

Appendix B

Calculations



B.1 Climate Change Allowance

In the following calculations, a climate change allowance of 40% has been made which corresponds with the "Upper Limit" of the DEFRA guidance (refer to the table below):

Range	Total potential change anticipated for 2010-2039	Total potential change anticipated for 2040-2059	Total potential change anticipated for 2060-2115
Upper end	10%	20%	40%
Central	5%	10%	20%

B.2 Existing site surface water runo  rates

It is considered that all of the parcels are effectively greenfield in the current situation. In accordance with the method outlined in the IUK Centre for Ecology & Hydrology's Flood Estimate Handbook (FEH) the existing runo  for the site is calculated from the formula:

$$Q_{MED} = 8.3062 \times AREA^{0.851} \times 0.1536^{(1000/SAAR)} \times FARL^{3.4451} \times 0.046^{(BFIHOST \times BFIHOST)} \times UAF$$

where AREA is the site area in km2, SAAR is the Standard Average Annual Rainfall in mm, FARL is an index for assessing the relative importance of flood attenuation due to reservoirs and lakes, BFIHOST is an index of the permeability of the catchment and UAF is the urban adjustment factor for the catchment.

For this site, the following site characteristics have been used in the calculation:

- SAAR = 589mm
- BFIHOST = 0.953
- FARL = 1.000
- UAF = 1.286

The equation therefore simplifies to $Q_{MED} = 0.0271 \times AREA^{0.851}$

- The following Hydrological Growth Curve Factors for the area have been used:

$Q_1 = 0.87, Q_{10} = 1.65, Q_{30} = 2.45 \text{ and } Q_{100} = 3.56$

B.3 Existing Runo  Summary

The existing runo  values are summarised in Table B.1 adjacent:

Catchment	Developable Area	Q_{med}	Q_1	Q_{10}	Q_{30}	Q_{100}
Res01	40,700 m2	1.78 l/s	1.55 l/s	2.93 l/s	4.35 l/s	6.32 l/s
Res02	9,500 m2	0.51 l/s	0.45 l/s	0.85 l/s	1.26 l/s	1.83 l/s
Res03	2,000 m2	0.14 l/s	0.12 l/s	0.23 l/s	0.33 l/s	0.49 l/s
Res04	36,300 m2	1.61 l/s	1.40 l/s	2.66 l/s	3.95 l/s	5.74 l/s
Res05	53,300 m2	2.23 l/s	1.94 l/s	3.69 l/s	5.47 l/s	7.95 l/s
Res06	27,100 m2	1.26 l/s	1.09 l/s	2.07 l/s	3.08 l/s	4.47 l/s
Res07	2,500 m2	0.17 l/s	0.14 l/s	0.27 l/s	0.41 l/s	0.59 l/s
Res08	168,500 m2	5.95 l/s	5.18 l/s	9.82 l/s	14.58 l/s	21.18 l/s
Res09	25,600 m2	1.20 l/s	1.04 l/s	1.98 l/s	2.93 l/s	4.26 l/s
Res10	1,100 m2	0.08 l/s	0.07 l/s	0.14 l/s	0.20 l/s	0.29 l/s
Res11	1,200 m2	0.09 l/s	0.08 l/s	0.15 l/s	0.22 l/s	0.32 l/s
Res12	68,400 m2	2.76 l/s	2.40 l/s	4.56 l/s	6.77 l/s	9.84 l/s
Res13	189,600 m2	6.58 l/s	5.72 l/s	10.85 l/s	16.12 l/s	23.42 l/s
Res14	50,300 m2	2.13 l/s	1.85 l/s	3.51 l/s	5.21 l/s	7.57 l/s
Res15	2,300 m2	0.15 l/s	0.13 l/s	0.25 l/s	0.38 l/s	0.55 l/s
Res16	69,600 m2	2.80 l/s	2.44 l/s	4.63 l/s	6.87 l/s	9.98 l/s
Residential Total	748,000 m2	29.44 l/s	25.61 l/s	48.57 l/s	72.13 l/s	104.80 l/s
EMP01	5,500 m2	0.30 l/s	0.26 l/s	0.50 l/s	0.74 l/s	1.07 l/s
EMP02	16,400 m2	0.80 l/s	0.70 l/s	1.32 l/s	1.96 l/s	2.85 l/s
EMP03	60,640 m2	2.50 l/s	2.18 l/s	4.13 l/s	6.13 l/s	8.90 l/s
Employment Land Total	154,000 m2	6.50 l/s	5.66 l/s	10.73 l/s	15.68 l/s	23.14 l/s
LC01	11,600 m2	0.61 l/s	0.53 l/s	1.01 l/s	1.50 l/s	2.17 l/s
LC02	7,600 m2	0.43 l/s	0.37 l/s	0.70 l/s	1.04 l/s	1.52 l/s
LC03	5,000 m2	0.30 l/s	0.26 l/s	0.49 l/s	0.73 l/s	1.06 l/s
LC04	8,800 m2	0.48 l/s	0.42 l/s	0.80 l/s	1.18 l/s	1.72 l/s
LC05	7,100 m2	0.40 l/s	0.35 l/s	0.66 l/s	0.98 l/s	1.43 l/s
LC06	5,400 m2	0.32 l/s	0.28 l/s	0.53 l/s	0.78 l/s	1.13 l/s
Local Centre Total	45,500 m2	2.54 l/s	2.21 l/s	4.19 l/s	6.22 l/s	9.03 l/s
Edu01	22,200 m2	1.06 l/s	0.92 l/s	1.75 l/s	2.60 l/s	3.77 l/s
Edu02	20,100 m2	0.97 l/s	0.85 l/s	1.61 l/s	2.39 l/s	3.47 l/s
Fle01	105,000 m2	3.98 l/s	3.46 l/s	6.56 l/s	9.75 l/s	14.16 l/s
Total	1,136,740 m2	45.59 l/s	39.66 l/s	75.22 l/s	111.69 l/s	162.29 l/s

Table B.1 Existing runoff values

B.4 Proposed Surface Water Runoff Rates

It is proposed to dispose of surface water via infiltration wherever possible to help recharge the existing groundwater aquifer. The design has been split into three components - the individual residential plots, the employment land on-site car parks and the wider highways and footpath areas. The infiltration test locations and results are discussed in Section 3.2.4 and Appendix G.

B.5 Residential Plots

The residential plots will have individual soakaways to dispose of surface water and have been sized to accommodate the 1 in 100 year + 40% climate change event. Figure B.1 illustrates the assumptions made regarding the plot hardstanding areas and disposal locations for the residential plots. In addition to this, the infiltration rate at the base of the soakaway has been set at 1 x 10⁻⁶ m/s to mitigate potential silting up of the soakaway over it's lifetime.

Full calculations are contained in pages 36 to 71 and the results are summarised in Table B.2 below:

Catchment	No. of Dwellings	Nearest Infiltration Test	Recommended Infiltration Rate (m/s)	Recommended Infiltration Rate (m/hr)	Soakaway Dimensions	Void Ratio	Soakaway Volume	Total House Soakaway Volume
Res01	175	TP-068	1.43E-05	0.0515	3.4 x 3.4 x 2.0m	30%	6.94 m3	1,214 m3
Res02	40	TP-068	1.43E-05	0.0515	3.4 x 3.4 x 2.0m	30%	6.94 m3	277 m3
Res03	10	TP-068	1.43E-05	0.0515	3.4 x 3.4 x 2.0m	30%	6.94 m3	69 m3
Res04	155	ST2	1.35E-05	0.0486	3.4 x 3.4 x 2.0m	30%	6.94 m3	1,075 m3
Res05	230	TP-039	4.27E-05	0.1537	3.1 x 3.1 x 2.0m	30%	5.77 m3	1,326 m3
Res06	120	TP-105	2.27E-05	0.0817	3.3 x 3.3 x 2.0m	30%	6.53 m3	784 m3
Res07	12	TP-131	8.17E-06	0.0294	3.2 x 3.2 x 2.5m	30%	7.68 m3	92 m3
Res08	730	TP-010	1.78E-05	0.0641	3.4 x 3.4 x 2.0m	30%	6.94 m3	5,063 m3
Res09	115	ST4	1.47E-05	0.0529	3.4 x 3.4 x 2.0m	30%	6.94 m3	798 m3
Res10	5	TP-131	8.17E-06	0.0294	3.2 x 3.2 x 2.5m	30%	7.68 m3	38 m3
Res11	5	TP-131	8.17E-06	0.0294	3.2 x 3.2 x 2.5m	30%	7.68 m3	38 m3
Res12	300	ST1	1.46E-05	0.0526	3.4 x 3.4 x 2.0m	30%	6.94 m3	2,081 m3
Res13	821	ST5	1.39E-05	0.0500	3.4 x 3.4 x 2.0m	30%	6.94 m3	5,694 m3
Res14	220	TP-045	9.98E-05	0.3593	2.7 x 2.7 x 2.0m	30%	4.37 m3	962 m3
Res15	10	TP-139	1.12E-04	0.4032	2.6 x 2.6 x 2.0m	30%	4.06 m3	41 m3
Res16	252	TP-191	9.23E-05	0.3323	2.7 x 2.7 x 2.0m	30%	4.37 m3	1,102 m3
3,200								20,656 m3

Table B.2 Residential Plots Soakaway Summary

B.6 Local Centre Parcels

The Local Centre parcels will be more densely developed and so it will be difficult to provide sufficient space for on-site infiltration. It has therefore been assumed that 75% of these parcels will be hardstanding and will drain to the main infiltration basins.

B.7 Education Parcels

The Education parcels have been assumed to have 30% of the area given over to buildings which will drain to the main infiltration basins. It has been assumed that the remaining areas will be either soft landscaping or outdoor areas which will be laid as permeable paving.

B.8 Flexible Parcel

The Flexible parcel has been assumed to have 20% of the area given over to hardstanding. In the event of this becoming a residential parcel this would be reduced to 15%. If it were to become an education plot there would be a significant sports pitch provision and so the 20% figure is believed to be more representative of the location than the 30% adopted for the more constrained schools on BA1.

B.9 Employment Land Car Parks

It is assumed that car parks serving the employment land will be constructed in permeable paving and discharge by infiltration. The full car park plan area has been taken as being available for infiltration and each car park has been sized to accommodate the 1 in 100 year + 40% climate change event. Figure B.2 illustrates the assumptions made regarding the plot hardstanding areas and disposal locations for the employment land plots.

Full calculations are contained in pages 72 to 76 and the results are summarised in Table B.3 below:

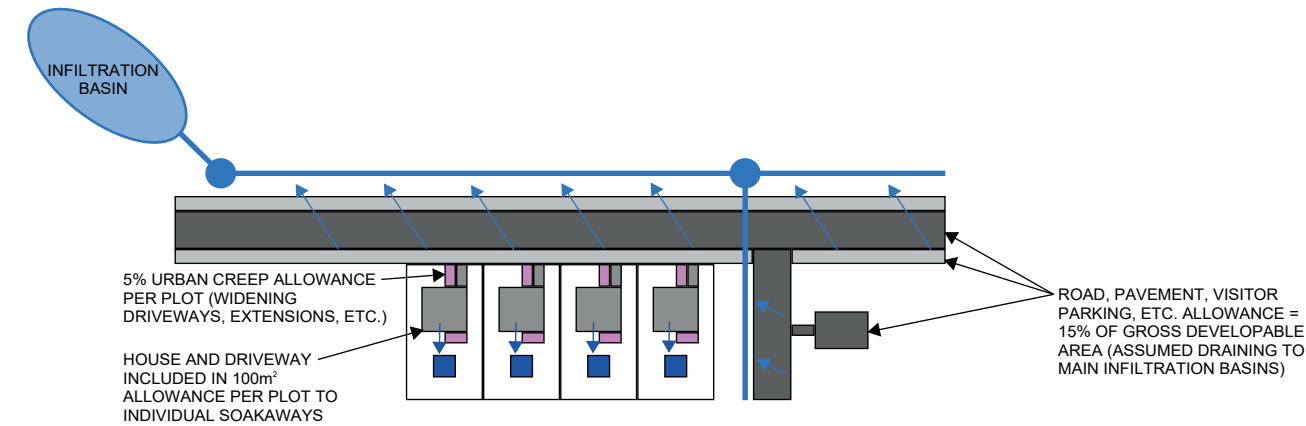


Figure B.1 Residential area assumptions

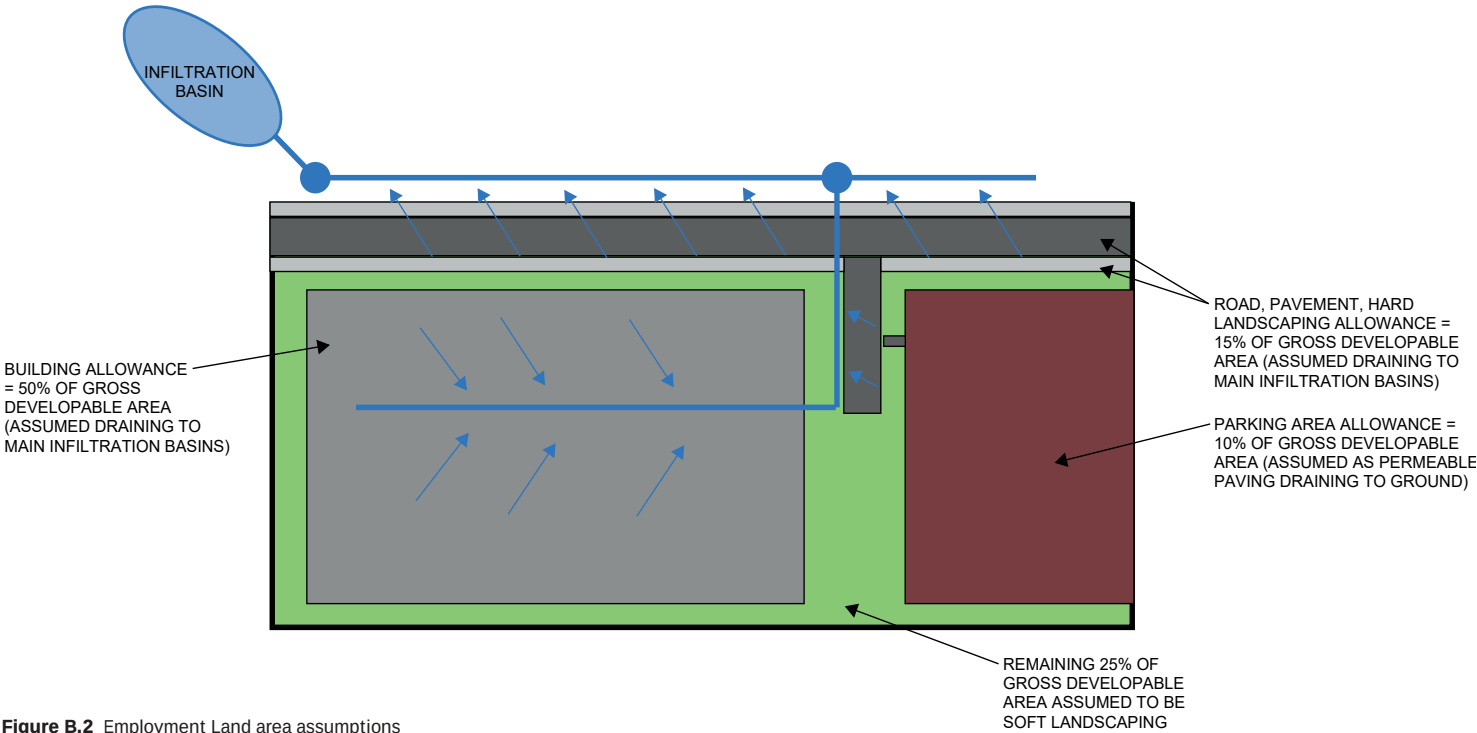


Figure B.2 Employment Land area assumptions

Plot	Plot Areas	Car Park Percentage	Car Park Hardstanding	Nearest Soakaway Test	Recommended Infiltration Rate (m/s)	Recommended Infiltration Rate (m/hr)	Required Depth (m)
Emp01	6,300 m2	10%	630 m2	TP-149	5.34E-06	0.0192	0.450
Emp02	129,000 m2	10%	12,900 m2	TP-139	1.12E-06	0.4032	0.450
Emp03	26,300 m2	10%	2,630 m2	TP-094	1.42E-04	0.5112	0.450

Table B.3 Employment Land car parking areas permeable paving summary

B.10 Employment Buildings, Highways and Footpaths

The Employment Land buildings and the roads and footpaths for the wider masterplan will drain to infiltration basins to dispose of surface water which have been sized to accommodate the 1 in 100 year + 40% climate change event. The locations of these basins are shown in Figure B.4 on the following page.

