

FLOOD RISK SEQUENTIAL TEST : APPENDIX - SITE ASSESSMENTS

Proposed Site

Site reference	DLP Site 1, Call for Sites references 33, 102, 169, 236
Location	Barratt's Farm, Balsall Common
Proposed use	Residential, potential primary school
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourse within site not modelled. Emerging concept masterplan includes area of Flood Zones 2, 3a and 3b in north-west corner of site, but not for development
Climate Change Allowance	Upper end
Climate Change impact	Only very marginal increase to flood zones, not impacted by emerging concept masterplan development area
Surface Water flood mapping	1% in 100 year, 7% in 1000 year extents
Ground Water Susceptibility	Northern part of site within < 25% area, remainder within 25% to 50% km square
Artificial sources	n/a
SFRA Summary of flood risk	Balsall Common is located in Flood Zone 1. Although there are a tributary and 2 drains not covered, flooding from fluvial sources is unlikely. Surface water flood risk limited to areas of the tributary and 2 drains to the west and north-east, and dry valleys leading to the 3 watercourses
SFRA Site Screening	Ordinary watercourse flowing adjacent or through site, so Level 2 SFRA and additional modelling required

Advice from Environment Agency

Sequential Test required	No, but ordinary watercourse not modelled and may be required if site extended to include area within Flood Zones 2/3
Level 2 SFRA required	Ordinary watercourse flows through site. Recommends assessment as part of Level 2 SFRA to inform developable area and capacity
Hydraulic modelling required	Recommends hydraulic modelling as part of Level 2 SFRA
Other comment	Development should be set back minimum 5m from watercourse to create blue/green corridor. Layout should incorporate above ground SuDS and create space for flood storage to reduce risk downstream

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	

Application within site	No development should be permitted in any areas within higher flood zones. Land within higher flood zones shown as open space in concept masterplan
Justification if taking site forward	
Need for Exception Test	Not required if land within higher flood zones and climate change impacts retained as open space

Proposed Site

Site reference	DLP Site 2, Call for Sites 75
Location	Frog Lane, Balsall Common
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	n/a
Climate Change impact	None
Surface Water flood mapping	1% in 1000 year extent
Ground Water Susceptibility	Within 25% to 50% km square
Artificial sources	n/a
SFRA Summary of flood risk	Balsall Common is located in Flood Zone 1. Although there are a tributary and 2 drains not covered, flooding from fluvial sources is unlikely. Surface water flood risk limited to areas of the tributary and 2 drains to the west and north-east, and dry valleys leading to the 3 watercourses
SFRA Site Screening	No further assessment required

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	No comments

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 3, Call for Sites 47, 138, 314
Location	Windmill Lane, Balsall Common
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	n/a
Climate Change impact	None
Surface Water flood mapping	1% in 1000 year extent
Ground Water Susceptibility	Within 25% to 50% km square
Artificial sources	n/a
SFRA Summary of flood risk	Balsall Common is located in Flood Zone 1. Although there are a tributary and 2 drains not covered, flooding from fluvial sources is unlikely. Surface water flood risk limited to areas of the tributary and 2 drains to the west and north-east, and dry valleys leading to the 3 watercourses
SFRA Site Screening	No further assessment required

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	No comments

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 4, Call for Sites references 126, 130, 176
Location	West of Dickens Heath
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourse within site not modelled.
Climate Change Allowance	Upper end
Climate Change impact	None, but ordinary watercourse not modelled
Surface Water flood mapping	1% in 30 year, 1% in 100 year, 7% in 1000 year extents
Ground Water Susceptibility	Within > 50% < 75% km square
Artificial sources	Residual risk from breaches of Stratford on Avon canal
SFRA Summary of flood risk	Flood risk from majority of watercourses not shown in EA Flood Zones. Potentially some fluvial flood risk from numerous unnamed drains
SFRA Site Screening	Ordinary watercourse flowing adjacent or through site, so Level 2 SFRA and additional modelling required

Advice from Environment Agency

Sequential Test required	No, but ordinary watercourse not modelled
Level 2 SFRA required	Ordinary watercourse flows through site. Recommends assessment as part of Level 2 SFRA to inform developable area and capacity
Hydraulic modelling required	Recommends hydraulic modelling as part of Level 2 SFRA
Other comments	Area has known flooding issues and LLFA investigating options to reduce flood risk in Dickens Heath. Recommend Level 2 SFRA to consider how development could alleviate existing risks, and unobstructed green corridor maintained along banks of watercourse

