

## **Appendix I: European Site Characterisations**

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- Cotswold Beechwoods SAC
- Rodborough Common SAC
- Severn Estuary SAC
- Wye Valley and Forest of Dean Bat Sites SAC
- Severn Estuary SPA
- Walmore Common SPA
- Severn Estuary Ramsar

## Special Areas of Conservation

<b>Site Name: Cotswolds Beechwoods</b> <b>Location Grid Ref: SO898134</b> <b>JNCC Site Code: UK0013658</b> <b>Size: 585.85ha</b> <b>Designation: SAC</b>	<b>Habitats Regulations Assessment: Data Proforma</b>
<b>Site Description</b>	<p>The Cotswold Beechwoods represent the most westerly extensive blocks of <i>Asperulo-Fagetum</i> beech forests in the UK. The woods are floristically richer than the Chilterns, and rare plants include red helleborine <i>Cephalanthera rubra</i>, stinking hellebore <i>Helleborus foetidus</i>, narrow-lipped helleborine <i>Epipactis leptochila</i> and wood barley <i>Hordeum europaeus</i>. There is a rich mollusc fauna. The woods are structurally varied, including blocks of high forest and some areas of remnant beech coppice.</p>
<b>Qualifying Features</b>	<p>Annex I habitats primary reason for selection:</p> <ul style="list-style-type: none"> <li>■ <i>Asperulo-Fagetum</i> beech forests</li> </ul> <p>Annex I habitats qualifying feature:</p> <ul style="list-style-type: none"> <li>■ Semi-natural dry grasslands and scrubland facies: on calcareous substrates (<i>Festuco-Brometalia</i>)</li> </ul>
<b>Conservation Objectives</b>	<p>With regard to the natural habitats and/or species for which the site has been designated (the Qualifying Features" listed below);</p> <p>Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring;</p> <ul style="list-style-type: none"> <li>■ The extent and distribution of qualifying natural habitats</li> <li>■ The structure and function (including typical species) of qualifying natural habitats, and</li> <li>■ The supporting processes on which qualifying natural habitats rely</li> </ul>

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	Qualifying Features: H6210. Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-Brometalia); Dry grasslands and scrublands on chalk or limestone H9130. Asperulo-Fagetum beech forests; Beech forests on neutral to rich soils
<b>Vulnerabilities (includes existing pressures and trends)</b>	Negative Impacts: <ul style="list-style-type: none"> <li>■ Outdoor sports and leisure activities, recreational activities: High- Inside</li> <li>■ Interspecific floral relations: High- Inside</li> <li>■ Problematic native species: High- Both</li> <li>■ Invasive non-native species: High- Both</li> </ul>

<b>Site Name: Rodborough Common</b> <b>Location Grid Ref: SO849036</b> <b>JNCC Site Code: UK0012826</b> <b>Size: 104.26ha</b> <b>Designation: SAC</b>	<b>Habitats Regulations Assessment: Data Proforma</b>
<b>Site Description</b>	Rodborough Common is the most extensive area of semi-natural dry grasslands surviving in the Cotswolds of central southern England, and represents CG5 <i>Bromus erectus</i> – <i>Brachypodium pinnatum</i> grassland, which is more or less confined to the Cotswolds. The site contains a wide range of structural types, ranging from short turf through to scrub margins, although short-turf vegetation is mainly confined to areas of shallower soils.
<b>Qualifying Features</b>	Annex I habitats primary reason for selection: <ul style="list-style-type: none"> <li>▪ Semi-natural dry grasslands and scrubland facies: on calcareous substrates (<i>Festuco-Brometalia</i>) for which this is considered to be one of the best areas in the United Kingdom.</li> </ul>
<b>Conservation Objectives</b>	With regard to the natural habitats and/or species for which the site has been designated (the Qualifying Features" listed below);  Ensure that the integrity of the site is maintained or restored as appropriate, and ensure that the site contributes to achieving the Favourable Conservation Status of its Qualifying Features, by maintaining or restoring; <ul style="list-style-type: none"> <li>▪ The extent and distribution of qualifying natural habitats</li> <li>▪ The structure and function (including typical species) of qualifying natural habitats, and</li> <li>▪ The supporting processes on which qualifying natural habitats rely</li> </ul> <b>Qualifying Features:</b> H6210. Semi-natural dry grasslands and scrubland facies: on calcareous substrates ( <i>Festuco-Brometalia</i> ); Dry grasslands and scrublands on chalk or limestone

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<p><b>Vulnerabilities (includes existing pressures and trends)</b></p>	<p>Negative Impacts:</p> <ul style="list-style-type: none"> <li>▪ Grazing: High- Inside</li> <li>▪ Air pollution, air-borne pollutants: High- Both</li> <li>▪ Outdoor sports and leisure activities, recreational activities: High- Inside</li> </ul>

<b>Site Name: Severn Estuary</b> <b>Location Grid Ref: ST321748</b> <b>JNCC Site Code: UK0013030</b> <b>Size: 73715.4</b> <b>Designation: SAC</b>	<b>Habitats Regulations Assessment: Data Proforma</b>
<b>Site Description</b>	<p>The Severn Estuary is the largest coastal plain estuary in the UK with extensive mudflats and sandflats, rocky shore platforms, shingle and islands. Saltmarsh fringes the coast, backed by grazing marsh with freshwater and occasional brackish ditches. The estuary's classic funnel shape, unique in the UK, is a factor causing the Severn to have the second highest tidal range in the world (after the Bay of Fundy in Canada) at more than 12 meters. This tidal regime results in plant and animal communities typical of the extreme physical conditions of strong flows, mobile sediments, changing salinity, high turbidity and heavy scouring. The resultant low diversity invertebrate communities, that frequently include populations of ragworms, lugworms and other invertebrates in high densities, form an important food source for passage and wintering birds. The site is important in the spring and autumn migration periods for waders moving along the west coast of Europe, as well as in winter for large numbers of waterbirds including swans, geese, ducks and waders. These bird populations are regarded as internationally important.</p> <p>Glassworts and annual sea-blite colonise the open mud, with beds of all three species of eelgrass <i>Zostera</i> occurring on more sheltered mud and sandbanks. Large expanses of common cord-grass also occur on the outer marshes. Heavily grazed saltmarsh fringes the estuary with a range of saltmarsh types present. The middle marsh sward is dominated by common saltmarsh-grass with typical associated species. In the upper marsh, red fescue and saltmarsh rush become more prominent.</p> <p>Areas of saltmarsh fringe the estuary, mostly grazed with a range of vegetation communities. There are gradual and stepped transitions between bare mudflat to upper marsh and grassland. Main vegetation types are: upper saltmarsh with <i>Festuca rubra</i> and <i>Juncus gerardii</i>; middle marsh dominated by <i>Puccinellia maritima</i> with <i>Glaux maritima</i> and <i>Triglochin maritima</i>; dense monocultures of <i>Spartina anglica</i> at the edge of the mudflats-brackish pools and depressions with <i>Phragmites australis</i> and <i>Bolboschoenus maritimus</i>.</p>
<b>Qualifying Features</b>	<p>Annex I Habitats primary reason for selection:</p> <ul style="list-style-type: none"> <li>■ Estuaries</li> <li>■ Mudflats and sandflats not covered by seawater at low tide</li> <li>■ Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>)</li> </ul>

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	<p>Annex I Habitats qualifying feature:</p> <ul style="list-style-type: none"> <li>■ Sandbanks which are slightly covered by sea water all the time</li> <li>■ Reefs</li> </ul> <p>Annex II Species primary reason for selection:</p> <ul style="list-style-type: none"> <li>■ Sea lamprey <i>Petromyzon marinus</i></li> <li>■ River lamprey <i>Lampetra fluviatilis</i></li> <li>■ Twaite shad <i>Alosa fallax</i></li> </ul>
<b>Conservation Objectives</b>	<p><b>SAC interest feature 1: Estuaries</b></p> <p>The conservation objective for the "estuaries" feature of the Severn Estuary SAC is to maintain the feature in favourable condition, as defined below:</p> <p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. the total extent of the estuary is maintained;</li> <li>ii. the characteristic physical form (tidal prism/cross sectional area) and flow (tidal regime) of the estuary is maintained;</li> <li>iii. the characteristic range and relative proportions of sediment sizes and sediment budget within the site is maintained;</li> <li>iv. the extent, variety and spatial distribution of estuarine habitat communities<sup>5</sup> within the site is maintained;</li> <li>v. the extent, variety, spatial distribution and community composition of hard substrate habitats and their notable communities is maintained;</li> </ol>

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	<ul style="list-style-type: none"> <li>vi. the abundance of the notable estuarine species assemblages<sup>7</sup> is maintained or increased;</li> <li>vii. the physico-chemical characteristics of the water column<sup>9</sup> support the ecological objectives described above;</li> <li>viii. Toxic contaminants in water column and sediment are below levels which would pose a risk to the ecological objectives described above.</li> <li>ix. Airborne nutrient and contaminant loads are below levels which would pose a risk to the ecological objectives described above</li> </ul> <p><b>SAC interest feature 2: Subtidal sandbanks which are covered by sea water all the time (subtidal sandbanks)</b></p> <p>The conservation objective for the "subtidal sandbanks" feature of the Severn Estuary SAC is to maintain the feature in favourable condition, as defined below:</p> <p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ul style="list-style-type: none"> <li>i. the total extent of the subtidal sandbanks within the site is maintained;</li> <li>ii. the extent and distribution of the individual subtidal sandbank communities within the site is maintained;</li> <li>iii. the community composition of the subtidal sandbank feature within the site is maintained;</li> <li>iv. the variety and distribution of sediment types across the subtidal sandbank feature is maintained;</li> <li>v. the gross morphology (depth, distribution and profile) of the subtidal sandbank feature within the site is maintained.</li> </ul> <p><b>SAC interest feature 3: Mudflats and sandflats not covered by seawater at low tide (mudflats and sandflats)</b></p> <p>The conservation objective for "mudflats and sandflats" feature of the Severn Estuary SAC is to maintain the feature in favourable condition, as defined below:</p>



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	<p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. The total extent of the mudflats and sandflats feature is maintained;</li> <li>ii. the variety and extent of individual mudflats and sandflats communities within the site is maintained;</li> <li>iii. the distribution of individual mudflats and sandflats communities<sup>3</sup> within the site is maintained;</li> <li>iv. the community composition of the mudflats and sandflats feature within the site is maintained;</li> <li>v. the topography of the intertidal flats and the morphology (dynamic processes of sediment movement and channel migration across the flats) are maintained.</li> </ol> <p><b>SAC interest feature 4: Atlantic salt meadow</b></p> <p>The conservation objective for the "Atlantic salt meadow" feature of the Severn Estuary SAC is to maintain the feature in favourable condition, as defined below:</p> <p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. the total extent of Atlantic salt meadow and associated transitional vegetation communities within the site is maintained;</li> <li>ii. the extent and distribution of the individual Atlantic salt meadow and associated transitional vegetation communities within the site is maintained;</li> <li>iii. the zonation of Atlantic salt meadow vegetation communities and their associated transitions to other estuary habitats is maintained;</li> <li>iv. the relative abundance of the typical species of the Atlantic salt meadow and associated transitional vegetation communities is maintained;</li> </ol>

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	<p>v. the abundance of the notable species of the Atlantic salt meadow and associated transitional vegetation communities is maintained.</p> <p>vi. the structural variation of the salt marsh sward (resulting from grazing) is maintained within limits sufficient to satisfy the requirements of conditions iv and v above and the requirements of the Ramsar and SPA features</p> <p>vii. the characteristic stepped morphology of the salt marshes and associated creeks, pills, drainage ditches and pans, and the estuarine processes that enable their development, is maintained.</p> <p>viii. Any areas of <i>Spartina anglica</i> salt marsh (SM6) are capable of developing naturally into other saltmarsh communities.</p> <p><b>SAC interest feature 5: Reefs</b></p> <p>The conservation objective for the "reefs" feature of the Severn Estuary SAC is to maintain the feature in a favourable condition, as defined below:</p> <p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <p>i. the total extent and distribution of <i>Sabellaria</i> reef is maintained;</p> <p>ii. the community composition of the <i>Sabellaria</i> reef is maintained;</p> <p>iii. the full range of different age structures of <i>Sabellaria</i> reef are present;</p> <p>iv. the physical and ecological processes necessary to support <i>Sabellaria</i> reef are maintained.</p> <p><b>SAC interest feature 6: River lamprey <i>Lampetra fluviatilis</i></b></p> <p>The conservation objective for the river lamprey <i>Lampetra fluviatilis</i> feature of the Severn Estuary SAC is to maintain the feature in a favourable condition, as defined below:</p>

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	<p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. the migratory passage of both adult and juvenile river lamprey through the Severn Estuary between the Bristol Channel and any of their spawning rivers is not obstructed or impeded by physical barriers, changes in flows, or poor water quality;</li> <li>ii. the size of the river lamprey population in the Severn Estuary and the rivers which drain into it, is at least maintained and is at a level that is sustainable in the long term;</li> <li>iii. the abundance of prey species forming the river lamprey's food resource within the estuary, is maintained.</li> <li>iv. Toxic contaminants in the water column and sediment are below levels which would pose a risk to the ecological objectives described above.</li> </ol> <p><b>SAC interest feature 7: The conservation objective for sea lamprey <i>Petromyzon marinus</i></b></p> <p>The conservation objective for the sea lamprey <i>Petromyzon marinus</i> feature of the Severn Estuary SAC is to maintain the feature in a favourable condition, as defined below:</p> <p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. the migratory passage of both adult and juvenile sea lamprey through the Severn Estuary between the Bristol Channel and any of their spawning rivers is not obstructed or impeded by physical barriers, changes in flows, or poor water quality;</li> <li>ii. the size of the sea lamprey population in the Severn Estuary and the rivers which drain into it, is at least maintained as is at a level that is sustainable in the long term;</li> <li>iii. the abundance of prey species forming the sea lamprey's food resource within the estuary, is maintained.</li> </ol>

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	<p>vi. Toxic contaminants in the water column and sediment are below levels which would pose a risk to the ecological objectives described above.</p> <p><b>SAC interest feature 8: The conservation objective for twaite shad <i>Alosa fallax</i></b></p> <p>The conservation objective for the twaite Shad <i>Alosa fallax</i> feature of the Severn Estuary SAC is to maintain the feature in a favourable condition, as defined below:</p> <p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. the migratory passage of both adult and juvenile twaite shad through the Severn Estuary between the Bristol Channel and their spawning rivers is not obstructed or impeded by physical barriers, changes in flows or poor water quality;</li> <li>ii. the size of the twaite shad population within the Severn Estuary and the rivers draining into it is at least maintained and is at a level that is sustainable in the long term.</li> <li>iii. the abundance of prey species forming the twaite shad's food resource within the estuary, in particular at the salt wedge, is maintained.</li> <li>iv. Toxic contaminants in the water column and sediment are below levels which would pose a risk to the ecological objectives described above.</li> </ol>
<b>Vulnerabilities (includes existing pressures and trends)</b>	<p>Negative Impacts:</p> <ul style="list-style-type: none"> <li>■ Other urbanisation, industrial and similar activities: High- Both</li> <li>■ Changes in abiotic conditions: High- Both</li> <li>■ Human induced changes in hydraulic conditions: High- Both</li> <li>■ Outdoor sports and leisure activities, recreational activities: High- Inside</li> <li>■ Modification of cultivation practices: High- Inside</li> </ul>