These basins have also been designed to have sufficient capacity to store the existing extreme flood volumes that have been calculated in these areas. Therefore, in the calculations, Basins 1, 2, 3, 5 and 7 have been designed with an "initial depth" to reflect this flood volume (refer to Figure B.3).

Basins 3, 2 and 1 have been designed to work in series so that in extreme flood events Basin 3 overtops a weir and flows into Basin 2 which, in turn, will overtop and flow into Basin 1.

Full calculations are contained in pages 76 to 93 and the results are summarised in Table B.4 adjacent:

B.11 Network Design

The InfoDrainage results contained on the following pages demonstrate that all water is contained within the proposed drainage system for every event up to and including the 1 in 100 year plus 40% climate change allowance event.

Basin	Contributing Plots	Plot Areas	Hardstanding Percentage	Hardstanding to Basin	Total to Basin	Existing Flood Volume to be Accommodated	Nearest Soakaway Test	Recommended Infiltration Rate (m/s)	Recommended Infiltration Rate (m/hr)	Design Surface Area	Design Base Area	Design Depth	Design Volume
1	Res01	40,700 m2	15%	6,105 m2	11,025 m2	4,580 m3	ST2	1.35E-05	0.0486	6,300 m2	5,225 m2	1.00	5,763 m3
	Res02	9,500 m2	15%	1,425 m2									
	65% Res04	23,300 m2	15%	3,495 m2									
2	Res03	2,000 m2	15%	300 m2	74,835 m2	685 m3	TP-068	1.43E-05	0.0515	9,700 m2	8,350 m2	1.00	9,025 m3
	35% Res04	13,000 m2	15%	1,950 m2									
	Res05	53,300 m2	15%	7,995 m2									
	Res06	27,100 m2	15%	4,065 m2									
	Res08	168,500 m2	15%	25,275 m2									
	Res09	25,600 m2	15%	3,840 m2									
	LC01	11,600 m2	75%	8,700 m2									
	LC02	7,600 m2	75%	5,700 m2									
	LC03	5,000 m2	75%	3,750 m2									
	LC04	8,800 m2	75%	6,600 m2									
3	Edu01	22,200 m2	30%	6,660 m2	48,795 m2	4,270 m3	TP-131	8.17E-06	0.0294	7,500 m2	6,320 m2	1.00	6,910 m3
	Res07	2,500 m2	15%	375 m2									
	Res10	1,100 m2	15%	165 m2									
	Res11	1,200 m2	15%	180 m2									
	Res12	68,400 m2	15%	10,260 m2									
	Res13	189,600 m2	15%	28,440 m2									
	LC05	7,100 m2	75%	5,325 m2									
4	LC06	5,400 m2	75%	4,050 m2	13,575 m2	-	TP-045	9.98E-05	0.3593	900 m2	525 m2	1.00	713 m3
	Res14	50,300 m2	15%	7,545 m2									
	Edu02	20,100 m2	30%	6,030 m2									
5	Res15	2,300 m2	15%	345 m2	46,365 m2	2,850 m3	TP-137	2.40E-04	0.8640	4,150 m2	3,125 m2	1.20	4,365 m3
	Emp01	6,300 m2	65%	4,095 m2									
6	50% Emp02	64,500 m2	65%	41,925 m2	59,020 m2	-	TP-127	2.84E-05	0.1022	4,200 m2	3,165 m2	1.20	4,419 m3
	50% Emp02	64,500 m2	65%	41,925 m2									
	Emp03	26,300 m2	65%	17,095 m2									
7	Fle01	105,000 m2	20%	21,000 m2	21,000 m2	1,540 m3	TP-161	2.97E-06	0.0107	3,650 m2	2,690 m2	1.20	3,804 m3
8	Res16	69,600 m2	15%	10,440 m2	10,440 m2	-	TP-191	9.23E-05	0.3323	770 m2	425 m2	1.00	598 m3

Table B.4 Infiltration Basin Summary

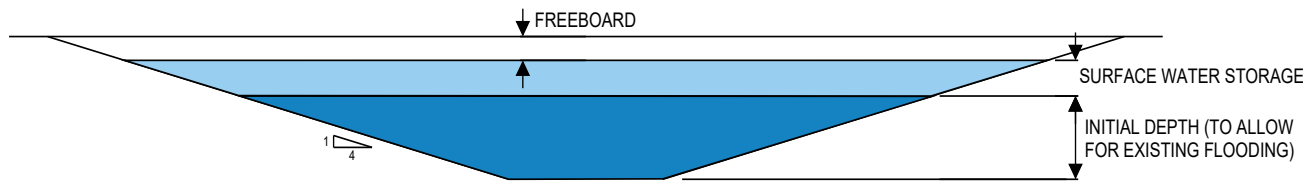


Figure B.3 Schematic of infiltration basin design calculations



Figure B.4 Infiltration Basin Locations

Individual House Soakaways: Parcels Res1 Res2 & Res3 Baldock	Date: 08/08/0202		
	Designed by: MJD	Checked by: DP	Approved By: DP
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Catchment Area

Type : Catchment Area

Area (m²)	100.00
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcels Res1 Res2 & Res3 Baldock	Date: 08/08/0202		
	Designed by: MJD	Checked by: DP	Approved By: DP
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.400
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.0515
Safety Factor	2.0
Total Volume (m³)	6.589

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcels Res1 Res2 & Res3 Baldock	Date: 08/08/0202			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcels Res1 Res2 & Res3 Baldock	Date: 08/08/0202			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcels Res1 Res2 & Res3 Baldock	Date: 08/08/2022			
	Designed by: MJD	Checked by: DP	Approved By: DP	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF				



Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.335	56.335	0.335	0.335	2.6	1.162	0.000	0.049	0.0	0.000		82.365	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.334	56.334	0.334	0.334	2.5	1.159	0.000	0.049	0.0	0.000		82.410	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.415	56.415	0.415	0.415	1.7	1.440	0.000	0.123	0.0	0.000		78.145	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.417	56.417	0.417	0.417	1.6	1.446	0.000	0.123	0.0	0.000		78.057	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.495	56.495	0.495	0.495	1.5	1.719	0.000	0.288	0.0	0.000		73.915	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.497	56.497	0.497	0.497	1.2	1.725	0.000	0.289	0.0	0.000		73.828	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.677	56.677	0.677	0.677	1.3	2.347	0.000	0.750	0.0	0.000		64.384	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.680	56.680	0.680	0.680	0.9	2.358	0.000	0.750	0.0	0.000		64.221	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.757	56.757	0.757	0.757	1.0	2.625	0.000	1.219	0.0	0.000		60.167	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.764	56.764	0.764	0.764	0.7	2.650	0.000	1.223	0.0	0.000		59.778	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.793	56.793	0.793	0.793	0.9	2.751	0.000	1.663	0.0	0.000		58.247	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.799	56.799	0.799	0.799	0.6	2.771	0.000	1.660	0.0	0.000		57.947	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.823	56.823	0.823	0.823	0.7	2.855	0.000	2.434	0.0	0.000		56.664	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.825	56.825	0.825	0.825	0.4	2.860	0.000	2.434	0.0	0.000		56.600	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.827	56.827	0.827	0.827	0.6	2.868	0.000	3.040	0.0	0.000		56.481	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.824	56.824	0.824	0.824	0.4	2.857	0.000	3.035	0.0	0.000		56.639	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.822	56.822	0.822	0.822	0.5	2.850	0.000	3.523	0.0	0.000		56.741	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.810	56.810	0.810	0.810	0.3	2.808	0.000	3.499	0.0	0.000		57.384	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.780	56.780	0.780	0.780	6.1	2.706	0.000	0.101	0.0	0.000		58.939	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.781	56.781	0.781	0.781	5.8	2.708	0.000	0.101	0.0	0.000		58.897	OK
FEH: 30 years: +40 %: 30 mins: Summer	56.992	56.992	0.992	0.992	4.1	3.440	0.000	0.264	0.0	0.000	20	47.797	OK
FEH: 30 years: +40 %: 30 mins: Winter	56.990	56.990	0.990	0.990	3.8	3.434	0.000	0.264	0.0	0.000	20	47.885	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.182	57.182	1.182	1.182	3.5	4.101	0.000	0.632	0.0	0.000		37.759	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.182	57.182	1.182	1.182	2.8	4.101	0.000	0.632	0.0	0.000		37.758	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.427	57.427	1.427	1.427	2.6	4.948	0.000	1.493	0.0	0.000		24.900	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.431	57.431	1.431	1.431	1.9	4.963	0.000	1.492	0.0	0.000		24.675	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.521	57.521	1.521	1.521	2.1	5.275	0.000	2.333	0.0	0.000		19.944	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.529	57.529	1.529	1.529	1.4	5.304	0.000	2.333	0.0	0.000		19.501	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.549	57.549	1.549	1.549	1.7	5.373	0.000	3.103	0.0	0.000		18.457	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.565	57.565	1.565	1.565	1.2	5.429	0.000	3.108	0.0	0.000		17.600	OK

Individual House Soakaways: Parcels Res1 Res2 & Res3 Baldock	Date: 08/08/2022			
	Designed by:	Checked by:	Approved By:	
	MJD	DP	DP	
Report Details:	AKT II:			
Type: Stormwater Controls Summary	White Collar Factory			
Storm Phase: Phase	1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.558	57.558	1.558	1.558	1.3	5.403	0.000	4.419	0.0	0.000	340	18.005	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.559	57.559	1.559	1.559	0.8	5.408	0.000	4.421	0.0	0.000	335	17.933	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.544	57.544	1.544	1.544	1.0	5.356	0.000	5.460	0.0	0.000	375	18.718	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.543	57.543	1.543	1.543	0.7	5.352	0.000	5.475	0.0	0.000	355	18.777	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.523	57.523	1.523	1.523	0.9	5.281	0.000	6.271	0.0	0.000	380	19.851	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.508	57.508	1.508	1.508	0.6	5.230	0.000	6.279	0.0	0.000	360	20.627	OK
FEH: 100 years: +40 %: 15 mins: Summer	56.989	56.989	0.989	0.989	7.7	3.429	0.000	0.125	0.0	0.000		47.966	OK
FEH: 100 years: +40 %: 15 mins: Winter	56.989	56.989	0.989	0.989	7.3	3.428	0.000	0.125	0.0	0.000		47.968	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.262	57.262	1.262	1.262	5.2	4.378	0.000	0.331	0.0	0.000		33.551	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.264	57.264	1.264	1.264	4.9	4.384	0.000	0.331	0.0	0.000		33.462	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.520	57.520	1.520	1.520	4.5	5.272	0.000	0.801	0.0	0.000		19.983	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.520	57.520	1.520	1.520	3.6	5.273	0.000	0.801	0.0	0.000		19.981	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.793	57.793	1.793	1.793	3.3	6.220	0.000	1.857	0.0	0.000		5.609	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.801	57.801	1.801	1.801	2.4	6.245	0.000	1.857	0.0	0.000		5.220	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.895	57.895	1.895	1.895	2.6	6.571	0.000	2.878	0.0	0.000		0.280	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.909	57.909	1.909	1.909	1.8	6.622	0.000	2.884	0.0	0.000		-0.498	Flood Risk
FEH: 100 years: +40 %: 240 mins: Summer	57.933	57.933	1.933	1.933	2.1	6.704	0.000	3.836	0.0	0.000		-1.746	Flood Risk
FEH: 100 years: +40 %: 240 mins: Winter	57.950	57.950	1.950	1.950	1.4	6.762	0.000	3.835	0.0	0.000		-2.625	Flood Risk
FEH: 100 years: +40 %: 360 mins: Summer	57.939	57.939	1.939	1.939	1.6	6.726	0.000	5.453	0.0	0.000		-2.080	Flood Risk
FEH: 100 years: +40 %: 360 mins: Winter	57.940	57.940	1.940	1.940	1.0	6.728	0.000	5.442	0.0	0.000		-2.110	Flood Risk
FEH: 100 years: +40 %: 480 mins: Summer	57.921	57.921	1.921	1.921	1.3	6.664	0.000	6.732	0.0	0.000	495	-1.128	Flood Risk
FEH: 100 years: +40 %: 480 mins: Winter	57.916	57.916	1.916	1.916	0.8	6.647	0.000	6.734	0.0	0.000	480	-0.877	Flood Risk
FEH: 100 years: +40 %: 600 mins: Summer	57.893	57.893	1.893	1.893	1.1	6.564	0.000	7.727	0.0	0.000	510	0.376	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.876	57.876	1.876	1.876	0.7	6.507	0.000	7.734	0.0	0.000	485	1.242	OK

Individual House Soakaways: Parcel Res4 Baldock	Date: 01/06/2024		
	Designed by: MJD	Checked by: DP	Approved By: DP
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res4 Baldock	Date: 01/06/2024		
	Designed by: MJD	Checked by: DP	Approved By: DP
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.400
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.0486
Safety Factor	2.0
Total Volume (m³)	6.589

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res4 Baldock	Date: 01/06/2024			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res4 Baldock	Date: 01/06/2024			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res4 Baldock	Date: 01/06/2024			
	Designed by: MJD	Checked by: DP	Approved By: DP	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF				



Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.335	56.335	0.335	0.335	2.6	1.163	0.000	0.047	0.0	0.000		82.349	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.335	56.335	0.335	0.335	2.5	1.160	0.000	0.047	0.0	0.000		82.395	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.416	56.416	0.416	0.416	1.7	1.442	0.000	0.117	0.0	0.000		78.110	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.417	56.417	0.417	0.417	1.6	1.448	0.000	0.117	0.0	0.000		78.021	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.497	56.497	0.497	0.497	1.5	1.724	0.000	0.275	0.0	0.000		73.836	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.499	56.499	0.499	0.499	1.2	1.730	0.000	0.276	0.0	0.000		73.749	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.681	56.681	0.680	0.680	1.3	2.360	0.000	0.717	0.0	0.000		64.178	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.683	56.683	0.683	0.683	0.9	2.370	0.000	0.717	0.0	0.000		64.029	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.763	56.763	0.763	0.763	1.0	2.646	0.000	1.170	0.0	0.000		59.843	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.770	56.770	0.770	0.770	0.7	2.671	0.000	1.174	0.0	0.000		59.469	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.801	56.801	0.801	0.801	0.9	2.779	0.000	1.600	0.0	0.000		57.820	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.807	56.807	0.807	0.807	0.6	2.799	0.000	1.598	0.0	0.000		57.528	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.832	56.832	0.832	0.832	0.7	2.886	0.000	2.357	0.0	0.000		56.198	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.834	56.834	0.834	0.834	0.4	2.891	0.000	2.357	0.0	0.000		56.120	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.836	56.836	0.836	0.836	0.6	2.900	0.000	2.960	0.0	0.000		55.987	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.834	56.834	0.834	0.834	0.4	2.894	0.000	2.955	0.0	0.000		56.084	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.832	56.832	0.832	0.832	0.5	2.887	0.000	3.446	0.0	0.000		56.191	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.821	56.821	0.821	0.821	0.3	2.849	0.000	3.422	0.0	0.000		56.766	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.781	56.781	0.781	0.781	6.1	2.708	0.000	0.096	0.0	0.000		58.902	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.782	56.782	0.782	0.782	5.8	2.711	0.000	0.096	0.0	0.000		58.860	OK
FEH: 30 years: +40 %: 30 mins: Summer	56.993	56.993	0.993	0.993	4.1	3.445	0.000	0.251	0.0	0.000		47.713	OK
FEH: 30 years: +40 %: 30 mins: Winter	56.991	56.991	0.991	0.991	3.8	3.439	0.000	0.251	0.0	0.000		47.801	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.186	57.186	1.186	1.186	3.5	4.114	0.000	0.601	0.0	0.000		37.572	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.186	57.186	1.186	1.186	2.8	4.114	0.000	0.601	0.0	0.000		37.570	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.435	57.435	1.435	1.435	2.6	4.977	0.000	1.425	0.0	0.000		24.464	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.439	57.439	1.439	1.439	1.9	4.990	0.000	1.423	0.0	0.000		24.271	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.533	57.533	1.533	1.533	2.1	5.318	0.000	2.234	0.0	0.000		19.292	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.541	57.541	1.541	1.541	1.4	5.345	0.000	2.234	0.0	0.000		18.883	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.565	57.565	1.565	1.565	1.7	5.429	0.000	2.981	0.0	0.000		17.602	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.581	57.581	1.581	1.581	1.2	5.484	0.000	2.986	0.0	0.000		16.778	OK

