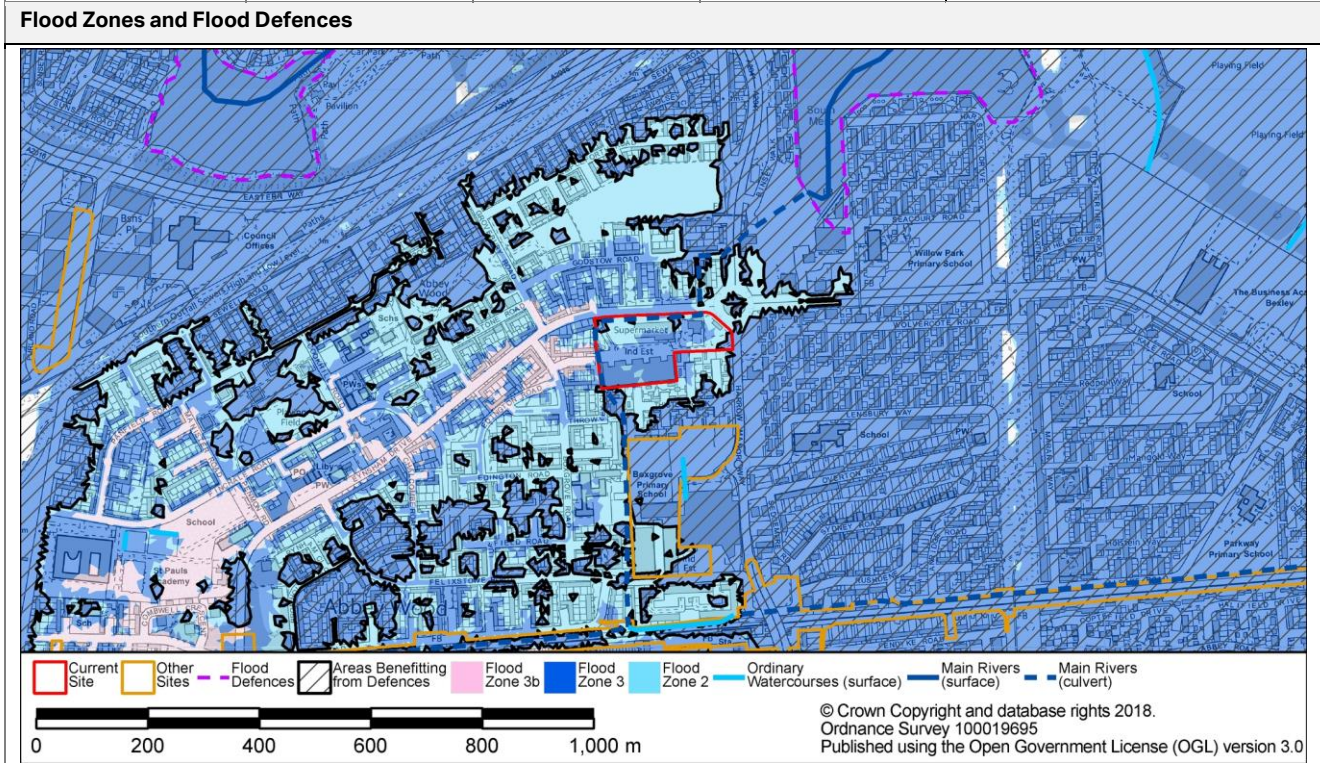


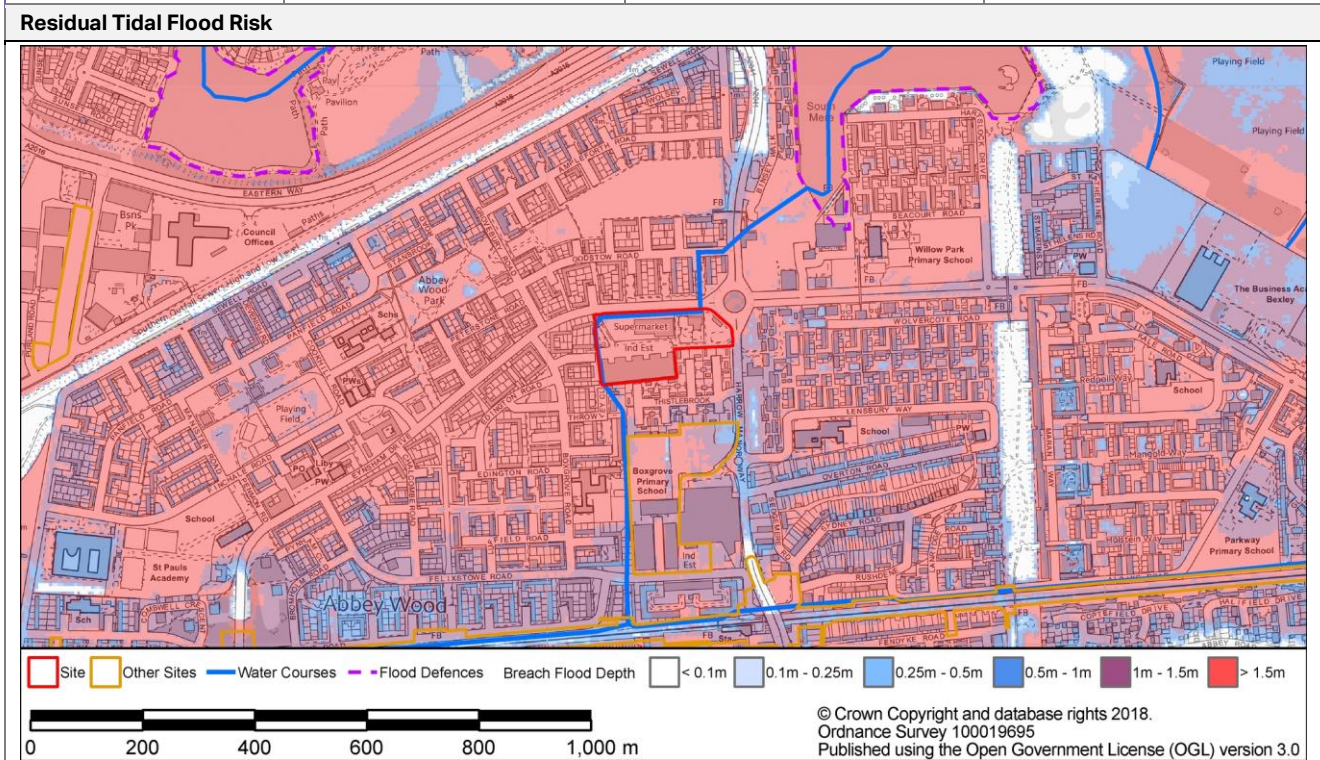
<b>Site Name: Eynsham Drive</b>					
<b>Site ID:</b>	SA10	<b>Site Address:</b>	Thamesmead and Abbey Wood	<b>Area (ha):</b>	2.38
<b>Current Use:</b>	Lidl and Thistlebrook Industrial Estate.	<b>Proposed Use:</b>	Commercial and Industrial	<b>Vulnerability Classification:</b>	Less Vulnerable

<b>Tidal Source:</b>				
<b>Flood Zone 1 (&lt;0.1% AEP):</b> 0%	<b>Flood Zone 2 (0.1% AEP):</b> 100%	<b>Flood Zone 3 (1% AEP):</b> 63%	<b>Flood Zone 3b (5%AEP):</b> 0%	<b>Area Benefiting from Defences:</b> 5.1%



