SuDS Flows and Volumes - LLFA Technical Assessment Pro-forma

This form identifies the information required by Oxfordshire County Council LLFA to enable technical assessment of flows and volumes determined as part of drainage I SuDS calculations.

Note: * means delete as appropriate; Numbers in brackets refer to accompanying notes.

SITE DETAILS		
1.1	Planning application reference 21/02286/F Land Northwest of Launton Roundabout	
1.2	Site name Adjoining Skimmingdish Lane	
1.3	Total application site area (1	
1.4	Is the site located in a CDA or LFRZ	
1.5	Is the site located in a SPZ YN	
VOLUME AND FLOW DESIGN INPUTS		
2.1	Site area which is positively drained by SuDS (?	
2.2	Impermeable area drained pre development (3	
2.3	Impermeable area drained post development (31 7.5.7	
2.4	Additional impermeable area (2.3 minus 2.2)	
2.5	Predevelopment use († Greenfield / Brownfield / Mixed*	
2.6	Method of discharge (5 Infiltration / waterbody / storm sewer/ combined sewer*	
2.7	Infiltration rate (where applicable)	
2.8	Influencing factors on infiltration	
2.9	Depth to highest known ground watertable	
2.10	Coefficient of funding (CV) (7	
2.11	Justification for Cv used only areas of impermeable surface used in calcu	
2.12	FEH rainfall data used (Note that FSR is no longer the preferred rainfall calculation method)	
2.13	Will storage be subject to surcharge by elevated water levels in watercourse/ sewer Y/N site in los year flood plants.	
2.14	Invert level at outlet (invert level of final flow control) 68:335 mAOD	
2.15	Design level used for surcharge water level at point of discharge (141	

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CALCULATION OUTPUTS

Sections 3 and 4 refer to site where storage is provided by attenuation and I or partial infiltration. Where all flows are infiltrated to ground omit Sections 3 -5 and complete Section 6.

3.0	Defining rate of runoff from the site
3.2	Max.discharge for 1 in 1 year rainfall
3.2	Max.discharge for Qmed rainfall
3.3	Max.dischargefor1in30yearrainfall
3.4	Max. discharge for 1 in 100 year rainfall
3.5	Max.dischargefor1in100yearplus40%CC
4.0	Attenuation storage to manage peak runoff rates from the site
4.1	Storage - 1 in 1 year \\\(\frac{15.5}{m^3} \\ \text{m}^3 \ \text{m}^3 \ \mathred{m}^3 \ \mathred{m}^2 \] (of developed impermeable area)
4.2	Storage -1in 30 year (7 37:9 m³ 0.422m3/m²
4.3	Storage -1in 100 year (8) 51:4m ³ e:::29m3/m2
4.4	Storage-1in100 year plus 40%CC (9) 77:4 m39:544 m3/m2
5.0	Controlling volume of runoff from the site
5.1	Pre development runoff volume(b)
5.2	Post development runoff volume (unmitigated) (b) m³ for the site
5.3	Volume to be controlled/does not leave site (5.2-5.1) m ³ for the site
5.4	Volume control provided by Interception losses(11)m3 Rain harvesting(12)m3 Infiltration (even at very low rates)m3 Separate area designated as long term storage(13)m3
5.5	Total volume control (sum of inputs for 5.4)m3 (15)
6.0	Site storage volumes (full infiltration only)
6.1	Storage - 1in 30 year (7 37.9 m ³ 0.022m ³ /m ² (of developed impermeable area)
6.2	Storage - 1 in 100 year plus CC (9 77.A m3 9.044m3/m2