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 6, Call for Sites references 117, 129
Location	Meriden Road, Hampton in Arden
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	Upper end
Climate Change impact	Only very minor differences from Flood Zone 2, but ordinary watercourse not modelled
Surface Water flood mapping	1% in 100 year, 2% in 1000 year extents
Ground Water Susceptibility	Within > 50% < 75% km square
Artificial sources	n/a
SFRA Summary of flood risk	Properties east of the railway including Lapwing Drive split by the primary flow path of an unnamed drain. The surrounding flood plains are flat and wide, acting as flow route during flood events. Surface water risks in vicinity of existing watercourses and Meriden Road.
SFRA Site Screening	No further assessment required

Advice from Environment Agency

Sequential Test required	No, but ordinary watercourse not modelled
Level 2 SFRA required	Recommend Level 2 SFRA in view of ordinary watercourse on northern boundary to inform developable area and capacity
Hydraulic modelling required	Recommend hydraulic modelling of ordinary watercourse on northern boundary
Other comments	Recommend unobstructed green corridor maintained along banks of watercourse

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 7, Call for Sites reference 229
Location	Kingshurst Village Centre
Proposed use	Mixed use, residential, retail and community
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	Lower End
Climate Change impact	Main impact at lower end but to NW of River Cole
Surface Water flood mapping	2% in 30 year, 2% in 100 year, 4% in 1000 year extents
Ground Water Susceptibility	Within 25% to 50% km square
Artificial sources	None
SFRA Summary of flood risk	Main fluvial risk from River Cole, flood zones predominantly within rural flood plain with limited impact on settlement. majority of properties not within surface water extents
SFRA Site Screening	No further assessment required

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 8, Call for Sites reference 166
Location	East of Hampton Road, Knowle
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	Upper end
Climate Change impact	None
Surface Water flood mapping	0% in 1000 year extent
Ground Water Susceptibility	Within < 25% km square
Artificial sources	n/a
SFRA Summary of flood risk	Fluvial or surface water flood risk could come from Purnells Brook or the unnamed drain to the north-east Knowle
SFRA Site Screening	No further assessment required

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 8, Call for Sites reference 213
Location	West of Hampton Road, Knowle
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourse within site not modelled.
Climate Change Allowance	Upper end
Climate Change impact	None, but ordinary watercourse not modelled
Surface Water flood mapping	5% in 30 year, 5% in 100 year, 9% in 1000 year extents
Ground Water Susceptibility	Within < 25% km square
Artificial sources	n/a
SFRA Summary of flood risk	Fluvial or surface water flood risk could come from Purnells Brook or the unnamed drain to the north-east Knowle
SFRA Site Screening	Ordinary watercourse flowing adjacent or through site, so Level 2 SFRA and additional modelling required

Advice from Environment Agency

Sequential Test required	No, but ordinary watercourse not modelled
Level 2 SFRA required	Purnells Brook, a main river where the flood risk has not been mapped, flows through site. Recommends assessment as part of Level 2 SFRA to inform developable area and capacity
Hydraulic modelling required	Recommends hydraulic modelling as part of Level 2 SFRA
Other comments	If modelling not undertaken as part of Level 2 SFRA, EA will require as part of site specific FRA for any PA. Development should be outside Flood Zones 2/3 and the 100 year plus climate change flood extent. Any numbers allocated for site should be sufficiently flexible to ensure allocation not compromised. A minimum 8m easement should be provided from each bank to allow for maintenance

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 9, Call for Sites references 148-157
Location	South of Knowle
Proposed use	Residential, Primary and Secondary school
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourse within site not modelled
Climate Change Allowance	Upper end
Climate Change impact	None, but ordinary watercourse not modelled
Surface Water flood mapping	1% in 30 year, 2% in 100 year, 9% in 1000 year extents
Ground Water Susceptibility	Western part of site within < 25% area, eastern part within 25% to 50% km square
Artificial sources	
SFRA Summary of flood risk	Fluvial or surface water flood risk could come from Purnells Brook or the unnamed drains throughout Knowle
SFRA Site Screening	Ordinary watercourse flowing adjacent or through site, so Level 2 SFRA and additional modelling required

Advice from Environment Agency

Sequential Test required	No, but ordinary watercourse not modelled
Level 2 SFRA required	Ordinary watercourse flows through site. Recommends assessment as part of Level 2 SFRA to inform developable area and capacity
Hydraulic modelling required	Recommends hydraulic modelling as part of Level 2 SFRA
Other comments	Recommend unobstructed green corridor maintained along banks of watercourse