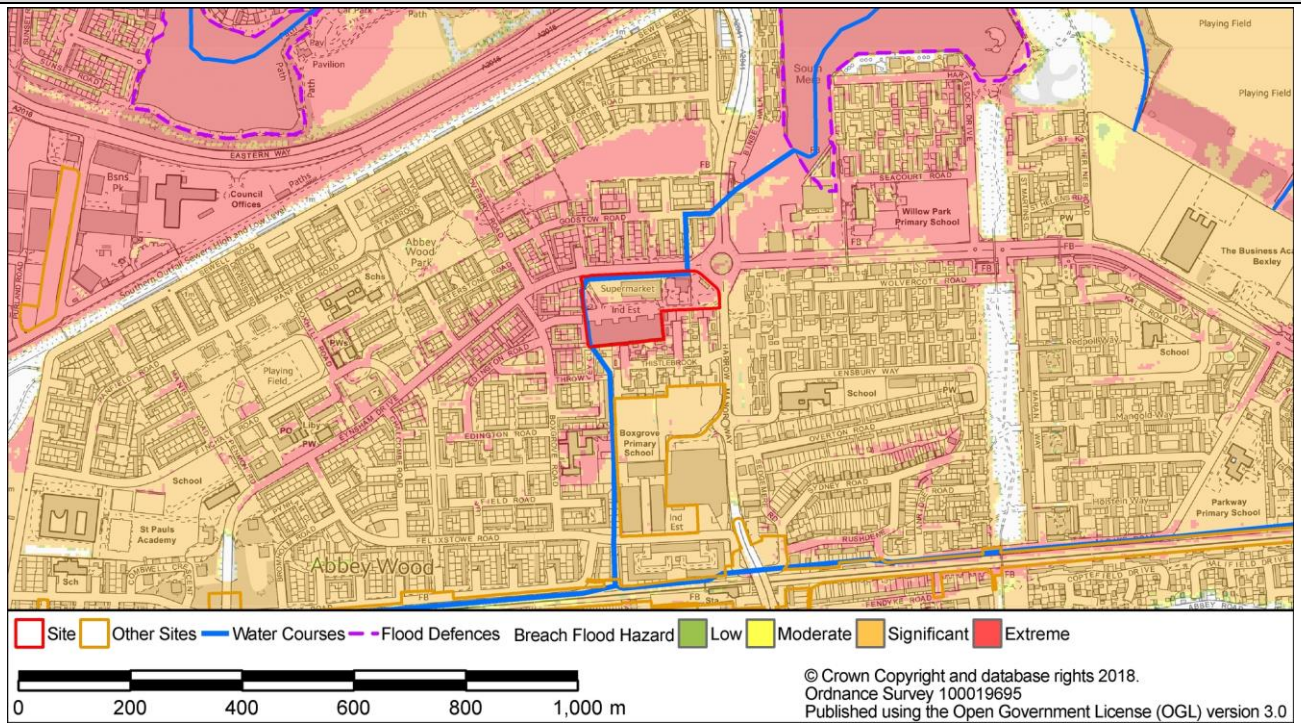
**Figure A - Flood Zones**

<b>Flood Defence Source:</b>	fluvial	<b>Upstream of Thames Barrier?</b>	No
<b>Flood Defence Type:</b>	high_ground	<b>Standard of Protection:</b>	20
<b>Flood Warning Area</b>	Tidal Thames from Erith High Street East to Woolwich Arsenal (100% Overlap)	<b>Emergency Rest Centre</b>	Boxgrove Primary School



