

9. Protection of sensitive areas

9.1. Identification of sensitive areas

- 9.1.1. Sensitive areas shall be highlighted as appropriate within the Scheme design documentation and/or ECPs.
- 9.1.2. Sensitive areas identified to date that could potentially be affected by the Scheme’s construction are listed in Table 9.1 below. Full details of the sensitive areas are provided within the ES topic chapters (Chapter 5-14).
- 9.1.3. Table 9-1: Sensitive areas

Table 9-1 : Sensitive areas

Topic	Sensitive Area
Air quality	<ul style="list-style-type: none"> - Putwell Bridge Farm - Grove Farm - The Caravan Park, Putwell Bridge - Maylands Golf Club - Residential properties adjacent to the Scheme and on construction vehicle routes - As otherwise noted in ES Appendix 5.1 and on the air quality figures in Chapter 5 of the ES
Noise and vibration	<ul style="list-style-type: none"> - Grove Farm - Maylands Cottages - The Poplars - Nag's Head Lane - Brook Street - Harold Park - Wigley Bush Lane - South Weald - Travellers site at Colchester Road between Harold Park and junction 28 - Harold Park Baptist Church - St Peters Church - St Peter's C of E Primary School - Holiday Inn, Brentwood - 17 Colchester Road - As otherwise noted in ES Appendix 6.1 and on the noise and vibration figures in Chapter 6 of the ES
Biodiversity	<ul style="list-style-type: none"> - The Manor Local Nature Reserve (LNR) - Forty-two non-statutory designated sites (LoWSs in Essex and SINCs in Greater London) including Ingrebourne Valley SMI - Seventeen ancient woodlands including two ancient woodlands directly adjacent to the Scheme i.e. Lower Vicarage Wood and Vicarage Wood - Fifteen veteran trees - Habitats - Broadleaved woodland, semi-improved grassland, species-poor hedgerow, ponds - Badger setts, great crested newt ponds and bat roosts (trees and buildings) - Vegetation that has the potential to support breeding birds, reptiles and great crested newts - As otherwise noted on the biodiversity figures in Chapter 7 of the ES

Topic	Sensitive Area
Road drainage and the water environment	<ul style="list-style-type: none"> - River Ingrebourne (GB106037028130) - Weald Brook, Paine's Brook - Floodplains associated with River Ingrebourne and the Weald Brook - Secondary A bedrock aquifers - Secondary A and Secondary (undifferentiated) superficial aquifers - As otherwise noted on the water environment figure in Chapter 8 of the ES
Landscape and Visual	<p>Landscape:</p> <ul style="list-style-type: none"> - Great Warley Wooded Farmland (LCA) - Weald Wooded Farmland (LCA) - Brentwood Wooded Hills (LCA) - Ingrebourne Valley (LCA) - Havering Wooded Hills (LCA) - LLCA - Tyler's common, Alder Wood, Maylands Golf Club, A12 Corridor, Urban Fringe of Brentwood, Urban Fringe of Harold Park, South Weald - Green belt - Community forest - The Manor LNR - Ancient woodland and veteran trees - Registered park and garden - Listed buildings - Schedule monuments <p>Visual:</p> <ul style="list-style-type: none"> - Residents of Boyles Court Farm, Dark Lane - Residents of Grove Farm - Residents of Maylands Cottages - Residents of Harold Park - Residents of Oak Farm - Residents of May Cottage and Freeman's Cottage, between the A12 and the A1023/ Brook Street - Residents of French's Farm, off Wigley Bush Lane east - Residents of properties along Spital Lane, Wingrave Crescent, and Leonard Way, Brentwood - Residents of properties along Nags Head Lane - Users of the bridleway following Nag's Head Lane and along the crest of the M25 cutting, south of junction 28 - Users of open access land, including Tyler's Common to the south of Tyler's Hall Farm and open access land near Harold Court - Patrons of Maylands Golf Course - Users of the bridleway adjacent to the northbound carriageway of the M25, north of Jermain's Wood - Residents of St Vincent's Hamlet - Users of Weald Country Park, Lincoln Lane - Users of the Byway open to all traffic connecting St Vincent's hamlet to Weald Country Park - Users of Dagnam Park - Residents of Sheffield Drive and Mawbery Grove, Harold Hill - Residents of the A12 beside Woodstock Avenue - As otherwise noted on the landscape figures in Chapter 9 of the ES
Geology and soils	<ul style="list-style-type: none"> - Workers/visitors/users of commercial/industrial premises including those at Grove Farm (garden centre, RJ Waste Management Recycling, skip hire and rubbish clearance, agricultural land workers). - Residents of Grove Farm and traveller's site.