<b>Site Name: Wye Valley and Forest of Dean Bat Sites</b> <b>Location Grid Ref: SO605044</b> <b>JNCC Site Code: UK0014794</b> <b>Size: 142.7</b> <b>Designation: SAC</b>	<b>Habitats Regulations Assessment: Data Proforma</b>
<b>Site Description</b>	<p>The Wye Valley and Forest of Dean Bats SAC straddles the Wales-England border and covers an area of 142.7ha. It is underpinned by 4 SSSI in Wales and 9 in England, all of which lie entirely within the SAC. This complex of sites contains by far the greatest concentration of lesser horseshoe bat <i>Rhinolophus hipposideros</i> in the UK, totalling about 26% of the national population. It has been selected on the grounds of the exceptional breeding population, and the majority of sites within the complex are maternity roosts. The site also supports the greater horseshoe bat <i>Rhinolophus ferrumequinum</i> in the northern part of its range, with about 6% of the UK population. The site contains the main maternity roost for bats in this area, which are believed to hibernate in the many disused mines in the Forest.</p>
<b>Qualifying Features</b>	<p>Annex II Species primary reason for selection:</p> <ul style="list-style-type: none"> <li>■ Lesser horseshoe bat <i>Rhinolophus hipposideros</i></li> <li>■ Greater horseshoe bat <i>Rhinolophus ferrumequinum</i></li> </ul>
<b>Conservation Objectives</b>	<p>With regard to the natural habitats and/or species for which the site has been designated (the Qualifying Features" listed below);</p> <p>Avoid the deterioration of the qualifying natural habitats and the habitats of qualifying species, and the significant disturbance of those qualifying species, ensuring the integrity of the site is maintained and the site makes a full contribution to achieving Favourable Conservation Status of each of the qualifying features.</p> <p>Subject to natural change, to maintain or restore:</p> <ul style="list-style-type: none"> <li>■ The extent and distribution of qualifying natural habitats and habitats of qualifying species;</li> <li>■ The structure and function (including typical species) of qualifying natural habitats and habitats of qualifying species;</li> </ul>

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	<ul style="list-style-type: none"> <li>■ The supporting processes on which qualifying natural habitats and habitats of qualifying species rely;</li> <li>■ The populations of qualifying species;</li> <li>■ The distribution of qualifying species within the site.</li> </ul> <p><b>Qualifying Features:</b>            S1303. <i>Rhinolophus hipposideros</i>; Lesser horseshoe bat            S1304. <i>Rhinolophus ferrumequinum</i>; Greater horseshoe bat</p>
<b>Vulnerabilities (includes existing pressures and trends)</b>	Negative Impacts: <ul style="list-style-type: none"> <li>■ Other ecosystem modifications: High- Both</li> <li>■ Outdoor sports and leisure activities, recreational activities: High- Inside</li> <li>■ Human induced changes in hydraulic conditions: High- Both</li> </ul>

## Special Protection Areas

<b>Site Name: Severn Estuary</b> <b>Location (Lat &amp; Long):</b> <b>51 13 29 N</b> <b>03 02 57 W</b> <b>JNCC Site Code: UK9015022</b> <b>Size: 24662.98</b> <b>Designation: SPA</b>	<b>Habitats Regulations Assessment: Data Proforma</b>
<b>Site Description</b>	<p>The Severn Estuary is the largest coastal plain estuary in the UK with extensive mudflats and sandflats, rocky shore platforms, shingle and islands. Saltmarsh fringes the coast, backed by grazing marsh with freshwater and occasional brackish ditches. The estuary's classic funnel shape, unique in the UK, is a factor causing the Severn to have the second highest tidal range in the world (after the Bay of Fundy in Canada) at more than 12 meters. This tidal regime results in plant and animal communities typical of the extreme physical conditions of strong flows, mobile sediments, changing salinity, high turbidity and heavy scouring. The resultant low diversity invertebrate communities, that frequently include populations of ragworms, lugworms and other invertebrates in high densities, form an important food source for passage and wintering birds. The site is important in the spring and autumn migration periods for waders moving along the west coast of Europe, as well as in winter for large numbers of waterbirds including swans, geese, ducks and waders. These bird populations are regarded as internationally important.</p> <p>Glassworts and annual sea-blite colonise the open mud, with beds of all three species of eelgrass <i>Zostera</i> occurring on more sheltered mud and sandbanks. Large expanses of common cord-grass also occur on the outer marshes. Heavily grazed saltmarsh fringes the estuary with a range of saltmarsh types present. The middle marsh sward is dominated by common saltmarsh-grass with typical associated species. In the upper marsh, red fescue and saltmarsh rush become more prominent.</p> <p>Areas of saltmarsh fringe the estuary, mostly grazed with a range of vegetation communities. There are gradual and stepped transitions between bare mudflat to upper marsh and grassland. Main vegetation types are: upper saltmarsh with <i>Festuca rubra</i> and <i>Juncus gerardii</i>; middle marsh dominated by <i>Puccinellia maritima</i> with <i>Glaux maritima</i> and <i>Triglochin maritima</i>; dense monocultures of <i>Spartina anglica</i> at the edge of the mudflats-brackish pools and depressions with <i>Phragmites australis</i> and <i>Bolboschoenus maritimus</i>.</p>

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<b>Qualifying Features</b>	<p>Article 4.1 Qualification</p> <p>Over winter the area regularly supports:</p> <ul style="list-style-type: none"> <li>■ Bewick's Swan <i>Cygnus columbianus bewickii</i> 3.9% of the GB population</li> </ul> <p>Article 4.2 Qualification</p> <p>Over winter the area regularly supports:</p> <ul style="list-style-type: none"> <li>■ Gadwall <i>Anas strepera</i> 0.9% of the population</li> <li>■ White-fronted Goose <i>Anser albifrons albifrons</i> 0.4% of the population</li> <li>■ Dunlin <i>Calidris alpina alpina</i> 3.3% of the population</li> <li>■ Shelduck <i>Tadorna tadorna</i> 1.1% of the population</li> <li>■ Redshank <i>Tringa totanus</i> 1.3% of the population</li> </ul> <p>Article 4.2 Qualification: Internationally Important Assemblage of Birds</p> <p>Over winter the area regularly supports:</p> <ul style="list-style-type: none"> <li>■ 84317 waterfowl</li> </ul>
<b>Conservation Objectives</b>	<p><b>SPA Interest feature 1: Internationally important population of regularly occurring Annex 1 species: Bewick's swan</b></p> <p>The conservation objective is to maintain the Bewick's swan population and its supporting habitats in <b>favourable condition</b>, as defined below.</p>



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	<p>The interest feature Bewick's swan will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ul style="list-style-type: none"> <li>i. the 5 year peak mean population size for the Bewick's swan population is no less than 289 individuals (ie the 5 year peak mean between 1988/9 - 1992/3);</li> <li>ii. the extent of saltmarsh at the Dumbles is maintained;</li> <li>iii. the extent of intertidal mudflats and sandflats at Frampton Sands, Waveridge Sands and the Noose is maintained;</li> <li>iv. the extent of vegetation with an effective field size of &gt;6 ha and with unrestricted bird sightlines &gt; 500m at feeding, roosting and refuge sites are maintained;</li> <li>v. greater than 25% cover of suitable soft leaved herbs and grasses in winter season throughout the transitional saltmarsh at the Dumbles is maintained;</li> <li>vi. aggregations of Bewick's swan at feeding, roosting and refuge sites are not subject to significant disturbance.</li> </ul> <p><b>SPA Interest feature 2: Internationally important population of regularly occurring migratory species: wintering European white-fronted goose</b></p> <p>The conservation objective is to maintain the European white-fronted goose population and its supporting habitats in <b>favourable condition</b>, as defined below.</p> <p>The interest feature European white-fronted goose will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ul style="list-style-type: none"> <li>i. the 5 year peak mean population size for the wintering European white fronted goose population is no less than 3,002 individuals (ie the 5 year peak mean between 1988/9-</li> </ul>

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	<ul style="list-style-type: none"> <li>ii. 1992/3);</li> <li>iii. the extent of saltmarsh at the Dumbles is maintained;</li> <li>iv. the extent of intertidal mudflats and sandflats at Frampton Sands, Waveridge Sands and the Noose is maintained;</li> <li>v. greater than 25% cover of suitable soft-leaved herbs and grasses is maintained during the winter on saltmarsh areas;</li> <li>vi. unrestricted bird sightlines of &gt;200m at feeding and roosting sites are maintained;</li> <li>vii. aggregations of European white-fronted goose at feeding or roosting sites are not subject to significant disturbance.</li> </ul> <p><b>SPA Interest feature 3: Internationally important population of regularly occurring migratory species: wintering dunlin</b></p> <p>The conservation objective is to maintain the dunlin population and its supporting habitats in <b>favourable condition</b>, as defined below.</p> <p>The interest feature dunlin will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ul style="list-style-type: none"> <li>i. the 5 year peak mean population size for the wintering dunlin population is no less than 41,683 individuals (ie the 5 year peak mean between 1988/9 - 1992/3);</li> <li>ii. the extent of saltmarsh and associated strandlines is maintained;</li> <li>iii. the extent of intertidal mudflats and sandflats is maintained;</li> <li>iv. the extent of hard substrate habitats is maintained;</li> <li>v. the extent of vegetation with a sward height of &lt;10cm is maintained throughout the saltmarsh;</li> </ul>

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	<ul style="list-style-type: none"> <li>vi. the abundance and macro-distribution of suitable invertebrates in intertidal mudflats and sandflats is maintained;</li> <li>vii. the abundance and macro-distribution of suitable invertebrates in hard substrate habitats is maintained;</li> <li>viii. unrestricted bird sightlines of &gt;200m at feeding and roosting sites are maintained;</li> <li>ix. aggregations of dunlin at feeding or roosting sites are not subject to significant disturbance.</li> </ul> <p><b>SPA Interest feature 4: Internationally important population of regularly occurring migratory species: wintering redshank</b></p> <p>The conservation objective is to maintain the redshank population and its supporting habitats in <b>favourable condition</b>, as defined below.</p> <p>The interest feature redshank will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ul style="list-style-type: none"> <li>i. the 5 year peak mean population size for the wintering redshank population is no less than 2,013 individuals (ie the 5 year peak mean between 1988/9 - 1992/3);</li> <li>ii. the extent of saltmarsh and associated strandlines is maintained;</li> <li>iii. the extent of intertidal mudflats and sandflats is maintained;</li> <li>iv. the extent of hard substrate habitats is maintained;</li> <li>v. the extent of vegetation with a sward height of &lt;10cm throughout the saltmarsh is maintained;</li> <li>vi. the abundance and macro-distribution of suitable invertebrates in intertidal mudflats and sandflats is maintained;</li> <li>vii. the abundance and macro-distribution of suitable invertebrates in hard substrate habitats is maintained;</li> </ul>

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	<p>viii. unrestricted bird sightlines of &gt;200m at feeding and roosting sites are maintained;</p> <p>ix. aggregations of redshank at feeding or roosting sites are not subject to significant disturbance.</p> <p><b>SPA Interest feature 5: Internationally important population of regularly occurring migratory species: wintering shelduck</b></p> <p>The conservation objective is to maintain the shelduck population and its supporting habitats in <b>favourable condition</b>, as defined below.</p> <p>The interest feature shelduck will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ul style="list-style-type: none"> <li>i. the 5 year peak mean population size for the wintering shelduck population is no less than 2,892 individuals (ie the 5 year peak mean between 1988/9 - 1992/3);</li> <li>ii. the extent of saltmarsh is maintained;</li> <li>iii. the extent of intertidal mudflats and sandflats is maintained;</li> <li>iv. the extent of hard substrate habitats is maintained;</li> <li>v. the abundance and macro-distribution of suitable invertebrates in intertidal mudflats and sandflats is maintained;</li> <li>vi. unrestricted bird sightlines of &gt;200m at feeding and roosting sites are maintained;</li> <li>vii. aggregations of shelduck at feeding or roosting sites are not subject to significant disturbance.</li> </ul> <p><b>SPA interest feature 6: Internationally important population of regularly occurring migratory species: wintering gadwall</b></p>

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	<p>The conservation objective is to maintain the gadwall population and its supporting habitats in favourable condition, as defined below:</p> <p>The interest feature gadwall will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. the 5 year peak mean population size for the wintering gadwall population is no less than 330 (ie the 5 year peak mean between 1988/9 - 1992/3);</li> <li>ii. the extent of intertidal mudflats and sandflats (Appendix 8) is maintained;</li> <li>iii. unrestricted bird sightlines of &gt;200m at feeding and roosting sites are maintained;</li> <li>iv. aggregations of gadwall at feeding or roosting sites are not subject to significant disturbance.</li> </ol> <p><b>SPA Interest feature 7: Internationally important assemblage of waterfowl</b></p> <p>The conservation objective is to maintain the waterfowl assemblage and its supporting habitats in <b>favourable condition</b>, as defined below.</p> <p>The interest feature waterfowl assemblage will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. the 5 year peak mean population size for the waterfowl assemblage is no less than 68,026 individuals (ie the 5 year peak mean between 1988/9 - 1992/3);</li> <li>ii. the extent of saltmarsh and their associated strandlines is maintained;</li> <li>iii. the extent of intertidal mudflats and sandflats is maintained;</li> <li>iv. the extent of hard substrate habitats is maintained;</li> <li>v. extent of vegetation of &lt;10cm throughout the saltmarsh is maintained;</li> </ol>

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	vi. the abundance and macro-distribution of suitable invertebrates in intertidal mudflats and sandflats is maintained; vii. the abundance and macro-distribution of suitable invertebrates in hard substrate habitats is maintained; viii. greater than 25% cover of suitable soft leaved herbs and grasses during the winter on saltmarsh areas is maintained; ix. unrestricted bird sightlines of >500m at feeding and roosting sites are maintained; x. waterfowl aggregations at feeding or roosting sites are not subject to significant disturbance.
<b>Vulnerabilities (includes existing pressures and trends)</b>	Negative Impacts: <ul style="list-style-type: none"> <li>■ Outdoor sports and leisure activities, recreational activities: High- Inside</li> <li>■ Other urbanisation, industrial and similar activities: High- Both</li> <li>■ Modification of cultivation practices: High- Inside</li> <li>■ Changes in abiotic conditions: High- Both</li> <li>■ Human induced changes in hydraulic conditions: High- Both</li> </ul>

<b>Site Name: Walmore Common</b> <b>Location (Lat &amp; Long):</b> <b>51 49 58 N</b> <b>02 22 14 W</b> <b>JNCC Site Code: UK9007051</b> <b>Size: 52.85 ha</b> <b>Designation: SPA</b>	<b>Habitats Regulations Assessment: Data Proforma</b>
<b>Site Description</b>	<p>Walmore Common is located in Gloucestershire, in the west of England, about 10 km south-west of Gloucester. The site is a wetland overlying peat providing a variety of habitats including improved neutral grassland, unimproved marshy grassland and open water ditches. The area is subject to regular winter flooding and this creates suitable conditions for regular wintering by an important number of Bewick's Swan <i>Cygnus columbianus bewickii</i>. The highest bird numbers are seen during the harshest winters, when Walmore Common provides an essential feeding and roosting area.</p>
<b>Qualifying Features</b>	<p>Article 4.1 Qualification</p> <p>Over winter the area regularly supports:</p> <ul style="list-style-type: none"> <li>■ Bewick's Swan <i>Cygnus columbianus bewickii</i> 1.4% of the GB population</li> </ul>
<b>Conservation Objectives</b>	<p>With regard to the natural habitats and/or species for which the site has been designated (the Qualifying Features" listed below);</p> <p>Avoid the deterioration of the qualifying natural habitats and the habitats of qualifying species, and the significant disturbance of those qualifying species, ensuring the integrity of the site is maintained and the site makes a full contribution to achieving Favourable Conservation Status of each of the qualifying features.</p> <p>Subject to natural change, to maintain or restore:</p> <ul style="list-style-type: none"> <li>■ The extent and distribution of qualifying natural habitats and habitats of qualifying species;</li> <li>■ The structure and function (including typical species) of qualifying natural habitats and habitats of qualifying species;</li> <li>■ The supporting processes on which qualifying natural habitats and habitats of qualifying species rely;</li> <li>■ The populations of qualifying species;</li> </ul>

