noise & Vibration		

MITACL DESCRIPTION PROPOSED   SQUIFCANDE OF GOMMENTS COMMENTS CO
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IMPACT	DESCRIPTION OF PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
	Iocal area.  The only committed developments identified that this could apply to, are the Westlands Drive and Northway Centre developments where the construction periods could potentially overlan			
Ground Conditions and Contamination 5	Given the distance of all committed developments identified as part of this assessment it is considered unlikely that there will be any in-combination cumulative effects associated with ground conditions and contamination.	No additional mitigation proposed.	No change in residual impact.	No additional comments.
Water resources	Only the proposed Northway Centre development is considered to potentially result in in- combination cumulative effects as it is situated downstream of the Proposed Development within close proximity to Peasmoor Brook.	The mitigation techniques outlined in the Water Resources chapter of the ES will serve to reduce this potential effect within the study area to a minimum.	No change in residual impact.	No additional comments.
Archaeology	In-combination effects on built heritage assets			

IMPACT TOPIC	DESCRIPTION OF PREDICTED IMPACTS	MITIGATION PROPOSED	SIGNIFICANCE OF RESIDUAL IMPACT	OFFICERS COMMENTS
	associated with the Westlands Drive and Northway Centre, Maltfield Road developments are expected to be limited to the visual intrusion of construction plant and could potentially have an indirect impact in terms of setting upon the Old Headington Conservation Area.	Given the short-term nature of the construction impacts, no additional mitigation is proposed.	No change in residual impact.	No additional comments.
152 /52	In addition, the setting of any other heritage assets in close proximity to the development may also be affected, and will represent a minor negative incombination effect. The effects will be temporary in nature and of short to medium term in length.			
	Given the nature and/or distance of the other sites, no in-combination effects, either below ground archaeological deposits or built heritage, are anticipated during construction or operation.	No additional mitigation proposed.	No change in residual impact.	No additional comments.
Lighting	During construction it is unlikely that there will be any in-combination	No additional mitigation	No change in residual	

OFFICERS COMMENTS			No additional comments.
SIGNIFICANCE OF RESIDUAL IMPACT	impact.		No change in residual impact.
MITIGATION PROPOSED	proposed		This can be minimised with the implementation of best practise lighting designs that minimise the levels of upward light loss and reflected light.
DESCRIPTION OF PREDICTED IMPACTS	cumulative effects as a result the introduction of temporary artificial lighting (associated with construction of the Proposed Development)	It is anticipated that any lighting installed on this site will be temporary and shortterm in nature.	There will be cumulative contributions to sky glow in the local area associated with all the committed developments in the area together with the Proposed Development.
IMPACT			153