Topic	Sensitive Area
	<ul style="list-style-type: none"> - Members of the public using public rights of way and public spaces (non-motorised users). - Off-site residents, members of public using public rights of way and public spaces and workers/visitors at industrial, agricultural and commercial premises and recreational facilities. - Groundwater bodies beneath the Scheme and within the study area, including localised deposits of Alluvium (Secondary A aquifer) and Head deposits (Secondary (undifferentiated) aquifer) and the Secondary A aquifers associated with the Bagshot Formation and Claygate Member bedrock in the study area - Surface water receptors within the Scheme and study area, including the Ingrebourne River and Weald Brook - Proposed surface water features (attenuation pond and ecological compensation ponds) as part of the Scheme - Underground services including the Cadent high pressure gas main and BPA pipeline, existing structures, piles and foundations associated with residential, industrial, agricultural and commercial properties and future structures, services, piles and foundations. - Off-site existing structures, services, piles and foundations associated with residential, industrial, agricultural and commercial properties including listed buildings. - Areas of compressible ground (Alluvium). - Areas of shrinking or swelling clay (Claygate Member and London Clay Formation). - Areas of running sand (Bagshot Beds). - Areas of groundworks or man-made slopes. - Areas of high and moderate UXO risk. - As otherwise noted on the geology and soils figures in Chapter 10 of the ES
Cultural heritage	<ul style="list-style-type: none"> - The Grade II Weald Park (1000747) Registered Park and Garden - The Grade II* listed buildings (The Golden Fleece Inn [1197231] and Moat House [1279743]) - The Grade II listed buildings Tylers Hall Farm House (1079905), A timber-framed range of outbuildings (1183938), Stony Hills Farm (1297215), Nos 17, 19 and 21 Brook Street (1205707), The Bull Inn (12972259); and The Nag's Head Inn (1197190) - Duck Wood (MLO109095) Ancient Woodland - Archaeology priority zone (APZ) - DLO33196, DLO33198, (DLO33238) - The South Weald Conservation Area (DEX22821) - The Weald Park Conservation Area (DEX22829) - Below ground archaeology - As otherwise noted on the cultural heritage figures in Chapter 11 of the ES
Materials and waste	<ul style="list-style-type: none"> - N/A
People and communities	<ul style="list-style-type: none"> - Maylands Golf Club - Gardens of Peace burial ground (formerly known as Land at Oak Farm) - Henderson Sports and Social Club - Spirit Health Club - PRowS - Development land - Glebelands Estate - Poplars dwellings and farm building - Boyles Court Farm - Grove Farm - Maylands Cottage - Dwellings at Harold Park - Nags Head Lane - South Weald Service Station - Brook Street area - Wigley Bush Lane and Weald Park Way

Topic	Sensitive Area
	<ul style="list-style-type: none"> - Putwell Bridge, Caravan Park - Warley Road - As otherwise noted on the people and community figure in Chapter 13 of the ES
Climate	<ul style="list-style-type: none"> - Atmospheric greenhouse gas concentration - Construction processes including workforce, plant and machinery

9.2. Protection measures

- 9.2.1. The above listed areas will generally be sensitive to or potentially affected by nuisance (i.e. dust, noise, vibration and visual effects) and pollution (e.g. sediment, spillages) during construction.
- 9.2.2. The appropriate protection measures will therefore include those set out in the ECPs listed above in section 4.4.
- 9.2.3. The list of sensitive areas and associated control measures shall be updated as necessary through detailed design and construction planning, and community liaison prior to and during construction . There may be a need to develop specific, localised control measures or ECPs for individual areas or receptors.