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 10, Call for Sites references 119, 137
Location	Birmingham Road, Meriden
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourse within site not modelled.
Climate Change Allowance	Upper End
Climate Change impact	Primarily within existing flood zones
Surface Water flood mapping	1% in 30 year, 21% in 1000 year extents
Ground Water Susceptibility	Within 25% to 50% km square
Artificial sources	n/a
SFRA Summary of flood risk	All watercourses in vicinity of settlement are ordinary and flood risk not mapped. Significant risk to properties in the vicinity of the unnamed watercourse in the west of Meriden
SFRA Site Screening	Ordinary watercourse flowing adjacent or through site, so Level 2 SFRA and additional modelling required

Advice from Environment Agency

Sequential Test required	No, but ordinary watercourse not modelled
Level 2 SFRA required	Ordinary watercourse flows through/adjacent site. Recommends assessment as part of Level 2 SFRA to inform developable area and capacity
Hydraulic modelling required	Recommends hydraulic modelling as part of Level 2 SFRA
Other comments	Recommend Level 2 SFRA to consider how development could alleviate existing risks, and an unobstructed green corridor is maintained along the banks of the watercourse for the purposes of protecting and maintaining green and blue infrastructure

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 12, Call for Sites reference 122
Location	South of Dog Kennel Lane, Shirley
Proposed use	Residential, potential Primary School
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but small area of DLP2016 site within Flood Zones 2/3. May have changed in 2019 version
Climate Change Allowance	Upper end
Climate Change impact	Only very marginal increase to flood zones, not impacted by emerging concept masterplan development area
Surface Water flood mapping	1% in 30 year, 1% in 100 year, 5% in 1000 year extents in 2016 site
Ground Water Susceptibility	Northern and eastern parts within 50% to 75%, central part > 25% < 50% km square
Artificial sources	n/a
SFRA Summary of flood risk	Risks mainly associated with watercourses flowing through Cheswick Green and Dickens Heath
SFRA Site Screening	Level 2 SFRA required

Advice from Environment Agency

Sequential Test required	Yes, in light of inclusion of land in Flood Zones 2/3
Level 2 SFRA required	Yes, in light of inclusion of land in Flood Zones 2/3
Hydraulic modelling required	No, floodplain mapped
Other comments	Recommend additional requirement to provide flood attenuation to reduce the risk of flooding in Cheswick Green

Applying the Sequential Test

Alternative reasonably available sites	Call for Sites references 42 Big Cleobury Farm, 141 Land around Earlswood Station, 192 Land at Dickens Heath Road, 209 Tidbury Green Golf Club, and 313 Fulford Hall Farm, Tidbury Green
Alternatives with lower flood risk	None; Site 141 mainly Flood Zone 1, but ordinary watercourses at eastern and western ends not modelled; Site 313 Flood Zone 1, but ordinary watercourses in northern and western parts of site not modelled
Application within site	No development should be permitted in any areas within higher flood zones. Emerging Concept Masterplan for Site 12 shows area in higher flood zones as open space/country park
Justification if taking site forward	Housing need, sustainable location on edge of urban area, opportunity for flood alleviation works to reduce flood risk in Cheswick Green, no development within area in higher flood zones
Need for Exception Test	No

Proposed Site

Site reference	DLP Site 16, Call for Sites reference 11, 15, 28, 67, 143, 147, 230, 339 & 410
Location	East of Solihull
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	Upper End
Climate Change impact	No impacts as remote from watercourses
Surface Water flood mapping	n/a
Ground Water Susceptibility	Within 50% to 75% km square
Artificial sources	Grand Union canal on northern boundary of site
SFRA Summary of flood risk	No relevant comments
SFRA Site Screening	No further assessment required

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	No comments

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 17, Call for Sites reference 222
Location	Moat Lane, Solihull
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	Upper End
Climate Change impact	No impacts as site remote from fluvial flood plains where impacts very similar
Surface Water flood mapping	7% in 30 year, 11% in 100 year, 22% in 1000 year extents
Ground Water Susceptibility	Within 25% to 50% km square
Artificial sources	Grand Union canal nearby
SFRA Summary of flood risk	Flood Zones are narrow and surface water flood risk most significant at 1000 year extent covering significant amount of Solihull and majority of road network
SFRA Site Screening (2020)	Large surface water flow path across the majority of the site, so recommends Level 2 SFRA

