

1. Project & Site Details	Project / Site Name (including sub-catchment / stage / phase where appropriate)	Uplands Business Park (outline site)
	Address & post code	Blackhorse Ln, London E17 5QN
	OS Grid ref. (Easting, Northing)	E 535695 N 189846
	LPA reference (if applicable)	
	Brief description of proposed work	Redevelopment of Uplands business park into light industry and residential flats
	Total site Area	39000 m ²
	Total existing impervious area	39000 m ²
	Total proposed impervious area	39000 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	Pumped/gravity connection to sewer under Goldsmith Street
	Designer Name	Luke Boustead
	Designer Position	Senior Engineer
	Designer Company	Meinhardt

2. Proposed Discharge Arrangements	2a. Infiltration Feasibility		
	Superficial geology classification	Alluvium - Clay, Silt, S	
	Bedrock geology classification	London Clay	
	Site infiltration rate	1.12x10	m/s
	Depth to groundwater level	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	N	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	Y	Y
	6 discharge rainwater to a surface water sewer/drain	N	N
	7 discharge rainwater to the combined sewer.		
2c. Proposed Discharge Details			
Proposed discharge location	Public surface water sewer under Goldsmith Street		
Has the owner/regulator of the discharge location been consulted?	Yes		

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	6.5	 	 	
1 in 1				6.5
1 in 30				6.5
1 in 100				6.5
1 in 100 + CC	 	 		6.5
Climate change allowance used		40%		
3b. Principal Method of Flow Control		Vortex flow control		
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	1998	
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	0	 	3162	
Total	0	0	5160	

3. Drainage Strategy

4a. Discharge & Drainage Strategy		Page/section of drainage report
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results		Detailed in section 8.2
Drainage hierarchy (2b)		Detailed in section 8.2
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location		Detailed in section 8.2
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations		Detailed in section 8.2 and Appendix
Proposed SuDS measures & specifications (3b)		Detailed in section 8.2
4b. Other Supporting Details		Page/section of drainage report
Detailed Development Layout		Detailed in Appendix
Detailed drainage design drawings, including exceedance flow routes		Detailed in Appendix
Detailed landscaping plans		Detailed in Appendix
Maintenance strategy		Detailed in Section 9
Demonstration of how the proposed SuDS measures improve:		Detailed in section 8.2
a) water quality of the runoff?		
b) biodiversity?		
c) amenity?		

4. Supporting Information

Appendix E – Architects Plans

ILLUSTRATIVE PLAN LOCATION





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