Individual House Soakaways: Parcel Res4 Baldock	Date: 01/06/2024			
	Designed by: MJD	Checked by: DP	Approved By: DP	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF				

FEH: 30 years: +40 %: 360 mins: Summer	57.574	57.574	1.574	1.574	1.3	5.461	0.000	4.271	0.0	0.000	360	17.126	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.576	57.576	1.576	1.576	0.8	5.467	0.000	4.274	0.0	0.000	355	17.028	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.562	57.562	1.562	1.562	1.0	5.417	0.000	5.307	0.0	0.000	395	17.784	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.563	57.563	1.563	1.563	0.7	5.421	0.000	5.322	0.0	0.000	375	17.731	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.542	57.542	1.542	1.542	0.9	5.349	0.000	6.125	0.0	0.000	410	18.825	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.530	57.530	1.530	1.530	0.6	5.307	0.000	6.133	0.0	0.000	385	19.466	OK
FEH: 100 years: +40 %: 15 mins: Summer	56.990	56.990	0.990	0.990	7.7	3.432	0.000	0.119	0.0	0.000		47.919	OK
FEH: 100 years: +40 %: 15 mins: Winter	56.990	56.990	0.990	0.990	7.3	3.432	0.000	0.119	0.0	0.000		47.921	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.264	57.264	1.264	1.264	5.2	4.385	0.000	0.314	0.0	0.000		33.445	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.266	57.266	1.266	1.266	4.9	4.391	0.000	0.314	0.0	0.000		33.356	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.524	57.524	1.524	1.524	4.5	5.288	0.000	0.761	0.0	0.000		19.742	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.524	57.524	1.524	1.524	3.6	5.289	0.000	0.761	0.0	0.000		19.740	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.803	57.803	1.803	1.803	3.3	6.256	0.000	1.770	0.0	0.000		5.060	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.810	57.810	1.810	1.810	2.4	6.279	0.000	1.770	0.0	0.000		4.712	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.910	57.910	1.910	1.910	2.6	6.624	0.000	2.754	0.0	0.000		-0.532	Flood Risk
FEH: 100 years: +40 %: 180 mins: Winter	57.924	57.924	1.924	1.924	1.8	6.673	0.000	2.760	0.0	0.000		-1.270	Flood Risk
FEH: 100 years: +40 %: 240 mins: Summer	57.954	57.954	1.954	1.954	2.1	6.776	0.000	3.683	0.0	0.000		-2.836	Flood Risk
FEH: 100 years: +40 %: 240 mins: Winter	57.969	57.969	1.969	1.969	1.4	6.830	0.000	3.683	0.0	0.000		-3.650	Flood Risk
FEH: 100 years: +40 %: 360 mins: Summer	57.960	57.960	1.960	1.960	1.6	6.799	0.000	5.269	0.0	0.000		-3.183	Flood Risk
FEH: 100 years: +40 %: 360 mins: Winter	57.962	57.962	1.962	1.962	1.0	6.804	0.000	5.258	0.0	0.000		-3.262	Flood Risk
FEH: 100 years: +40 %: 480 mins: Summer	57.943	57.943	1.943	1.943	1.3	6.740	0.000	6.541	0.0	0.000	520	-2.295	Flood Risk
FEH: 100 years: +40 %: 480 mins: Winter	57.941	57.941	1.941	1.941	0.8	6.733	0.000	6.544	0.0	0.000	510	-2.176	Flood Risk
FEH: 100 years: +40 %: 600 mins: Summer	57.917	57.917	1.917	1.917	1.1	6.647	0.000	7.544	0.0	0.000	540	-0.884	Flood Risk
FEH: 100 years: +40 %: 600 mins: Winter	57.904	57.904	1.904	1.904	0.7	6.604	0.000	7.552	0.0	0.000	510	-0.228	Flood Risk

Individual House Soakaways: Parcel Res5 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by: DP	Approved By: DP
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res5 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by: DP	Approved By: DP
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.100
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.1537
Safety Factor	2.0
Total Volume (m³)	5.478

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res5 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res5 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res5 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF				



Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.389	56.389	0.389	0.389	2.6	1.122	0.000	0.131	0.0	0.000		79.521	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.388	56.388	0.388	0.388	2.5	1.119	0.000	0.131	0.0	0.000		79.574	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.468	56.468	0.468	0.468	1.7	1.352	0.000	0.325	0.0	0.000		75.320	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.470	56.470	0.470	0.470	1.6	1.357	0.000	0.327	0.0	0.000		75.219	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.534	56.534	0.534	0.534	1.5	1.540	0.000	0.725	0.0	0.000		71.883	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.538	56.538	0.538	0.538	1.2	1.551	0.000	0.727	0.0	0.000		71.688	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.678	56.678	0.678	0.678	1.3	1.955	0.000	1.681	0.0	0.000		64.318	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.679	56.679	0.679	0.679	0.9	1.957	0.000	1.681	0.0	0.000		64.273	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.732	56.732	0.732	0.732	1.0	2.111	0.000	2.433	0.0	0.000		61.461	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.729	56.729	0.729	0.729	0.7	2.100	0.000	2.442	0.0	0.000		61.655	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.753	56.753	0.753	0.753	0.9	2.171	0.000	2.992	0.0	0.000		60.368	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.737	56.737	0.737	0.737	0.6	2.124	0.000	2.986	0.0	0.000		61.217	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.749	56.749	0.749	0.749	0.7	2.159	0.000	3.701	0.0	0.000		60.580	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.718	56.718	0.718	0.718	0.4	2.069	0.000	3.700	0.0	0.000		62.234	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.722	56.722	0.722	0.722	0.6	2.081	0.000	4.084	0.0	0.000		62.017	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.676	56.676	0.676	0.676	0.4	1.949	0.000	4.078	0.0	0.000		64.418	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.689	56.689	0.689	0.689	0.5	1.987	0.000	4.314	0.0	0.000		63.731	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.630	56.630	0.630	0.630	0.3	1.818	0.000	4.284	0.0	0.000		66.816	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.905	56.905	0.905	0.905	6.1	2.610	0.000	0.294	0.0	0.000		52.345	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.906	56.906	0.906	0.906	5.8	2.613	0.000	0.294	0.0	0.000		52.295	OK
FEH: 30 years: +40 %: 30 mins: Summer	57.118	57.118	1.118	1.118	4.1	3.223	0.000	0.753	0.0	0.000		41.164	OK
FEH: 30 years: +40 %: 30 mins: Winter	57.116	57.116	1.116	1.116	3.8	3.218	0.000	0.751	0.0	0.000		41.261	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.272	57.272	1.272	1.272	3.5	3.668	0.000	1.682	0.0	0.000	55	33.045	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.277	57.277	1.277	1.277	2.8	3.682	0.000	1.682	0.0	0.000	55	32.779	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.425	57.425	1.425	1.425	2.6	4.109	0.000	3.472	0.0	0.000	90	24.979	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.424	57.424	1.424	1.424	1.9	4.106	0.000	3.467	0.0	0.000	85	25.049	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.467	57.467	1.467	1.467	2.1	4.230	0.000	4.798	0.0	0.000	110	22.783	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.455	57.455	1.455	1.455	1.4	4.194	0.000	4.796	0.0	0.000	105	23.441	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.465	57.465	1.465	1.465	1.7	4.222	0.000	5.729	0.0	0.000	125	22.919	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.437	57.437	1.437	1.437	1.2	4.144	0.000	5.738	0.0	0.000	110	24.355	OK

Individual House Soakaways: Parcel Res5 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF				

FEH: 30 years: +40 %: 360 mins: Summer	57.414	57.414	1.414	1.414	1.3	4.077	0.000	6.863	0.0	0.000	135	25.568	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.353	57.353	1.353	1.353	0.8	3.902	0.000	6.868	0.0	0.000	120	28.769	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.341	57.341	1.341	1.341	1.0	3.867	0.000	7.477	0.0	0.000	125	29.411	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.259	57.259	1.259	1.259	0.7	3.631	0.000	7.500	0.0	0.000	115	33.720	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.268	57.268	1.268	1.268	0.9	3.657	0.000	7.844	0.0	0.000	110	33.235	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.167	57.167	1.167	1.167	0.6	3.365	0.000	7.856	0.0	0.000	95	38.576	OK
FEH: 100 years: +40 %: 15 mins: Summer	57.146	57.146	1.146	1.146	7.7	3.306	0.000	0.370	0.0	0.000		39.642	OK
FEH: 100 years: +40 %: 15 mins: Winter	57.146	57.146	1.146	1.146	7.3	3.306	0.000	0.370	0.0	0.000		39.644	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.423	57.423	1.423	1.423	5.2	4.102	0.000	0.954	0.0	0.000		25.117	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.425	57.425	1.425	1.425	4.9	4.107	0.000	0.955	0.0	0.000		25.015	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.635	57.635	1.635	1.635	4.5	4.713	0.000	2.153	0.0	0.000		13.957	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.642	57.642	1.642	1.642	3.6	4.733	0.000	2.152	0.0	0.000		13.592	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.789	57.789	1.789	1.789	3.3	5.159	0.000	4.347	0.0	0.000	135	5.814	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.791	57.791	1.791	1.791	2.4	5.164	0.000	4.346	0.0	0.000	130	5.722	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.827	57.827	1.827	1.827	2.6	5.269	0.000	5.952	0.0	0.000	150	3.803	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.814	57.814	1.814	1.814	1.8	5.231	0.000	5.964	0.0	0.000	145	4.504	OK
FEH: 100 years: +40 %: 240 mins: Summer	57.825	57.825	1.825	1.825	2.1	5.261	0.000	7.121	0.0	0.000	165	3.954	OK
FEH: 100 years: +40 %: 240 mins: Winter	57.790	57.790	1.790	1.790	1.4	5.161	0.000	7.119	0.0	0.000	150	5.788	OK
FEH: 100 years: +40 %: 360 mins: Summer	57.757	57.757	1.757	1.757	1.6	5.065	0.000	8.512	0.0	0.000	175	7.531	OK
FEH: 100 years: +40 %: 360 mins: Winter	57.681	57.681	1.681	1.681	1.0	4.847	0.000	8.494	0.0	0.000	160	11.513	OK
FEH: 100 years: +40 %: 480 mins: Summer	57.665	57.665	1.665	1.665	1.3	4.802	0.000	9.261	0.0	0.000	185	12.335	OK
FEH: 100 years: +40 %: 480 mins: Winter	57.563	57.563	1.563	1.563	0.8	4.507	0.000	9.266	0.0	0.000	170	17.717	OK
FEH: 100 years: +40 %: 600 mins: Summer	57.575	57.575	1.575	1.575	1.1	4.541	0.000	9.706	0.0	0.000	175	17.091	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.451	57.451	1.451	1.451	0.7	4.184	0.000	9.717	0.0	0.000	165	23.618	OK

Individual House Soakaways: Parcel Res6 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res6 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Soakaway

Type : Soakaway

Dimensions	
Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.300
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.0817
Safety Factor	2.0
Total Volume (m³)	6.207

Inlets	
Inlet	
Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res6 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res6 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res6 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF				



Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.352	56.352	0.352	0.352	2.6	1.151	0.000	0.073	0.0	0.000		81.462	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.351	56.351	0.351	0.351	2.5	1.148	0.000	0.072	0.0	0.000		81.510	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.433	56.433	0.433	0.433	1.7	1.415	0.000	0.182	0.0	0.000		77.205	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.435	56.435	0.435	0.435	1.6	1.421	0.000	0.183	0.0	0.000		77.113	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.509	56.509	0.509	0.509	1.5	1.663	0.000	0.425	0.0	0.000		73.212	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.511	56.511	0.511	0.511	1.2	1.668	0.000	0.426	0.0	0.000		73.123	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.677	56.677	0.677	0.677	1.3	2.212	0.000	1.076	0.0	0.000		64.367	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.680	56.680	0.680	0.680	0.9	2.223	0.000	1.076	0.0	0.000		64.192	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.739	56.739	0.739	0.739	1.0	2.416	0.000	1.690	0.0	0.000		61.086	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.746	56.746	0.746	0.746	0.7	2.439	0.000	1.696	0.0	0.000		60.710	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.771	56.771	0.771	0.771	0.9	2.519	0.000	2.229	0.0	0.000		59.420	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.770	56.770	0.770	0.770	0.6	2.516	0.000	2.225	0.0	0.000		59.461	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.794	56.794	0.794	0.794	0.7	2.593	0.000	3.070	0.0	0.000		58.220	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.787	56.787	0.787	0.787	0.4	2.571	0.000	3.069	0.0	0.000		58.578	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.788	56.788	0.788	0.788	0.6	2.575	0.000	3.641	0.0	0.000		58.515	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.771	56.771	0.771	0.771	0.4	2.521	0.000	3.636	0.0	0.000		59.392	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.773	56.773	0.773	0.773	0.5	2.525	0.000	4.045	0.0	0.000		59.322	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.744	56.744	0.744	0.744	0.3	2.432	0.000	4.017	0.0	0.000		60.812	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.820	56.820	0.820	0.820	6.1	2.679	0.000	0.156	0.0	0.000		56.846	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.821	56.821	0.821	0.821	5.8	2.681	0.000	0.156	0.0	0.000		56.801	OK
FEH: 30 years: +40 %: 30 mins: Summer	57.034	57.034	1.034	1.034	4.1	3.379	0.000	0.409	0.0	0.000		45.567	OK
FEH: 30 years: +40 %: 30 mins: Winter	57.032	57.032	1.032	1.032	3.8	3.373	0.000	0.408	0.0	0.000		45.658	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.213	57.213	1.213	1.213	3.5	3.966	0.000	0.961	0.0	0.000		36.111	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.214	57.214	1.214	1.214	2.8	3.966	0.000	0.961	0.0	0.000		36.108	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.426	57.426	1.426	1.426	2.6	4.660	0.000	2.187	0.0	0.000		24.922	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.431	57.431	1.431	1.431	1.9	4.677	0.000	2.185	0.0	0.000		24.653	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.484	57.484	1.484	1.484	2.1	4.848	0.000	3.290	0.0	0.000	180	21.898	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.493	57.493	1.493	1.493	1.4	4.879	0.000	3.289	0.0	0.000	165	21.397	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.504	57.504	1.504	1.504	1.7	4.913	0.000	4.222	0.0	0.000	205	20.846	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.505	57.505	1.505	1.505	1.2	4.919	0.000	4.228	0.0	0.000	200	20.754	OK

Individual House Soakaways: Parcel Res6 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by: DP	Approved By: DP	
	Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			
AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF				

FEH: 30 years: +40 %: 360 mins: Summer	57.500	57.500	1.500	1.500	1.3	4.901	0.000	5.642	0.0	0.000	230	21.047	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.487	57.487	1.487	1.487	0.8	4.858	0.000	5.645	0.0	0.000	215	21.731	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.469	57.469	1.469	1.469	1.0	4.800	0.000	6.613	0.0	0.000	245	22.670	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.442	57.442	1.442	1.442	0.7	4.713	0.000	6.631	0.0	0.000	225	24.073	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.428	57.428	1.428	1.428	0.9	4.667	0.000	7.276	0.0	0.000	255	24.816	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.383	57.383	1.383	1.383	0.6	4.519	0.000	7.285	0.0	0.000	225	27.195	OK
FEH: 100 years: +40 %: 15 mins: Summer	57.039	57.039	1.039	1.039	7.7	3.394	0.000	0.195	0.0	0.000		45.315	OK
FEH: 100 years: +40 %: 15 mins: Winter	57.039	57.039	1.039	1.039	7.3	3.394	0.000	0.195	0.0	0.000		45.318	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.316	57.316	1.316	1.316	5.2	4.301	0.000	0.515	0.0	0.000		30.716	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.317	57.317	1.317	1.317	4.9	4.306	0.000	0.516	0.0	0.000		30.623	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.559	57.559	1.559	1.559	4.5	5.098	0.000	1.225	0.0	0.000		17.869	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.560	57.560	1.560	1.560	3.6	5.097	0.000	1.225	0.0	0.000		17.889	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.792	57.792	1.792	1.792	3.3	5.856	0.000	2.730	0.0	0.000		5.667	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.801	57.801	1.801	1.801	2.4	5.885	0.000	2.729	0.0	0.000		5.200	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.849	57.849	1.849	1.849	2.6	6.040	0.000	4.071	0.0	0.000		2.687	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.864	57.864	1.864	1.864	1.8	6.089	0.000	4.079	0.0	0.000		1.909	OK
FEH: 100 years: +40 %: 240 mins: Summer	57.874	57.874	1.874	1.874	2.1	6.124	0.000	5.234	0.0	0.000	285	1.350	OK
FEH: 100 years: +40 %: 240 mins: Winter	57.875	57.875	1.875	1.875	1.4	6.127	0.000	5.233	0.0	0.000	280	1.299	OK
FEH: 100 years: +40 %: 360 mins: Summer	57.866	57.866	1.866	1.866	1.6	6.096	0.000	6.982	0.0	0.000	310	1.796	OK
FEH: 100 years: +40 %: 360 mins: Winter	57.849	57.849	1.849	1.849	1.0	6.041	0.000	6.967	0.0	0.000	290	2.672	OK
FEH: 100 years: +40 %: 480 mins: Summer	57.826	57.826	1.826	1.826	1.3	5.966	0.000	8.175	0.0	0.000	325	3.891	OK
FEH: 100 years: +40 %: 480 mins: Winter	57.790	57.790	1.790	1.790	0.8	5.849	0.000	8.178	0.0	0.000	300	5.776	OK
FEH: 100 years: +40 %: 600 mins: Summer	57.775	57.775	1.775	1.775	1.1	5.801	0.000	8.987	0.0	0.000	330	6.551	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.720	57.720	1.720	1.720	0.7	5.619	0.000	8.996	0.0	0.000	305	9.475	OK

