

**Level 2 SFRA Site Assessment**  
**Potential Sites along Wall Brook (also cited as Donnington Watercourse)**

<u>Site ID/Ref</u>	<u>SHLAA Site/ ABD Number</u>	<u>SHLAA Name/ Full Ref</u>	<u>SHLAA LOCAL/ Site Name</u>	<u>Site Description</u>	<u>Flood Depth Assessment</u>	<u>Flood Velocity Assessment</u>	<u>Flood Hazard Assessment</u>	<u>Blockage Scenario</u>	<u>Recommendations</u>
144	Land south	New Trench Road/A518	Muxton	Site lies almost fully in Flood Zone 1. A small portion of the northern extent of the site is affected by Flood Zones 3b, 3a and 2 from flood waters that flow down New Trench Road. There is little difference in the extent of flooding between the modelled Flood Zones.	Depth of flooding is shallow (<30cm) for the range of return periods.	Velocities are generally low to mid range across the affected part of the site (0.1 to 0.8m/s) with little difference between the range of return periods.	Flood hazard is low, with 'danger for some' across the affected part of the site for the range of modelled return periods.	With a 75% blockage applied at culverts SJ 71020 14260 and SJ 70420 14890, the extent, depth and velocity of flooding at this site are similar to the 100 year event. The flood hazard is also similar to the 100 year event with 'danger for some.'	The flood hazard across the affected part of the site is low for the range of modelled return periods. It is recommended that the affected part of the site be kept as open space. Development should be directed towards the part of the site with the lowest flood risk.
336	Land at The Humbers	Humber Lane	Donnington	The majority of the site lies within Flood Zone 1 apart from a thin corridor along the eastern edge of the site which is affected by Flood Zones 3b, 3a and 2. There is little difference in the extent of the flooding between the different modelled events. A drain runs along the southern edge of the site adjacent to Humber Lane.	The depth of flooding across the affected part of the site is shallow (<30cm) due to the flat nature of the surrounding topography in this area.	Velocities are generally low (<0.5m/s) across the affected parts of the site for the range of modelled return periods.	Flood hazard is low, with 'danger for some' across the affected part of the site.	With a 75% blockage applied at culverts SJ 71020 14260 and SJ 70420 14890, the extent, depth and velocity of flooding at this site are similar to the 100 year event. The flood hazard is also similar to the 100 year event with 'danger for some.'	The flood hazard across the affected part of the site is low for the range of modelled return periods due to the nature of the area the site is in being flat. It is recommended that the affected part of the site be kept as open space. Development located within the site should be located towards the parts of the site with the lowest flood risk.
350	Land adjacent to Mobile Home Park, north of	Wellington Road	Muxton	Site lies fully in Flood Zone 1. A watercourse/drain runs along the eastern edge of the site although this has not been modelled.	n/a	n/a	n/a	n/a	Follow requirements for development in Flood Zone 1. It is recommended a development easement for development from the top of the watercourse/drain on the eastern edge of the site be negotiated with the EA (typically 8m).
482	Land east	Station Road	Lilleshall+Donnington	Previous JFLOW outlines showed approximately half of the site to lie within Flood Zones 3a and 2. Updated modelled flood outlines for the unnamed drain adjacent to Donnington Drive show the majority of the site to be affected by Flood Zones 3b, 3a and 2. The flat nature of the topography in this area means there is little difference between the extent of the flood outlines for the modelled return periods.	The depth of flooding across the site is generally shallow (<30cm) across the range of modelled return periods due to the flat nature of the surrounding topography. Towards the northern boundary of the site adjacent to the road, the depth of flooding increases slightly for the higher return periods (30-50cm).	Velocities across the affected parts of the site are generally slow (0.4 to 0.5m/s) for the range of modelled return periods.	Flood hazard across the affected parts of the site is generally low, with 'danger for some.' Towards the northern boundary of the site the flood hazard is low to moderate adjacent to the road, with 'danger for some.'	With a 75% blockage applied at culverts SJ 71020 14260 and SJ 70420 14890, the extent, depth and velocity of flooding at this site are similar to the 100 year event. The flood hazard is also similar to the 100 year event with 'danger for some.'	Given the degree of flood risk posed to this site, alternative sites in lower risk Flood Zones, preferably Zone 1, should be developed in preference to this site.
504	Land at Donnington Farm - edited (edge of 144)	New Trench Road	Donnington	Site lies fully in Flood Zone 1. Flood Zones 3b, 3a and 2 are located adjacent to the northern and western boundaries of the site, but do not affect the site itself.	n/a	n/a	n/a	n/a	Follow requirements for development in Flood Zone 1.
508	Land at 'The Humbers' north	New Trench Road	Donnington	The majority of this site lies within Flood Zone 1. Parts of the site are affected by Flood Zones 3b, 3a and 2. The culverts located along the unnamed drain adjacent to Donnington Drive become surcharged during high flow events. Flood water flows overland, following a flow route along New Trench Road in a north easterly direction, before entering the site by the eastern boundary and continuing to flow in a northerly direction along the eastern edge of the site.	The depth of flooding across the affected part of the site is shallow (<30cm). There is no difference in the depth of flooding for the different return periods due to the flat nature of the surrounding topography in this area.	Velocities are generally low (<0.5m/s) across the affected parts of the site for the range of modelled return periods.	Flood hazard across the affected parts of the site is low, with 'danger for some.'	With a 75% blockage applied at culverts SJ 71020 14260 and SJ 70420 14890, the extent, depth and velocity of flooding at this site are similar to the 100 year event. The flood hazard is also similar to the 100 year event with 'danger for some.'	The majority of the site lies within Flood Zone 1. The flood hazard across the affected parts of the site is low for the range of modelled return periods. It is recommended that the affected part of the site is kept as open space. Development should be directed towards the part of the site with the lowest flood risk.