Clancy Consulting Ltd 19 Upper King Street, Norwich, NR3 1RB.	Project Camden Hub Hotel, Camden High Street				Job no. 8/2022	
	Calcs for 1 in 1 Year 15 min Event				Start page no./Revision 1	
	Calcs by RB	Calcs date 15/08/2019	Checked by LP	Checked date 15/08/2019	Approved by LP	Approved date 15/08/2019

DESIGN RAINFALL In accordance with the Wallingford Procedure Tedds calculation version 2.0.01 **Design rainfall intensity** Location of catchment area London Storm duration D = **15** min Return period Period = 1 yr Ratio 60 min to 2 day rainfall of 5 yr return period r = **0.440** 5-year return period rainfall of 60 minutes duration M5 60min = 20.0 mm Increase of rainfall intensity due to global warming $p_{climate} = 0 \%$ Factor Z1 (Wallingford procedure) Z1 = 0.65 Rainfall for 15min storm with 5 year return period M5_15min_i = Z1 × M5_60min = **12.9** mm Factor Z2 (Wallingford procedure) Z2 = 0.62 Rainfall for 15min storm with 1 year return period $M1_15min = Z2 \times M5_15min_i = \textbf{8.0} mm$ Design rainfall intensity I_{max} = M1_15min / D = **31.9** mm/hr Maximum surface water runoff Catchment area $A_{catch} = 620 \text{ m}^2$ p = **100** % Percentage of area that is impermeable Maximum surface water runoff $Q_{max} = A_{catch} \times p \times I_{max} = 5.5 \text{ I/s}$