

A38 Derby Junctions
TR010022
Volume 6
6.3 Environmental Statement
Appendices
Appendix 15.4: Cumulative Effects
Assessment

Regulation 5(2)(a)

Planning Act 2008

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

April 2019



Infrastructure Planning

Planning Act 2008

The Infrastructure Planning (Applications: Prescribed Forms and Procedure) Regulations 2009

A38 Derby Junctions Development Consent Order 202[]

6.3 Environmental Statement Appendices Appendix 15.4: Cumulative Effects Assessment

Regulation Number	Regulation 5(2)(a)
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Application Reference	Shortened name	Brief project description	Approx. distance from Scheme	Within Zol	Assessment of cumulative effect with Scheme	Proposed mitigation applicable to Scheme including any apportionment	Residual cumulative effect	Timescale
Various applications at Mackworth College: 11/12/0133 16/13/00707 10/13/0122003/14/00307 03/15/00367 03/15/00440 09/16/01084	Mackworth College site development	Residential development (up to 221 dwellings) community facilities and access and open space - approval of reserved matters of layout, scale, appearance and landscaping.	<100m	Falls within the ZoI for al topics	This development is located within 100m of the Scheme boundary (i.e. Mackworth Park), although the distance between the development and the main Scheme construction works at Kingsway junction is approximately. 400m. Whilst this development don't not require a statutory ELA, a number of environmental surveys and assessments were submitted with the plaining application (e.g. landscape management plan and landscape) plans well-dead details, the survey plan and schedule, ecological appraisal (reptile, but surveys), travel plan and transport assessment. The development works are located approximately 400m from the main construction activities associated with the Scheme at Kingsway junction, and with appropriate site management of the works at the Mackworth College site and within the Scheme site, it is considered that there is minimal risk of cumulative air quality dust impacts during the construction phase. With regard to potential operational phase cumulative traffic air quality effects, refer to para. 15.3.27. Cultural heritage. The development would not impact upon the same cultural heritage assess as sites. Scheme, and thus significent cumulative traffic air quality effects, refer to para. 15.3.27. Cultural heritage. The development would not impact upon the same cultural heritage assess as sites. Scheme, and thus significent cumulative traffic air quality effects, refer to para. 15.3.27. Cultural heritage. The development would not impact upon the same cultural heritage assess as sites. Scheme, and thus significent cumulative traffic air quality effects, refer to para. 15.3.27. Cultural heritage. The Mackworth College site is located near to Mackworth Park and has the potential operational phase cumulative trafficency of the scheme construction and operation. Landscapely visual trafficency within a lamined are are within would give rise to a small increase in the perception of construction and accordance within the Local Character Area (LCA) and at local visual receptors, after in the bort term. The cumulative	None other that the Scheme adherence to the mitigation and management measures as detailed in the OEMP.	No more than slight adverse cumulative effects during the Scheme construction phase (landscape and visual).	Short-term
10/15/01314		Derby City Local Plan Allocation AC22. Up to 200 dwellings. Full application expected mid-2019.	700m	vibration, material asset and waste, road drainage and water environment	surface water design measures as included in the Scheme design, cumulative effects upon water resources and flooding risks are not anticipated during Scheme operation. This development is located approximately 700m from the Scheme boundary at Kingsway juncion. Whilst a planning application for this development has not yet been received, there remains the potential that future planning approval could mean that the site construction works would be ongoing at the same time as Scheme construction. Given that a planning application has not been submitted, there is very little information available upon which to assess the potential for cumulative effects. The Onsiow Road development is outside of the Zol for air quality, geology and soils, people and communities. Nevertheless, a review of the potential interactions between the Scheme and this development across these technical disciplines was undertaken and confirmed that significant cumulative effects would be avoided given the scale of the development, the characteristics of the development site, and the degree of separation from the Scheme. The risks of cumulative effects associated with these disciplines would be further reduced through the implementation of applicable construction and operational phase) associated with cultural heritage, landscape/ visual, biodiversity, noise and vibration, material assets and waste, road drainage and water environment are considered below. **Cultural heritages.** The Onslow Road development would not impact upon the same cultural heritage, assets as the Scheme, and thus significant cumulative heritage effects would be avoided during Scheme construction and operation. **Landscape/ Visual.** The Onslow Road site is located near to Mackworth Park and has the potential to generate cumulative landscape and visual effects if the various construction works coincide with Scheme construction - such effects would result from an accumulation of construction activity within a limited area which would give rise to a small increase in t	adherence to the mitigation and management measures as detailed in the OEMP.	No more than slight adverse cumulative effects during the Scheme construction phase (landscape and visual)	