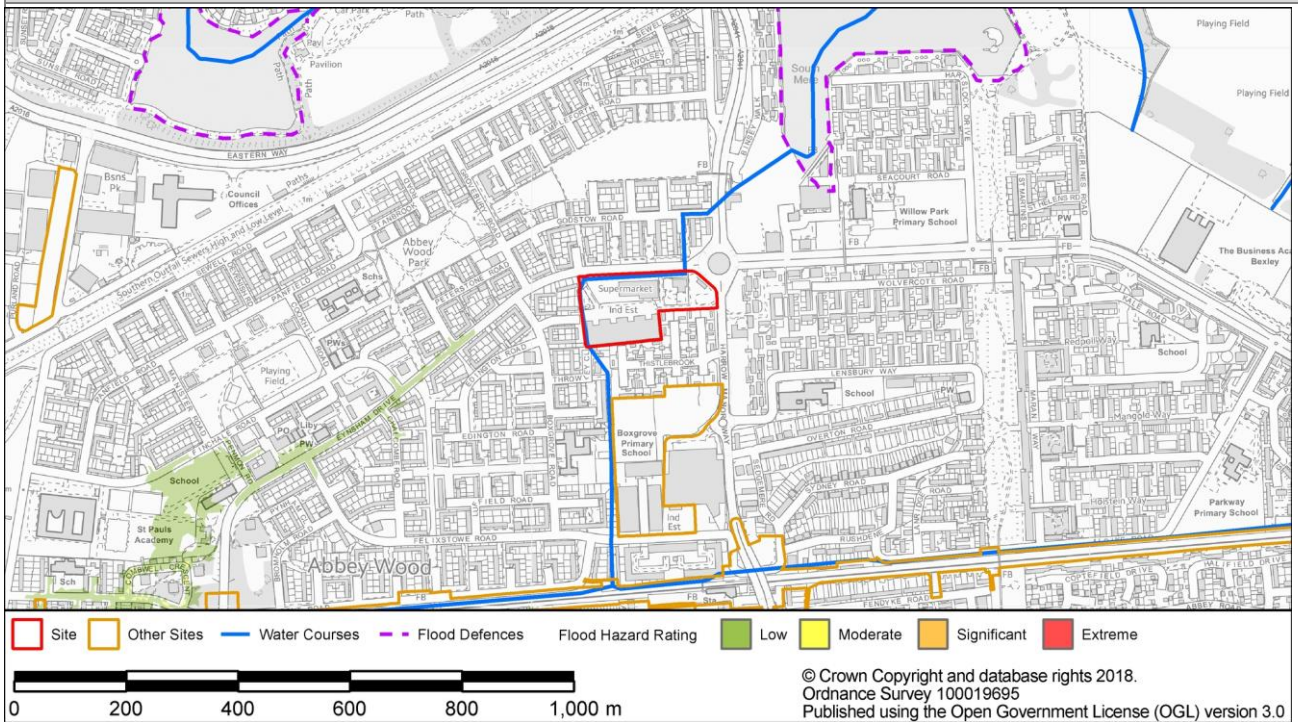
**Figure B - Maximum Flood Depth (Downriver Breach Assessment, 0.5% AEP 2115)**

**Site Name: Eynsham Drive**



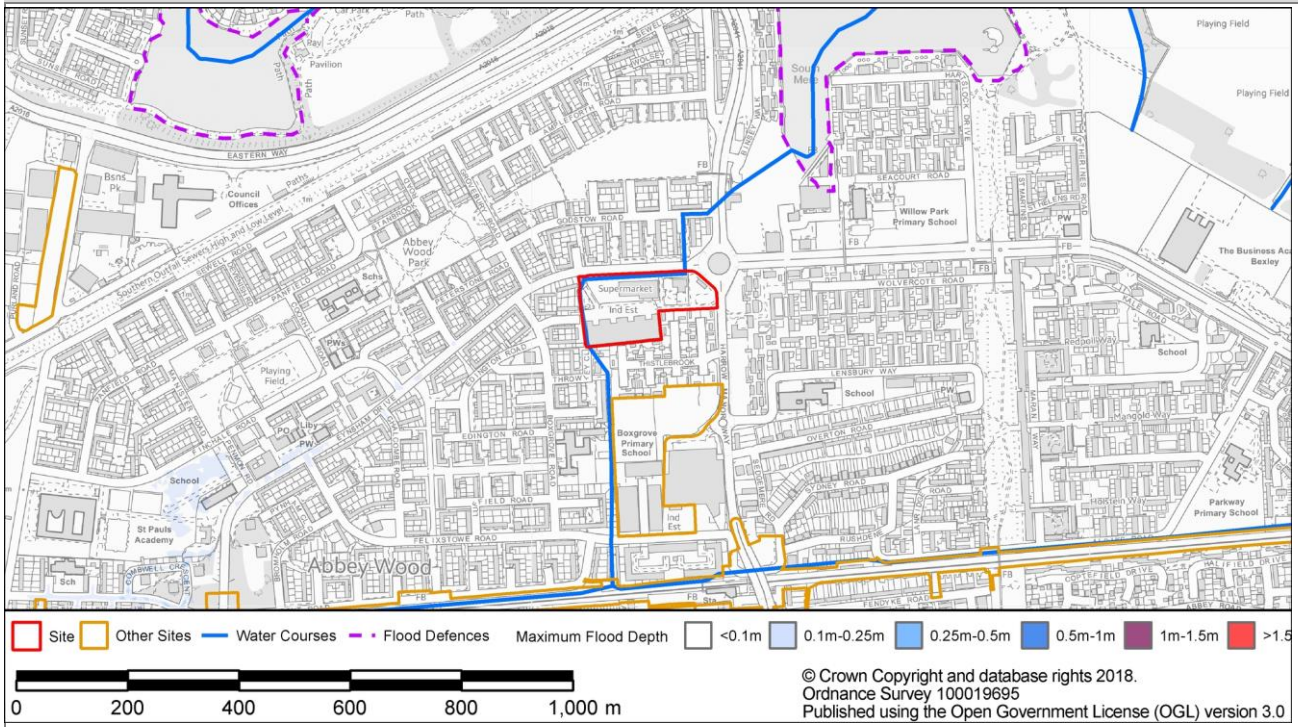
**Figure C - Maximum Flood Hazard (Downriver Breach Assessment, 0.5% AEP 2115)**