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	<ul style="list-style-type: none"> <li>▪ The distribution of qualifying species within the site.</li> </ul> <p>Qualifying Features:                      A037 <i>Cygnus columbianus bewickii</i>; Bewick’s swan (Non-breeding)</p>
<b>Vulnerabilities (includes existing pressures and trends)</b>	<p>Negative Impacts:</p> <ul style="list-style-type: none"> <li>▪ Human induced changes in hydraulic conditions: High- Both</li> <li>▪ Changes in biotic conditions: High- Both</li> <li>▪ Outdoor sports and leisure activities, recreational activities: High- Inside</li> <li>▪ Modification of cultivation practices: High- Inside</li> </ul>



## Ramsar Sites

<b>Site Name: Severn Estuary</b> <b>Location (Lat &amp; Long):</b> <b>51 13 29 N</b> <b>03 02 57 W</b> <b>JNCC Site Code: UK11081</b> <b>Size: 24662.98</b> <b>Designation: Ramsar</b>	<b>Habitats Regulations Assessment: Data Proforma</b>
<b>Site Description</b>	<p>The Severn Estuary is the largest coastal plain estuary in the UK with extensive mudflats and sandflats, rocky shore platforms, shingle and islands. Saltmarsh fringes the coast, backed by grazing marsh with freshwater and occasional brackish ditches. The estuary's classic funnel shape, unique in the UK, is a factor causing the Severn to have the second highest tidal range in the world (after the Bay of Fundy in Canada) at more than 12 meters. This tidal regime results in plant and animal communities typical of the extreme physical conditions of strong flows, mobile sediments, changing salinity, high turbidity and heavy scouring. The resultant low diversity invertebrate communities, that frequently include populations of ragworms, lugworms and other invertebrates in high densities, form an important food source for passage and wintering birds. The site is important in the spring and autumn migration periods for waders moving along the west coast of Europe, as well as in winter for large numbers of waterbirds including swans, geese, ducks and waders. These bird populations are regarded as internationally important.</p> <p>Glassworts and annual sea-blite colonise the open mud, with beds of all three species of eelgrass <i>Zostera</i> occurring on more sheltered mud and sandbanks. Large expanses of common cord-grass also occur on the outer marshes. Heavily grazed saltmarsh fringes the estuary with a range of saltmarsh types present. The middle marsh sward is dominated by common saltmarsh-grass with typical associated species. In the upper marsh, red fescue and saltmarsh rush become more prominent.</p> <p>Areas of saltmarsh fringe the estuary, mostly grazed with a range of vegetation communities. There are gradual and stepped transitions between bare mudflat to upper marsh and grassland. Main vegetation types are: upper saltmarsh with <i>Festuca rubra</i> and <i>Juncus gerardii</i>; middle marsh dominated by <i>Puccinellia maritima</i> with <i>Glaux maritima</i> and <i>Triglochin maritima</i>; dense monocultures of <i>Spartina anglica</i> at the edge of the mudflats-brackish pools and depressions with <i>Phragmites australis</i> and <i>Bolboschoenus maritimus</i>.</p>

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<b>Qualifying Features</b>	<p>Ramsar criterion 1</p> <ul style="list-style-type: none"> <li>■ Immense tidal range (second-largest in world) creating diversity of physical environment and biological communities.</li> </ul> <p>Ramsar criterion 3</p> <ul style="list-style-type: none"> <li>■ Due to unusual estuarine communities, reduced diversity and high productivity.</li> </ul> <p>Ramsar criterion 4</p> <ul style="list-style-type: none"> <li>■ This site is important for the run of migratory fish between sea and river via estuary. Species include Salmon <i>Salmo salar</i>, sea trout <i>S. trutta</i>, sea lamprey <i>Petromyzon marinus</i>, river lamprey <i>Lampetra fluviatilis</i>, allis shad <i>Alosa alosa</i>, twaite shad <i>A. fallax</i>, and eel <i>Anguilla anguilla</i>. It is also of particular importance for migratory birds during spring and autumn.</li> </ul> <p>Ramsar criterion 5</p> <ul style="list-style-type: none"> <li>■ Qualifies as it supports an assemblage of international importance</li> </ul> <p>Species with peak counts in winter:</p> <ul style="list-style-type: none"> <li>■ 70919 waterfowl</li> </ul> <p>Ramsar criterion 6</p> <ul style="list-style-type: none"> <li>■ Qualifies as it regularly supports 1% of the individuals in a population of one species or subspecies of waterbird.</li> </ul> <p>Species with peak counts in winter - at designation:</p> <ul style="list-style-type: none"> <li>■ Tundra/Bewick's swan Greater /European</li> <li>■ white-fronted goose</li> </ul>

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	<ul style="list-style-type: none"> <li>■ Dunlin</li> <li>■ Common redshank</li> <li>■ Common shelduck</li> <li>■ Gadwall</li> </ul> <p>Populations identified subsequent to designation:</p> <ul style="list-style-type: none"> <li>■ Ringed plover (spring/autumn)</li> <li>■ Eurasian teal (winter)</li> <li>■ Northern pintail (winter)</li> <li>■ Lesser black-backed gull (breeding)</li> </ul> <p>Ramsar criterion 8</p> <ul style="list-style-type: none"> <li>■ The fish of the whole estuarine and river system is one of the most diverse in Britain, with over 110 species recorded. Salmon <i>Salmo salar</i>, sea trout <i>S. trutta</i>, sea lamprey <i>Petromyzon marinus</i>, river lamprey <i>Lampetra fluviatilis</i>, allis shad <i>Alosa alosa</i>, twaite shad <i>A. fallax</i>, and eel <i>Anguilla Anguilla</i> use the Severn Estuary as a key migration route to their spawning grounds in the many tributaries that flow into the estuary. The site is important as a feeding and nursery ground for many fish species particularly allis shad <i>Alosa alosa</i> and twaite shad <i>A. fallax</i> which feed on mysid shrimps in the salt wedge.</li> </ul>
<b>Conservation Objectives</b>	<p><b>Ramsar interest feature 1: Estuaries</b></p> <p>The conservation objective for the “estuaries” feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined by the conservation objective for the SAC “estuaries” feature”, in so far as these objectives are applicable to the area designated as Ramsar Site.</p>

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	<p><b>Ramsar interest feature 2: Assemblage of migratory fish species</b></p> <p>The conservation objective for the “assemblage of migratory fish species” feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined below:</p> <p>The feature will be considered to be in favourable condition when, subject to natural processes, each of the following conditions are met:</p> <ol style="list-style-type: none"> <li>i. the migratory passage of both adults and juveniles of the assemblage of migratory fish species through the Severn Estuary between the Bristol Channel and any of their spawning rivers is not obstructed or impeded by physical barriers, changes in flows, or poor water quality;</li> <li>ii. the size of the populations of the assemblage species in the Severn Estuary and the rivers which drain into it, is at least maintained and is at a level that is sustainable in the long term;</li> <li>iii. the abundance of prey species forming the principle food resources for the assemblage species within the estuary, is maintained.</li> <li>iv. Toxic contaminants in the water column and sediment are below levels which would pose a risk to the ecological objectives described above.</li> </ol> <p><b>Ramsar interest feature 3: Internationally important populations of waterfowl : Bewick’s swan</b></p> <p>The conservation objective for the “Bewick’s swan” feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined by the conservation objective for the SPA “Bewick’s swan ” feature.</p> <p><b>Ramsar interest feature 4: Internationally important populations of waterfowl: European white-fronted goose</b></p>

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	<p>The conservation objective for the "European white-fronted goose" feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined by the conservation objective for the SPA "wintering European white-fronted goose" feature.</p> <p><b>Ramsar interest feature 5: Internationally important populations of waterfowl: dunlin</b></p> <p>The conservation objective for the "dunlin" feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined by the conservation objective for the SPA "wintering dunlin" feature.</p> <p><b>Ramsar interest feature 6: Internationally important populations of waterfowl: redshank</b></p> <p>The conservation objective for the "redshank" feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined by the conservation objective for the SPA "wintering redshank" feature.</p> <p><b>Ramsar interest feature 7: Internationally important populations of waterfowl: shelduck</b></p> <p>The conservation objective for the "shelduck" feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined by the conservation objective for the SPA "wintering shelduck" feature.</p> <p><b>Ramsar interest feature 8: Internationally important populations of waterfowl: gadwall</b></p> <p>The conservation objective for the "gadwall" feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined by the conservation objective for the SPA "wintering gadwall" feature.</p>

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	<p><b>Ramsar interest feature 9: Internationally important assemblage of waterfowl</b></p> <p>The conservation objective for the “internationally important assemblage of waterfowl” feature of the Severn Estuary Ramsar Site is to maintain the feature in favourable condition, as defined by the conservation objective for the SPA “internationally important assemblage of waterfowl” feature - with special reference to the individual species listed and their population figures.</p>
<b>Vulnerabilities (includes existing pressures and trends)</b>	<ul style="list-style-type: none"> <li>■ <b>Physical loss of supporting habitats through removal</b> - The physical loss of areas of intertidal habitats may be caused directly through change of land use or indirectly as a consequence of changes to sedimentation processes (e.g. coastal defences) as well as via the effects of smothering by artificial structures (e.g. jetties) or the disposal of spoils. Activities or developments resulting in physical loss of the intertidal supporting habitats are likely to reduce the availability of feeding and roosting habitats. The intertidal mudflats and sandflats and the saltmarsh are highly sensitive to removal by land reclamation and barrage construction. Information provided by NE and CCW states that large areas of the European marine site are not currently under threat, however when combined with a high level of sensitivity this leads to a moderate vulnerability.</li> <li>■ <b>Noise or visual disturbance</b> - Overwintering birds are disturbed by sudden movements and sudden noises. This can displace the birds from their feeding grounds. Disturbance can prevent the birds from feeding and in response they either a) decrease their energy intake at their present (disturbed) feeding site through displacement activity, or b) move to an alternative less favoured feeding site. Such a response affects energy budgets and thus survival. There is intermittent disturbance to the internationally important migratory species and the waterfowl assemblage from both the landward and seaward side of the site which has increased in recent years, due to the estuary becoming more populated and the development of all weather recreational pursuits. Bewick's swans are mainly affected by disturbance from the landward side</li> </ul>

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	<p>and any increase in disturbance should be avoided. All supporting habitats are currently highly vulnerable to noise and visual disturbance.</p> <ul style="list-style-type: none"> <li>■ <b>Contamination by synthetic and/or non-synthetic toxic compounds</b> - Waterfowl are subject to the accumulation of toxins through the food chain or through direct contact with toxic substances when roosting or feeding. Their ability to feed can also be affected by the abundance or change in palatability of their prey caused by toxic contamination. At the moment there is no evidence to show that this is the case, but the estuary is vulnerable to oil spills and there is a continuous discharge of toxins into the estuary, some of which bind to the sediments. NE and CCW identify this is an area which requires further assessment. The intertidal mudflats and sandflats and the saltmarsh are currently highly vulnerable to the introduction of synthetic and non-synthetic compounds.</li> <li>■ <b>Damage by abrasion or selective extraction</b> - Saltmarsh may be physically damaged from overgrazing or eroded when boats are moored on it and when paths are worn through it to reach moored boats on foot or via vehicles. Currently all supporting habitats are considered to be moderately vulnerable to abrasion. Intertidal habitats are highly sensitive to damage by direct and indirect effects of aggregate dredging. The intertidal mudflats and sandflats and the shingle and rocky shore are therefore considered by NE and CCW to be highly vulnerable to selective extraction.</li> <li>■ <b>Changes in nutrient and/or organic loading</b> - Changes in organic or nutrient loading can change the species composition of the plants on the saltmarsh and thus the structure of the sward. Increases in nutrients can also cause excessive algal growth on the mudflats, denying the birds access to their invertebrate prey and changing the invertebrate species composition in the sediment. Though the water quality has been improved in recent years there are still local areas of concern and any increase in nutrient loading should be avoided. At present the intertidal mudflats and sandflats are moderately vulnerable to this category of operation.</li> </ul>

<b>Site Name: Severn Estuary</b> <b>Location (Lat &amp; Long):</b> <b>51 13 29 N</b> <b>03 02 57 W</b> <b>JNCC Site Code: UK11081</b> <b>Size: 24662.98</b> <b>Designation: Ramsar</b>	<b>Habitats Regulations Assessment: Data Proforma</b>
	<ul style="list-style-type: none"> <li>■ <b>Biological disturbance through the selective extraction of species</b> - Wildfowling is carried out all around the estuary. NE and CCW have not established that it has a detrimental effect on the overall bird populations but state that wildfowling needs to be exercised in a managed and sustainable manner preferably by a British Association of Shooting and Conservation (BASC) affiliated association, applying the BASC wildfowling code of conduct. Bait digging is also carried out around the estuary. If too large an area is regularly dug over, it can change the availability of prey in the sediment as the area needs a period of recovery and recolonisation. The removal of strandline vegetation by beach cleaning removes an important habitat for invertebrates, as well as many of the invertebrates themselves, reducing the quantity and variety of prey available to the birds. Much of the saltmarsh is managed by grazing and changes in management can alter the availability of prey and suitability of roosting sites. The saltmarsh is currently highly vulnerable to the selective extraction of species.</li> </ul>



## Appendix II: Plans and Programmes Review

Plan/Project	Proposal	Potential impacts that could cause 'in-combination' effects
Forest of Dean Core Strategy Adopted (Feb 2012)	<ul style="list-style-type: none"> <li>• 5,162 new dwellings</li> <li>• About 75% of all new housing and 80% of new employment will be in the four towns: 1900 new dwellings and 30ha of employment land at Lydney, 1050 dwellings and 26ha of employment at Cinderford, 650 dwellings and 6.8ha at Coleford and 350 dwellings and 5ha at Newent.</li> </ul>	<ul style="list-style-type: none"> <li>• Proposed housing, employment and infrastructure development has the potential to: increase disturbance (recreational, noise, light); increase atmospheric pollution (diffuse); increase pressure on sewerage capacity; increase water abstraction; result in the loss of supporting habitat and modify drainage.</li> <li>• The HRA Screening (SA Report Feb 2012 - Appendix 10) concluded that the Core Strategy will not result in any significant negative impacts on identified sites. The need for HRA at later stages of the planning processes was identified, when development proposals are more detailed.</li> <li>• The Plan has the potential to result in in-combination effects with the Gloucester City Plan: <ul style="list-style-type: none"> <li>▪ atmospheric pollution through increased traffic, which could reduce air quality;</li> <li>▪ increased levels of disturbance - recreational activity, noise and light pollution; and</li> <li>▪ increased levels of abstraction; surface water run-off and sewerage discharge, which could reduce water quality and levels.</li> </ul> </li> </ul>
JCS Gloucester, Cheltenham and Tewkesbury (November 2014)	<ul style="list-style-type: none"> <li>• 30,500 to 38,00 dwellings</li> <li>• The housing requirement for each local authority will be as follows: <ul style="list-style-type: none"> <li>- Gloucester: 11,300 new homes</li> <li>- Cheltenham: 9,100 new homes</li> <li>- Tewkesbury: 10,100 new homes</li> </ul> </li> </ul> <p>28,000 jobs with 64 hectares of employment land</p>	<ul style="list-style-type: none"> <li>• Proposed housing, employment and infrastructure development has the potential to: increase disturbance (recreational, noise, light); increase atmospheric pollution (diffuse); increase pressure on sewerage capacity; increase water abstraction; result in the loss of supporting habitat and modify drainage.</li> <li>• The Plan has the potential to result in in-combination effects with the Gloucester City Plan: <ul style="list-style-type: none"> <li>▪ atmospheric pollution through increased traffic, which could reduce air quality</li> </ul> </li> </ul>