10/13/14	Land at Rough Heanor Farm, Mickleover	Re-model junction (A516/A38 on and off slip), demolish outbuildings and erect 80 dwellings, a restaurant and a coffee shop with drive-through facilities. The development planning application was refused in September 2018.	<100m	topics	If this development is located within 100m of the Scheme boundary, with the closest works being those associated with signage alterations within the existing highway verges. The distance between the development and the main construction works at Kingsway incrine was approximately 250m. The planning application for this development although their emains a risk that the development gloral angle. Whilst this development did not require a statutory Eth, a number of environmental surveys? assessments were submitted with the planning application, including, air quality, abnorcultural, landscape and visual, transport, noise, flood risk, ecological habitatis and protected species. The potential for cumulative effects (construction and operational phase) are considered below. Air quality: The is in a sociation with the Scheme. With regard to potential operational phase cumulative air quality effects in association with the Scheme. With regard to potential operational phase cumulative air quality raffice effects, refer to para. 153.27. Cultural heritage: The Rough Hearor Farm development would not impact upon the same cultural heritage assess as the Scheme. This significant cumulative heritage effects would be avoided during Scheme construction and operation. Landscaped visual: The landscapes and visual assessment included with the planning application found that Rough Hearor Farm development would have little to no impact on local views, although the development could have given the development would have little to no impact on local views, although the development could have a potential significant impact to the residents of the top storey of a few apartments in Greyfriar's Place. Given the development would have a long that development, cumulative view and the service of the development and the scheme construction or operation. Biodiversity. Ecological surveys of the development substance and the scheme construction or potention. Soldwessity. Ecological surveys of the development substance and the scheme construct	None other that the Scheme adherence to the mitigation and management measures as detailed in the OEMP.	ivulie	Not applicable
Various applications for Kingsway Hospital site Phase 1: 03/11/00284 11/17/01469 Various applications for Kingsway Hospital Site Phase 2: 07/08/01081 11/16/01428	Kingsway Hospital Site Development - Phase 1 Kingsway Hospital Site Development - Phase 2	Major mixed use development; 580 Dwellings, erection of offices, retail units, business units and associated infrastructure (roads, footpaths, open space and allotments). Vary condition 12 planning permission DER/07/08/01081 to allow the number of dwellings to be occupied before the completion of highway works to increase from 200 to 250 units. Erection of 71 dwelling houses, 39 apartments and formation of associated car parking, cycle parking, bin stores and public open space (Phase 2 of previously approved Outline planning permission Code No. DER/07/08/01081 to vary the approved boundary treatments. Development of Green Wedge between the development and A38 will be ongoing through to completion by 2023 - such works entail creation of allotments, football pitch, multi-use games area (MUGA), new attenuation pond, extension of existing attenuation pond, toddler and jurior play area and associated infrastructure and	<100m	Falls within the Zol for al topics	The site is undergoing sequential residential development - construction of the new properties are anticipated to be complete by the start of Scheme construction works, although works associated with the Green Wedge between the development and ASB are expected to be ongoing through to completion by 2023. Such works entail creation of altotments, football pitch, multi-use games area (MUGA), new attenuation pond, development on desisting attenuation pond, todder and jurior play area and associated infrastructure and landscape planting. As such, these works would be in the Scheme boundary, and this within the Zolf or all topics. The potential for corrections are presented by the potential plants are construction phase would also be expected to implement best practice construction methods. Thus whist significant cumulative air quality dust effects would be avoided, there would be a risk of short-term sight advense dust effects where works activities coincide. With regard to potential plants are constructed and advense dust effects where works activities coincide. With regard to potential plants are constructed and advense dust effects where works activities coincide. With regard to potential plants are constructed and advense dust effects where works activities coincide. With regard to potential for complete the plant is a facility to present the plants and advense dust effects where works activities coincide. With regard to potential for cumulative impact upon a plant of the potential for construction activity within a fund and advense dust effects where works activities coincide. With regard to potential for cumulative indicates and advense dust effects where works activities coincide. With regard to potential for cumulative indicates and advantage to a potential for construction activity within a fund and advantage to potential plants and advant	adherence to the mitigation and management measures as detailed in the OEMP. However, the Scheme construction contractor should liaise with the Kingsway hospital site developer during the construction	No more than slight adverse cumulative effects during the effects during the Scheme construction phase (air quality, landscape and visual, noise and water resources)	Short-term
6/16/00820	Kingsway House	Kingsway House: Single storey extensions to office building (five offices and store) and infilling of the	<100m	Falls within the ZoI for al topics	The development is located adjacent to the Scheme at Kingsway junction and there is potential that construction works would coincide with those associated with the Scheme. The development is small in scale (being confined to works within the Kingsway House building) and did not require an EIA nor any supporting environmental assessments as part of the planning application. The works associated with this development are not considered to have the potential to generate any significant environmental effects. Nevertheless, the works would still need to be progressed in a manner that appropriately manages potential environmental effects. Even though these works are in close proximity to the Scheme, and may take place at the same time as Scheme construction, it is considered that significant cumulative effects would be avoided due	None other that the Scheme adherence to the mitigation and management measures as detailed in	None	Not applicable

