Site ID:	C1		Site Address:	Charlto	n SDL	Area (ha):	11.53
Current Use: Industrial		Proposed Use:	Industrial uses compatible with PIL (SIL) and area of search for Waste facility to include a Vacuum Waste Collection Centre and a Reuse and Recycling Centre		Vulnerability Classification:	Less Vulnerable	
Tidal Source:							
Flood Zone 1 ( <b>&lt;0.1% AEP):</b> 19%		Zone 2 AEP): 81%	Flood Zone 3 (1% AEP): 28%			Area Benefiting from Defences: 100%	
Flood Zones ar	nd Flood Defend	ces					
0100		Jetties acking the second seco	Wharf	Jetties	Jetties mes Path	Tham Wisito	Slipw Barrier Centre

Figu	re A - Flood	Zones
0	200	400

600

800

1,000 m

Flood Defence Source:	tidal	Upstream of Thames Barrier?	Yes
Flood Defence Type:	embankment	Standard of Protection:	1000
Flood Warning Area	Tidal Thames from Woolwich Arsenal to Deptford Creek (81% Overlap)	Emergency Rest Centre	Greenwich Yacht Club
Desidual Tidal Flood Dials			

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## Residual Tidal Flood Risk

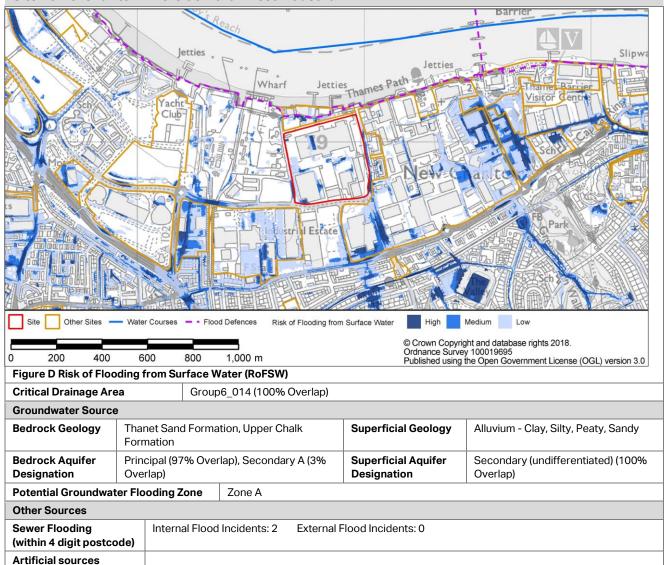
# Site Name: Charlton Riverside North West Industrial Barrie Jetties Slipw Jetties Thames Path Wharf Club New-Charlto 0.25m - 0.5m © Crown Copyright and database rights 2018. Ordnance Survey 100019695 Published using the Open Government License (OGL) version 3.0 200 400 600 800 1,000 m Figure B - Maximum Flood Depth (Downriver Breach Assessment, 0.5% AEP 2115) Barrier Jetties Slipw Jetties Thames Path Wharf Yacht Club New Charlton Park Moderate Significant Other Sites - - Flood Defences Breach Flood Hazard Low © Crown Copyright and database rights 2018. Ordnance Survey 100019695 Published using the Open Government License (OGL) version 3.0 200 400 600 800 1,000 m Figure C - Maximum Flood Hazard (Downriver Breach Assessment, 0.5% AEP 2115)

High

**Surface Water Source** 

Risk of Flooding from Surface Water (RoFSW)

#### Site Name: Charlton Riverside North West Industrial



### Site Specific Recommendations

The site is predominantly located within Flood Zone 2. A small part of the site is located in Flood Zone 1 and 3. The site benefits from the presence of the Thames Barrier Defences and is at residual risk of flooding. Less Vulnerable uses may be located at ground level. The ROFSW map shows that site and surrounding area is 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. Reference should be made to the Integrated Water Management Strategy for the area.

Less Vulnerable developments can be designed to be floodable instead of raising floor levels. This may be beneficial to help minimise the impact of the development on the displacement of floodwater and the risk of flooding to the surrounding area. 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. Safe egress points would be most appropriately located to the west of the site, along Lombard Wall 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 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\_014 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

## **Site Name: Charlton Riverside North West Industrial**

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 2 and 3, defended by the Thames tidal defence, and has a residual risk of tidal flooding. It also has a high surface water 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.