Plan/Project	Proposal	Potential impacts that could cause 'in-combination' effects
		<ul style="list-style-type: none"> <li>▪ increased levels of disturbance - recreational activity, noise and light pollution, potential for increased disturbance to mobile species; and</li> <li>▪ increased levels of abstraction; surface water run-off and sewerage discharge, which could reduce water quality and levels.</li> </ul>
Tewkesbury Town Centre Masterplan Strategic Framework Document (July 2012)	<ul style="list-style-type: none"> <li>• Regeneration of key sites around Tewkesbury town centre</li> <li>• Decrease congestion</li> </ul>	<ul style="list-style-type: none"> <li>• The Plan has the potential to result in in-combination effects with the Gloucester City Plan:               <ul style="list-style-type: none"> <li>▪ atmospheric pollution through increased traffic, which could reduce air quality</li> <li>▪ increased levels of disturbance - recreational activity, noise and light pollution, potential for increased disturbance to mobile species; and</li> <li>▪ increased levels of abstraction; surface water run-off and sewerage discharge, which could reduce water quality and levels.</li> </ul> </li> </ul>
Stroud Local Plan November 2015	<ul style="list-style-type: none"> <li>• 3615 new dwellings</li> <li>• 6,600-12,500 jobs with new employment land allocations and support for further town centre and retail floorspace to meet needs up to 2031</li> <li>• Strategic sites:               <ol style="list-style-type: none"> <li>1. Hunts Grove Extension 750</li> <li>2. North East Cam 450</li> <li>3. Sharpness 300</li> <li>4. Stroud Valleys 450</li> <li>5. West of Stonehouse 1350</li> </ol> </li> </ul>	<ul style="list-style-type: none"> <li>• The HRA including an appropriate assessment identified three European sites for further investigation:               <ol style="list-style-type: none"> <li>1. Severn estuary SAC, SPA &amp; Ramsar – air quality, recreational pressure water supply and wastewater treatment.</li> <li>2. Rodborough Common SAC – air quality and recreational pressure.</li> <li>3. Cotswold Beechwoods SAC – air quality and recreational pressure.</li> </ol> <p>With mitigation suggested in the HRA it was concluded that there would be an appropriate policy mechanism in place to ensure that adverse effects on the integrity of the three sites mentioned above could be avoided.</p> </li> <li>• The Plan has the potential to result in in-combination effects with the Gloucester City Plan:               <ul style="list-style-type: none"> <li>▪ atmospheric pollution through increased traffic, which could reduce air quality;</li> <li>▪ increased levels of disturbance - recreational activity, noise and light pollution; and</li> </ul> </li> </ul>

Plan/Project	Proposal	Potential impacts that could cause 'in-combination' effects
		<ul style="list-style-type: none"> <li>▪ increased levels of abstraction; surface water run-off and sewerage discharge, which could reduce water quality and levels.</li> </ul>
Gloucestershire LTP3 2015 - 2031	<ul style="list-style-type: none"> <li>• Major road and transport schemes/ interchanges</li> </ul>	<ul style="list-style-type: none"> <li>• Proposed transport infrastructure could increase disturbance (recreational, noise, light); increase atmospheric pollution (diffuse); increase transfer of pollutants through surface water run-off; result in the loss of supporting habitat and modify drainage.</li> <li>• Potential for in-combination effects will be considered through the HRA for the Gloucester City Plan.</li> </ul>
Gloucestershire Minerals Core Strategy Preferred Options (February 2015)	<ul style="list-style-type: none"> <li>• 7 strategic objectives make up the preferred option and are fall within themes.</li> <li>• The MCS identifies the following resource areas, which are of relevance:</li> <li>• The Cotswolds - provides limestone used as a crushed rock and building stone and clay for brick-making;</li> <li>• The Severn Vale Corridor - also encompasses sand &amp; gravel for aggregate use; and clay for engineering projects.</li> </ul>	<ul style="list-style-type: none"> <li>• The MCS identifies the potential outward supply opportunity of crushed rock into Wales and the West Midlands. This could have the potential to have in-combination effects through increased transport and associated impacts/ pollution incidents.</li> <li>• The MCS also identifies the provision potential of the Severn Vale Corridor resource area to provide potential new site allocations for sand and gravel working.</li> <li>• The HRA for the Preferred Options acknowledged that there are uncertainties surrounding the minerals provision in Gloucestershire.</li> <li>• The Plan has the potential to result in in-combination effects with the Gloucester City Plan: <ul style="list-style-type: none"> <li>▪ atmospheric pollution through increased traffic, which could reduce air quality;</li> <li>▪ increased levels of disturbance - noise and light pollution; and</li> <li>▪ increased levels of abstraction; surface water run-off and sewerage discharge, which could reduce water quality and levels.</li> </ul> </li> </ul>
Gloucestershire Waste Core Strategy Adopted (Nov 2012)	<ul style="list-style-type: none"> <li>• The Waste Core Strategy (WCS) provides the framework for sustainable waste management in the County.</li> <li>• The CS states that Planning permission will be granted for strategic residual recovery</li> </ul>	<ul style="list-style-type: none"> <li>• The HRA concluded that the WCS and associated policies will have no likely significant effects alone or in-combination on any European designated sites for nature conservation.</li> <li>• The Plan has the potential to result in in-combination effects with the Gloucester City Plan:</li> </ul>

Plan/Project	Proposal	Potential impacts that could cause 'in-combination' effects
	facilities (>50,000 tonnes/year) at the following sites: <ul style="list-style-type: none"> <li>• 1. Wingmoor Farm East</li> <li>• 2. The Park</li> <li>• 3. Wingmoor Farm West</li> <li>• 4. Javelin Park</li> <li>• 5. Land at Moreton Valence</li> </ul>	<ul style="list-style-type: none"> <li>▪ atmospheric pollution through increased traffic, which could reduce air quality;</li> <li>▪ increased levels of disturbance - noise and light pollution; and</li> <li>▪ increased levels of abstraction; surface water run-off and sewerage discharge, which could reduce water quality and levels.</li> </ul>
Shoreline Management Plans	<ul style="list-style-type: none"> <li>• Proposals for coastal defence management</li> </ul>	<ul style="list-style-type: none"> <li>• Mudflats, sandflats and sandbanks not currently covered by seawater at low tide may experience changes arising from the SMP which would then alter the baseline evidence. Potential impacts on Severn Estuary SAC/SPA/Ramsar.</li> <li>• Potential for in-combination effects will be considered through the HRA for the Gloucester City Plan.</li> </ul>
Severn Estuary Flood Risk Management Strategy (EA)	<ul style="list-style-type: none"> <li>• A 100 year plan of investment for flood defences by the Environment Agency and Local Authorities</li> <li>• The prioritisation of other flood risk management measures such as providing advice to utility companies to protect critical infrastructure, development control advice and flood warning investment</li> <li>• Creation of new inter-tidal wildlife habitats to compensate for loss of wildlife habitats through rising sea levels.</li> </ul>	<ul style="list-style-type: none"> <li>• Mudflats, sandflats and sandbanks not currently covered by seawater at low tide may experience changes arising from the various plans which would then alter the baseline evidence.</li> <li>• Potential for in-combination effects will be considered through the HRA for the Gloucester City Plan.</li> </ul>
Severn Estuary River Basin Management Plan	<ul style="list-style-type: none"> <li>• Proposals relating to the Severn Estuary and its related pressures.</li> </ul>	<ul style="list-style-type: none"> <li>• The potential for this plan to improve the habitat quality for this European site will have a bearing on the future potential impact of policies and the baseline against which it is measured.</li> <li>• A Habitats Regulations Assessment of this plan has been carried out to consider whether it is likely to have a significant effect on any Natura</li> </ul>

Plan/Project	Proposal	Potential impacts that could cause 'in-combination' effects
		<p>2000 sites. The assessment was undertaken by the Environment Agency, in consultation with Natural England and the Countryside Council for Wales.</p> <ul style="list-style-type: none"> <li>The assessment concluded that the River Basin Management Plan is unlikely to have any significant negative effects on any Natura 2000 sites and that Plan itself does not require further assessment under the Habitats Regulations. This conclusion is reliant on the fact that before any measures in the Plan are implemented they must be subject to the requirements of the Habitats Regulations. Any plans, project or permissions required to implement the measures must undergo an appropriate assessment if they are likely to have a significant effect.</li> </ul>
Severn Trent Water Resource Management Plan Final Version (2014)	<ul style="list-style-type: none"> <li>The WRMP sets out Severn Trent Water's strategy for ensuring the security of water supplies between 2010 and 2035.</li> </ul>	<ul style="list-style-type: none"> <li>The HRA of the WRMP identified that based on the current level of detail available for the final WRMP schemes; it is unlikely that there will be any significant impact on Natura 2000 or Ramsar sites. However, all schemes that were identified within the HRA screening process as having the potential to have a significant effect will be subject to further screening at project design to determine whether, based on the additional design information, the scheme could have a likely significant effect. Any scheme that could have an adverse effect on the integrity of a European or International site will not be in accordance with the objectives of our WRMP and will not be taken forward.</li> </ul>
Development associated with the decommissioning of Berkeley Power Station	<ul style="list-style-type: none"> <li>The station is now proceeding through a measured and calculated programme of work to decommission the site.</li> </ul>	<ul style="list-style-type: none"> <li>There may be impacts on air quality and nutrient enrichment</li> <li>The demolition of structures may create dust which could have a smothering effect on sites</li> <li>The Plan has the potential to result in in-combination effects with the Gloucester City Plan: <ul style="list-style-type: none"> <li>atmospheric pollution through increased traffic, which could reduce air quality;</li> <li>increased levels of disturbance - noise and light pollution; and</li> </ul> </li> </ul>

Plan/Project	Proposal	Potential impacts that could cause 'in-combination' effects
		<ul style="list-style-type: none"> <li>▪ increased levels of abstraction; surface water run-off and sewerage discharge, which could reduce water quality and levels.</li> </ul>
<p>Development proposals for Oldbury Power Station</p>	<ul style="list-style-type: none"> <li>• 2 nuclear reactors with a combined expected output of approximately 2700MW.</li> <li>• Up to four cooling towers of between 70m and 200m in height</li> <li>• Interim waste storage facilities</li> <li>• Electricity transmission infrastructure</li> <li>• Access roads and highways improvements and a possible park and ride facility</li> <li>• A marine off-loading facility (MOF) and other such construction transport options</li> <li>• Implementation of a flood defence strategy for the site</li> </ul>	<p>There is the potential for impacts on the Severn SAC/SPA/Ramsar due to the proposal for cooling water infrastructure - intake ('make-up') and discharge ('purge') pipework and structures as well as through construction and operation of a marine offloading facility which could be constructed within the designated sites.</p> <ul style="list-style-type: none"> <li>• The cooling water system required for the stations would need to abstract water from the River Severn to provide top up supplies. It is likely that the cooling water would be taken from the tidal lagoon currently operated by the present Magnox station which is within the Severn Estuary SPA, SCI, Ramsar site. Abstraction would require new pipework and construction of intake and discharge structures within the designated areas. This could mean a temporary loss of habitat and disturbance of tidal flows around the construction works which in turn could impact on invertebrate communities. In the very dynamic estuarine environment such impacts would be likely to be short term and the habitats and ecology would recover following construction.</li> <li>• Whilst the discharge of cooling water in the intertidal area has the potential to cause an adverse effect, the thermal discharge from a tower cooled system would be much less than the existing Oldbury Power Station's discharge.</li> <li>• The construction of the new power station would require the transport of significant quantities of bulk materials such as fill material, aggregates, steel and concrete. Additionally, several abnormally large components or modules would need to be delivered by sea. Delivery of the bulk materials and the abnormal loads could mean that a marine offloading facility may be required. Construction and ultimate decommissioning would entail a number of potentially noisy and visually intrusive activities which, although not necessarily within the designated areas, may be in close proximity. They could therefore</li> </ul>

Plan/Project	Proposal	Potential impacts that could cause 'in-combination' effects
		<p>result in some displacement of wintering bird populations during the construction period.</p> <ul style="list-style-type: none"> <li>• The Severn Estuary supports a diverse range of fish and is considered a major fish migration route. Water abstraction could potentially cause an adverse effect (and even some mortality) due to fish impingement on cooling water screens, or entrainment in the cooling water intake (e.g. lamprey transformers). The thermal discharge could also affect fish populations in the vicinity of the discharge. This could also have effects on the migratory fish species which pass through the Severn Estuary.</li> <li>• The station development area, the need for any new construction roads and modifications to the transmission system could result in the loss of feeding and roosting area for birds on land adjacent to the Severn Estuary SAC, SPA, Ramsar and SSSI areas. Even though these areas lie outside the internationally designated area, this has some potential for affecting bird populations using the estuary.</li> <li>• If not properly managed, damage to intertidal habitats could also affect over wintering bird populations which feed in the shallows and the sandbanks due to loss of food sources.</li> <li>• Potential for in-combination effects will be considered through the HRA for the Gloucester City Plan.</li> </ul>

**Appendix III: HRA Screening of Policy Options and Site Allocations**



Preferred Option Policy/ Allocation	Potential impacts of the Policy/ Allocation	Potential for LSE?
<b>Topic Paper: Historic Environment</b>		
<b>E1- Historic Environment Development Management</b>	The policy seeks to conserve and protect designated and non-designated heritage assets, including archaeology, in a manner appropriate to its significance. Though the policy sets criteria for development, it does not propose development itself and is unlikely to lead to any significant effects.	No
<b>E2- Recording and advancing understanding of heritage assets</b>	The policy states that if a development will result in the damage or loss of a heritage asset information and significance of that asset will have to be understood and fully recorded before development occurs. Mitigation measures are outlined and will be dependent on the nature of the impact. The policy does not propose development itself and is unlikely to lead to any significant effects.	No
<b>E3- Buildings of local importance</b>	The policy seeks to provide protection for heritage assets of local importance identified on the Local List. The policy does not proposed development itself and is unlikely to lead to any significant effects.	No
<b>E4- Shopfronts, Shutters and Signs</b>	The policy identifies a presumption in favour of retaining good quality traditional shopfronts where they make a positive contribution to the character of the area. The policy does not propose development itself and is unlikely to lead to any significant effects.	No
<b>Topic Paper: Health &amp; Wellbeing</b>		
<b>Policy D1- Active Design</b>	The policy seeks design that will support ease of movement for pedestrians and cyclists. The policy can contribute to improved air quality by supporting a modal shift which can indirectly support habitats in the long term. The policy is unlikely to lead to any significant effects.	No
<b>Policy D2-Outdoor Space</b>	The policy seeks to retain and provide outdoor amenity and garden space at a level that reflects the character of the area and scale of development. The policy can contribute to improved green infrastructure networks and garden space has the potential to support biodiversity. The policy is unlikely to lead to any significant effects.	No
<b>Policy D3-Accessibility</b>	The policy seeks and sets the principles for high standards of accessibility and inclusive design. The policy is unlikely to lead to any significant effects.	No
<b>Policy D4-Allotments</b>	The policy seeks to provide allotment space at a standard of 0.2ha per 1000 people. The policy can contribute to increased biodiversity, and support local economies which support a reduction in food miles. The policy is unlikely to lead to any significant effects.	No
<b>Policy D5-Open Space</b>	The policy seeks to provide open space in accordance with the Council's current Open Space Standards, which can contribute to enhancing the Green Infrastructure network indirectly supporting species and habitats. The policy is unlikely to lead to any significant effects.	No