**Fluvial Flood Hazard, Depth and Velocity**

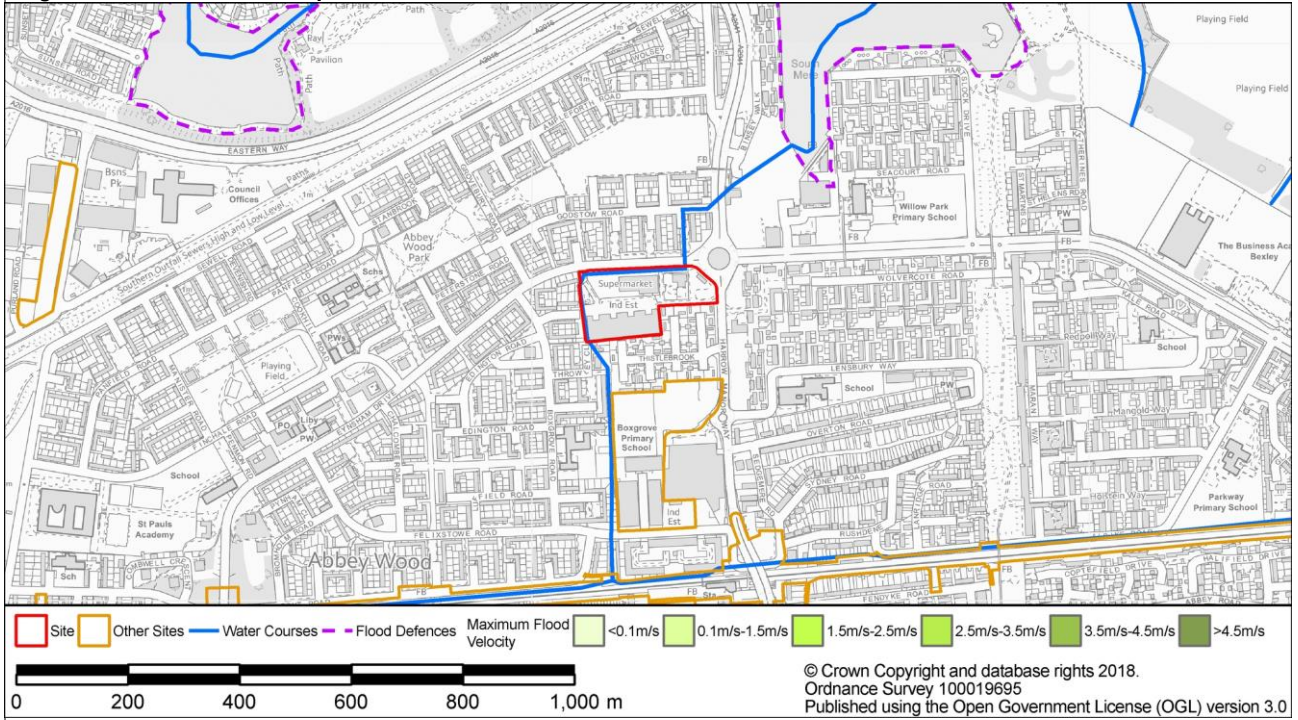


**Figure D - Flood Hazard Rating**

**Site Name: Eynsham Drive**



**Figure E – Maximum Flood Depth**



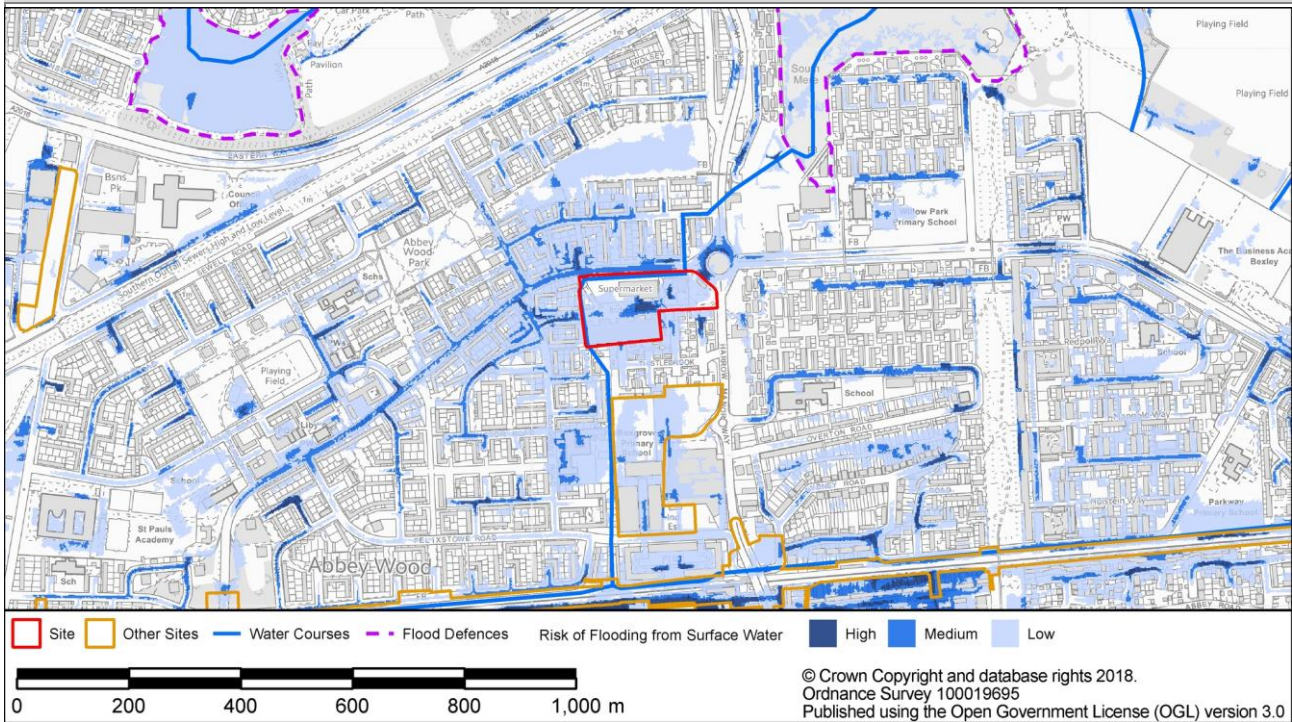
**Figure F – Maximum Flood Velocity**

**Surface Water Source**

**Risk of Flooding from Surface Water (RoFSW)**

High

**Site Name: Eynsham Drive**



**Figure G Risk of Flooding from Surface Water (RoFSW)**

<b>Critical Drainage Area</b>	Group6_001 (100% Overlap)		
<b>Groundwater Source</b>			
<b>Bedrock Geology</b>	Thanet Sand Formation	<b>Superficial Geology</b>	Alluvium - Clay, Silty, Peaty, Sandy
<b>Bedrock Aquifer Designation</b>	Secondary A (100% Overlap)	<b>Superficial Aquifer Designation</b>	Secondary (undifferentiated) (100% Overlap)
<b>Potential Groundwater Flooding Zone</b>	Zone B		
<b>Other Sources</b>			
<b>Sewer Flooding (within 4 digit postcode)</b>	Internal Flood Incidents: 2 External Flood Incidents: 8		
<b>Artificial sources</b>	The site is at risk of flooding from a breach of the Butts Canal. At the time of publishing this SFRA, the Environment Agency is in the process of developing a new model for the Marsh Dykes System. Developers should contact RB of Greenwich and the Environment Agency for the most up to date flood extent data for this catchment.		

