

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	SWDS 5257
	Address & post code	28-30 Avenue Road, Primrose Hill, London, NW8 6BU.
	OS Grid ref. (Easting, Northing)	E 527273 N 183705
	LPA reference (if applicable)	
	Brief description of proposed work	Construction of a two storey dwelling
	Total site Area	7155.3 m ²
	Total existing impervious area	745.7 m ²
	Total proposed impervious area	2614.2 m ²
	Is the site in a surface water flood risk catchment (ref. local Surface Water Management Plan)?	No
	Existing drainage connection type and location	Manhole 2701 as per thames water asset plan to public sewer
	Designer Name	Sam Lee
	Designer Position	Flood risk and drainage engineer
Designer Company	Royal Haskoning DHV	

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility		
	Superficial geology classification	Clay and stones	
	Bedrock geology classification	London clay comprising of clay, silt and sand.	
	Site infiltration rate	NA	m/s
	Depth to groundwater level	NA	m below ground level
	Is infiltration feasible?	No	
	2b. Drainage Hierarchy		
		<i>Feasible (Y/N)</i>	<i>Proposed (Y/N)</i>
	1 store rainwater for later use	Y	N
	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.	Y	N
2c. Proposed Discharge Details			
Proposed discharge location	South end of site as per ambiantal drawing		
Has the owner/regulator of the discharge location been consulted?	NO		

3. Drainage Strategy	3a. Discharge Rates & Required Storage				
		Greenfield (GF) runoff rate (l/s)	Existing discharge rate (l/s)	Required storage for GF rate (m ³)	Proposed discharge rate (l/s)
	Qbar				
	1 in 1	0.95	NA	NA	NA
	1 in 30	2.56	NA	NA	NA
	1 in 100	3.55	NA	NA	NA
	1 in 100 + CC			121.62	1.1
	Climate change allowance used		40%		
	3b. Principal Method of Flow Control		Hydrobrake		
	3c. Proposed SuDS Measures				
			Catchment area (m ²)	Plan area (m ²)	Storage vol. (m ³)
	Rainwater harvesting		0		0
	Infiltration systems		0		0
	Green roofs		0	0	0
	Blue roofs		0	0	0
	Filter strips		0	0	0
	Filter drains		0	0	0
	Bioretention / tree pits		0	0	0
	Pervious pavements		1000	430	60.72
	Swales		0	0	0
Basins/ponds		0	0	0	
Attenuation tanks		911		60.9	
Total		1911	430	121.62	

4. Supporting Information	4a. Discharge & Drainage Strategy	Page/section of drainage report
	Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	5
	Drainage hierarchy (2b)	17
	Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	Appendix III
	Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Appendix II
	Proposed SuDS measures & specifications (3b)	Section 5
	4b. Other Supporting Details	Page/section of drainage report
	Detailed Development Layout	Appendix I
	Detailed drainage design drawings, including exceedance flow routes	31
	Detailed landscaping plans	Appendix I
	Maintenance strategy	Appendix IV
	Demonstration of how the proposed SuDS measures improve:	
	a) water quality of the runoff?	21
	b) biodiversity?	NA
	c) amenity?	NA