<b>Policy D6- Provision of Playing Pitches in New Development</b>	The policy seeks to provide new playing pitches in accordance with the Playing Pitch Strategy 2015. This could contribute to enhancing the Green Infrastructure network indirectly supporting species and habitats. The policy is unlikely to lead to any significant effects.	No
<b>Policy D7- Protection of Open Space and Playing Fields</b>	The policy seeks to protect existing and proposed open space against any potential loss. The policy is unlikely to lead to any significant effects.	No
<b>Policy F1-Landscape</b>	The policy seeks landscape schemes in development proposals that incorporate planting details and the retention of natural features where possible. This will contribute to reducing the potential effects of development on habitat fragmentation. The policy is unlikely to lead to any significant effects.	No
<b>Policy D8-Community Facilities</b>	The policy seeks to protect existing community facilities and minimise their loss. The policy is unlikely to lead to any significant effects.	No
<b>Policy G8-Pubic Art</b>	This policy seeks the provision of or contribution to public art. The policy is unlikely to lead to any significant effects.	No
<b>Policy D9- Mobile Catering Units</b>	The policy sets the criteria for the use of mobile catering units. The policy does not propose development itself, but seeks to mitigate potential impacts such as disturbance, odour, traffic and waste. The policy is unlikely to lead to any significant effects.	No
<b>Policy D10-Air Quality</b>	The policy seeks to protect air quality and requires air quality assessment where appropriate. The policy can contribute to mitigating potential impacts on air quality as a result of new development, which can indirectly support species and habitats. The policy is unlikely to lead to any significant effects.	No
<b>Policy D11-Noise</b>	The policy seeks to restrict development which is likely to generate unacceptable noise levels close to noise sensitive zones. Mitigation of noise impacts through design, layout and insulation will be expected where appropriate. This can contribute to mitigating potential impacts of development, such as disturbance, which can indirectly support habitats and species. The policy is unlikely to lead to any significant effects.	No
<b>Policy D12-Pollution</b>	The policy seeks to restrict the effects of pollution of water, air or soil, or pollution through noise, dust vibration, light, heat or radiation on the environment and sensitive development. The mitigation provided should indirectly support habitats and species in the long term and is unlikely to lead to any significant effects.	No
<b>Policy D13- Contamination</b>	The policy seeks contaminated land (and waterbodies) reports where appropriate and restricts development which could negatively affect the quality of groundwater. This can indirectly support habitats and species in the long term. The policy is unlikely to lead to any significant effects.	No
<b>Policy D14-Cordon Sanitaire</b>	The policy states that development adversely affected by smell from Netheridge Sewage Works will not be permitted. The policy is unlikely to lead to any significant effects.	No
<b>Policy D15-Suicide Prevention</b>	The policy states that buildings with 4 or more storeys management and/or mitigation measures should be taken to help prevent suicide. The policy is unlikely to lead to any significant effects.	No

<b>Topic Paper: Flooding and Water Management</b>		
<b>F7- Flooding</b>	The policy seeks to restrict development that would be subject to flood risk or increase flood risk elsewhere. The policy identifies appropriate drainage standards and betterment rates for surface water run-off. The policy is unlikely to lead to any significant effects.	No
<b>Topic Paper: Design</b>		
<b>G1-Living Conditions</b>	The policy seeks to protect the amenity of existing and future residents and is unlikely to lead to any significant effects.	No
<b>G2-Car Parking</b>	The policy encourages car parking within residential development to be arranged within a dwellings curtilage. The policy is unlikely to lead to any significant effects.	No
<b>G3- Materials and Finishes</b>	The policy states that developments should be finished at a high quality with locally distinctive materials that positively responds to the character and appearance of Gloucester. The policy is unlikely to lead to any significant effects.	No
<b>G4- Landscape</b>	The policy seeks landscape schemes in development proposals that incorporate planting details and the retention of natural features where possible. This will contribute to reducing the potential effects of development on habitat fragmentation. The policy is unlikely to lead to any significant effects.	No
<b>G5- Bin Storage</b>	The policy sets the criteria for bin storage areas in new development, and is unlikely to lead to any significant effects.	No
<b>G6- Cycle Parking &amp; Storage</b>	The policy expects development to provide suitable cycle storage and cycle parking and is unlikely to lead to any significant effects.	No
<b>G7- Public Realm</b>	The policy seeks successful integration of new development with the surrounding public realm. The policy is unlikely to lead to any significant effects.	No
<b>G8- Public Art</b>	This policy seeks the provision of or contribution to public art. The policy is unlikely to lead to any significant effects.	No
<b>G9- Community Safety</b>	The policy identifies community safety as a fundamental principle of development and is unlikely to lead to any significant effects.	No
<b>G10- Delivering Strategies</b>	The policy seeks to ensure that new development supports the objectives and delivery of the Regeneration Strategy, Lighting Strategy and Public Realm Strategy. The policy is unlikely to lead to any significant effects.	No
<b>G11- Development Alongside Main Routes</b>	The policy seeks to improve the quality of development alongside main routes into the city centre and is unlikely to lead to any significant effects.	No
<b>G12- Design Standards</b>	The policy seeks high quality design standards in new development. It is unlikely to lead to any significant effects.	No
<b>G13- Large-scale 20<sup>th</sup> Century Buildings</b>	The policy encourages the redevelopment of negative large-scale 20 <sup>th</sup> century buildings and landscapes and is unlikely to lead to any significant effects.	No

<b>G14- Transport Arrival Nodes</b>	The policy supports the retention and redevelopment of the city's main transport arrival nodes (bus, train, multistory car parks). Redevelopment of existing transport nodes should not result in negative direct or indirect impacts on European Designated Sites in the area	No
<b>G15- Gulls</b>	The policy seeks viable steps to prevent gulls roosting, nesting and causing damage. The policy is unlikely to lead to any significant effects on European Designated sites.	No
<b>G16- Design &amp; Climate Change</b>	The policy seeks a high quality of design and a high level of environmental awareness which contributes positively to climate change mitigation and adaptation, which can support species and habitats in the long term. The policy is unlikely to lead to any significant effects.	No
<b>G17- Views of the Cathedral</b>	The policy seeks to protect key views of the Cathedral and other historic places of worship identified in the Heights of Buildings SPD. The policy is unlikely to lead to any significant effects.	No
<b>Topic Paper: Climate Change</b>		
<b>F8- Potential of River and Canal</b>	The policy supports development which exploits the renewable energy potential of the river or canal, and resists development which discourages this potential. It is considered that renewable energy development associated with the River Severn has the potential to impact upon the River Severn Ramsar/SAC/SPA through disturbance, changes to water levels and / or water quality.	Yes
<b>F9- Efficiency Measures</b>	The policy seeks extra insulation and efficiency measures in major applications where no form of renewable/low carbon generation is practical. The policy is unlikely to lead to any significant effects.	No
<b>F10 – Mitigation through planting and SUDs</b>	The policy identifies measures which are encouraged in new development to contribute to climate change mitigation, including: trees, green roofs, green spaces and Sustainable Drainage Systems. This will indirectly support species and habitats in the long term and is unlikely to lead to any significant effects.	No
<b>Topic Paper: Natural Environment</b>		
<b>F1- Landscape</b>	The policy seeks to minimize the impact of development on vulnerable and protected landscapes and requires a Landscape Visual Impact Analysis for large development sites or in sensitive landscape areas. The policy is unlikely to lead to any significant effects.	No
<b>F2- Biodiversity</b>	The policy identifies that small scale erosion of biodiversity will be resisted and small scale development applications will be judged as part of a wider system and will need to show how biodiversity interest will be taken account of. This will contribute to reducing the potential effects of habitat fragmentation in new development supporting species and habitats in the long term. The policy is unlikely to lead to any significant effects.	No
<b>F3-Nature Improvement Area (NIA)</b>	The policy does not restrict development within the NIA over and above floodplain requirements, however any biodiversity mitigation/compensation will be expected to contribute to the overall NIA target species and habitats. The policy is unlikely to lead to any significant effects on designated European sites.	No

<b>F4- Trees and Hedgerows</b>	The policy seeks to protect existing natural features in new development. This can contribute to mitigating the potential effects of development on biodiversity, including direct loss of supporting habitats. The policy is unlikely to lead to any significant effects.	No
<b>F5- Green Infrastructure (GI)</b>	The policy supports development that contributes to the connectivity of Green Infrastructure in accordance with the GCC GI Strategy and GCT JCS GI Strategy. Strategic connectivity of open spaces can support species, species movement and habitats in the long term. The policy is unlikely to lead to any significant effects.	No
<b>F6- Geodiversity</b>	The policy seeks to protect geodiversity and is unlikely to lead to any significant effects.	No
<b>Topic Paper: Retail and City/Town Centres</b>		
<b>C1- Maintaining the vitality and viability of city, district and local centres</b>	The policy identifies a hierarchy of town centres in which to deliver the majority of employment, retail and leisure developments, unless sequential testing demonstrates a need outside of these areas. Prioritising retail and employment development in existing local centres can indirectly support European sites by concentrating development in appropriate locations away from designated European sites and in areas which are well connected to modes of sustainable transport. The policy is unlikely to lead to any significant effects.	No
<b>C2- Proposals located within the City Centre boundary, Primary Shopping Area, primary frontages and secondary frontages.</b>	The policy seeks to protect and promote appropriate central area uses. It is unlikely to lead to any significant effects.	No
<b>C3- Visitor Attractions</b>	The policy seeks to direct new visitor attractions to within the city centre boundary where possible, and ensure that visitor attractions are well connected to public and sustainable modes of transport. Prioritising visitor related development in the City Centre can indirectly support European sites by concentrating development in an appropriate location away from designated European sites and in an area which is well connected to modes of sustainable transport. The policy is unlikely to lead to any significant effects.	No
<b>C4- Overnight Accommodation</b>	The policy seeks to direct new overnight accommodation development to within the city centre boundary. Prioritising this development in the City Centre can indirectly support European sites by concentrating development in an appropriate location away from designated European sites and in an area which is well connected to modes of sustainable transport. The policy is unlikely to lead to any significant effects.	No
<b>C5- Major Cultural Venue</b>	The policy supports proposals for major cultural and arts venues in a suitable location within the City Centre boundary. Prioritising this development in the City Centre can indirectly support European sites by concentrating development in an appropriate location away from designated European sites and in an area which is well connected to modes of sustainable transport. The policy is unlikely to lead to any significant effects.	No

<b>C6- Evening and Night-time Uses</b>	The policy seeks to enhance evening and night-time economies within the City Centre. The policy does not propose development itself and is unlikely to lead to any significant negative effects.	No
<b>Topic Paper: Sustainable Transport</b>		
<b>G6- Cycle Parking and Storage</b>	The policy seeks appropriate car parking and cycle provisions in accordance with Gloucestershire Manual for Streets 4 <sup>th</sup> edition 2016. The policy does not propose development itself and is unlikely to lead to any significant effects.	No
<b>H1: Sustainable Transport</b>	The policy supports and encourages improvements to the sustainable transport network including access to open spaces and natural assets such as the River and Canal, which can contribute to improving air quality and thus indirectly support species and habitats in the long term. The policy is unlikely to lead to any significant effects.	No
<b>Topic Paper: Infrastructure</b>		
<b>I1- Infrastructure</b>	The policy seeks to deliver infrastructure improvements alongside new development in accordance with the priorities identified within the Joint Core Strategy, Local Transport Plan and Infrastructure Delivery Plan. The policy does not identify precise locations for infrastructure improvements and does not propose development itself. Unlikely to lead to any significant effects.	No
<b>Topic Paper: Economy and Employment</b>		
<b>B1- Employment &amp; Skills Plans</b>	The policy requires major housing development schemes (of 20 or more units) to submit an Employment and Skills Plan. The policy does not propose development itself and is unlikely to lead to any significant effects.	No
<b>B2- Existing Employment Sites</b>	<p>The policy seeks to safeguard the following existing large employment sites:</p> <ul style="list-style-type: none"> <li>■ Land at Kingsway Framework 5</li> <li>■ Land at Spinnaker Park</li> <li>■ Land at Corinium Avenue</li> <li>■ Land to the North of Walls</li> <li>■ Land at Waterwells Business Park</li> <li>■ Land at Northern Railway Triangle</li> <li>■ Land at Bristol Road</li> </ul> <p>The sites have already gained planning permission and are unlikely to lead to any significant effects.</p>	No

<b>B3- New Employment Sites</b>	<p>The policy allocates new employment sites within the City, which shall be safeguarded for B use class development:</p> <ul style="list-style-type: none"> <li>■ Land to East of Waterwells</li> <li>■ Secunda Way Industrial Estate</li> </ul> <p>The sites are screened in the site allocations section below. Please refer to individual site allocation screening details. The policy also supports development within the Strategic Allocations as outlined in Policy SA1 of the JCS (these sites have already been subject to HRA), as well as within new or existing buildings within Gloucester, and at suitable locations where it would encourage mixed use development, the expansion of existing businesses and small and medium sized enterprises. Existing site expansion / mixed use development is unlikely to lead to any significant effects.</p>	See individual site allocation screening below.
<b>B4: Existing Employment Space</b>	The policy seeks to protect Use Class B1 in the City Centre. The policy does not propose development itself and is unlikely to lead to any significant effects.	No
<b>B5- New Employment Space</b>	The policy sets the criteria that new employment development must meet in order to be considered acceptable. The policy does not propose development itself, however it does seek to mitigate the potential impacts of employment development, including on the natural environment. The policy is unlikely to lead to significant effects.	No
<b>Topic Paper: Housing</b>		
<b>A1- Use of upper floors for residential</b>	The policy supports proposals to change the use of upper floors in the City Centre to residential. The policy is unlikely to lead to significant effects.	No
<b>A2-Regeneration of Neighbourhoods</b>	The policy supports the regeneration of neighbourhoods. The policy does not propose development itself and is unlikely to lead to any significant effects.	No
<b>A3- Sub-division of Plots for Infill</b>	The policy sets the criteria for the sub-division of plots for the construction of additional dwellings to be considered acceptable. The policy is unlikely to lead to any significant effects.	No
<b>A4- Intensification of use of existing dwellings</b>	The policy sets the criteria in which the intensification of use of existing dwellings is considered acceptable. The policy is unlikely to lead to any significant effects.	No
<b>A5- Housing Mix</b>	The policy seeks to deliver an appropriate mix of housing types and tenures in new development. The policy does not propose development itself and is unlikely to lead to any significant effects.	No
<b>A5- Student Housing</b>	The policy seeks to deliver student accommodation within the City Centre. The policy however does not identify a location and at this stage is considered unlikely to lead to any significant effects.	No
<b>A6- Housing Choice for older people and Supported and Special Needs Housing</b>	The policy sets the criteria and expected standards for care accommodation development to be considered acceptable. It is unlikely to lead to any significant effects.	No