Individual House Soakaways: Parcel Res7, Res 10 & Res11 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res7, Res 10 & Res11 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Soakaway

Type : Soakaway

Dimensions	
Exceedance Level (m)	58.000
Depth (m)	2.500
Base Level (m)	55.500
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.200
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.0294
Safety Factor	2.0
Total Volume (m³)	7.373

Inlets	
Inlet	
Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res7, Res 10 & Res11 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res7, Res 10 & Res11 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res7, Res 10 & Res11 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

SUM

Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	55.881	55.881	0.381	0.381	2.6	1.170	0.000	0.033	0.0	0.000		84.129	OK
FEH: 2 years: +40 %: 15 mins: Winter	55.880	55.880	0.380	0.380	2.5	1.167	0.000	0.033	0.0	0.000		84.170	OK
FEH: 2 years: +40 %: 30 mins: Summer	55.974	55.974	0.474	0.474	1.7	1.458	0.000	0.081	0.0	0.000		80.229	OK
FEH: 2 years: +40 %: 30 mins: Winter	55.976	55.976	0.476	0.476	1.6	1.464	0.000	0.081	0.0	0.000		80.149	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.072	56.072	0.572	0.572	1.5	1.758	0.000	0.191	0.0	0.000		76.158	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.074	56.074	0.574	0.574	1.2	1.764	0.000	0.192	0.0	0.000		76.079	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.297	56.297	0.797	0.797	1.3	2.448	0.000	0.503	0.0	0.000		66.790	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.298	56.298	0.798	0.798	0.9	2.452	0.000	0.503	0.0	0.000		66.745	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.407	56.407	0.907	0.907	1.0	2.785	0.000	0.835	0.0	0.000		62.226	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.413	56.413	0.913	0.913	0.7	2.807	0.000	0.838	0.0	0.000		61.934	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.468	56.468	0.968	0.968	0.9	2.975	0.000	1.165	0.0	0.000		59.651	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.471	56.471	0.971	0.971	0.6	2.984	0.000	1.163	0.0	0.000		59.526	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.519	56.519	1.019	1.019	0.7	3.130	0.000	1.783	0.0	0.000		57.544	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.527	56.527	1.027	1.027	0.5	3.157	0.000	1.782	0.0	0.000		57.186	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.527	56.527	1.027	1.027	0.6	3.154	0.000	2.320	0.0	0.000		57.219	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.530	56.530	1.030	1.030	0.4	3.165	0.000	2.316	0.0	0.000		57.071	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.528	56.528	1.028	1.028	0.5	3.157	0.000	2.789	0.0	0.000		57.180	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.524	56.524	1.024	1.024	0.3	3.146	0.000	2.770	0.0	0.000		57.328	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.387	56.387	0.887	0.887	6.1	2.723	0.000	0.064	0.0	0.000		63.061	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.388	56.388	0.888	0.888	5.8	2.726	0.000	0.065	0.0	0.000		63.023	OK
FEH: 30 years: +40 %: 30 mins: Summer	56.633	56.633	1.133	1.133	4.1	3.480	0.000	0.168	0.0	0.000		52.800	OK
FEH: 30 years: +40 %: 30 mins: Winter	56.631	56.631	1.131	1.131	3.8	3.474	0.000	0.168	0.0	0.000		52.880	OK
FEH: 30 years: +40 %: 60 mins: Summer	56.864	56.864	1.364	1.364	3.5	4.191	0.000	0.406	0.0	0.000		43.156	OK
FEH: 30 years: +40 %: 60 mins: Winter	56.864	56.864	1.364	1.364	2.8	4.191	0.000	0.406	0.0	0.000		43.155	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.178	57.178	1.678	1.678	2.6	5.158	0.000	0.980	0.0	0.000		30.040	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.179	57.179	1.679	1.679	1.9	5.157	0.000	0.979	0.0	0.000		30.054	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.320	57.320	1.820	1.820	2.1	5.594	0.000	1.570	0.0	0.000		24.125	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.326	57.326	1.826	1.826	1.4	5.612	0.000	1.570	0.0	0.000		23.884	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.389	57.389	1.889	1.889	1.7	5.803	0.000	2.140	0.0	0.000		21.288	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.401	57.401	1.901	1.901	1.2	5.841	0.000	2.144	0.0	0.000		20.780	OK

Individual House Soakaways: Parcel Res7, Res 10 & Res11 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.428	57.428	1.928	1.928	1.3	5.923	0.000	3.192	0.0	0.000		19.670	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.444	57.444	1.944	1.944	0.8	5.973	0.000	3.194	0.0	0.000		18.982	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.420	57.420	1.920	1.920	1.0	5.898	0.000	4.113	0.0	0.000	495	20.004	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.436	57.436	1.936	1.936	0.7	5.949	0.000	4.125	0.0	0.000	460	19.309	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.403	57.403	1.903	1.903	0.9	5.847	0.000	4.907	0.0	0.000	530	20.691	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.405	57.405	1.905	1.905	0.6	5.854	0.000	4.913	0.0	0.000	520	20.597	OK
FEH: 100 years: +40 %: 15 mins: Summer	56.624	56.624	1.124	1.124	7.7	3.451	0.000	0.079	0.0	0.000		53.192	OK
FEH: 100 years: +40 %: 15 mins: Winter	56.624	56.624	1.124	1.124	7.3	3.451	0.000	0.079	0.0	0.000		53.195	OK
FEH: 100 years: +40 %: 30 mins: Summer	56.942	56.942	1.442	1.442	5.2	4.429	0.000	0.209	0.0	0.000		39.925	OK
FEH: 100 years: +40 %: 30 mins: Winter	56.944	56.944	1.444	1.444	4.9	4.435	0.000	0.209	0.0	0.000		39.845	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.253	57.253	1.753	1.753	4.5	5.387	0.000	0.511	0.0	0.000		26.931	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.253	57.253	1.753	1.753	3.6	5.387	0.000	0.511	0.0	0.000		26.930	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.609	57.609	2.109	2.109	3.3	6.482	0.000	1.214	0.0	0.000		12.085	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.612	57.612	2.112	2.112	2.4	6.488	0.000	1.214	0.0	0.000		12.003	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.767	57.767	2.267	2.267	2.6	6.966	0.000	1.929	0.0	0.000		5.519	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.780	57.780	2.280	2.280	1.8	7.005	0.000	1.934	0.0	0.000		4.983	OK
FEH: 100 years: +40 %: 240 mins: Summer	57.857	57.857	2.357	2.357	2.1	7.241	0.000	2.636	0.0	0.000		1.793	OK
FEH: 100 years: +40 %: 240 mins: Winter	57.867	57.867	2.367	2.367	1.4	7.273	0.000	2.636	0.0	0.000		1.348	OK
FEH: 100 years: +40 %: 360 mins: Summer	57.902	57.902	2.402	2.402	1.6	7.380	0.000	3.927	0.0	0.000		-0.097	Flood Risk
FEH: 100 years: +40 %: 360 mins: Winter	57.916	57.916	2.416	2.416	1.0	7.422	0.000	3.918	0.0	0.000		-0.666	Flood Risk
FEH: 100 years: +40 %: 480 mins: Summer	57.889	57.889	2.389	2.389	1.3	7.339	0.000	5.057	0.0	0.000		0.453	OK
FEH: 100 years: +40 %: 480 mins: Winter	57.906	57.906	2.406	2.406	0.8	7.393	0.000	5.059	0.0	0.000		-0.271	Flood Risk
FEH: 100 years: +40 %: 600 mins: Summer	57.866	57.866	2.366	2.366	1.1	7.268	0.000	6.028	0.0	0.000		1.416	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.872	57.872	2.372	2.372	0.7	7.286	0.000	6.034	0.0	0.000		1.176	OK

Individual House Soakaways: Parcel Res8 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by:	Approved By:
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res8 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.400
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.0641
Safety Factor	2.0
Total Volume (m³)	6.589

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res8 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details:	AKT II:			
Type: Network Design Criteria	White Collar Factory			
Storm Phase: Phase	1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res8 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title:	AKT II:			
Rainfall Analysis Criteria	White Collar Factory			
	1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res8 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.334	56.334	0.334	0.334	2.6	1.158	0.000	0.059	0.0	0.000		82.433	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.333	56.333	0.333	0.333	2.5	1.155	0.000	0.058	0.0	0.000		82.479	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.412	56.412	0.412	0.412	1.7	1.430	0.000	0.146	0.0	0.000		78.297	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.414	56.414	0.414	0.414	1.6	1.436	0.000	0.147	0.0	0.000		78.209	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.489	56.489	0.489	0.489	1.5	1.697	0.000	0.343	0.0	0.000		74.253	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.491	56.491	0.491	0.491	1.2	1.702	0.000	0.344	0.0	0.000		74.168	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.661	56.661	0.661	0.661	1.3	2.293	0.000	0.885	0.0	0.000		65.203	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.664	56.664	0.664	0.664	0.9	2.304	0.000	0.884	0.0	0.000		65.039	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.731	56.731	0.731	0.731	1.0	2.534	0.000	1.419	0.0	0.000		61.542	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.739	56.739	0.739	0.739	0.7	2.564	0.000	1.424	0.0	0.000		61.088	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.763	56.763	0.763	0.763	0.9	2.646	0.000	1.910	0.0	0.000		59.849	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.766	56.766	0.766	0.766	0.6	2.656	0.000	1.906	0.0	0.000		59.685	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.790	56.790	0.790	0.790	0.7	2.740	0.000	2.727	0.0	0.000		58.419	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.789	56.789	0.789	0.789	0.4	2.737	0.000	2.726	0.0	0.000		58.469	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.790	56.790	0.790	0.790	0.6	2.741	0.000	3.332	0.0	0.000		58.407	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.782	56.782	0.782	0.782	0.4	2.714	0.000	3.326	0.0	0.000		58.816	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.781	56.781	0.781	0.781	0.5	2.708	0.000	3.789	0.0	0.000		58.895	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.763	56.763	0.763	0.763	0.3	2.647	0.000	3.763	0.0	0.000		59.833	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.777	56.777	0.777	0.777	6.1	2.695	0.000	0.123	0.0	0.000		59.099	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.778	56.778	0.778	0.778	5.8	2.698	0.000	0.123	0.0	0.000		59.057	OK
FEH: 30 years: +40 %: 30 mins: Summer	56.985	56.985	0.985	0.985	4.1	3.416	0.000	0.321	0.0	0.000	15	48.159	OK
FEH: 30 years: +40 %: 30 mins: Winter	56.983	56.983	0.983	0.983	3.8	3.410	0.000	0.321	0.0	0.000	15	48.247	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.167	57.167	1.167	1.167	3.5	4.048	0.000	0.764	0.0	0.000		38.568	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.167	57.167	1.167	1.167	2.8	4.048	0.000	0.763	0.0	0.000		38.566	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.394	57.394	1.394	1.394	2.6	4.833	0.000	1.778	0.0	0.000		26.646	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.398	57.398	1.398	1.398	1.9	4.850	0.000	1.776	0.0	0.000		26.398	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.468	57.468	1.468	1.468	2.1	5.093	0.000	2.737	0.0	0.000		22.708	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.479	57.479	1.479	1.479	1.4	5.131	0.000	2.737	0.0	0.000		22.125	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.489	57.489	1.489	1.489	1.7	5.166	0.000	3.588	0.0	0.000	240	21.599	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.500	57.500	1.500	1.500	1.2	5.204	0.000	3.594	0.0	0.000	220	21.022	OK

Individual House Soakaways: Parcel Res8 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.494	57.494	1.494	1.494	1.3	5.181	0.000	4.978	0.0	0.000	280	21.365	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.492	57.492	1.492	1.492	0.8	5.174	0.000	4.981	0.0	0.000	265	21.481	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.475	57.475	1.475	1.475	1.0	5.116	0.000	6.014	0.0	0.000	300	22.355	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.465	57.465	1.465	1.465	0.7	5.080	0.000	6.031	0.0	0.000	275	22.899	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.446	57.446	1.446	1.446	0.9	5.017	0.000	6.779	0.0	0.000	305	23.864	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.420	57.420	1.420	1.420	0.6	4.925	0.000	6.787	0.0	0.000	280	25.258	OK
FEH: 100 years: +40 %: 15 mins: Summer	56.985	56.985	0.985	0.985	7.7	3.415	0.000	0.153	0.0	0.000		48.169	OK
FEH: 100 years: +40 %: 15 mins: Winter	56.985	56.985	0.985	0.985	7.3	3.415	0.000	0.153	0.0	0.000		48.171	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.253	57.253	1.253	1.253	5.2	4.348	0.000	0.403	0.0	0.000		34.013	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.255	57.255	1.255	1.255	4.9	4.354	0.000	0.404	0.0	0.000		33.925	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.500	57.500	1.500	1.500	4.5	5.204	0.000	0.970	0.0	0.000		21.023	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.500	57.500	1.500	1.500	3.6	5.204	0.000	0.970	0.0	0.000		21.020	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.752	57.752	1.752	1.752	3.3	6.074	0.000	2.215	0.0	0.000		7.825	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.759	57.759	1.759	1.759	2.4	6.102	0.000	2.215	0.0	0.000		7.388	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.829	57.829	1.829	1.829	2.6	6.344	0.000	3.381	0.0	0.000		3.724	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.847	57.847	1.847	1.847	1.8	6.406	0.000	3.388	0.0	0.000		2.778	OK
FEH: 100 years: +40 %: 240 mins: Summer	57.857	57.857	1.857	1.857	2.1	6.442	0.000	4.442	0.0	0.000		2.229	OK
FEH: 100 years: +40 %: 240 mins: Winter	57.869	57.869	1.869	1.869	1.4	6.482	0.000	4.441	0.0	0.000		1.629	OK
FEH: 100 years: +40 %: 360 mins: Summer	57.859	57.859	1.859	1.859	1.6	6.448	0.000	6.152	0.0	0.000	375	2.141	OK
FEH: 100 years: +40 %: 360 mins: Winter	57.856	57.856	1.856	1.856	1.0	6.436	0.000	6.138	0.0	0.000	365	2.330	OK
FEH: 100 years: +40 %: 480 mins: Summer	57.834	57.834	1.834	1.834	1.3	6.362	0.000	7.425	0.0	0.000	395	3.442	OK
FEH: 100 years: +40 %: 480 mins: Winter	57.819	57.819	1.819	1.819	0.8	6.308	0.000	7.428	0.0	0.000	380	4.270	OK
FEH: 100 years: +40 %: 600 mins: Summer	57.798	57.798	1.798	1.798	1.1	6.236	0.000	8.362	0.0	0.000	405	5.355	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.766	57.766	1.766	1.766	0.7	6.127	0.000	8.370	0.0	0.000	385	7.020	OK

Individual House Soakaways: Parcel Res9 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by:	Approved By:
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res9 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.400
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.0529
Safety Factor	2.0
Total Volume (m³)	6.589

