

# The London Sustainable Drainage Proforma

## Introduction

This proforma is intended to accompany a drainage strategy prepared for a planning application where required by national or local planning policy. It should be used to summarise the key outputs from the strategy to allow assessing officers at the Lead Local Flood Authority (LLFA) to quickly assess compliance with sustainable drainage (SuDS)

The proforma is divided into 4 sections, which are intended to be used as follows:

1. Site and project information - Provide summary details of the development, site and drainage
2. Proposed discharge arrangement – Summarise site ground conditions to determine potential for infiltration. Select a surface water discharge method (or mix of methods) following the hierarchical approach set out in the London Plan.
3. Drainage strategy – Prioritise SuDS measures that manage runoff as close to source as possible and contribute to the four main pillars of SuDS; amenity, biodiversity, water quality and water quantity.
4. Supporting information – Provide cross references to the page or section of the drainage strategy report where the detailed information to support each element can be found. This may be more than one reference

## Policy

Drainage strategies for developments in the London Borough of Hillingdon need to comply with the following policies on SuDS:

1. [London Borough of Hillingdon Local Plan policies EM 6 and DME1 10](#)
2. [London Plan policy 5.13](#) and draft [New London Plan policy SI13](#)
3. [The National Planning Policy Framework \(NPPF\)](#)

## Technical Guidance

- Post-development surface water discharge rate should be limited to greenfield runoff rates. Proposals for higher discharge rates should be agreed with the LLFA ahead of submission of the Planning Application. Clear evidence should be provided with the Planning Application to show why greenfield rates cannot be achieved.
- Greenfield runoff rate is the runoff rate from a site in its natural state, prior to any development. This should be calculated using one of the runoff estimation methods set out in Table 24.1 of CIRIA C753 The SuDS
- Attenuation storage volumes required to reduce post-development discharge rates to greenfield rates should be calculated using one of the runoff estimation methods set out in Table 24.1 of CIRIA C753 The SuDS
- 'CC' refers to climate change allowance from the current Environment Agency guidance.
- An operation and maintenance strategy for proposed SuDS measures should be submitted with the Planning Application and include the details set out in section 32.2 of CIRIA C753 The SuDS Manual. The manual should be site-specific and not directly reproduce parts of The SuDS Manual.
- Other useful sources of guidance are:
  - [o London Borough of Hillingdon sustainable drainage requirements](#)
  - [o The London Plan Sustainable Design and Construction SPG](#)
  - [o DEFRA non-statutory technical standards for sustainable drainage](#)
  - [o Environment Agency climate change guidance](#)
  - [o CIRIA C753 The SuDS Manual](#)

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	Former Regal Cinema
	Address & post code	Former Regal Cinema, 233 High Street, Uxbridge, UB8 1LD
	OS Grid ref. (Easting, Northing)	E 505876 N 183968
	LPA reference (if applicable)	Pre-app ref 3638//PRC/2024/208
	Brief description of proposed work	Change of use of the listed building to a banqueting suite and new four storey hotel
	Total site Area	3221 m <sup>2</sup>
	Total existing impervious area	3221 m <sup>2</sup>
	Total proposed impervious area	3137 m <sup>2</sup>
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	No.
	Existing drainage connection type and location	
Designer Name	Mark Hamilton	

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility		
	Superficial geology classification	Langley Silt Member	
	Bedrock geology classification	London Clay Formation	
	Site infiltration rate	m/s	
	Depth to groundwater level	m below ground level	
	Is infiltration feasible?	No.	
	2b. Drainage Hierarchy		
		Feasible (Y/N)	Proposed (Y/N)
	1 store rainwater for later use	Y	Y
	2 use infiltration techniques, such as porous surfaces in non-clay areas	N	N
	3 attenuate rainwater in ponds or open water features for gradual release	N	N
	4 attenuate rainwater by storing in tanks or sealed water features for gradual release	Y	Y
	5 discharge rainwater direct to a watercourse	N	N
	6 discharge rainwater to a surface water sewer/drain	Y	Y
	7 discharge rainwater to the combined sewer.	N	N
2c. Proposed Discharge Details			
Proposed discharge location	Existing TW SW Sewer in High Street		
Has the owner/regulator of the			

3. Drainage Strategy	Designer Position		Graduate Civil Engineer		
	Designer Company		Nimbus Engineering Consultants		
	<b>3a. Discharge Rates &amp; Required Storage</b>				
		Greenfield (GF) runoff rate (l/s)	Existing discharge rate (l/s)	Required storage for GF rate (m <sup>3</sup> )	Proposed discharge rate (l/s)
	Qbar	0.684			
	1 in 1	71.5	71.5	20.3	0.6
	1 in 30	174.3	174.3	20.3	0.6
	1 in 100	226.4	226.4	20.3	0.6
	1 in 100 + CC			20.3	0.6
	Climate change allowance used		40%		
	3b. Principal Method of Flow Control		35mm Orifice Flow Control		
	<b>3c. Proposed SuDS Measures</b>				
		Catchment area (m <sup>2</sup> )	Plan area (m <sup>3</sup> )	Storage vol. (m <sup>3</sup> )	
	Rainwater harvesting	TBC		TBC	
	Infiltration systems	0		0	
Green roofs	0	0	0		
Blue roofs	0	257	20.3		
Filter strips	0	0	0		
Filter drains	0	0	0		
Bioretention / tree pits	0	0	0		
Pervious pavements	0	184	0		
Swales	0	0	0		

4. Supporting Information	discharge location been consulted?	No.
	<b>4a. Discharge &amp; Drainage Strategy</b>	Page/section of drainage report
	Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	C3565-R2: Section 1.4
	Drainage hierarchy (2b)	C3565-R2: Section 5
	Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	C3565-R2: Section 6
	Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	C3565-R2: Section 6/Appendix B
	Proposed SuDS measures & specifications (3b)	C3565-R2: Section 6/Appendix A
	<b>4b. Other Supporting Details</b>	Page/section of drainage report
	Detailed Development Layout	C3565-R2: Appendix A - C3565-03
	Detailed drainage design drawings, including exceedance flow routes	C3565-R2: Appendix A
Detailed landscaping plans		
Maintenance strategy	C3565-R2: Section 7/Appendix A	
Demonstration of how the proposed SuDS measures improve:		

Basins/ponds	0	0	0
Attenuation tanks	0		0
<b>Total</b>	<b>0</b>	<b>441</b>	<b>20.3</b>

a) water quality of the runoff?	C3565-R2: Section 5/6
b) biodiversity?	C3565-R2: Section 5/6
c) amenity?	C3565-R2: Section 5/6