<b>A7- Self Build</b>	The policy seeks to support opportunities for self-build in new development schemes. The policy does not propose development itself and is unlikely to lead to any significant effects.	No
<b>A8- Static Caravan Sites</b>	The policy safeguards existing static caravan sites shown on the proposals map. The policy does not propose new development and is unlikely to lead to any significant effects.	No
<b>A9- Extensions to existing dwellings</b>	The policy sets the criteria for extensions of residential properties and the erection of outbuildings to be considered acceptable. The policy does not propose new development and is unlikely to lead to any significant effects.	No
<b>A10- Annexes to existing dwellings</b>	The policy sets the criteria for the development of an annexe to be considered acceptable. The policy is unlikely to lead to any significant effects.	No
<b>Site Allocations</b>		
<p>Site Ref: 1 Site Name: King's Quarter City Plan Ref: WN4 SALA Ref: HA2</p> <ul style="list-style-type: none"> <li>■ Mixed use/ town centre uses</li> <li>■ 50 residential dwellings</li> <li>■ 5,000 m<sup>2</sup> commercial</li> <li>■ 2.2ha unconstrained site area</li> </ul>	<p>The site is 6.6km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 2 Site Name: Quayside &amp; Barbican City Plan: WN2 SALA Ref: HA17</p> <p>This site is part of the larger Greater Blackfriars regeneration scheme.</p> <ul style="list-style-type: none"> <li>■ Residential</li> <li>■ 400 residential dwellings</li> <li>■ 4,000 m<sup>2</sup> commercial</li> </ul>	<p>The site is just over 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. Adjacent to the site on the Western side is the River Severn. There is the potential for negative impacts on the water quality of the River Severn and therefore there is the potential for indirect effects on the River Severn Ramsar/SAC/SPA. The A4301 is adjacent to the West of the site, and development could have a potential increase in traffic on A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes



<p>Site Ref: 3 Site Name: Gloucester Prison City Plan: WN2 SALA Ref: HA17</p> <p>This site is part of the larger Greater Blackfriars regeneration scheme.</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 400 residential dwellings</li> <li>▪ 4,000 m<sup>2</sup> commercial</li> </ul>	<p>The site is just over 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. Adjacent to the site on the Western side is the River Severn. There is the potential for negative impacts on the water quality of the River Severn and therefore there is the potential for indirect effects on the River Severn Ramsar/SAC/SPA. The A4301 is adjacent to the West and South of the site, and development could have a potential increase in traffic on A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 4 Site Name: Ladybellgate Street Car Park City Plan: WN2 SALA Ref: HA17</p> <p>This site is part of the larger Greater Blackfriars regeneration scheme.</p> <ul style="list-style-type: none"> <li>▪ Mixed-use</li> <li>▪ 400 residential dwellings</li> <li>▪ 4,000 m<sup>2</sup> commercial</li> </ul>	<p>The site is 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. The A4301 is adjacent to the South of the site, and development could have a potential increase in traffic on A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 5 Site Name: Longsmith Street Car Park City Plan: WN2 SALA Ref: HA17</p> <p>This site is part of the larger Greater Blackfriars regeneration scheme.</p> <ul style="list-style-type: none"> <li>▪ Mixed-use</li> <li>▪ 400 residential dwellings</li> </ul>	<p>The site is just under 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No

<ul style="list-style-type: none"> <li>▪ 4,000 m<sup>2</sup> commercial</li> </ul>		
<p>Site Ref: 6 Site Name: The Fleece City Plan Ref: WN2 SALA Ref: HA17</p> <p>This site is part of the larger Greater Blackfriars regeneration scheme.</p> <ul style="list-style-type: none"> <li>▪ Mixed-use</li> <li>▪ 400 residential dwellings</li> <li>▪ 4,000 m<sup>2</sup> commercial</li> </ul>	<p>The site is just under 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 7 Site Name: Southgate Moorings City Plan Ref: WN6 SALA Ref: FS02</p> <p>This site is part of the larger Greater Blackfriars regeneration scheme.</p> <ul style="list-style-type: none"> <li>▪ Mixed-use</li> <li>▪ 400 residential dwellings</li> <li>▪ 4,000 m<sup>2</sup> commercial</li> </ul>	<p>The site is just under 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. The site is located next to Gloucester Docks and could have a potential impact on the water quality of the docks, however this is unlikely to indirectly impact the River Severn Ramsar/SAC/SPA. The A4301 is adjacent to the East of the site, and development could have a potential increase in traffic on A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 8 Site Name: Victoria Docks City Plan Ref: WN6 SALA Ref: SUB35</p> <p>This site is part of the larger Greater Blackfriars regeneration scheme.</p>	<p>The site is just under 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. The site is located next to Gloucester Docks and could have a potential impact on the water quality of the docks, however this is unlikely to indirectly impact the River Severn Ramsar/SAC/SPA.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No

<ul style="list-style-type: none"> <li>▪ Residential with commercial at ground floor</li> <li>▪ 400 residential dwellings</li> <li>▪ 4,000 m<sup>2</sup> commercial</li> </ul>		
<p>Site Ref: 9 Site Name: 104 Northgate Street City Plan Ref: WN3 SALA Ref: FS10</p> <ul style="list-style-type: none"> <li>▪ Residential with commercial at ground floor</li> <li>▪ 20 residential dwellings</li> <li>▪ 50 m<sup>2</sup> commercial</li> <li>▪ 0.06ha unconstrained site area</li> </ul>	<p>The site is just under 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a significant direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 10 Site Name: Land at 'The Wheatridge' City Plan Ref: A1 SALA Ref: SUB09</p> <ul style="list-style-type: none"> <li>▪ Residential with Open Space</li> <li>▪ 50 residential dwellings</li> <li>▪ 2.28ha unconstrained site area</li> </ul>	<p>The site is located just under 3km away from the Cotswolds Beechwoods SAC which is vulnerable to recreational and leisure activities, however it is located outside of the Plan area, and given the small scale development proposed, significant direct impacts are unlikely. The River Twyver runs along the North East of the site connecting to the River Severn. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site. The Sud Brook runs to the South West of the site connecting to the Gloucester Docks. There is the potential for negative impacts on the water quality of Sud Brook however this is unlikely to indirectly impact the River Severn Ramsar/SAC/SPA.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 11 Site Name: Norville Site, Tarrington Road City Plan Ref: BT1 SALA Ref: HA29</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 60 residential dwellings</li> <li>▪ 0.84ha unconstrained site area</li> </ul>	<p>The site is located 5.4 kilometers from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact. Suds Brook runs through the site which connects to Gloucester Docks. There is the potential for negative impacts on the water quality of Sud Brook however this is unlikely to indirectly affect the River Severn Ramsar/SAC/SPA.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No

<p>Site Ref: 12 Site Name: Helipebs, Sisson Road City Plan Ref: E2 SALA Ref: SUB04</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 53 residential dwellings</li> <li>▪ 1.6h unconstrained site area</li> </ul>	<p>The site is located just over 5km away from the Cotswolds Beechwoods SAC site and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 13 Site Name: Former Civil Service Club City Plan Ref: KW1 SALA Ref: SUB52</p> <ul style="list-style-type: none"> <li>▪ Residential with open space</li> <li>▪ 60 residential dwellings</li> <li>▪ 3.6ha unconstrained site area</li> </ul>	<p>The site is located over 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. The A38 runs to the North of the site and the A430 runs adjacent to the West. Development could result in increased traffic along A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 14 Site Name: 67-69 London Road City Plan Ref: KW3</p> <ul style="list-style-type: none"> <li>▪ Employment/Residential</li> <li>▪ 30 residential dwellings</li> <li>▪ 0.35ha unconstrained site area</li> </ul>	<p>The site is located 6.5km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref(s): 15 &amp; 16 Site Name: (Railway Corridor) Wessex House and Former Telecom House</p> <ul style="list-style-type: none"> <li>▪ Parking spaces / infrastructure</li> </ul>	<p>The sites are located 6.4km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No

<p>Site Ref: 17  Site Name: Great Western Road Sidings  City Plan Ref: KW7  SALA Ref: HA20</p> <p>This site is part of the Railway Corridor regeneration scheme</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 100 residential dwellings</li> <li>▪ 4.34ha unconstrained site area</li> </ul>	<p>The site is located just over 6km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 18  Site Name: Former Bishops College  City Plan Ref: L1  SALA Ref: SUB50</p> <ul style="list-style-type: none"> <li>▪ Residential with retained/reconfigured playing pitches</li> <li>▪ 108 residential dwellings</li> <li>▪ 9.18ha unconstrained site area</li> </ul>	<p>The site is located 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. Wotton Brook runs to the North and East of the site connecting to the River Severn There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site. The A38 runs adjacent South of the site and the development could result in increased traffic along A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 19  Site Name: Land of Leven Close  City Plan Ref: L2  SALA Ref: HA26</p> <ul style="list-style-type: none"> <li>▪ Residential with open space</li> <li>▪ 20 residential dwellings</li> <li>▪ 1.4ha unconstrained site area</li> </ul>	<p>The site is located just over 6m away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No

<p>Site Ref: 20  Site Name: Land East of Waterwells  City Plan Ref: QF1  SALA Ref: EA03</p>	<p>The site is located 5.2km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. Dimore Brook runs through the middle of the site, and flows into the River Severn further downstream. There is the potential for negative impacts on the water quality of the River Severn and therefore there is the potential for indirect effects on the River Severn Ramsar/SAC/SPA.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	<p>Yes</p>
<p>Site Ref: 21  Site Name: Land at Clearwater Drive  City Plan Ref: QSV1  SALA Ref: HA24/SUB18</p> <ul style="list-style-type: none"> <li>▪ Residential with Open Space</li> <li>▪ 30 residential dwellings</li> <li>▪ 2.09ha unconstrained site area</li> </ul>	<p>The site is 5km from Walmore Common SAC and is therefore unlikely to have a direct impact alone. Along the Northern boundary of the site is the Gloucester and Sharpness canal which connects to the River Severn Ramsar/SPA/SAC. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	<p>Yes</p>
<p>Site Ref: 22  Site Name: Land South of Grange Road  City Plan Ref: T1  SALA Ref: SUB44</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 198 residential dwellings (appn up to 250)</li> <li>▪ 16.55ha unconstrained site area</li> </ul>	<p>The site is located 4.7km from Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. Along the Southern boundary of the site runs Daniels Brook and another Brook runs North of the site, both connect to the Gloucester and Sharpness canal. There is the potential for negative impacts on the water quality of the Brooks however this is unlikely to indirectly affect the River Severn Ramsar/SPA/SAC.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	<p>No</p>
<p>Site Ref: 23  Site Name: Spinnaker Park  City Plan Ref: WS9  SALA Ref: NLUD01</p> <ul style="list-style-type: none"> <li>▪ Employment</li> </ul>	<p>The site is located 7.4km away from the Walmore Common SPA and is therefore unlikely to have a direct impact alone. The site is bordered by a drainage system on its Western boundary which flows into the River Severn. There is the potential for development to have an impact on the drainage system which could affect the water quality of the River Severn and therefore there is the potential for an indirect impact on the River Severn Ramsar/SPA/SAC. The A430 runs to the East of the site and the development could result in increased traffic along A-roads in the area. The A48</p>	<p>Yes</p>

	<p>runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	
<p>Site Ref: 24 Site Name: South West Bypass Site City Plan Ref: WS11 SALA Ref: EA04</p> <ul style="list-style-type: none"> <li>■ Employment</li> <li>■ 0.7ha unconstrained site area</li> </ul>	<p>The site is located just under 7km from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 25 Site Name: Land at Rea Lane, Hempsted City Plan Ref: WS14 SALA Ref: SUB54</p> <ul style="list-style-type: none"> <li>■ Residential</li> <li>■ 1.5ha unconstrained site area</li> </ul>	<p>The site is located 6.5km from Walmore Common SPA and is therefore is therefore unlikely to have a direct impact alone. 500 metres to the West of the site is the River Severn. There is the potential for negative impacts on water quality, which could have indirect impacts on the River Severn Ramsar/SPA/SAC.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 26 Site Name: Land adjacent to Eastgate Shopping Centre SALA Ref: HA16</p> <ul style="list-style-type: none"> <li>■ Retail/town centre uses</li> <li>■ Up to 5000 sqm gross retail (comparison goods focused)</li> <li>■ 0.32ha unconstrained site area</li> </ul>	<p>The site is just under 7km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 27 Site Name: Newark Farm SALA Ref: SUB57</p> <ul style="list-style-type: none"> <li>■ Residential</li> <li>■ 48 residential dwellings</li> </ul>	<p>The site is located 7km away from Walmore Common SPA and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No

<p>Site Ref: 28 Site Name: Land adjacent to St Oswalds Retail Park SALA Ref: SUB28</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 65 residential dwellings</li> <li>▪ 2.5ha unconstrained site area</li> </ul>	<p>The site is 7.8 kilometers from Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. Less than 200 meters to the West of the site is the River Severn. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site. The A417 is East of the site and the development could result in increased traffic along A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 29 Site Name: Allstones, Myers Road SALA Ref: SUB43</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 250 residential dwellings</li> </ul>	<p>The is 5.5km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. The Wotton Brook runs along the Eastern boundary of the site and flows into the River Severn. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 30 Site Name: Barnwood Manor</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 57 residential dwellings</li> <li>▪ 1.95ha unconstrained site area</li> </ul>	<p>The site is 4km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. Flowing through the middle of the site is Wotton Brook which connects to the River Severn. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 31 Site Name: Redcliffe College, Horton Road</p> <ul style="list-style-type: none"> <li>▪ Residential/Leisure/Employment</li> <li>▪ 38 residential dwellings</li> <li>▪ 1.3ha unconstrained site area</li> </ul>	<p>The site is located just over 6 kilometers from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 32 Site Name: Holly House, Barnwood</p>	<p>The site is located 4km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. The River Twyver runs South of the site and connects to the River</p>	Yes



<ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 34 residential dwellings</li> <li>▪ 1.16ha unconstrained site area</li> </ul>	<p>Severn. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	
<p>Site Ref: 33 Site Name: Fieldview House, Barnwood/Abby</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 12 residential dwellings</li> <li>▪ 0.36ha unconstrained site area</li> </ul>	<p>This site is located just under 4km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. The River Twyver runs South West of the site and connects to the River Severn. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 34 Site Name: Land off Horton Road (NHS)</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 21 residential dwellings</li> <li>▪ 0.72ha unconstrained site area</li> </ul>	<p>This site is located just under 6km away from the Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 35 Site Name: Hallmark Hotel, Matson</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 13 residential dwellings</li> <li>▪ 0.43ha unconstrained site area</li> </ul>	<p>Site is located just over 3km from the Cotswolds Beechwoods SAC. Due to the small size of the development it is unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No
<p>Site Ref: 37 Site Name: Land adjacent to St Aldates</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 16 residential dwellings</li> </ul>	<p>Site is located 4.7 kilometers away from the Cotswolds Beechwoods SAC, and is therefore unlikely to have a direct impact alone. There are no potential environmental pathways for indirect negative impacts, and development is unlikely to have a significant impact on any of the European designated sites in the area.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	No