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ID	Application Reference	Shortened name	Brief project description	Approx. distance from Scheme	Within Zol	Assessment of cumulative effect with Scheme	Proposed mitigation applicable to Scheme including any apportionment	Residual cumulative effect	Timescale
29/41	Various applications for Hackwood Farm: 06/15/00846 06/15/00847 12/16/01447 12/16/01447 12/16/01448 08/17/01038 12/17/01689 12/17/01681 06/18/00999 – New school 12/17/01649 03/18/00347 09/18/01415 06/15/00847 9/2014/0562 9/2016/1250 9	Farm development straddles the South Derbyshire District	open space, drainage works and related infrastructure and landscaping, primary school. The Hackwood Farm development, Mickleover straddles the South Derbyshire District Council Derby City Council border, and will deliver 700 new homes.	Approx. 1.8km	Falls within the Zol for: biodiversity, material assets and waste	The development is located approximately 1.8km from the Scheme and thus is outside the Zol for all disciplines other than biodiversity and material assets and waste. Whilst the Hackwood Farm development is located outside the Zol for air quality, cultural heritage, landscape and visual, noise and vibration, geology and soils, people and communities, and the water environment, a review of the potential interactions between the Scheme and this development across these technical disciplines was undertaken. This confirmed that significant cumulative effects associated with these disciplines would be avoided given the scale of the development, the characteristics of the development site, and the degree of separation from the Scheme. The risks of cumulative effects associated with these disciplines would be further reduced through the implementation of applicable construction phase mitigation measures by both the development and the Scheme. The potential for cumulative effects associated with biodiversity and material assets and waste are considered below: **Biodiversity:** The development Environmental Statement indicates that there are two Local Wildlife Sites within the site (Radbourne Lane Hedge and Hackwood Farm Pond) and one immediately to the south of the site (Mickleover-Etwall Trail). One hedgerow also qualifies as a Local Wildlife Site under the Derbyshire selection criteria. The site consists primarily of arable farmland and grassland of negligible nature conservation value with hedgerows and trees mainly of up to local value. There are also four ponds within and immediately adjacent to the site. There are also buildings and trees within the site would be retained and some would be reta	None other that the Scheme adherence to the mitigation and management measures as detailed in the OEMP.	None	Not applicable
39/47	9/2018/0065 12/15/01520 12/15/0040 05/17/00679 ERE/1215/0040	Land North of Mansfield Road, Breadsall (noted that land spans Derby City Council and Erewash Borough Council land)	Outline planning application for residential development of up to 230 dwellings.	Approx. 500m	Falls within the Zol for: cultural heritage, landscapel visual, biodiversity, noise and vibration, geology and soils, material assets and waste, people and communities, road drainage and water environment	ne development is located approximately 500m from the Scheme and thus is outdet the avoid to avoid delight per development the characteristics of the development as the construction phase miligation measures by both the development and the Scheme. The potential for cumulative effects associated with other technical disciplines are considered below. Whilst no EIA was required, a number of environmental surveys and assessments were submitted with the planning application. Construction works have started on site, although there remains a risk that works would still be ongoing during Scheme construction. Cultural heritages: An archaeological investigation has been undertaken at the north of Mansfield Road development site, including an archaeological geophysical survey - these works did not identified any anomalies of probable archaeological origin, whilst there was no evidence of Roman remains. Whilst this is the case, the development Heritage impact Assessment indicated that the development outlet affect the setting of the Derwent Valley Mills World Heritage Site. There is thus the potential for the north of Mansfield Road development in association with the Scheme to generate a cumulative heritage site in the Outstanding Universal Value of the World Heritage Site. In-however, this world heritage Site is usual environment and the introduction on for wastructures and freatures in the landscape and visual impact assessment submitted with the development planning application indicates that the development is considered to be significant. No other cumulative cultural heritage Site visual environment and the introduction on for wastructures and freatures in the landscape will value assessment submitted with the development planning application indicates that the development is not included to be significant. No other cumulative cultural heritage Site visual environmental mansfield Road development of	None other that the Scheme adherence to the mitigation and management measures as detailed in the OEMP.	No more than slight adverse (cultural heritage)	Short-term