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	No comments

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 18, Call for Sites reference 245 & 306
Location	Sharmans Cross Road, Solihull
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourse along western boundary of site not modelled.
Climate Change Allowance	Upper End
Climate Change impact	Primarily within existing flood zones, but ordinary watercourse along western boundary of site not modelled
Surface Water flood mapping	5% in 1000 year extent
Ground Water Susceptibility	Within > 50% & < 75% km square
Artificial sources	n/a
SFRA Summary of flood risk	Flood Zones are narrow and surface water flood risk most significant at 1000 year extent covering significant amount of Solihull and majority of road network
SFRA Site Screening	No further assessment required

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	Ordinary watercourse flows through/adjacent site. Recommends assessment as part of Level 2 SFRA to inform developable area and capacity
Hydraulic modelling required	Recommends hydraulic modelling as part of Level 2 SFRA
Other comments	Recommend Level 2 SFRA to consider how development could alleviate existing risks, and an unobstructed green corridor is maintained along the banks of the watercourse for the purposes of protecting and maintaining green and blue infrastructure

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 19, Call for Sites references 132
Location	Arden Cross/HS2 Interchange Triangle
Proposed use	Mixed use including employment and residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but small area of site within Flood Zones 2/3
Climate Change Allowance	Upper End
Climate Change impact	Primarily confined to existing flood zones/plain
Surface Water flood mapping	2% in 30 year, 1% in 100 year, 4% in 1000 year extents
Ground Water Susceptibility	Southern part of site within < 25% area northern part of site in 25% to 50% km square
Artificial sources	n/a
SFRA Summary of flood risk	Surface water flooding confined to close proximity of watercourses, although there is a large flow route through Birmingham Airport to Low Brook
SFRA Site Screening	Level 2 SFRA required

Advice from Environment Agency

Sequential Test required	Yes, in light of inclusion of land in Flood Zones 2/3
Level 2 SFRA required	Yes, in light of inclusion of land in Flood Zones 2/3
Hydraulic modelling required	No, floodplain mapped
Other comments	Holywell Brook, a designated Main River flows through centre of site, so Sequential Test required. All development to be located outside Flood Zones 2/3 and minimum 8m easement to be maintained for essential access and provision of green and blue corridor

Applying the Sequential Test

Alternative reasonably available sites	None, as site around proposed HS2 Interchange station and no other similar sites exist
Alternatives with lower flood risk	None
Application within site	All development to be located outside Flood Zones 2/3
Justification if taking site forward	Social and economic benefits of taking forward unique site as detailed in Draft Local Plan
Need for Exception Test	No

Proposed Site

Site reference	DLP Site 20, Call for Sites references 65, 95, 189, 190, 191, 202, 228, 317
Location	Land either side of Damson Parkway, Solihull
Proposed use	Employment
Vulnerability Classification	Less vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but small area of eastern part of site within Flood Zones 2/3. Ordinary watercourse within site not modelled
Climate Change Allowance	Upper End
Climate Change impact	No impact beyond existing flood zones, but ordinary watercourse not modelled
Surface Water flood mapping	1% in 30 year, 1% in 100 year, 4% in 1000 year extents
Ground Water Susceptibility	Within < 25% km square
Artificial sources	n/a
SFRA Summary of flood risk	No comments
SFRA Site Screening	Ordinary watercourse flowing adjacent or through site, so Level 2 SFRA and additional modelling required

Advice from Environment Agency

Sequential Test required	Yes, in light of inclusion of land in Flood Zones 2/3
Level 2 SFRA required	Yes, in light of inclusion of land in Flood Zones 2/3. Ordinary watercourse flows through site. Recommends assessment as part of Level 2 SFRA to inform developable area and capacity
Hydraulic modelling required	Recommends hydraulic modelling as part of Level 2 SFRA
Other comments	Assessment of flood risk and easement from ordinary watercourse should be agreed with LLFA. Recommends an unobstructed green corridor is maintained along the banks of the watercourse for the purposes of protecting and maintaining green and blue infrastructure

Applying the Sequential Test

Alternative reasonably available sites	None, as site adjoins existing JLR works and more remote sites would not meet Company's needs
Alternatives with lower flood risk	None
Application within site	All development to be located outside Flood Zones 2/3, taking account of climate change
Justification if taking site forward	Social and economic benefits of taking forward unique site as detailed in Draft Local Plan
Need for Exception Test	No