<ul style="list-style-type: none"> <li>▪ 0.5ha unconstrained site area</li> </ul>		
<p>Site Ref: 39 Site Name: Land East of Hempsted Lane City Plan Ref: WS12 Sala Ref: SUB06</p> <ul style="list-style-type: none"> <li>▪ Residential</li> <li>▪ 50 residential dwellings</li> <li>▪ 3.38ha unconstrained site area</li> </ul>	<p>The site is located 7km from Walmore Common SPA and just over 7km from Cotswolds Beechwoods SAC and is therefore unlikely to have a direct impact alone on these sites. The A430 is East of the site and the development could result in increased traffic along A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 40 Site Name: MOD Site, Hempsted City Plan Ref: WS10 SALA Ref: HA11</p> <ul style="list-style-type: none"> <li>▪ Residential Consent</li> <li>▪ 85 residential dwellings</li> </ul>	<p>The site is 7.2km from Walmore Common SPA and is therefore unlikely to have a direct impact alone. The site is bordered by a drainage system on its Northern boundary which flows into the River Severn. There is the potential for development to have an impact on the drainage system which could affect the water quality of the River Severn and therefore there is the potential for an indirect impact on the River Severn Ramsar/SPA/SAC. The A430 runs to the East of the site and the development could result in increased traffic along A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 41 Site Name: Former Contract Chemicals et al</p> <ul style="list-style-type: none"> <li>▪ Residential-led consent</li> <li>▪ 340 residential dwellings</li> <li>▪ 9.19ha unconstrained site area</li> </ul>	<p>The site is located 6.6km away from the Cotswolds Beechwoods SAC To the West of the site is the Gloucester and Sharpness canal which connects to the River Severn Ramsar/SPA/SAC. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site.</p> <p>The potential in-combination effects are considered in Section 4 of the HRA Screening Report.</p>	Yes
<p>Site Ref: 44 Site Name: Land adjacent to Wall's Factory City Plan Ref: B1 Sala Ref: EA10</p> <ul style="list-style-type: none"> <li>▪ Employment</li> </ul>	<p>The site is located 5km away from the Cotswolds Beechwoods SAC and so is therefore unlikely to have a direct impact alone. Adjacent to the sit flows Horsbere Brook connecting to the River Severn. There is the potential for indirect impacts on water quality which would affect the River Severn Ramsar/SAC/SPA site. The A40 also runs adjacent to the site and the development could result in increased traffic along A-roads in the area. The A48 runs adjacent to Walmore Common SPA, therefore there is a potential indirect impact on the SPA through an increase in traffic and atmospheric pollution.</p>	Yes

<ul style="list-style-type: none"> <li>▪ 29,917 sqm net employment floorspace (B1 11,971 sqm, B2 6,671 sqm, B8 7,573 sqm, 1,700 car showroom)</li> <li>▪ 6.4ha unconstrained site area</li> </ul>		
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**Appendix IV: European Sites Screening**

**Screening Summary Key**

<b>Likely Significant Effect</b>	<b>Yes</b>	Further Appropriate Assessment required
<b>No Likely Significant Effect</b>	<b>No</b>	No further Appropriate Assessment required as no pathways identified
<b>Significant Effect Uncertain</b>	<b>?</b>	Precautionary approach taken and further Appropriate Assessment required

<b>Cotswold Beechwoods SAC</b>								
<b>Potential impacts of the Plan</b>	<b>Environmental Pathways</b>	<b>Is the site sensitive/ vulnerable to these impacts?</b>	<b>Risk?</b>	<b>Potential avoidance/ mitigation</b>	<b>LSE alone?</b>	<b>Potential impacts of other plans and programmes</b>	<b>Potential avoidance/ mitigation</b>	<b>LSE in-comb?</b>
<p>Reduced air quality through increased traffic and emissions.</p> <p>Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44</p> <p>Policies: B3</p>	<p>Proposed development is not considered likely to result in a significant increase in traffic along any major roads that are within 200m of the SAC. It is therefore determined that there are no pathways for short range atmospheric pollution.</p> <p>Development proposed in the Plan area could contribute to long-range diffuse atmospheric pollution. However, the contribution of the plan is unlikely to be of significance.</p>	<p>The evidence does not indicate that there is an issue.</p> <p>APIS show that critical loads of Nitrogen are being exceeded at this site for the Beech Forests, however critical loads of nitrogen are not being exceeded for the Calcareous Grassland.</p> <p>Critical loads for acid deposition are not being exceeded at the site for either Beech Forest or Calcareous Grassland.</p>	<b>Yes</b>	<p><b>Mitigation provided through draft Gloucester City Plan policies:</b></p> <p>Design: CPXX- Cycle Parking &amp; Storage- This policy encourages uses of cycling (sustainable transport) by ensuring developments have space for cycle storage.</p> <p>Design: CPXX- Transport Arrival Nodes- This policy encourages the regeneration key public transport nodes which should help reduce traffic by encouraging use of</p>	<b>No</b>	<p>There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>See previous avoidance/ mitigation column for outlined draft policy mitigation.</p>	<b>No</b>

				<p>sustainable public transport methods.</p> <p>Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to protect and enhance Green Infrastructure assets.</p> <p>Health &amp; Wellbeing: Policy CPXX- Active Design- This policy ensures walking and cycling are encouraged through design.</p> <p>Health &amp; Wellbeing: Policy CPXX-Air Quality- The policy ensures developments do not contribute to increased air pollution and design should reduce exposure to pollutants.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution that will have a negative effect on the environment.</p> <p>Sustainable Transport: 1- The policy encourages new development to provide cycle parking and storage.</p> <p>Sustainable Transport:</p>				
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				<p>2- The policy encourages improvement to the sustainable transport network.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy C6 - requires new development to contribute to a healthier urban environment through maintaining or improving air quality.</p> <p>Policy S3 - requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should be designed to prioritise movement by sustainable transport modes and encourage.</p>				
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			Yes	<p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy C7 – requires all proposals to include provision of transportation measures including opportunities for installation or retrospective installation of new transport technologies such as electric car plug-in and ultra-low emission vehicle fuelling.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied by a transport, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of atmospheric pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or through financial contributions.</p>	No			No
Increased disturbance through recreational	The site lies approx. 2.4 km outside of the Plan area and there are no potential pathways for noise and light	Yes, outdoor sports, leisure and recreational activities are an issue at the site.	Yes	<b>Mitigation provided through draft Gloucester City Plan policies:</b>	No	There is the potential for the policies to act in combination with a	See previous avoidance/ mitigation column	No



<p>activity, noise and light pollution. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: B3</p>	<p>pollution. It is unlikely that there will be a significant increase in recreational activity.</p>			<p>Health &amp; Wellbeing: Policy CPXX-Outdoor Space- The policy aims to ensure amenity and garden space is retained, ensuring people will not need to go to the SAC for recreational use if there are spaces for recreation in the city boundary.</p> <p>Health &amp; Wellbeing: Policy CPXX-Open Space- The policy ensures large employment and residential developments will need to provide an appropriate amount of open public space.</p> <p>Health &amp; Wellbeing: Policy CPXX- Provision of Playing Pitches in New Development- The policy will ensure that development residents sporting needs are met, ensuring recreational space will be provided.</p> <p>Health &amp; Wellbeing: Policy CPXX- Protection of Open Space and Playing Fields- The policy ensure that the loss of open space and playing fields is prevented.</p> <p>Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to</p>		<p>number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>for outlined draft policy mitigation.</p>	
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				<p>protect and enhance Green Infrastructure assets.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution (including light pollution) that will have a negative effect on the environment.</p> <p>Health &amp; Wellbeing: Policy CPXX-Noise- The policy states that unacceptable noise levels next to noise sensitive zones will not be permitted.</p> <p>Natural Environment: CPXX- Biodiversity- The policy will protect biodiversity from possible harm caused by development.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy C6 - Supporting Healthy Lifestyles and Wellbeing. The Policy requires new development</p>				
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				<p>to contribute to a healthier urban environment through minimizing disturbance associated with light, noise and odour. It also requires that new development delivers public open space that is safe, encourages active use and maximizes opportunities for informal recreation.</p> <p>Policy S3 - requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should provide and/or link into Green Space.</p> <p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied</p>				
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			No	<p>by a noise, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of noise pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or through financial contributions.</p>	No			No
<p>Changes to water levels and quality though increased levels of abstraction, surface water runoff and sewerage discharge. Draft Gloucester City Plan Site Allocations: 2, 3, 10, 18, 20, 21, 23 25, 28, 29, 30, 32, 33, 40, 41, 44 Policies: B3</p>	<p>The site is outside the plan area and proposed development is not likely to result in any increased nutrient input to the site as a result of consented discharge. There are no pathways for impacts on surface water runoff or water quality at the site.</p> <p>The site is situated within the Seven Water Resource Zone however increased levels of abstraction are unlikely to affect the integrity of the site.</p>	<p>The evidence does not indicate that there is an issue.</p>	No	<p>No pathways for LSE</p>	No	<p>No pathways for LSE</p>	<p>No pathways for LSE</p>	No

Rodborough Common SAC								
Potential impacts of the Plan	Environmental Pathways	Is the site sensitive/vulnerable to these impacts?	Risk?	Potential avoidance/mitigation	LSE alone?	Potential impacts of other plans and programmes	Potential avoidance/mitigation	LSE in-comb?
<p>Reduced air quality through increased traffic and emissions. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: B3</p>	<p>Proposed development is not considered likely to result in a significant increase in traffic along any major roads that are within 200m of the SAC. It is therefore determined that there are no pathways for short range atmospheric pollution.</p> <p>Development proposed in the Plan area could contribute to long-range diffuse atmospheric pollution. However, the contribution of the plan is unlikely to be of significance.</p>	<p>Yes, the site is vulnerable to air-borne pollutants</p> <p>Critical loads of Nitrogen are not being exceeded at this site.</p> <p>Critical loads for acid deposition are not being exceeded at the site.</p>	<p><b>Yes</b></p>	<p><b>Mitigation provided through draft Gloucester City Plan policies:</b></p> <p>Design: CPXX- Cycle Parking &amp; Storage- This policy encourages uses of cycling (sustainable transport) by ensuring development s have space for cycle storage.</p> <p>Design: CPXX- Transport Arrival Nodes- This policy encourages the regeneration key public transport nodes which should help reduce traffic by encouraging use of sustainable public transport methods.</p> <p>Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to protect and enhance Green Infrastructure assets.</p> <p>Health &amp; Wellbeing: Policy CPXX- Active Design- This policy ensures walking and cycling are encouraged through design.</p>	<p><b>No</b></p>	<p>There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>See previous avoidance/mitigation column for outlined draft policy mitigation.</p>	<p><b>No</b></p>

				<p>Health &amp; Wellbeing: Policy CPXX-Air Quality- The policy ensures developments do not contribute to increased air pollution and design should reduce exposure to pollutants.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution that will have a negative effect on the environment.</p> <p>Sustainable Transport: 1- The policy encourages new development to provide cycle parking and storage.</p> <p>Sustainable Transport: 2- The policy encourages improvement to the sustainable transport network.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p>			
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				<p>Policy C6 - requires new development to contribute to a healthier urban environment through maintaining or improving air quality.</p> <p>Policy S3 - requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should be designed to prioritise movement by sustainable transport modes and encourage.</p> <p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy C7 – requires all proposals to include provision of transportation measures including opportunities for installation or retrospective installation of new transport technologies such as electric car plug-in and</p>				
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			Yes	<p>ultra-low emission vehicle fuelling.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied by a transport, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of atmospheric pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or through financial contributions.</p>	No			No
<p>Increased disturbance through recreational activity, noise and light pollution. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: B3</p>	<p>The site lies approx. 8.3 km outside of the Plan area so there are no pathways for noise and light pollution, and it is unlikely that there will be a significant increase in recreational activity.</p>	<p>Yes, outdoor sports, leisure and recreational activities are an issue at the site.</p>	Yes	<p><b>Mitigation provided through draft Gloucester City Plan policies:</b></p> <p>Health &amp; Wellbeing: Policy CPXX-Outdoor Space- The policy aims to ensure amenity and garden space is retained, ensuring people will not need to go to the SAC for recreational use if there are spaces for recreation in the city boundary.</p> <p>Health &amp; Wellbeing: Policy CPXX-Open Space- The policy ensures large employment and residential</p>	No	<p>There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>See previous avoidance/ mitigation column for outlined draft policy mitigation.</p>	No



				<p>developments will need to provide an appropriate amount of open public space.</p> <p>Health &amp; Wellbeing: Policy CPXX- Provision of Playing Pitches in New Development- The policy will ensure that development residents sporting needs are met, ensuring recreational space will be provided.</p> <p>Health &amp; Wellbeing: Policy CPXX- Protection of Open Space and Playing Fields- The policy ensure that the loss of open space and playing fields is prevented.</p> <p>Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to protect and enhance Green Infrastructure assets.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution (including</p>				
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				<p>light pollution) that will have a negative effect on the environment.</p> <p>Health &amp; Wellbeing: Policy CPXX-Noise- The policy states that unacceptable noise levels next to noise sensitive zones will not be permitted.</p> <p>Natural Environment: CPXX- Biodiversity- The policy will protect biodiversity from possible harm caused by development.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy C6 - Supporting Healthy Lifestyles and Wellbeing. The Policy requires new development to contribute to a healthier urban environment through minimizing disturbance associated with light, noise and odour. It also requires that new development delivers public open space that is safe, encourages active use and maximizes opportunities for informal recreation.</p> <p>Policy S3 - requires all development to achieve high standards / levels</p>				
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				<p>under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should provide and/or link into Green Space.</p> <p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied by a noise, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of noise pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or through financial contributions.</p>				
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<p>Changes to water levels and quality though increased levels of abstraction, surface water runoff and sewerage discharge. Draft Gloucester City Plan Site Allocations: 2, 3, 10, 18, 20, 21, 23 25, 28, 29, 30, 32, 33, 40, 41, 44 Policies: B3</p>	<p>The site is outside the plan area and proposed development is not likely to result in any increased nutrient input to the site as a result of consented discharge. There are no pathways for impacts on surface water runoff or water quality at the site.</p> <p>Water is transferred between resource zones by Thames Water and Severn Trent Water. although increased levels of abstraction are unlikely to affect the integrity of the site.</p>	<p>The evidence does not indicate that there is an issue.</p>	<p><b>No</b></p>	<p>No pathways for LSE</p>	<p><b>No</b></p>	<p>No pathways for LSE</p>	<p>No pathways for LSE</p>	<p><b>No</b></p>
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Severn Estuary SAC, Ramsar and SPA								
Potential impacts of the Plan	Environmental Pathways	Is the site sensitive/vulnerable to these impacts?	Risk?	Potential avoidance/mitigation	LSE alone?	Potential impacts of other plans and programmes	Potential avoidance/mitigation	LSE in-comb?
Reduced air quality through increased traffic and emissions. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: F8 & B3	Proposed development is not considered likely to result in a significant increase in traffic along any major roads that are within 200m of the SAC, Ramsar or SPA. It is therefore determined that there are no pathways for short range atmospheric pollution.  Development proposed in the Plan area could contribute to long-range diffuse atmospheric pollution. However, the contribution of the plan is unlikely to be of significance.	The evidence does not indicate that there is an issue.  Critical loads of Nitrogen are not being exceeded at this site.  Critical loads for acid deposition are not being exceeded at the site.	No	No pathways for LSE	No	No pathways for LSE	No pathways for LSE	No
Increased disturbance through recreational activity, noise and light pollution. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: F8 & B3	The site lies approx. 8.1 km outside of the Plan area so there are no pathways for noise and light pollution, and it is unlikely that there will be a significant increase in recreational activity.	Yes, outdoor sports, leisure and recreational activities are an issue at the site.	Yes	<b>Mitigation provided through draft Gloucester City Plan policies:</b>  Health & Wellbeing: Policy CPXX-Outdoor Space- The policy aims to ensure amenity and garden space is retained, ensuring people will not need to go to the SAC for recreational use if there are spaces for recreation in the city boundary.  Health & Wellbeing:	No	There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.	See previous avoidance/mitigation column for outlined draft policy mitigation.	No