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res9 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res9 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res9 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.335	56.335	0.335	0.335	2.6	1.162	0.000	0.050	0.0	0.000		82.372	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.334	56.334	0.334	0.334	2.5	1.159	0.000	0.050	0.0	0.000		82.418	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.415	56.415	0.415	0.415	1.7	1.439	0.000	0.125	0.0	0.000		78.162	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.416	56.416	0.416	0.416	1.6	1.445	0.000	0.126	0.0	0.000		78.074	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.495	56.495	0.495	0.495	1.5	1.716	0.000	0.295	0.0	0.000		73.953	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.496	56.496	0.496	0.496	1.2	1.722	0.000	0.295	0.0	0.000		73.866	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.675	56.675	0.675	0.675	1.3	2.341	0.000	0.765	0.0	0.000		64.476	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.678	56.678	0.678	0.678	0.9	2.351	0.000	0.765	0.0	0.000		64.313	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.754	56.754	0.754	0.754	1.0	2.614	0.000	1.242	0.0	0.000		60.323	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.761	56.761	0.761	0.761	0.7	2.641	0.000	1.246	0.0	0.000		59.926	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.789	56.789	0.789	0.789	0.9	2.738	0.000	1.692	0.0	0.000		58.449	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.795	56.795	0.795	0.795	0.6	2.758	0.000	1.689	0.0	0.000		58.148	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.819	56.819	0.819	0.819	0.7	2.841	0.000	2.470	0.0	0.000		56.879	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.820	56.820	0.820	0.820	0.4	2.845	0.000	2.470	0.0	0.000		56.822	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.822	56.822	0.822	0.822	0.6	2.852	0.000	3.077	0.0	0.000		56.710	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.819	56.819	0.819	0.819	0.4	2.840	0.000	3.072	0.0	0.000		56.896	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.817	56.817	0.817	0.817	0.5	2.834	0.000	3.557	0.0	0.000		56.997	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.804	56.804	0.804	0.804	0.3	2.789	0.000	3.533	0.0	0.000		57.677	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.780	56.780	0.780	0.780	6.1	2.704	0.000	0.103	0.0	0.000		58.957	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.781	56.781	0.781	0.781	5.8	2.707	0.000	0.103	0.0	0.000		58.914	OK
FEH: 30 years: +40 %: 30 mins: Summer	56.991	56.991	0.991	0.991	4.1	3.437	0.000	0.271	0.0	0.000	20	47.837	OK
FEH: 30 years: +40 %: 30 mins: Winter	56.989	56.989	0.989	0.989	3.8	3.431	0.000	0.270	0.0	0.000	20	47.925	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.180	57.180	1.180	1.180	3.5	4.095	0.000	0.647	0.0	0.000		37.850	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.180	57.180	1.180	1.180	2.8	4.095	0.000	0.647	0.0	0.000		37.848	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.423	57.423	1.423	1.423	2.6	4.935	0.000	1.526	0.0	0.000		25.110	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.427	57.427	1.427	1.427	1.9	4.951	0.000	1.524	0.0	0.000		24.869	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.515	57.515	1.515	1.515	2.1	5.254	0.000	2.380	0.0	0.000		20.257	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.524	57.524	1.524	1.524	1.4	5.285	0.000	2.380	0.0	0.000		19.798	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.542	57.542	1.542	1.542	1.7	5.347	0.000	3.161	0.0	0.000		18.851	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.558	57.558	1.558	1.558	1.2	5.404	0.000	3.166	0.0	0.000		17.994	OK

Individual House Soakaways: Parcel Res9 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.550	57.550	1.550	1.550	1.3	5.376	0.000	4.487	0.0	0.000	330	18.412	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.551	57.551	1.551	1.551	0.8	5.380	0.000	4.490	0.0	0.000	325	18.353	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.536	57.536	1.536	1.536	1.0	5.328	0.000	5.530	0.0	0.000	360	19.147	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.534	57.534	1.534	1.534	0.7	5.320	0.000	5.545	0.0	0.000	345	19.263	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.513	57.513	1.513	1.513	0.9	5.249	0.000	6.337	0.0	0.000	375	20.335	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.497	57.497	1.497	1.497	0.6	5.194	0.000	6.345	0.0	0.000	350	21.179	OK
FEH: 100 years: +40 %: 15 mins: Summer	56.988	56.988	0.988	0.988	7.7	3.427	0.000	0.128	0.0	0.000		47.988	OK
FEH: 100 years: +40 %: 15 mins: Winter	56.988	56.988	0.988	0.988	7.3	3.427	0.000	0.128	0.0	0.000		47.991	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.261	57.261	1.261	1.261	5.2	4.375	0.000	0.339	0.0	0.000		33.603	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.263	57.263	1.263	1.263	4.9	4.381	0.000	0.339	0.0	0.000		33.514	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.517	57.517	1.517	1.517	4.5	5.265	0.000	0.820	0.0	0.000		20.099	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.517	57.517	1.517	1.517	3.6	5.265	0.000	0.820	0.0	0.000		20.097	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.788	57.788	1.788	1.788	3.3	6.202	0.000	1.898	0.0	0.000		5.872	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.796	57.796	1.796	1.796	2.4	6.229	0.000	1.898	0.0	0.000		5.464	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.887	57.887	1.887	1.887	2.6	6.545	0.000	2.936	0.0	0.000		0.670	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.902	57.902	1.902	1.902	1.8	6.598	0.000	2.943	0.0	0.000		-0.128	Flood Risk
FEH: 100 years: +40 %: 240 mins: Summer	57.923	57.923	1.923	1.923	2.1	6.671	0.000	3.908	0.0	0.000		-1.245	Flood Risk
FEH: 100 years: +40 %: 240 mins: Winter	57.940	57.940	1.940	1.940	1.4	6.730	0.000	3.907	0.0	0.000		-2.134	Flood Risk
FEH: 100 years: +40 %: 360 mins: Summer	57.930	57.930	1.930	1.930	1.6	6.692	0.000	5.539	0.0	0.000		-1.565	Flood Risk
FEH: 100 years: +40 %: 360 mins: Winter	57.930	57.930	1.930	1.930	1.0	6.693	0.000	5.527	0.0	0.000		-1.581	Flood Risk
FEH: 100 years: +40 %: 480 mins: Summer	57.911	57.911	1.911	1.911	1.3	6.627	0.000	6.819	0.0	0.000	485	-0.578	Flood Risk
FEH: 100 years: +40 %: 480 mins: Winter	57.905	57.905	1.905	1.905	0.8	6.607	0.000	6.822	0.0	0.000	465	-0.274	Flood Risk
FEH: 100 years: +40 %: 600 mins: Summer	57.881	57.881	1.881	1.881	1.1	6.525	0.000	7.810	0.0	0.000	495	0.968	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.863	57.863	1.863	1.863	0.7	6.462	0.000	7.817	0.0	0.000	465	1.929	OK

Individual House Soakaways: Parcel Res12 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by:	Approved By:
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res12 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.400
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.0526
Safety Factor	2.0
Total Volume (m³)	6.589

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res12 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res12 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res12 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

SUM

Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.335	56.335	0.335	0.335	2.6	1.162	0.000	0.050	0.0	0.000		82.371	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.334	56.334	0.334	0.334	2.5	1.159	0.000	0.050	0.0	0.000		82.416	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.415	56.415	0.415	0.415	1.7	1.439	0.000	0.125	0.0	0.000		78.158	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.417	56.417	0.417	0.417	1.6	1.445	0.000	0.125	0.0	0.000		78.070	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.495	56.495	0.495	0.495	1.5	1.717	0.000	0.293	0.0	0.000		73.944	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.496	56.496	0.496	0.496	1.2	1.723	0.000	0.294	0.0	0.000		73.858	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.675	56.675	0.675	0.675	1.3	2.342	0.000	0.762	0.0	0.000		64.456	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.678	56.678	0.678	0.678	0.9	2.353	0.000	0.762	0.0	0.000		64.293	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.754	56.754	0.754	0.754	1.0	2.617	0.000	1.237	0.0	0.000		60.289	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.762	56.762	0.762	0.762	0.7	2.643	0.000	1.241	0.0	0.000		59.894	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.790	56.790	0.790	0.790	0.9	2.741	0.000	1.686	0.0	0.000		58.406	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.796	56.796	0.796	0.796	0.6	2.761	0.000	1.683	0.0	0.000		58.105	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.820	56.820	0.820	0.820	0.7	2.844	0.000	2.463	0.0	0.000		56.833	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.821	56.821	0.821	0.821	0.4	2.848	0.000	2.462	0.0	0.000		56.775	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.823	56.823	0.823	0.823	0.6	2.856	0.000	3.069	0.0	0.000		56.661	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.820	56.820	0.820	0.820	0.4	2.844	0.000	3.064	0.0	0.000		56.841	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.818	56.818	0.818	0.818	0.5	2.837	0.000	3.550	0.0	0.000		56.943	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.805	56.805	0.805	0.805	0.3	2.793	0.000	3.526	0.0	0.000		57.615	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.780	56.780	0.780	0.780	6.1	2.705	0.000	0.103	0.0	0.000		58.953	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.781	56.781	0.781	0.781	5.8	2.707	0.000	0.103	0.0	0.000		58.911	OK
FEH: 30 years: +40 %: 30 mins: Summer	56.991	56.991	0.991	0.991	4.1	3.438	0.000	0.269	0.0	0.000	20	47.828	OK
FEH: 30 years: +40 %: 30 mins: Winter	56.989	56.989	0.989	0.989	3.8	3.432	0.000	0.269	0.0	0.000	20	47.917	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.181	57.181	1.181	1.181	3.5	4.096	0.000	0.644	0.0	0.000		37.831	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.181	57.181	1.181	1.181	2.8	4.097	0.000	0.644	0.0	0.000		37.829	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.424	57.424	1.424	1.424	2.6	4.938	0.000	1.519	0.0	0.000		25.065	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.428	57.428	1.428	1.428	1.9	4.953	0.000	1.517	0.0	0.000		24.827	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.516	57.516	1.516	1.516	2.1	5.259	0.000	2.370	0.0	0.000		20.190	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.525	57.525	1.525	1.525	1.4	5.289	0.000	2.370	0.0	0.000		19.734	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.543	57.543	1.543	1.543	1.7	5.353	0.000	3.149	0.0	0.000		18.767	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.560	57.560	1.560	1.560	1.2	5.409	0.000	3.154	0.0	0.000		17.910	OK

Individual House Soakaways: Parcel Res12 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.552	57.552	1.552	1.552	1.3	5.382	0.000	4.473	0.0	0.000	330	18.325	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.553	57.553	1.553	1.553	0.8	5.386	0.000	4.475	0.0	0.000	330	18.263	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.538	57.538	1.538	1.538	1.0	5.334	0.000	5.515	0.0	0.000	365	19.056	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.536	57.536	1.536	1.536	0.7	5.327	0.000	5.530	0.0	0.000	345	19.159	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.515	57.515	1.515	1.515	0.9	5.256	0.000	6.324	0.0	0.000	375	20.234	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.500	57.500	1.500	1.500	0.6	5.201	0.000	6.331	0.0	0.000	355	21.061	OK
FEH: 100 years: +40 %: 15 mins: Summer	56.988	56.988	0.988	0.988	7.7	3.427	0.000	0.127	0.0	0.000		47.983	OK
FEH: 100 years: +40 %: 15 mins: Winter	56.988	56.988	0.988	0.988	7.3	3.427	0.000	0.127	0.0	0.000		47.986	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.261	57.261	1.261	1.261	5.2	4.376	0.000	0.337	0.0	0.000		33.592	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.263	57.263	1.263	1.263	4.9	4.382	0.000	0.337	0.0	0.000		33.503	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.518	57.518	1.518	1.518	4.5	5.266	0.000	0.816	0.0	0.000		20.075	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.518	57.518	1.518	1.518	3.6	5.267	0.000	0.816	0.0	0.000		20.072	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.789	57.789	1.789	1.789	3.3	6.206	0.000	1.889	0.0	0.000		5.816	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.797	57.797	1.797	1.797	2.4	6.233	0.000	1.889	0.0	0.000		5.411	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.889	57.889	1.889	1.889	2.6	6.551	0.000	2.924	0.0	0.000		0.587	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.904	57.904	1.904	1.904	1.8	6.603	0.000	2.930	0.0	0.000		-0.207	Flood Risk
FEH: 100 years: +40 %: 240 mins: Summer	57.925	57.925	1.925	1.925	2.1	6.678	0.000	3.892	0.0	0.000		-1.350	Flood Risk
FEH: 100 years: +40 %: 240 mins: Winter	57.942	57.942	1.942	1.942	1.4	6.737	0.000	3.892	0.0	0.000		-2.239	Flood Risk
FEH: 100 years: +40 %: 360 mins: Summer	57.932	57.932	1.932	1.932	1.6	6.699	0.000	5.521	0.0	0.000		-1.673	Flood Risk
FEH: 100 years: +40 %: 360 mins: Winter	57.932	57.932	1.932	1.932	1.0	6.701	0.000	5.509	0.0	0.000		-1.692	Flood Risk
FEH: 100 years: +40 %: 480 mins: Summer	57.913	57.913	1.913	1.913	1.3	6.635	0.000	6.801	0.0	0.000	485	-0.693	Flood Risk
FEH: 100 years: +40 %: 480 mins: Winter	57.907	57.907	1.907	1.907	0.8	6.616	0.000	6.804	0.0	0.000	465	-0.403	Flood Risk
FEH: 100 years: +40 %: 600 mins: Summer	57.884	57.884	1.884	1.884	1.1	6.534	0.000	7.792	0.0	0.000	500	0.841	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.866	57.866	1.866	1.866	0.7	6.472	0.000	7.800	0.0	0.000	470	1.782	OK

Individual House Soakaways: Parcel Res13 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			



Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res13 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			



Soakaway

Type : Soakaway

Dimensions	
Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	3.400
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.05
Safety Factor	2.0
Total Volume (m³)	6.589

Inlets	
Inlet	
Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res13 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details:	AKT II:			
Type: Network Design Criteria	White Collar Factory			
Storm Phase: Phase	1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res13 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title:	AKT II:			
Rainfall Analysis Criteria	White Collar Factory			
	1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res13 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.335	56.335	0.335	0.335	2.6	1.163	0.000	0.048	0.0	0.000		82.356	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.334	56.334	0.334	0.334	2.5	1.160	0.000	0.048	0.0	0.000		82.402	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.415	56.415	0.415	0.415	1.7	1.441	0.000	0.120	0.0	0.000		78.127	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.417	56.417	0.417	0.417	1.6	1.447	0.000	0.120	0.0	0.000		78.038	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.496	56.496	0.496	0.496	1.5	1.721	0.000	0.282	0.0	0.000		73.874	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.498	56.498	0.498	0.498	1.2	1.727	0.000	0.283	0.0	0.000		73.787	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.679	56.679	0.679	0.679	1.3	2.354	0.000	0.733	0.0	0.000		64.278	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.682	56.682	0.682	0.682	0.9	2.364	0.000	0.733	0.0	0.000		64.122	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.760	56.760	0.760	0.760	1.0	2.636	0.000	1.194	0.0	0.000		60.000	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.767	56.767	0.767	0.767	0.7	2.661	0.000	1.198	0.0	0.000		59.619	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.797	56.797	0.797	0.797	0.9	2.765	0.000	1.631	0.0	0.000		58.030	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.803	56.803	0.803	0.803	0.6	2.785	0.000	1.628	0.0	0.000		57.731	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.828	56.828	0.828	0.828	0.7	2.871	0.000	2.395	0.0	0.000		56.424	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.829	56.829	0.829	0.829	0.4	2.876	0.000	2.395	0.0	0.000		56.353	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.832	56.832	0.832	0.832	0.6	2.884	0.000	2.999	0.0	0.000		56.227	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.829	56.829	0.829	0.829	0.4	2.876	0.000	2.995	0.0	0.000		56.353	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.827	56.827	0.827	0.827	0.5	2.869	0.000	3.484	0.0	0.000		56.458	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.816	56.816	0.816	0.816	0.3	2.829	0.000	3.460	0.0	0.000		57.065	OK
FEH: 30 years: +40 %: 15 mins: Summer	56.781	56.781	0.781	0.781	6.1	2.707	0.000	0.098	0.0	0.000		58.920	OK
FEH: 30 years: +40 %: 15 mins: Winter	56.781	56.781	0.781	0.781	5.8	2.710	0.000	0.098	0.0	0.000		58.877	OK
FEH: 30 years: +40 %: 30 mins: Summer	56.992	56.992	0.992	0.992	4.1	3.443	0.000	0.257	0.0	0.000		47.753	OK
FEH: 30 years: +40 %: 30 mins: Winter	56.991	56.991	0.991	0.991	3.8	3.437	0.000	0.257	0.0	0.000	20	47.842	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.184	57.184	1.184	1.184	3.5	4.108	0.000	0.616	0.0	0.000		37.662	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.184	57.184	1.184	1.184	2.8	4.108	0.000	0.616	0.0	0.000		37.661	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.431	57.431	1.431	1.431	2.6	4.963	0.000	1.458	0.0	0.000		24.675	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.435	57.435	1.435	1.435	1.9	4.977	0.000	1.456	0.0	0.000		24.466	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.527	57.527	1.527	1.527	2.1	5.297	0.000	2.282	0.0	0.000		19.608	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.535	57.535	1.535	1.535	1.4	5.325	0.000	2.282	0.0	0.000		19.182	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.557	57.557	1.557	1.557	1.7	5.402	0.000	3.041	0.0	0.000		18.018	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.574	57.574	1.574	1.574	1.2	5.457	0.000	3.045	0.0	0.000		17.176	OK