40	04/15/00449 03/17/00283	Land South of Mansfield Road, Breadsall Hilltop (between Porters Lane And Lime Lane)	Erection of 250 dwellings and formation of highways, public open space, drainage attenuation area and landscaping.	Approx. 1.5km	Falls within the Zol for: biodiversity, material assets and waste	The development is located approximately 1.5km from the Scheme and thus is outside the 2of for all disciplines other than biodiversity and material assets and waste. Whilst the Land South of Mansfield Road development is located outside the Zof for air quality, cultural heritage, landscape and visual, noise and vibration, geology and soils, people and communities, and the water environment, a review of the potential interactions between the Scheme and this development across these technical disciplines was undertaken. This confirmed that significant cumulative effects associated with these disciplines would be avoided given the scale of the development, the characteristics of the development site, and the degree of separation from the Scheme. The risks of cumulative effects associated with these disciplines would be further reduced through the implementation of applicable construction phase mitigation measures by both the development and the Scheme. The potential for cumulative effects associated with biodiversity and material assets and waste are considered below: Biodiversity: An ecological survey and appraisal was undertaken and submitted as part of the development planning application, This indicates that the development is located adjacent to the Chaddesden Wood and Lime Lane Wood LNR (adjacent to the development site), whilst on site habitatis comprise arable fields with tall ruderal margins, hedgerows, trees. Development ecological impacts include indirect impacts on Chaddesder Wood LNR, loss of habitats, disturbance to foraging and commuting bats. The development would avoid the resting bird period. The Scheme has been assessed as having no effects upon the Chaddesder Wood LNR indicating that the Scheme biodiversity effects do not extend to the Breadsall Hilltop development site. Given mitigation measures proposed by the Breadsall Hilltop development, together with the ecological mitigation measures associated with the Scheme, cumulative effects on biodiversity are not anticipated during Scheme const	None other that the Scheme adherence to the mitigation and management measures as detailed in the OEMP.	None	Not applicable
44	ERE 0618/0005	Ford Farm	Existing vehicular access from Ford Lane to be blocked up. Proposed new vehicular access formed from existing junction with B6179 (Alfreton Road). Site area: 10,990.00m².	<100m	topics	The development is located adjacent to the Scheme at Little Eaton junction and there is potential that construction works would coincide with those associated with the Scheme. The development is small in scale and did not require an EIA, whilst very limited environmental information was submitted with the planning application (flood risk assessment, access assessment). The works associated with this development are not considered to have the potential to generate any significant environmental effects. Nevertheless, the works would still need to be progressed in a manner that appropriately manages potential environmental effects. Even though these works are in close proximity to the Scheme, and may take place at the same time as Scheme construction, it is considered that significant cumulative effects would be avoided due to the small scale of the development proposals.	management measures as detailed in the DEMP. However, the Scheme construction contractor should liaise with the applicable developer to discuss any issues that may arise associated with site access given that the development is location along the B6179 Alfreton Road which is the access to the Scheme construction compound north of Little Eaton liunction.	None	Not applicable
49	AVA/2014/0928 AVA/2015/1243	Land at Kedleston Road	Outline application for the erection of up to 400 dwellings (Use Class C3), convenience store (Use Class A1 up to 500 sqm floorspace) with associated access, earthworks and other ancillary and enabling works. All other matters (appearance, landscaping, layout and scale) reserved. This is a Departure from the Development Plan. Outline application for the erection of up to 195 dwellings (Use Class C3) with associated access, earthworks and other ancillary and enabling works. All other matters (appearance, landscaping, layout and scale) reserved. This proposal constitutes a Departure from the	Approx. 1.7km	biodiversity, material assets and waste	The development is located approximately 1.7km from the Scheme and thus is outside the Zol for all disciplines other than biodiversity and material assets and waste. Whilst the Kedleston Road development is located outside the Zol for air quality, cultural heritage, landscape and visual, noise and vibration, geology and soils, people and communities, and the water environment, a review of the potential interactions between the Scheme and this development across these technical disciplines was undertaken. This confirmed that significant cumulative effects associated with these disciplines would be furthese disciplines would be furthese disciplines would be further reduced through the implementation of applicable construction phase mitigation measures by both the development and the Scheme. The potential for cumulative effects associated with biodiversity and material assets and waste are considered below. Whilst no EIA was required for the development, an number of environmental surveys and assessments were submitted with the development planning application. Construction works have not started on site, and thus there is a risk that the construction works would coincide with the Scheme construction phase. Biodiversity: Environmental Statement and ecological assessment undertaken and submitted with the planning application for 195 dwellings. The assessment reports that the application site is considered to of negligible ecological value comprising a single intensively cultivated arable field. The boundary forming hedgerows have value at the Local level due to their species richness and the scattered trees have value at the Site level. The closest LWS to the site is the Markeaton Brook LWS, located 60m northwest of the application site, proposals for the avoidance, mitigation and compensation of public open space within the development and the creation of an extensive attenuation of an extensive atten		None	Not applicable

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