				<p>Policy CPXX-Open Space- The policy ensures large employment and residential developments will need to provide an appropriate amount of open public space.</p> <p>Health &amp; Wellbeing: Policy CPXX- Provision of Playing Pitches in New Development- The policy will ensure that development residents sporting needs are met, ensuring recreational space will be provided.</p> <p>Health &amp; Wellbeing: Policy CPXX- Protection of Open Space and Playing Fields- The policy ensure that the loss of open space and playing fields is prevented.</p> <p>Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to protect and enhance Green Infrastructure assets.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p>Health &amp; Wellbeing:</p>				
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				<p>Policy CPXX-Pollution- The policy prevents development which will cause pollution (including light pollution) that will have a negative effect on the environment.</p> <p>Health &amp; Wellbeing: Policy CPXX-Noise- The policy states that unacceptable noise levels next to noise sensitive zones will not be permitted.</p> <p>Natural Environment: CPXX- Biodiversity- The policy will protect biodiversity from possible harm caused by development.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy C6 - Supporting Healthy Lifestyles and Wellbeing. The Policy requires new development to contribute to a healthier urban environment through minimizing disturbance associated with light, noise and odour. It also requires that new development delivers public open space that is safe, encourages active use and maximizes opportunities for informal recreation.</p>				
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				<p>Policy S3 - requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should provide and/or link into Green Space.</p> <p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied by a noise, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of noise pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or through financial contributions.</p>				
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<p>Changes to water levels and quality though increased levels of abstraction, surface water runoff and sewerage discharge. Draft Gloucester City Plan Site Allocations: 2, 3, 10, 18, 20, 21, 23 25, 28, 29, 30, 32, 33, 40, 41, 44 Policies: F8 &amp; B3</p>	<p>The site is in outside the Plan area. There are many water courses on the allocation sites and within the Gloucester area that eventually flow into the River Severn and therefore there are pathways for potential LSE on water quality. Increased abstraction has the potential to affect water levels at the site - water is transferred between resource zones by Welsh Water and Severn Trent Water.</p>	<p>The site is vulnerable to changes in hydraulic conditions.</p>	<p><b>Yes</b></p>	<p><b>Mitigation provided through draft Gloucester City Plan policies:</b></p> <p>Flooding and Water Management: CPXX- The policy aims to prevent flooding from occurring and effective and sustainable management of water resources.</p> <p>Design: CPXX- Design &amp; Climate Change- The policy states that development should have a high level of environmental awareness and contributes to climate change mitigation and prevention.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution (including water pollution) that will have a negative effect on the environment.</p> <p>Health &amp; Wellbeing:</p>	<p><b>No</b></p>	<p>There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>See previous avoidance/ mitigation column for outlined draft policy mitigation.</p>	<p><b>No</b></p>
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				<p>Policy CPXX- Contamination- This policy is aimed to prevent contamination of groundwater.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy S3 requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for water use and efficiency and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so. This should reduce water abstraction and could reduce pollution.</p> <p>Policy S10 requires development to protect and enhance Green Infrastructure assets which could help intercept pollutants and improve water quality.</p>				
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Wye Valley and Forest of Dean Bat Sites SAC								
Potential impacts of the Plan	Environmental Pathways	Is the site sensitive/vulnerable to these impacts?	Risk?	Potential avoidance/mitigation	LSE alone?	Potential impacts of other plans and programmes	Potential avoidance/mitigation	LSE in-comb?
Reduced air quality through increased traffic and emissions. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: B3	Proposed development is not considered likely to result in a significant increase in traffic along any major roads that are within 200m of the SAC. It is therefore determined that there are no pathways for short range atmospheric pollution.  Development proposed in the Plan area could contribute to long-range diffuse atmospheric pollution. However, the contribution of the plan is unlikely to be of significance.	The evidence does not indicate that there is an issue.  APIS shows that critical loads of Nitrogen are being exceeded for Broadleaved Deciduous woodlands habitat which is home to both the Greater and Lesser Horseshoe Bat  Critical loads for acid deposition are not being exceeded at the site.	Yes	<b>Mitigation provided through draft Gloucester City Plan policies:</b>  Design: CPXX- Cycle Parking & Storage- This policy encourages uses of cycling (sustainable transport) by ensuring developments have space for cycle storage.  Design: CPXX- Transport Arrival Nodes- This policy encourages the regeneration key public transport nodes which should help reduce traffic by encouraging use of sustainable public transport methods.  Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to protect and enhance Green Infrastructure assets.  Health & Wellbeing: Policy CPXX- Active Design- This policy ensures walking and cycling are encouraged through design.	No	There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.	See previous avoidance/mitigation column for outlined draft policy mitigation.	No

				<p>Health &amp; Wellbeing: Policy CPXX-Air Quality- The policy ensures developments do not contribute to increased air pollution and design should reduce exposure to pollutants.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution that will have a negative effect on the environment.</p> <p>Sustainable Transport: 1- The policy encourages new development to provide cycle parking and storage.</p> <p>Sustainable Transport: 2- The policy encourages improvement to the sustainable transport network.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p>			
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				<p>Policy C6 - requires new development to contribute to a healthier urban environment through maintaining or improving air quality.</p> <p>Policy S3 - requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should be designed to prioritise movement by sustainable transport modes and encourage.</p> <p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy C7 – requires all proposals to include provision of transportation measures including opportunities for installation or retrospective installation of new transport technologies such as electric car plug-in and</p>				
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				<p>ultra-low emission vehicle fuelling.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied by a transport, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of atmospheric pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or through financial contributions.</p>				
<p>Increased disturbance through recreational activity, noise and light pollution. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: B3</p>	<p>The site lies approx. 20 km outside of the Plan area so there are no pathways for noise and light pollution, and it is unlikely that there will be a significant increase in recreational activity.</p>	<p>Yes, outdoor sports, leisure and recreational activities are an issue at the site.</p>	<p><b>Yes</b></p>	<p><b>Mitigation provided through draft Gloucester City Plan policies:</b></p> <p>Health &amp; Wellbeing: Policy CPXX-Outdoor Space- The policy aims to ensure amenity and garden space is retained, ensuring people will not need to go to the SAC for recreational use if there are spaces for recreation in the city boundary.</p> <p>Health &amp; Wellbeing: Policy CPXX-Open Space- The policy ensures large employment and residential</p>	<p><b>No</b></p>	<p>There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>See previous avoidance/ mitigation column for outlined draft policy mitigation.</p>	<p><b>No</b></p>

				<p>developments will need to provide an appropriate amount of open public space.</p> <p>Health &amp; Wellbeing: Policy CPXX- Provision of Playing Pitches in New Development- The policy will ensure that development residents sporting needs are met, ensuring recreational space will be provided.</p> <p>Health &amp; Wellbeing: Policy CPXX- Protection of Open Space and Playing Fields- The policy ensure that the loss of open space and playing fields is prevented.</p> <p>Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to protect and enhance Green Infrastructure assets.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution (including</p>				
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				<p>light pollution) that will have a negative effect on the environment.</p> <p>Health &amp; Wellbeing: Policy CPXX-Noise- The policy states that unacceptable noise levels next to noise sensitive zones will not be permitted.</p> <p>Natural Environment: CPXX- Biodiversity- The policy will protect biodiversity from possible harm caused by development.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy C6 - Supporting Healthy Lifestyles and Wellbeing. The Policy requires new development to contribute to a healthier urban environment through minimizing disturbance associated with light, noise and odour. It also requires that new development delivers public open space that is safe, encourages active use and maximizes opportunities for informal recreation.</p> <p>Policy S3 - requires all development to achieve high standards / levels</p>				
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				<p>under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should provide and/or link into Green Space.</p> <p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied by a noise, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of noise pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or through financial contributions.</p>				
Changes to water levels and quality though increased levels	The site is outside the plan area and proposed development is not likely to result in any increased nutrient input to the	The SAC is vulnerable to modifications of the ecosystem as well as	<b>No</b>	No pathways for LSE	<b>No</b>	No pathways for LSE	No pathways for LSE	<b>No</b>

<p>of abstraction, surface water runoff and sewerage discharge. Draft Gloucester City Plan Site Allocations: 2, 3, 10, 18, 20, 21, 23 25, 28, 29, 30, 32, 33, 40, 41, 44 Policies: B3</p>	<p>site as a result of consented discharge. There are no pathways for impacts on surface water runoff or water quality at the site.</p>	<p>changes in hydraulic conditions.</p>						
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Walmore Common SPA								
Potential impacts of the Plan	Environmental Pathways	Is the site sensitive/vulnerable to these impacts?	Risk?	Potential avoidance/mitigation	LSE alone?	Potential impacts of other plans and programmes	Potential avoidance/mitigation	LSE in-comb?
<p>Reduced air quality through increased traffic and emissions. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: B3</p>	<p>A small proportion of the site lies in close proximity (within 200m) to the A48, passing to its East and South. There is potential for proposed development to increase the level of traffic along the A48. Therefore, there is a pathway for short range atmospheric pollutants.</p> <p>Development proposed in the Plan area could contribute to long-range diffuse atmospheric pollution. However, the contribution of the plan is unlikely to be of significance.</p>	<p>The evidence does not indicate that there is an issue.</p> <p>Critical load info not available for this feature.</p>	<p><b>Yes</b></p>	<p><b>Mitigation provided through draft Gloucester City Plan policies:</b></p> <p>Design: CPXX- Cycle Parking &amp; Storage- This policy encourages uses of cycling (sustainable transport) by ensuring development s have space for cycle storage.</p> <p>Design: CPXX- Transport Arrival Nodes- This policy encourages the regeneration key public transport nodes which should help reduce traffic by encouraging use of sustainable public transport methods.</p> <p>Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to protect and enhance Green Infrastructure assets.</p> <p>Health &amp; Wellbeing: Policy CPXX- Active Design- This policy ensures walking</p>	<p><b>No</b></p>	<p>There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>See previous avoidance/mitigation column for outlined draft policy mitigation.</p>	<p><b>No</b></p>

				<p>and cycling are encouraged through design.</p> <p>Health &amp; Wellbeing: Policy CPXX-Air Quality- The policy ensures developments do not contribute to increased air pollution and design should reduce exposure to pollutants.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution that will have a negative effect on the environment.</p> <p>Sustainable Transport: 1- The policy encourages new development to provide cycle parking and storage.</p> <p>Sustainable Transport: 2- The policy encourages improvement to the sustainable transport network.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p>				
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				<p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy C6 - requires new development to contribute to a healthier urban environment through maintaining or improving air quality.</p> <p>Policy S3 - requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should be designed to prioritise movement by sustainable transport modes and encourage.</p> <p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy C7 – requires all proposals to include provision of transportation measures including opportunities for installation or retrospective installation</p>				
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				<p>of new transport technologies such as electric car plug-in and ultra-low emission vehicle fuelling.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied by a transport, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of atmospheric pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or through financial contributions.</p>				
<p>Increased disturbance through recreational activity, noise and light pollution. Draft Gloucester City Plan Site Allocations: 2, 3, 4, 7, 13, 18, 23, 28, 39, 40, 44 Policies: B3</p>	<p>The site lies approx. 4 km outside of the Plan area so there are possible pathways for noise and light pollution, however it is unlikely that there will be a significant increase in recreational activity.</p>	<p>Yes, outdoor sports, leisure and recreational activities are an issue at the site.</p>	<b>Yes</b>	<p><b>Mitigation provided through draft Gloucester City Plan policies:</b></p> <p>Health &amp; Wellbeing: Policy CPXX-Outdoor Space- The policy aims to ensure amenity and garden space is retained, ensuring people will not need to go to the SAC for recreational use if there are spaces for recreation in the city boundary.</p> <p>Health &amp; Wellbeing:</p>	<b>No</b>	<p>There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>See previous avoidance/mitigation column for outlined draft policy mitigation.</p>	<b>No</b>

				<p>Policy CPXX-Open Space- The policy ensures large employment and residential developments will need to provide an appropriate amount of open public space.</p> <p>Health &amp; Wellbeing: Policy CPXX- Provision of Playing Pitches in New Development- The policy will ensure that development residents sporting needs are met, ensuring recreational space will be provided.</p> <p>Health &amp; Wellbeing: Policy CPXX- Protection of Open Space and Playing Fields- The policy ensure that the loss of open space and playing fields is prevented.</p> <p>Natural Environment: CPXX- Green Infrastructure (GI)- This policy aims to protect and enhance Green Infrastructure assets.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p>				
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				<p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution (including light pollution) that will have a negative effect on the environment.</p> <p>Health &amp; Wellbeing: Policy CPXX-Noise- The policy states that unacceptable noise levels next to noise sensitive zones will not be permitted.</p> <p>Natural Environment: CPXX- Biodiversity- The policy will protect biodiversity from possible harm caused by development.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy C6 - Supporting Healthy Lifestyles and Wellbeing. The Policy requires new development to contribute to a healthier urban environment through minimizing disturbance associated with light, noise and odour. It also requires that new development delivers public open space that is safe, encourages active use and maximizes</p>				
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				<p>opportunities for informal recreation.</p> <p>Policy S3 - requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for CO2 and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so.</p> <p>Policy S4 – requires that new development should provide and/or link into Green Space.</p> <p>Policy S10 – development is required to protect and enhance Green Infrastructure (GI) assets.</p> <p>Policy D2 – this requires that all major development sites including urban extensions and strategic allocations, need to be accompanied by a noise, a dust and a GI assessment.</p> <p>Policy D3 – requires that the exacerbation of noise pollution will need to be assessed in a transport assessment and any impacts identified will be mitigated either directly or</p>				
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				through financial contributions.				
<p>Changes to water levels and quality though increased levels of abstraction, surface water runoff and sewerage discharge.</p> <p>Draft Gloucester City Plan Site Allocations: 2, 3, 10, 18, 20, 21, 23 25, 28, 29, 30, 32, 33, 40, 41, 44</p> <p>Policies: B3</p>	<p>The site is outside the plan area and proposed development is not likely to result in any increased nutrient input to the site as a result of consented discharge. There are no pathways for impacts on surface water runoff or water quality at the site.</p> <p>Increased abstraction has the potential to affect water levels at the site as it is situated in the Severn Water Resource Zone.</p>	<p>The site is vulnerable to changes in hydraulic conditions.</p>	<b>Yes</b>	<p><b>Mitigation provided through draft Gloucester City Plan policies:</b></p> <p>Flooding and Water Management: CPXX- The policy aims to prevent flooding from occurring and effective and sustainable management of water resources.</p> <p>Design: CPXX- Design &amp; Climate Change- The policy states that development should have a high level of environmental awareness and contributes to climate change mitigation and prevention.</p> <p>Natural Environment: CPXX- Landscape- The policy aims to protect vulnerable and protected landscapes from negative effects of development.</p> <p>Health &amp; Wellbeing: Policy CPXX-Pollution- The policy prevents development which will cause pollution (including water pollution) that will have a negative effect on the environment.</p>	<b>No</b>	<p>There is the potential for the policies to act in combination with a number of the plans and programmes identified in Appendix 2, including neighbouring authorities' development plans.</p>	<p>See previous avoidance/ mitigation column for outlined draft policy mitigation.</p>	<b>No</b>

				<p>Health &amp; Wellbeing: Policy CPXX- Contamination- This policy is aimed to prevent contamination of groundwater.</p> <p><b>Mitigation provided through GCT JCS policies:</b></p> <p>Policy S3 requires all development to achieve high standards / levels under BREEAM or Code For Sustainable Homes. These set minimum standards for water use and efficiency and credits can be earned by incorporating measures to reduce pollution, if the developer chooses to do so. This should reduce water abstraction and could reduce pollution.</p> <p>Policy S10 requires development to protect and enhance Green Infrastructure assets which could help intercept pollutants and improve water quality.</p>				
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