Individual House Soakaways: Parcel Res13 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.566	57.566	1.566	1.566	1.3	5.432	0.000	4.343	0.0	0.000	350	17.555	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.568	57.568	1.568	1.568	0.8	5.438	0.000	4.346	0.0	0.000	345	17.470	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.553	57.553	1.553	1.553	1.0	5.387	0.000	5.382	0.0	0.000	380	18.239	OK
FEH: 30 years: +40 %: 480 mins: Winter	57.553	57.553	1.553	1.553	0.7	5.387	0.000	5.397	0.0	0.000	365	18.238	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.533	57.533	1.533	1.533	0.9	5.316	0.000	6.197	0.0	0.000	395	19.323	OK
FEH: 30 years: +40 %: 600 mins: Winter	57.519	57.519	1.519	1.519	0.6	5.269	0.000	6.205	0.0	0.000	370	20.029	OK
FEH: 100 years: +40 %: 15 mins: Summer	56.989	56.989	0.989	0.989	7.7	3.430	0.000	0.122	0.0	0.000		47.941	OK
FEH: 100 years: +40 %: 15 mins: Winter	56.989	56.989	0.989	0.989	7.3	3.430	0.000	0.122	0.0	0.000		47.944	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.263	57.263	1.263	1.263	5.2	4.382	0.000	0.322	0.0	0.000		33.496	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.265	57.265	1.265	1.265	4.9	4.388	0.000	0.322	0.0	0.000		33.407	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.522	57.522	1.522	1.522	4.5	5.281	0.000	0.780	0.0	0.000		19.858	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.522	57.522	1.522	1.522	3.6	5.281	0.000	0.780	0.0	0.000		19.856	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.798	57.798	1.798	1.798	3.3	6.238	0.000	1.812	0.0	0.000		5.326	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.806	57.806	1.806	1.806	2.4	6.263	0.000	1.812	0.0	0.000		4.958	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.903	57.903	1.903	1.903	2.6	6.598	0.000	2.814	0.0	0.000		-0.139	Flood Risk
FEH: 100 years: +40 %: 180 mins: Winter	57.917	57.917	1.917	1.917	1.8	6.648	0.000	2.820	0.0	0.000		-0.896	Flood Risk
FEH: 100 years: +40 %: 240 mins: Summer	57.943	57.943	1.943	1.943	2.1	6.741	0.000	3.757	0.0	0.000		-2.300	Flood Risk
FEH: 100 years: +40 %: 240 mins: Winter	57.960	57.960	1.960	1.960	1.4	6.797	0.000	3.757	0.0	0.000		-3.153	Flood Risk
FEH: 100 years: +40 %: 360 mins: Summer	57.950	57.950	1.950	1.950	1.6	6.764	0.000	5.359	0.0	0.000		-2.648	Flood Risk
FEH: 100 years: +40 %: 360 mins: Winter	57.951	57.951	1.951	1.951	1.0	6.767	0.000	5.348	0.0	0.000		-2.694	Flood Risk
FEH: 100 years: +40 %: 480 mins: Summer	57.933	57.933	1.933	1.933	1.3	6.703	0.000	6.635	0.0	0.000	510	-1.725	Flood Risk
FEH: 100 years: +40 %: 480 mins: Winter	57.929	57.929	1.929	1.929	0.8	6.691	0.000	6.637	0.0	0.000	490	-1.546	Flood Risk
FEH: 100 years: +40 %: 600 mins: Summer	57.905	57.905	1.905	1.905	1.1	6.607	0.000	7.635	0.0	0.000	530	-0.264	Flood Risk
FEH: 100 years: +40 %: 600 mins: Winter	57.890	57.890	1.890	1.890	0.7	6.557	0.000	7.642	0.0	0.000	500	0.490	OK

Individual House Soakaways: Parcel Res14 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by:	Approved By:
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res14 Baldock	Date: 08/08/2025		
	Designed by: MJD	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF		



Soakaway

Type : Soakaway

Dimensions

Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	2.700
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.3593
Safety Factor	2.0
Total Volume (m³)	4.155

Inlets

Inlet

Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res14 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res14 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res14 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

SUM

Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.469	56.469	0.469	0.469	2.6	1.026	0.000	0.307	0.0	0.000		75.304	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.468	56.468	0.468	0.468	2.5	1.024	0.000	0.306	0.0	0.000		75.364	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.547	56.547	0.547	0.547	1.7	1.196	0.000	0.701	0.0	0.000		71.229	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.549	56.549	0.549	0.549	1.6	1.201	0.000	0.704	0.0	0.000		71.105	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.585	56.585	0.585	0.585	1.5	1.279	0.000	1.337	0.0	0.000		69.210	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.583	56.583	0.583	0.583	1.2	1.275	0.000	1.341	0.0	0.000		69.311	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.708	56.708	0.708	0.708	1.3	1.548	0.000	2.458	0.0	0.000		62.755	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.684	56.684	0.684	0.684	0.9	1.496	0.000	2.457	0.0	0.000		63.994	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.723	56.723	0.723	0.723	1.0	1.582	0.000	3.061	0.0	0.000		61.928	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.681	56.681	0.681	0.681	0.7	1.489	0.000	3.073	0.0	0.000		64.163	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.709	56.709	0.709	0.709	0.9	1.550	0.000	3.431	0.0	0.000		62.698	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.649	56.649	0.649	0.649	0.6	1.419	0.000	3.425	0.0	0.000		65.863	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.653	56.653	0.653	0.653	0.7	1.428	0.000	3.864	0.0	0.000		65.628	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.575	56.575	0.575	0.575	0.4	1.258	0.000	3.864	0.0	0.000		69.724	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.594	56.594	0.594	0.594	0.6	1.300	0.000	4.122	0.0	0.000		68.725	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.507	56.507	0.507	0.507	0.4	1.109	0.000	4.116	0.0	0.000		73.321	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.543	56.543	0.543	0.543	0.5	1.188	0.000	4.314	0.0	0.000		71.405	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.448	56.448	0.448	0.448	0.3	0.980	0.000	4.284	0.0	0.000		76.425	OK
FEH: 30 years: +40 %: 15 mins: Summer	57.091	57.091	1.091	1.091	6.1	2.386	0.000	0.705	0.0	0.000	5	42.569	OK
FEH: 30 years: +40 %: 15 mins: Winter	57.092	57.092	1.092	1.092	5.8	2.389	0.000	0.706	0.0	0.000	5	42.499	OK
FEH: 30 years: +40 %: 30 mins: Summer	57.303	57.303	1.303	1.303	4.1	2.848	0.000	1.655	0.0	0.000	20	31.455	OK
FEH: 30 years: +40 %: 30 mins: Winter	57.301	57.301	1.301	1.301	3.8	2.845	0.000	1.652	0.0	0.000	20	31.528	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.390	57.390	1.390	1.390	3.5	3.040	0.000	3.150	0.0	0.000	35	26.850	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.382	57.382	1.382	1.382	2.8	3.024	0.000	3.149	0.0	0.000	30	27.237	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.483	57.483	1.483	1.483	2.6	3.245	0.000	5.122	0.0	0.000	50	21.919	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.431	57.431	1.431	1.431	1.9	3.128	0.000	5.115	0.0	0.000	45	24.711	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.446	57.446	1.446	1.446	2.1	3.164	0.000	6.078	0.0	0.000	50	23.845	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.358	57.358	1.358	1.358	1.4	2.970	0.000	6.077	0.0	0.000	50	28.523	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.376	57.376	1.376	1.376	1.7	3.008	0.000	6.609	0.0	0.000	50	27.602	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.261	57.261	1.261	1.261	1.2	2.758	0.000	6.620	0.0	0.000	45	33.635	OK

Individual House Soakaways: Parcel Res14 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.229	57.229	1.229	1.229	1.3	2.688	0.000	7.212	0.0	0.000	45	35.308	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.079	57.079	1.079	1.079	0.8	2.361	0.000	7.218	0.0	0.000	35	43.187	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.100	57.100	1.100	1.100	1.0	2.407	0.000	7.590	0.0	0.000	35	42.082	OK
FEH: 30 years: +40 %: 480 mins: Winter	56.938	56.938	0.938	0.938	0.7	2.052	0.000	7.614	0.0	0.000		50.607	OK
FEH: 30 years: +40 %: 600 mins: Summer	56.995	56.995	0.995	0.995	0.9	2.175	0.000	7.860	0.0	0.000	20	47.654	OK
FEH: 30 years: +40 %: 600 mins: Winter	56.823	56.823	0.823	0.823	0.6	1.801	0.000	7.872	0.0	0.000		56.654	OK
FEH: 100 years: +40 %: 15 mins: Summer	57.382	57.382	1.382	1.382	7.7	3.024	0.000	0.892	0.0	0.000		27.234	OK
FEH: 100 years: +40 %: 15 mins: Winter	57.383	57.383	1.383	1.383	7.3	3.024	0.000	0.891	0.0	0.000		27.225	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.658	57.658	1.658	1.658	5.2	3.625	0.000	2.103	0.0	0.000		12.755	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.661	57.661	1.661	1.661	4.9	3.632	0.000	2.105	0.0	0.000		12.584	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.787	57.787	1.787	1.787	4.5	3.906	0.000	4.041	0.0	0.000	55	5.996	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.776	57.776	1.776	1.776	3.6	3.886	0.000	4.040	0.0	0.000	50	6.483	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.861	57.861	1.861	1.861	3.3	4.070	0.000	6.423	0.0	0.000	65	2.045	OK
FEH: 100 years: +40 %: 120 mins: Winter	57.798	57.798	1.798	1.798	2.4	3.931	0.000	6.421	0.0	0.000	60	5.386	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.801	57.801	1.801	1.801	2.6	3.941	0.000	7.551	0.0	0.000	70	5.167	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.691	57.691	1.691	1.691	1.8	3.699	0.000	7.568	0.0	0.000	70	10.987	OK
FEH: 100 years: +40 %: 240 mins: Summer	57.712	57.712	1.712	1.712	2.1	3.744	0.000	8.225	0.0	0.000	75	9.899	OK
FEH: 100 years: +40 %: 240 mins: Winter	57.570	57.570	1.570	1.570	1.4	3.435	0.000	8.224	0.0	0.000	70	17.339	OK
FEH: 100 years: +40 %: 360 mins: Summer	57.526	57.526	1.526	1.526	1.6	3.337	0.000	8.958	0.0	0.000	70	19.694	OK
FEH: 100 years: +40 %: 360 mins: Winter	57.342	57.342	1.342	1.342	1.0	2.934	0.000	8.940	0.0	0.000	65	29.387	OK
FEH: 100 years: +40 %: 480 mins: Summer	57.366	57.366	1.366	1.366	1.3	2.987	0.000	9.414	0.0	0.000	60	28.115	OK
FEH: 100 years: +40 %: 480 mins: Winter	57.164	57.164	1.164	1.164	0.8	2.546	0.000	9.420	0.0	0.000	55	38.740	OK
FEH: 100 years: +40 %: 600 mins: Summer	57.234	57.234	1.234	1.234	1.1	2.699	0.000	9.738	0.0	0.000	55	35.038	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.023	57.023	1.023	1.023	0.7	2.238	0.000	9.750	0.0	0.000	35	46.144	OK

Individual House Soakaways: Parcel Res15 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res15 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Soakaway

Type : Soakaway

Dimensions	
Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	2.600
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.4032
Safety Factor	2.0
Total Volume (m³)	3.853

Inlets

Inlet	
Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res15 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res15 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res15 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.494	56.494	0.494	0.494	2.6	1.003	0.000	0.348	0.0	0.000		73.977	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.493	56.493	0.493	0.493	2.5	1.000	0.000	0.347	0.0	0.000		74.039	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.572	56.572	0.572	0.572	1.7	1.161	0.000	0.778	0.0	0.000		69.862	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.575	56.575	0.575	0.575	1.6	1.166	0.000	0.781	0.0	0.000		69.730	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.610	56.610	0.610	0.610	1.5	1.237	0.000	1.431	0.0	0.000		67.884	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.602	56.602	0.602	0.602	1.2	1.222	0.000	1.435	0.0	0.000		68.282	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.726	56.726	0.726	0.726	1.3	1.473	0.000	2.524	0.0	0.000		61.778	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.696	56.696	0.696	0.696	0.9	1.411	0.000	2.523	0.0	0.000		63.374	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.733	56.733	0.733	0.733	1.0	1.486	0.000	3.089	0.0	0.000		61.444	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.683	56.683	0.683	0.683	0.7	1.385	0.000	3.101	0.0	0.000		64.062	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.714	56.714	0.714	0.714	0.9	1.448	0.000	3.438	0.0	0.000		62.427	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.642	56.642	0.642	0.642	0.6	1.303	0.000	3.432	0.0	0.000		66.175	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.648	56.648	0.648	0.648	0.7	1.315	0.000	3.864	0.0	0.000		65.861	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.562	56.562	0.562	0.562	0.5	1.139	0.000	3.864	0.0	0.000		70.431	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.585	56.585	0.585	0.585	0.6	1.186	0.000	4.122	0.0	0.000		69.221	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.490	56.490	0.490	0.490	0.4	0.994	0.000	4.116	0.0	0.000		74.199	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.531	56.531	0.531	0.531	0.5	1.078	0.000	4.314	0.0	0.000		72.021	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.430	56.430	0.430	0.430	0.3	0.873	0.000	4.284	0.0	0.000		77.352	OK
FEH: 30 years: +40 %: 15 mins: Summer	57.150	57.150	1.150	1.150	6.1	2.332	0.000	0.801	0.0	0.000		39.492	OK
FEH: 30 years: +40 %: 15 mins: Winter	57.151	57.151	1.151	1.151	5.8	2.334	0.000	0.802	0.0	0.000		39.415	OK
FEH: 30 years: +40 %: 30 mins: Summer	57.363	57.363	1.363	1.363	4.1	2.766	0.000	1.839	0.0	0.000	20	28.213	OK
FEH: 30 years: +40 %: 30 mins: Winter	57.362	57.362	1.362	1.362	3.8	2.763	0.000	1.835	0.0	0.000	20	28.282	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.449	57.449	1.449	1.449	3.5	2.939	0.000	3.376	0.0	0.000	35	23.722	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.427	57.427	1.427	1.427	2.8	2.894	0.000	3.375	0.0	0.000	30	24.891	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.521	57.521	1.521	1.521	2.6	3.087	0.000	5.263	0.0	0.000	45	19.898	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.454	57.454	1.454	1.454	1.9	2.950	0.000	5.256	0.0	0.000	40	23.446	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.465	57.465	1.465	1.465	2.1	2.969	0.000	6.137	0.0	0.000	45	22.941	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.361	57.361	1.361	1.361	1.4	2.761	0.000	6.136	0.0	0.000	40	28.343	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.385	57.385	1.385	1.385	1.7	2.809	0.000	6.629	0.0	0.000	45	27.106	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.248	57.248	1.248	1.248	1.2	2.533	0.000	6.641	0.0	0.000	35	34.274	OK

