

GREATER LONDON AUTHORITY



	Project / Site Name (including sub- catchment / stage / phase where appropriate)	- Chester Road Hostel	
	Address & post code	Chester Road Hostel 2 Chester Road London N19 5BP	
	OS Grid rof (Easting Northing)	E 528957	
s		N 186542	
etails	LPA reference (if applicable)	2020/3461/P	
l. Project & Site De	Brief description of proposed work	Redevelopment of the site to include demolition of existing hostel building and the erection of a new hostel building (sui generis)	
•••	Total site Area	2,282 m ²	
	Total existing impervious area	1,720 m	
	Total proposed impervious area	1,460 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	Combined connection to Chester Road	
	Designer Name	Richard Holmes	
	Designer Position	Associate Director	
	Designer Company	Pell Frischmann	

	2a. Infiltration Feasibility				
	Superficial geology classification	Made Groun		l	
	Bedrock geology classification Lon		don Clay Formation		
	Site infiltration rate	tration rate 1.02 x 10-8 r		n/sec m/s	
	Depth to groundwater level	1.84 m below ground lev		w ground level	
	Is infiltration feasible?		No		
	2b. Drainage Hierarchy				
			Feasible (Y/N)	Proposed (Y/N)	
	1 store rainwater for later use		Ν	Ν	
י הואכוש וואכוש ה	2 use infiltration techniques, such as porous surfaces in non-clay areas		Ν	N	
	3 attenuate rainwater in ponds or open water features for gradual release		Ν	N	
acodo I	4 attenuate rainwater by storing in tanks or sealed water features for gradual release		Y	Y	
- i	5 discharge rainwater direct to a watercourse		Ν	Ν	
	6 discharge rainwater to a surface water sewer/drain		Ν	Ν	
	7 discharge rainwater to the combined sewer.		Y	Y	
	2c. Proposed Discharge Details				
	Proposed discharge location	Public combined sewer in Chester Road		Chester Road	
	Has the owner/regulator of the discharge location been consulted?	TW approval DS6078800-DTS 66860			



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	3a. Discharge Rates & Required Storage					
		Greenfield (GF) runoff rate (l/s)	Existing discharge rate (I/s)	Required storage for GF rate (m ³)	Proposed discharge rate (l/s)	
	Qbar		\ge	\geq	\geq	
	1 in 1		23.9			
	1 in 30		71.7			
	1 in 100		227.1			
	1 in 100 + CC		\ge	109.2	5	
	Climate change allowance used		40%			
rategy	3b. Principal Method of Flow Control		Hydrobrake			
e St	3c. Proposed SuDS Measures					
Drainag			Catchment area (m²)	Plan area (m²)	Storage vol. (m ³)	
З. Г	Rainwater harvesting		0	\ge	0	
	Infiltration systems		0	\geq	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		0	0	0	
	Swales		0	0	0	
	Basins/ponds		0	0	0	
	Attenuation tanks		1,460	\geq	109.2	
	Total		1460	0	109.2	

	4a. Discharge & Drainage Strategy	Page/section of drainage report		
ting Information	Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	Site Investigation Phase 2 report - SAS 19/30378-1		
	Drainage hierarchy (2b)	Followed		
	Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	S106 issued to TW awaiting approva		
	Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	Attached		
	Proposed SuDS measures & specifications (3b)	Green Roof and Attenuation		
por	4b. Other Supporting Details	Page/section of drainage report		
Sup	Detailed Development Layout	Refer to WGI plans		
4.	Detailed drainage design drawings, including exceedance flow routes	Attached		
	Detailed landscaping plans	Refer to WGI plans		
	Maintenance strategy	Attached		
	Demonstration of how the proposed SuDS measures improve:			
	a) water quality of the runoff?	Vater filters substrate before releas		
	b) biodiversity?	eco friendly habitat		
	c) amenity?	aesthetic appreciation		