Proposed Site

Site reference	DLP Site 21, Call for Sites 79, 102, 170, 320, 408, 414
Location	Pheasant Oak Farm, Balsall Common
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	100 year + 50% climate change
Climate Change impact	0%
Surface Water flood mapping	0% for 30/100/1000 year extents
Ground Water Susceptibility	Eastern part within < 25% area, western part of site within 25% to 50% km square
Artificial sources	n/a
SFRA Summary of flood risk	Balsall Common is located in Flood Zone 1. Although there are a tributary and 2 drains not covered, flooding from fluvial sources is unlikely. Surface water flood risk limited to areas of the tributary and 2 drains to the west and north-east, and dry valleys leading to the 3 watercourses
SFRA Site Screening (2020)	Low risk

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 22, Call for Sites 60, 158, 159, 160, 161, 162, 172, 240
Location	Trevallion Stud, Balsall Common
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	100 year + 50% climate change
Climate Change impact	0%
Surface Water flood mapping	< 1% for 100 year and 2% for 1000 year extents
Ground Water Susceptibility	Within < 25% area
Artificial sources	n/a
SFRA Summary of flood risk	Balsall Common is located in Flood Zone 1. Although there are a tributary and 2 drains not covered, flooding from fluvial sources is unlikely. Surface water flood risk limited to areas of the tributary and 2 drains to the west and north-east, and dry valleys leading to the 3 watercourses
SFRA Site Screening	Low risk

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 23, Call for Sites 9
Location	Lavender Hall Farm, Balsall Common
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	100 year + 50% climate change
Climate Change impact	0%
Surface Water flood mapping	< 1% for 100 year and 1% for 1000 year extents
Ground Water Susceptibility	Within <25% km square
Artificial sources	n/a
SFRA Summary of flood risk	Balsall Common is located in Flood Zone 1. Although there are a tributary and 2 drains not covered, flooding from fluvial sources is unlikely. Surface water flood risk limited to areas of the tributary and 2 drains to the west and north-east, and dry valleys leading to the 3 watercourses
SFRA Site Screening	Low risk. Water course to the north and south may isolate the site in times of flooding.

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 24, Call for Sites reference 136
Location	Oak Farm, Catherine de Barnes
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	100 year + 50% climate change
Climate Change impact	0%
Surface Water flood mapping	1%for 30 year and 100 year extents, 9% for 1000 year extents
Ground Water Susceptibility	Within < 25% km square
Artificial sources	Grand Union canal adjoins site
SFRA Summary of flood risk	No comments
SFRA Site Screening	Low risk. Low surface water risk on the north-eastern boundary

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	No comments

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 25, Call for Sites reference 139 & 175
Location	South of School Road, Hockley Heath
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1
Climate Change Allowance	100 year + 50% climate change
Climate Change impact	0%
Surface Water flood mapping	< 1% for 1000 year extent
Ground Water Susceptibility	Within < 25% km square
Artificial sources	Stratford on Avon canal adjoins site
SFRA Summary of flood risk	No comments
SFRA Site Screening	Low risk. Highlight flood risk issue from Stratford on Avon canal for site FRA

Advice from Environment Agency

Sequential Test required	No
Level 2 SFRA required	No
Hydraulic modelling required	No
Other comments	No comments

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	DLP Site 26, Call for Sites references 41
Location	Whitlock's End Farm, Shirley
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourse within south-eastern corner of site not modelled
Climate Change Allowance	100 year + 50% climate change
Climate Change impact	0%, but ordinary watercourse not modelled
Surface Water flood mapping	< 1% for 30 year, 1% for 100 year, and 2% for 1000 year extents
Ground Water Susceptibility	Within > 50% < 75% km square
Artificial sources	Residual risk from breaches of Stratford on Avon canal
SFRA Summary of flood risk	Main flood risk in this area associated with River Cole, but site not within higher flood zones
SFRA Site Screening	Low risk, but ordinary watercourse not modelled so Level 2 SFRA recommended

Advice from Environment Agency

Sequential Test required	No, but ordinary watercourse not modelled
Level 2 SFRA required	Ordinary watercourse flows through site. Recommends assessment as part of Level 2 SFRA to inform developable area and capacity
Hydraulic modelling required	Recommends hydraulic modelling as part of Level 2 SFRA
Other comments	Area being investigated to assess potential options to reduce flood risk. Could provide flood storage and help reduce flood risk downstream Recommend Level 2 SFRA to consider how development in area could alleviate existing flood risk issues