Individual House Soakaways: Parcel Res15 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.220	57.220	1.220	1.220	1.3	2.475	0.000	7.212	0.0	0.000	35	35.767	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.053	57.053	1.053	1.053	0.8	2.137	0.000	7.218	0.0	0.000	25	44.543	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.083	57.083	1.083	1.083	1.0	2.196	0.000	7.590	0.0	0.000	30	43.013	OK
FEH: 30 years: +40 %: 480 mins: Winter	56.907	56.907	0.907	0.907	0.7	1.839	0.000	7.614	0.0	0.000		52.282	OK
FEH: 30 years: +40 %: 600 mins: Summer	56.972	56.972	0.972	0.972	0.9	1.972	0.000	7.860	0.0	0.000	10	48.818	OK
FEH: 30 years: +40 %: 600 mins: Winter	56.790	56.790	0.790	0.790	0.6	1.602	0.000	7.872	0.0	0.000		58.412	OK
FEH: 100 years: +40 %: 15 mins: Summer	57.456	57.456	1.456	1.456	7.7	2.954	0.000	1.014	0.0	0.000		23.336	OK
FEH: 100 years: +40 %: 15 mins: Winter	57.457	57.457	1.457	1.457	7.3	2.955	0.000	1.013	0.0	0.000		23.323	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.735	57.735	1.735	1.735	5.2	3.521	0.000	2.337	0.0	0.000		8.631	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.739	57.739	1.739	1.739	4.9	3.528	0.000	2.339	0.0	0.000		8.442	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.862	57.862	1.862	1.862	4.5	3.777	0.000	4.332	0.0	0.000	50	1.980	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.834	57.834	1.834	1.834	3.6	3.720	0.000	4.331	0.0	0.000	45	3.469	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.908	57.908	1.908	1.908	3.3	3.872	0.000	6.601	0.0	0.000	60	-0.480	Flood Risk
FEH: 100 years: +40 %: 120 mins: Winter	57.827	57.827	1.827	1.827	2.4	3.707	0.000	6.600	0.0	0.000	55	3.804	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.824	57.824	1.824	1.824	2.6	3.700	0.000	7.625	0.0	0.000	70	3.977	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.695	57.695	1.695	1.695	1.8	3.438	0.000	7.642	0.0	0.000	60	10.776	OK
FEH: 100 years: +40 %: 240 mins: Summer	57.723	57.723	1.723	1.723	2.1	3.495	0.000	8.250	0.0	0.000	65	9.293	OK
FEH: 100 years: +40 %: 240 mins: Winter	57.555	57.555	1.555	1.555	1.4	3.154	0.000	8.250	0.0	0.000	60	18.136	OK
FEH: 100 years: +40 %: 360 mins: Summer	57.514	57.514	1.514	1.514	1.6	3.072	0.000	8.958	0.0	0.000	60	20.279	OK
FEH: 100 years: +40 %: 360 mins: Winter	57.309	57.309	1.309	1.309	1.0	2.656	0.000	8.940	0.0	0.000	55	31.077	OK
FEH: 100 years: +40 %: 480 mins: Summer	57.343	57.343	1.343	1.343	1.3	2.724	0.000	9.414	0.0	0.000	55	29.307	OK
FEH: 100 years: +40 %: 480 mins: Winter	57.124	57.124	1.124	1.124	0.8	2.280	0.000	9.420	0.0	0.000	45	40.823	OK
FEH: 100 years: +40 %: 600 mins: Summer	57.206	57.206	1.206	1.206	1.1	2.447	0.000	9.738	0.0	0.000	45	36.488	OK
FEH: 100 years: +40 %: 600 mins: Winter	56.981	56.981	0.981	0.981	0.7	1.990	0.000	9.750	0.0	0.000	20	48.343	OK

Individual House Soakaways: Parcel Res16 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Catchment Area

Type : Catchment Area

Area (ha)	0.01
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	100

Individual House Soakaways: Parcel Res16 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

 Soakaway

Type : Soakaway

Dimensions	
Exceedance Level (m)	58.000
Depth (m)	2.000
Base Level (m)	56.000
Freeboard (mm)	100
Soakaway Shape	Square
Diameter / Width (m)	2.700
Porosity (%)	30
Ineffective Storage Depth (m)	0.000
Number of Soakaways	1
Base Infiltration Rate (m/hr)	0.0036
Side Infiltration Rate (m/hr)	0.3323
Safety Factor	2.0
Total Volume (m³)	4.155

Inlets	
Inlet	
Incoming Item(s)	Catchment Area
Bypass Destination	(None)
Capacity Type	No Restriction

Individual House Soakaways: Parcel Res16 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Individual House Soakaways: Parcel Res16 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	5
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Individual House Soakaways: Parcel Res16 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

SUM

Summary Results for Soakaway: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	56.474	56.474	0.474	0.474	2.6	1.037	0.000	0.287	0.0	0.000		75.040	OK
FEH: 2 years: +40 %: 15 mins: Winter	56.473	56.473	0.473	0.473	2.5	1.035	0.000	0.287	0.0	0.000		75.100	OK
FEH: 2 years: +40 %: 30 mins: Summer	56.554	56.554	0.554	0.554	1.7	1.212	0.000	0.663	0.0	0.000		70.841	OK
FEH: 2 years: +40 %: 30 mins: Winter	56.557	56.557	0.557	0.557	1.6	1.217	0.000	0.666	0.0	0.000		70.717	OK
FEH: 2 years: +40 %: 60 mins: Summer	56.594	56.594	0.594	0.594	1.5	1.299	0.000	1.286	0.0	0.000		68.731	OK
FEH: 2 years: +40 %: 60 mins: Winter	56.594	56.594	0.594	0.594	1.2	1.301	0.000	1.290	0.0	0.000		68.701	OK
FEH: 2 years: +40 %: 120 mins: Summer	56.724	56.724	0.724	0.724	1.3	1.584	0.000	2.416	0.0	0.000		61.884	OK
FEH: 2 years: +40 %: 120 mins: Winter	56.703	56.703	0.703	0.703	0.9	1.537	0.000	2.416	0.0	0.000		63.000	OK
FEH: 2 years: +40 %: 180 mins: Summer	56.745	56.745	0.745	0.745	1.0	1.630	0.000	3.041	0.0	0.000		60.776	OK
FEH: 2 years: +40 %: 180 mins: Winter	56.705	56.705	0.705	0.705	0.7	1.541	0.000	3.052	0.0	0.000		62.915	OK
FEH: 2 years: +40 %: 240 mins: Summer	56.733	56.733	0.733	0.733	0.9	1.604	0.000	3.423	0.0	0.000		61.407	OK
FEH: 2 years: +40 %: 240 mins: Winter	56.675	56.675	0.675	0.675	0.6	1.477	0.000	3.417	0.0	0.000		64.464	OK
FEH: 2 years: +40 %: 360 mins: Summer	56.679	56.679	0.679	0.679	0.7	1.486	0.000	3.864	0.0	0.000		64.236	OK
FEH: 2 years: +40 %: 360 mins: Winter	56.604	56.604	0.604	0.604	0.4	1.320	0.000	3.864	0.0	0.000		68.223	OK
FEH: 2 years: +40 %: 480 mins: Summer	56.621	56.621	0.621	0.621	0.6	1.359	0.000	4.122	0.0	0.000		67.292	OK
FEH: 2 years: +40 %: 480 mins: Winter	56.535	56.535	0.535	0.535	0.4	1.169	0.000	4.116	0.0	0.000		71.856	OK
FEH: 2 years: +40 %: 600 mins: Summer	56.570	56.570	0.570	0.570	0.5	1.247	0.000	4.314	0.0	0.000		69.993	OK
FEH: 2 years: +40 %: 600 mins: Winter	56.475	56.475	0.475	0.475	0.3	1.038	0.000	4.284	0.0	0.000		75.020	OK
FEH: 30 years: +40 %: 15 mins: Summer	57.103	57.103	1.103	1.103	6.1	2.412	0.000	0.660	0.0	0.000		41.954	OK
FEH: 30 years: +40 %: 15 mins: Winter	57.104	57.104	1.104	1.104	5.8	2.415	0.000	0.660	0.0	0.000		41.884	OK
FEH: 30 years: +40 %: 30 mins: Summer	57.320	57.320	1.320	1.320	4.1	2.887	0.000	1.564	0.0	0.000	25	30.529	OK
FEH: 30 years: +40 %: 30 mins: Winter	57.319	57.319	1.319	1.319	3.8	2.884	0.000	1.561	0.0	0.000	25	30.606	OK
FEH: 30 years: +40 %: 60 mins: Summer	57.412	57.412	1.412	1.412	3.5	3.088	0.000	3.029	0.0	0.000	40	25.679	OK
FEH: 30 years: +40 %: 60 mins: Winter	57.409	57.409	1.409	1.409	2.8	3.084	0.000	3.029	0.0	0.000	35	25.789	OK
FEH: 30 years: +40 %: 120 mins: Summer	57.518	57.518	1.518	1.518	2.6	3.321	0.000	5.034	0.0	0.000	55	20.086	OK
FEH: 30 years: +40 %: 120 mins: Winter	57.470	57.470	1.470	1.470	1.9	3.215	0.000	5.027	0.0	0.000	50	22.623	OK
FEH: 30 years: +40 %: 180 mins: Summer	57.490	57.490	1.490	1.490	2.1	3.260	0.000	6.036	0.0	0.000	60	21.539	OK
FEH: 30 years: +40 %: 180 mins: Winter	57.406	57.406	1.406	1.406	1.4	3.074	0.000	6.035	0.0	0.000	60	26.033	OK
FEH: 30 years: +40 %: 240 mins: Summer	57.422	57.422	1.422	1.422	1.7	3.111	0.000	6.592	0.0	0.000	55	25.123	OK
FEH: 30 years: +40 %: 240 mins: Winter	57.313	57.313	1.313	1.313	1.2	2.871	0.000	6.603	0.0	0.000	55	30.908	OK

Individual House Soakaways: Parcel Res16 Baldock	Date: 08/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	AKT II: White Collar Factory 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 360 mins: Summer	57.279	57.279	1.279	1.279	1.3	2.798	0.000	7.212	0.0	0.000	45	32.660	OK
FEH: 30 years: +40 %: 360 mins: Winter	57.134	57.134	1.134	1.134	0.8	2.480	0.000	7.218	0.0	0.000	40	40.327	OK
FEH: 30 years: +40 %: 480 mins: Summer	57.151	57.151	1.151	1.151	1.0	2.517	0.000	7.590	0.0	0.000	45	39.419	OK
FEH: 30 years: +40 %: 480 mins: Winter	56.990	56.990	0.990	0.990	0.7	2.165	0.000	7.614	0.0	0.000	25	47.888	OK
FEH: 30 years: +40 %: 600 mins: Summer	57.044	57.044	1.044	1.044	0.9	2.284	0.000	7.860	0.0	0.000	30	45.042	OK
FEH: 30 years: +40 %: 600 mins: Winter	56.873	56.873	0.873	0.873	0.6	1.909	0.000	7.872	0.0	0.000		54.065	OK
FEH: 100 years: +40 %: 15 mins: Summer	57.397	57.397	1.397	1.397	7.7	3.056	0.000	0.834	0.0	0.000		26.455	OK
FEH: 100 years: +40 %: 15 mins: Winter	57.397	57.397	1.397	1.397	7.3	3.056	0.000	0.834	0.0	0.000		26.446	OK
FEH: 100 years: +40 %: 30 mins: Summer	57.681	57.681	1.681	1.681	5.2	3.674	0.000	1.988	0.0	0.000		11.577	OK
FEH: 100 years: +40 %: 30 mins: Winter	57.684	57.684	1.684	1.684	4.9	3.681	0.000	1.990	0.0	0.000		11.406	OK
FEH: 100 years: +40 %: 60 mins: Summer	57.815	57.815	1.815	1.815	4.5	3.969	0.000	3.887	0.0	0.000	60	4.491	OK
FEH: 100 years: +40 %: 60 mins: Winter	57.811	57.811	1.811	1.811	3.6	3.963	0.000	3.885	0.0	0.000	55	4.623	OK
FEH: 100 years: +40 %: 120 mins: Summer	57.905	57.905	1.905	1.905	3.3	4.166	0.000	6.313	0.0	0.000	70	-0.257	Flood Risk
FEH: 100 years: +40 %: 120 mins: Winter	57.848	57.848	1.848	1.848	2.4	4.041	0.000	6.311	0.0	0.000	65	2.761	OK
FEH: 100 years: +40 %: 180 mins: Summer	57.856	57.856	1.856	1.856	2.6	4.060	0.000	7.499	0.0	0.000	80	2.296	OK
FEH: 100 years: +40 %: 180 mins: Winter	57.751	57.751	1.751	1.751	1.8	3.828	0.000	7.515	0.0	0.000	75	7.882	OK
FEH: 100 years: +40 %: 240 mins: Summer	57.771	57.771	1.771	1.771	2.1	3.874	0.000	8.203	0.0	0.000	80	6.759	OK
FEH: 100 years: +40 %: 240 mins: Winter	57.635	57.635	1.635	1.635	1.4	3.576	0.000	8.202	0.0	0.000	80	13.945	OK
FEH: 100 years: +40 %: 360 mins: Summer	57.588	57.588	1.588	1.588	1.6	3.474	0.000	8.958	0.0	0.000	75	16.385	OK
FEH: 100 years: +40 %: 360 mins: Winter	57.408	57.408	1.408	1.408	1.0	3.081	0.000	8.940	0.0	0.000	70	25.861	OK
FEH: 100 years: +40 %: 480 mins: Summer	57.429	57.429	1.429	1.429	1.3	3.125	0.000	9.414	0.0	0.000	70	24.807	OK
FEH: 100 years: +40 %: 480 mins: Winter	57.228	57.228	1.228	1.228	0.8	2.686	0.000	9.420	0.0	0.000	60	35.358	OK
FEH: 100 years: +40 %: 600 mins: Summer	57.295	57.295	1.295	1.295	1.1	2.834	0.000	9.738	0.0	0.000	60	31.809	OK
FEH: 100 years: +40 %: 600 mins: Winter	57.084	57.084	1.084	1.084	0.7	2.372	0.000	9.750	0.0	0.000	50	42.928	OK

Project: Employment Land Car Parks Baldock	Date: 18/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Emp01

Type : Catchment Area

Area (m²)	6300.00
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Preliminary Sizing

Volumetric Runoff Coefficient	0.950
Percentage Impervious (%)	10
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	10



Emp03

Type : Catchment Area

Area (m²)	26300.00
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Preliminary Sizing

Volumetric Runoff Coefficient	0.950
Percentage Impervious (%)	10
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	10



Emp02

Type : Catchment Area

Area (m²)	129000.00
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Preliminary Sizing

Volumetric Runoff Coefficient	0.950
Percentage Impervious (%)	10
Time of Concentration (mins)	5

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	10

Project: Employment Land Car Parks Baldock	Date: 18/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Emp01 Car Park

Type : Porous Paving

Dimensions

Exceedance Level (m)	69.010
Depth (m)	0.450
Base Level (m)	68.560
Paving Layer Depth (mm)	150
Membrane Percolation (m/hr)	3.6
Porosity (%)	30
Length (m)	63.000
Long. Slope (1:X)	200.00
Width (m)	10.000
Total Volume (m³)	56.700

Advanced

Base Infiltration Rate (m/hr)	0.0192
Side Infiltration Rate (m/hr)	0.0192
Safety Factor	2.0
Conductivity (m/hr)	50.0



Emp03 Car Park

Type : Porous Paving

Dimensions

Exceedance Level (m)	69.010
Depth (m)	0.450
Base Level (m)	68.560
Paving Layer Depth (mm)	150
Membrane Percolation (m/hr)	3.6
Porosity (%)	30
Length (m)	40.000
Long. Slope (1:X)	200.00
Width (m)	65.000
Total Volume (m³)	234.000

Advanced

Base Infiltration Rate (m/hr)	0.5112
Side Infiltration Rate (m/hr)	0.5112
Safety Factor	2.0
Conductivity (m/hr)	50.0

Project: Employment Land Car Parks Baldock	Date: 18/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details:			Company Address:	
Type: Stormwater Controls			AKTII	
Storm Phase: Phase			White Collar Factory, 1 Old Street Yard	
			London EC1Y 8AF	



Emp02 Car Park

Type : Porous Paving

Dimensions

Exceedance Level (m)	69.010
Depth (m)	0.450
Base Level (m)	68.560
Paving Layer Depth (mm)	150
Membrane Percolation (m/hr)	3.6
Porosity (%)	30
Length (m)	129.000
Long. Slope (1:X)	200.00
Width (m)	100.000
Total Volume (m³)	1161.000

Advanced

Base Infiltration Rate (m/hr)	0.4032
Side Infiltration Rate (m/hr)	0.4032
Safety Factor	2.0
Conductivity (m/hr)	50.0

Project: Employment Land Car Parks Baldock	Date: 18/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details:			Company Address:	
Type: Stormwater Controls Summary			AKTII	
Storm Phase: Phase			White Collar Factory, 1 Old Street Yard	
			London EC1Y 8AF	



