

1. Project & Site Details	
Project / Site Name (including sub-catchment / stage / phase where appropriate)	CHANGE OF USE FROM EXISTING DWELLING TO VETERINARY CLINIC WITH PROPOSED LOFT CONVERSION & EXTENSIONS
Address & post code	54 PEMBROKE RD RUISLIP HA4 8NF
OS Grid ref. (Easting, Northing)	E 509683 N 187155
LPA reference (if applicable)	
Brief description of proposed work	CHANGE OF USE, SINGLE STOREY REAR / SIDE EXTENSION & LOFT CONVERSION / FLAT ROOF DORMER
Total site Area	m ² 941
Total existing impervious area	m ²
Total proposed impervious area	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	MAINS - PEMBROKE ROAD
Designer Name	GREG BASMADJIAN
Designer Position	DIRECTOR
Designer Company	KVB ARCHITECTS LTD

2. Proposed Discharge Arrangements		
2a. Infiltration Feasibility		
Superficial geology classification	CLAY	
Bedrock geology classification	LAMETH/1 GROUP (CLAY/SILT/SAND)	
Site infiltration rate	m/s	
Depth to groundwater level	m below ground level	
Is infiltration feasible?	NO	
2b. Drainage Hierarchy		
1. store rainwater for later use	Feasible (Y/N)	Proposed (Y/N)
2. use infiltration techniques, such as porous surfaces in non-clay areas	N	/
3. attenuate rainwater in ponds or open water features for gradual release	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	/
6. discharge rainwater to a surface water sewer/drain	N	/
7. discharge rainwater to the combined sewer.	N	/
2c. Proposed Discharge Details		
Proposed discharge location	REAR GARDEN.	
Has the owner/regulator of the discharge location been consulted?	YES.	

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)
Q _{bar}				
1 in 1				
1 in 30		2.3		
1 in 100				
1 in 100 + CC		2.3		
Climate change allowance used		30 %		
3b. Principal Method of Flow Control				
3c. Proposed SUDS Measures				
	Catchment area (m ²)	Plan area (m ³)	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	0	0	0	
Swales	0	0	0	
Basins/ponds	0	0	0	
Attenuation tanks	0		4.8	
Total	0	0	0	

4. Supporting Information	
4a. Discharge & Drainage Strategy	Page/section of drainage report
Infiltration feasibility (2a) – geotechnical factual and interpretive reports, including infiltration results	
Drainage hierarchy (2b)	
Proposed discharge details (2c) – utility plans, correspondence / approval from owner/regulator of discharge location	
Discharge rates & storage (3a) – detailed hydrologic and hydraulic calculations	
Proposed SUDS measures & specifications (3b)	REFER TO WAYIN STRM WATER MANAGEMENT DOC.
4b. Other Supporting Details	Page/section of drainage report
Detailed Development Layout	KVB DWG 112 & 114
Detailed drainage design drawings, including exceedance flow routes	KVB DWG 114 & WAYIN STRM WATER MANAGEMENT DOC & DETAILS.
Detailed landscaping plans	KVB DWG 112
Maintenance strategy	SITE HAS ESTABLISHED PLANTING.
Demonstration of how the proposed SUDS measures improve:	
a) water quality of the runoff?	
b) biodiversity?	N/A.
c) amenity?	LAWN / GARDEN AREA.