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	Call for Sites 42
Location	Land at Big Cleobury Farm, Cleobury Lane, Tidbury Green
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourses through northern part of site and to south not modelled
Climate Change Allowance	Central, Higher Central and Upper End
Climate Change impact	Ordinary watercourses through northern part of site and to south not modelled
Surface Water flood mapping	Minimal 30 year around watercourse to south adjacent Cleobury Lane and 100 year around watercourse across northern part of site, more significant 1000 year impacts around ordinary watercourses
Ground Water Susceptibility	Eastern part of site adjacent Cleobury Lane within 25% to 50% area, most of site within 50% to 75% area
Artificial sources	n/a
SFRA Summary of flood risk	n/a
SFRA Site Screening	n/a

Advice from Environment Agency

Sequential Test required	n/a
Level 2 SFRA required	n/a
Hydraulic modelling required	n/a
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	Call for Sites 141
Location	Land adjacent to Earlswood station, Rumbush Lane
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourses at western and eastern ends of site not modelled
Climate Change Allowance	Central, Higher Central and Upper End
Climate Change impact	Ordinary watercourses at western and eastern ends of site not modelled
Surface Water flood mapping	Minimal 30 year around watercourses, 100 year mainly within watercourse corridors and Rumbush Lane, more significant 1000 year impacts around ordinary watercourses and east and west of Rumbush Lane
Ground Water Susceptibility	Most of site within 25% to 50% area, eastern part near Wood Lane > 75% area
Artificial sources	n/a
SFRA Summary of flood risk	n/a
SFRA Site Screening	n/a

Advice from Environment Agency

Sequential Test required	n/a
Level 2 SFRA required	n/a
Hydraulic modelling required	n/a
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	Call for Sites 192
Location	Land at Dickens Heath Road/Tilehouse Lane
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourses to north and south-east of site not modelled
Climate Change Allowance	Central, Higher Central and Upper End
Climate Change impact	Ordinary watercourses to north and south-east of site not modelled
Surface Water flood mapping	Minimal 30 year and 100 year mainly within watercourse corridors and Rumbush Lane, more significant 1000 year impacts around continuation of ordinary watercourses to south-east along Dickens Heath Road corridor, and an area in north of site
Ground Water Susceptibility	Within 50% to 75% area
Artificial sources	n/a
SFRA Summary of flood risk	n/a
SFRA Site Screening	n/a

Advice from Environment Agency

Sequential Test required	n/a
Level 2 SFRA required	n/a
Hydraulic modelling required	n/a
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	Call for Sites 209
Location	Tidbury Green Golf Club, Tilehouse Lane
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Mainly Flood Zone 1, but areas of Flood Zones 2, 3a & 3b to west along River Cole corridor and ordinary watercourse to south not modelled
Climate Change Allowance	Central, Higher Central and Upper End
Climate Change impact	Impacts limited to mapped flood plain along River Cole, ordinary watercourse not mapped
Surface Water flood mapping	Minimal 30 year and 100 year, more significant 1000 year impacts to east and west of site
Ground Water Susceptibility	Within 50% to 75% area
Artificial sources	n/a
SFRA Summary of flood risk	n/a
SFRA Site Screening	n/a

Advice from Environment Agency

Sequential Test required	n/a
Level 2 SFRA required	n/a
Hydraulic modelling required	n/a
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	

Proposed Site

Site reference	Call for Sites 313
Location	Fulford Hall Farm, Tidbury Green
Proposed use	Residential
Vulnerability Classification	More vulnerable

Evidence Base

Flood Zone mapping	Flood Zone 1, but ordinary watercourses in northern and western parts of site not modelled (?)
Climate Change Allowance	Central, Higher Central and Upper End
Climate Change impact	Ordinary watercourses not mapped
Surface Water flood mapping	Minimal 30 year, 100 year mainly within watercourse corridors, more significant 1000 year impacts around ordinary watercourses and east of Rumbush Lane
Ground Water Susceptibility	Western part within 25% to 50% area, north-eastern part within 50% to 75% area, & east of Rumbush Lane > 75% area
Artificial sources	n/a
SFRA Summary of flood risk	n/a
SFRA Site Screening	n/a

Advice from Environment Agency

Sequential Test required	n/a
Level 2 SFRA required	n/a
Hydraulic modelling required	n/a
Other comments	n/a

Applying the Sequential Test

Alternative reasonably available sites	
Alternatives with lower flood risk	
Application within site	
Justification if taking site forward	
Need for Exception Test	