**Site Specific Recommendations**

The site is predominantly located within Flood Zone 3. Part of the site is located in Flood Zone 2. A small proportion of the site is located in an area that benefits from flood defences and is at residual risk. Less Vulnerable uses can be located at ground level. Basements are not permitted within Flood Zone 3 and are discouraged within areas of Flood Zone 2. The EA are a statutory consultee for planning applications where development is within 20m of a main river. Permission is required from the Environment Agency for work activity within 8m of a culvert or main river. The ROFSW map shows that site and surrounding area may be at high risk of surface water flooding. An assessment of the local surface water flow paths should be made during the development of the site design, to encourage the location of buildings and more vulnerable aspects of the development away from those areas at risk of surface water ponding. Reference should be made to the Integrated Water Management Strategy for the area.

Finished floor levels should be set at whichever level is higher for fluvial or tidal flooding. For Tidal Flooding, Finished Floor Levels should either be: 300mm above the general ground level of the site or 600mm above the estimated sea level for a 1 in 200 year (0.5%AEP) event (including climate change). For Fluvial Flooding, Finished Floor Levels should either be: 300mm above the general ground level of the site or 600mm above the estimated River level for a 1 in 100 year (0.5%AEP) event (including climate change). A number of flood resistance and resilience measures can be implemented into new developments to mitigate potential flooding. Guidance on resilience measures can be found in the document 'Improving the Flood Performance of New Buildings, Flood Resilient Construction' published by The Department for Communities and Local Government (CLG).

Floodplain compensation storage should be provided for the area of the site within Flood Zone 3 associated with fluvial watercourses. Further details are provided in the Developer Guidance.

Potential overland flow paths from surface water should be determined and appropriate solutions proposed to minimise the impact of the development, whilst ensuring that flows are not diverted towards other properties elsewhere. Developers should consider using design for exceedance approaches by using urban areas and infrastructure to help manage local flooding. Flow paths should be assessed to inform the strategic location of SuDS and techniques to route flows around the edge of buildings. Careful consideration should be given to the use of fences and landscaping walls so as to prevent causing obstruction to flow routes.

Unobstructed safe access routes to and from the development should be provided. These should provide access to higher ground that is not at risk from flooding. It is strongly recommended that permanent internal access to upper floors is provided for all users of the site to provide safe refuge in a flood event. In the event of a breach in defences there is potential that dry routes to a safe location may be limited. The local area is covered by the 'Tidal Thames from Erith High Street East to Woolwich Arsenal' Environment Agency Flood Warning Area. A Flood Warning and Evacuation Plan (FWEP) must be prepared for the site, detailing how flood warning

**Site Name: Eynsham Drive**

will be provided as well as how the safety of occupants and access to/from the development will be ensured. Further details of what should be included can be found in the Developer Guidance.

Reference to the SWMP Appendix D Figure D6 identifies that (prior to the completion of a site investigation to determine precise local conditions) infiltration of surface water into the ground is uncertain for the site. Site investigations will be required prior to the development of a Drainage Strategy for the site. Development should utilise sustainable urban drainage systems (SUDS) unless there are practical reasons for not doing so. The site is located within the Group6\_001 Critical Drainage Area. The potential development must not increase flood risk to other areas within the CDA. Where an increased risk exists, developers need to provide a Drainage Strategy to demonstrate how they intend to address this, by what methods, over what timeframe and how maintenance of such works would be funded over its lifetime. This should include a consideration of SuDS in line with the London Plan 5.13 and Local Plan Policies. Surface water run-off should be managed in line with Royal Greenwich's surface water management requirements, as set out in Chapter 4 of the Developer Guidance.

**Summary**

The site is within Flood Zone 3, and has a residual risk of tidal/fluviial flooding. It also has a high surface water flood risk and could be potentially flooded by a breach of the Butts Canal. Tidal/Fluviial flood risk mitigation measures should be implemented into the site design to manage flood risk. It is recommended that effective surface water management measures are implemented, including careful site and building layout and the incorporation of SuDS, in order to reduce flooding both on the site and routing of flood water to other areas. Due to the extent of flood risk on the site, a flood warning and evacuation plan should be implemented to ensure access to and from the site. On this basis, it is likely that this site could pass the Exception Test.