



Site Name: Lovell's Wharf						
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	O         200         400         600         800         1,000 m         Ordnance Survey 100019695 Published using the Open Government License (OGL) version 3.0					
Figure D Risk of Flooding from Surface Water (RoFSW)						
Critical Drainage Area N/A Groundwater Source						
Bedrock Geology	Lambeth Group			Superficial Geology	Alluvium - Clay, Silty, Peaty, Sandy	
Bedrock Aquifer Designation	Secondary A (100% Overlap)			Superficial Aquifer Designation	Secondary (undifferentiated) (100% Overlap)	
Potential Groundwater Flooding Zone N/A						
Other Sources						
Sewer Flooding         Internal Flood Incidents: 2         External Flood Incidents: 0           (within 4 digit postcode)						
Artificial sources						
Site Specific Recommendations						
The site is located within Flood Zone 3 but is in an area that benefits from the Thames Tidal defences. The site is at residual risk of tidal flooding. More Vulnerable uses must be located on the first floor or above, with Less Vulnerable uses at ground level. Basements are not permitted on the site. 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. Buildings and other more vulnerable aspects of the development should be placed away from those areas at risk of surface water ponding. The redevelopment of the Greenwich Peninsula will provide opportunites for incorporating flood resilience measures. Further information on the redevelopment of the Peninsula can be found at- http://www.royalgreenwich.gov.uk/downloads/download/434/greenwich_peninsula_west_masterplan Finished floor levels should be set at whichever level is higher: 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). 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).						
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 tidal 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 Woolwich Arsenal to Deptford Creek' Environment Agency Flood Warning Area. A Flood Warning and Evacuation Plan (FWEP) must be prepared for the site, detailing how flood warning 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 Unsuitable 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. Where an increased risk of surface water flooding exists to surrounding sites, developers need to provide a Drainage Strategy to demonstrate how they intend to address this, by what methods, over what timeframe and						

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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 in Flood Zone 3, protected by Thames tidal defences, at residual risk of tidal flooding. It also has a high surface water flood risk. More Vulnerable uses must be located on the first floor or above, with Less Vulnerable uses at ground level. More Vulnerable uses must be located on the first floor or above, with Less Vulnerable uses at ground level. Tidal 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.