Summary Results for Emp01 Car Park: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	68.903	68.588	0.028	0.028	15.8	5.248	0.000	2.910	0.0	0.000		90.744	OK
FEH: 2 years: +40 %: 15 mins: Winter	68.903	68.588	0.027	0.028	14.8	5.236	0.000	2.924	0.0	0.000		90.765	OK
FEH: 2 years: +40 %: 30 mins: Summer	68.906	68.592	0.031	0.031	10.4	5.915	0.000	5.831	0.0	0.000		89.568	OK
FEH: 2 years: +40 %: 30 mins: Winter	68.906	68.592	0.031	0.031	9.7	5.923	0.000	5.827	0.0	0.000		89.554	OK
FEH: 2 years: +40 %: 60 mins: Summer	68.905	68.591	0.030	0.030	8.8	5.734	0.000	11.029	0.0	0.000		89.887	OK
FEH: 2 years: +40 %: 60 mins: Winter	68.905	68.591	0.030	0.030	7.1	5.703	0.000	11.041	0.0	0.000		89.941	OK
FEH: 2 years: +40 %: 120 mins: Summer	68.912	68.597	0.036	0.037	7.6	6.941	0.000	15.925	0.0	0.000		87.758	OK
FEH: 2 years: +40 %: 120 mins: Winter	68.910	68.595	0.035	0.035	5.4	6.603	0.000	15.913	0.0	0.000		88.354	OK
FEH: 2 years: +40 %: 180 mins: Summer	68.911	68.597	0.036	0.037	6.3	6.900	0.000	18.709	0.0	0.000		87.830	OK
FEH: 2 years: +40 %: 180 mins: Winter	68.907	68.593	0.032	0.033	4.3	6.150	0.000	18.709	0.0	0.000		89.153	OK
FEH: 2 years: +40 %: 240 mins: Summer	68.909	68.595	0.034	0.034	5.3	6.452	0.000	20.629	0.0	0.000		88.621	OK
FEH: 2 years: +40 %: 240 mins: Winter	68.903	68.589	0.028	0.028	3.6	5.283	0.000	20.623	0.0	0.000		90.683	OK
FEH: 2 years: +40 %: 360 mins: Summer	68.902	68.588	0.027	0.028	4.1	5.176	0.000	23.146	0.0	0.000		90.872	OK
FEH: 2 years: +40 %: 360 mins: Winter	68.892	68.578	0.017	0.018	2.7	3.275	0.000	23.163	0.0	0.000		94.224	OK
FEH: 2 years: +40 %: 480 mins: Summer	68.895	68.580	0.020	0.020	3.4	3.771	0.000	24.729	0.0	0.000		93.349	OK
FEH: 2 years: +40 %: 480 mins: Winter	68.883	68.568	0.008	0.008	2.2	1.471	0.000	24.721	0.0	0.000		97.406	OK
FEH: 2 years: +40 %: 600 mins: Summer	68.889	68.574	0.013	0.014	2.8	2.559	0.000	25.880	0.0	0.000		95.487	OK
FEH: 2 years: +40 %: 600 mins: Winter	68.877	68.562	0.001	0.001	1.8	0.260	0.000	25.886	0.0	0.000		99.541	OK
FEH: 30 years: +40 %: 15 mins: Summer	68.952	68.638	0.077	0.077	36.7	14.610	0.000	3.002	0.0	0.000		74.233	OK
FEH: 30 years: +40 %: 15 mins: Winter	68.952	68.638	0.077	0.077	34.6	14.605	0.000	3.008	0.0	0.000		74.242	OK
FEH: 30 years: +40 %: 30 mins: Summer	68.969	68.655	0.094	0.095	24.6	17.870	0.000	6.030	0.0	0.000		68.484	OK
FEH: 30 years: +40 %: 30 mins: Winter	68.969	68.655	0.094	0.095	23.1	17.871	0.000	6.028	0.0	0.000		68.481	OK
FEH: 30 years: +40 %: 60 mins: Summer	68.979	68.666	0.104	0.106	20.9	19.768	0.000	12.108	0.0	0.000		65.136	OK
FEH: 30 years: +40 %: 60 mins: Winter	68.980	68.666	0.104	0.106	16.8	19.897	0.000	12.066	0.0	0.000		64.908	OK
FEH: 30 years: +40 %: 120 mins: Summer	68.985	68.674	0.110	0.113	15.8	21.111	0.000	24.242	0.0	0.000		62.767	OK
FEH: 30 years: +40 %: 120 mins: Winter	68.987	68.676	0.112	0.116	11.3	21.498	0.000	24.047	0.0	0.000		62.085	OK

Project: Employment Land Car Parks Baldock	Date: 18/08/2025				
	Designed by:	Checked by:	Approved By:		
	MJD				
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF		

FEH: 30 years: +40 %: 180 mins: Summer	68.983	68.671	0.107	0.111	12.5	20.615	0.000	35.650	0.0	0.000		63.641	OK
FEH: 30 years: +40 %: 180 mins: Winter	68.982	68.671	0.107	0.111	8.6	20.599	0.000	35.657	0.0	0.000		63.670	OK
FEH: 30 years: +40 %: 240 mins: Summer	68.978	68.667	0.103	0.106	10.3	19.804	0.000	39.907	0.0	0.000		65.072	OK
FEH: 30 years: +40 %: 240 mins: Winter	68.976	68.665	0.101	0.105	6.9	19.491	0.000	39.907	0.0	0.000		65.624	OK
FEH: 30 years: +40 %: 360 mins: Summer	68.967	68.656	0.092	0.096	7.7	17.745	0.000	43.309	0.0	0.000		68.704	OK
FEH: 30 years: +40 %: 360 mins: Winter	68.961	68.650	0.085	0.090	5.1	16.533	0.000	43.327	0.0	0.000		70.842	OK
FEH: 30 years: +40 %: 480 mins: Summer	68.956	68.644	0.081	0.084	6.2	15.586	0.000	45.511	0.0	0.000		72.512	OK
FEH: 30 years: +40 %: 480 mins: Winter	68.944	68.633	0.069	0.073	4.0	13.393	0.000	45.523	0.0	0.000		76.379	OK
FEH: 30 years: +40 %: 600 mins: Summer	68.945	68.633	0.070	0.073	5.1	13.468	0.000	47.152	0.0	0.000		76.246	OK
FEH: 30 years: +40 %: 600 mins: Winter	68.929	68.617	0.053	0.057	3.3	10.418	0.000	47.146	0.0	0.000		81.626	OK
FEH: 100 years: +40 %: 15 mins: Summer	68.975	68.661	0.100	0.101	46.5	18.980	0.000	3.024	0.0	0.000		66.526	OK
FEH: 100 years: +40 %: 15 mins: Winter	68.975	68.661	0.100	0.101	43.7	18.976	0.000	3.029	0.0	0.000		66.533	OK
FEH: 100 years: +40 %: 30 mins: Summer	69.000	68.686	0.124	0.126	31.3	23.684	0.000	6.082	0.0	0.000		58.229	OK
FEH: 100 years: +40 %: 30 mins: Winter	69.000	68.686	0.124	0.126	29.4	23.692	0.000	6.081	0.0	0.000		58.216	OK
FEH: 100 years: +40 %: 60 mins: Summer	69.017	68.705	0.142	0.144	26.8	27.035	0.000	12.226	0.0	0.000		52.320	OK
FEH: 100 years: +40 %: 60 mins: Winter	69.017	68.705	0.142	0.145	21.6	27.128	0.000	12.192	0.0	0.000		52.155	OK
FEH: 100 years: +40 %: 120 mins: Summer	69.027	68.718	0.152	0.158	19.8	29.270	0.000	24.516	0.0	0.000	10	48.377	OK
FEH: 100 years: +40 %: 120 mins: Winter	69.029	68.720	0.154	0.159	14.2	29.651	0.000	24.319	0.0	0.000	15	47.706	OK
FEH: 100 years: +40 %: 180 mins: Summer	69.023	68.714	0.147	0.153	15.5	28.432	0.000	36.523	0.0	0.000	10	49.856	OK
FEH: 100 years: +40 %: 180 mins: Winter	69.024	68.716	0.149	0.156	10.7	28.829	0.000	36.306	0.0	0.000	10	49.156	OK
FEH: 100 years: +40 %: 240 mins: Summer	69.017	68.708	0.142	0.148	12.8	27.364	0.000	47.748	0.0	0.000		51.739	OK
FEH: 100 years: +40 %: 240 mins: Winter	69.017	68.708	0.141	0.148	8.6	27.335	0.000	47.752	0.0	0.000		51.789	OK
FEH: 100 years: +40 %: 360 mins: Summer	69.005	68.696	0.130	0.136	9.5	25.085	0.000	53.701	0.0	0.000		55.758	OK
FEH: 100 years: +40 %: 360 mins: Winter	69.000	68.692	0.125	0.132	6.3	24.340	0.000	53.719	0.0	0.000		57.072	OK
FEH: 100 years: +40 %: 480 mins: Summer	68.992	68.683	0.117	0.123	7.7	22.731	0.000	56.455	0.0	0.000		59.909	OK
FEH: 100 years: +40 %: 480 mins: Winter	68.983	68.675	0.108	0.115	4.9	21.025	0.000	56.431	0.0	0.000		62.918	OK
FEH: 100 years: +40 %: 600 mins: Summer	68.980	68.671	0.105	0.111	6.4	20.395	0.000	58.417	0.0	0.000		64.030	OK
FEH: 100 years: +40 %: 600 mins: Winter	68.965	68.657	0.090	0.097	4.1	17.699	0.000	58.411	0.0	0.000		68.785	OK

Project: Employment Land Car Parks Baldock	Date: 18/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF		



Summary Results for Emp03 Car Park: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	68.760	68.560	0.000	0.000	65.9	0.000	0.000	29.693	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 15 mins: Winter	68.760	68.560	0.000	0.000	62.0	0.000	0.000	29.697	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 30 mins: Summer	68.760	68.560	0.000	0.000	43.3	0.000	0.000	37.522	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 30 mins: Winter	68.760	68.560	0.000	0.000	40.7	0.000	0.000	37.522	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 60 mins: Summer	68.760	68.560	0.000	0.000	36.8	0.000	0.000	46.016	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 60 mins: Winter	68.760	68.560	0.000	0.000	29.6	0.000	0.000	46.016	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 120 mins: Summer	68.760	68.560	0.000	0.000	31.5	0.000	0.000	66.404	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 120 mins: Winter	68.760	68.560	0.000	0.000	22.7	0.000	0.000	66.409	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 180 mins: Summer	68.760	68.560	0.000	0.000	26.2	0.000	0.000	78.055	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 180 mins: Winter	68.760	68.560	0.000	0.000	18.0	0.000	0.000	78.066	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 240 mins: Summer	68.760	68.560	0.000	0.000	22.3	0.000	0.000	86.029	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 240 mins: Winter	68.760	68.560	0.000	0.000	15.0	0.000	0.000	86.028	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 360 mins: Summer	68.760	68.560	0.000	0.000	17.1	0.000	0.000	96.607	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 360 mins: Winter	68.760	68.560	0.000	0.000	11.3	0.000	0.000	96.612	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 480 mins: Summer	68.760	68.560	0.000	0.000	14.0	0.000	0.000	103.183	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 480 mins: Winter	68.760	68.560	0.000	0.000	9.1	0.000	0.000	103.203	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 600 mins: Summer	68.760	68.560	0.000	0.000	11.8	0.000	0.000	108.019	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 600 mins: Winter	68.760	68.560	0.000	0.000	7.6	0.000	0.000	108.066	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 15 mins: Summer	68.760	68.560	0.000	0.000	153.4	0.000	0.000	69.148	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 15 mins: Winter	68.760	68.560	0.000	0.000	144.3	0.000	0.000	69.148	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 30 mins: Summer	68.760	68.560	0.000	0.000	102.6	0.000	0.000	88.906	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 30 mins: Winter	68.760	68.560	0.000	0.000	96.3	0.000	0.000	88.899	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 60 mins: Summer	68.760	68.560	0.000	0.000	87.2	0.000	0.000	109.008	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 60 mins: Winter	68.760	68.560	0.000	0.000	70.1	0.000	0.000	109.006	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 120 mins: Summer	68.760	68.560	0.000	0.000	65.8	0.000	0.000	138.657	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 120 mins: Winter	68.760	68.560	0.000	0.000	47.4	0.000	0.000	138.650	0.0	0.000		100.000	OK

Project: Employment Land Car Parks Baldock	Date: 18/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase			Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF	

FEH: 30 years: +40 %: 180 mins: Summer	68.760	68.560	0.000	0.000	52.1	0.000	0.000	155.361	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 180 mins: Winter	68.760	68.560	0.000	0.000	35.9	0.000	0.000	155.353	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 240 mins: Summer	68.760	68.560	0.000	0.000	43.2	0.000	0.000	166.526	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 240 mins: Winter	68.760	68.560	0.000	0.000	29.0	0.000	0.000	166.519	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 360 mins: Summer	68.760	68.560	0.000	0.000	32.0	0.000	0.000	180.817	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 360 mins: Winter	68.760	68.560	0.000	0.000	21.1	0.000	0.000	180.816	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 480 mins: Summer	68.760	68.560	0.000	0.000	25.8	0.000	0.000	190.039	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 480 mins: Winter	68.760	68.560	0.000	0.000	16.7	0.000	0.000	190.008	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 600 mins: Summer	68.760	68.560	0.000	0.000	21.4	0.000	0.000	196.777	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 600 mins: Winter	68.760	68.560	0.000	0.000	13.8	0.000	0.000	196.776	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 15 mins: Summer	68.760	68.560	0.000	0.000	194.0	0.020	0.000	87.609	0.0	0.000		99.991	OK
FEH: 100 years: +40 %: 15 mins: Winter	68.760	68.560	0.000	0.000	182.5	0.000	0.000	87.491	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 30 mins: Summer	68.760	68.560	0.000	0.000	130.8	0.000	0.000	113.340	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 30 mins: Winter	68.760	68.560	0.000	0.000	122.8	0.000	0.000	113.346	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 60 mins: Summer	68.760	68.560	0.000	0.000	112.0	0.000	0.000	139.927	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 60 mins: Winter	68.760	68.560	0.000	0.000	90.0	0.000	0.000	139.920	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 120 mins: Summer	68.760	68.560	0.000	0.000	82.5	0.000	0.000	173.854	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 120 mins: Winter	68.760	68.560	0.000	0.000	59.4	0.000	0.000	173.846	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 180 mins: Summer	68.760	68.560	0.000	0.000	64.8	0.000	0.000	193.383	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 180 mins: Winter	68.760	68.560	0.000	0.000	44.7	0.000	0.000	193.393	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 240 mins: Summer	68.760	68.560	0.000	0.000	53.6	0.000	0.000	206.732	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 240 mins: Winter	68.760	68.560	0.000	0.000	36.0	0.000	0.000	206.749	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 360 mins: Summer	68.760	68.560	0.000	0.000	39.7	0.000	0.000	224.204	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 360 mins: Winter	68.760	68.560	0.000	0.000	26.2	0.000	0.000	224.226	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 480 mins: Summer	68.760	68.560	0.000	0.000	32.0	0.000	0.000	235.573	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 480 mins: Winter	68.760	68.560	0.000	0.000	20.7	0.000	0.000	235.560	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 600 mins: Summer	68.760	68.560	0.000	0.000	26.5	0.000	0.000	243.745	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 600 mins: Winter	68.760	68.560	0.000	0.000	17.1	0.000	0.000	243.768	0.0	0.000		100.000	OK

Project: Employment Land Car Parks Baldock	Date: 18/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF		



Summary Results for Emp02 Car Park: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Half Drain Down Time (mins)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	69.205	68.560	0.000	0.000	323.1	0.000	0.000	145.648	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 15 mins: Winter	69.205	68.560	0.000	0.000	304.0	0.000	0.000	145.656	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 30 mins: Summer	69.205	68.560	0.000	0.000	212.4	0.000	0.000	184.070	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 30 mins: Winter	69.205	68.560	0.000	0.000	199.4	0.000	0.000	184.070	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 60 mins: Summer	69.205	68.560	0.000	0.000	180.6	0.000	0.000	225.671	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 60 mins: Winter	69.205	68.560	0.000	0.000	145.2	0.000	0.000	225.681	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 120 mins: Summer	69.205	68.560	0.000	0.000	154.6	0.000	0.000	325.700	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 120 mins: Winter	69.205	68.560	0.000	0.000	111.2	0.000	0.000	325.690	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 180 mins: Summer	69.205	68.560	0.000	0.000	128.3	0.000	0.000	382.845	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 180 mins: Winter	69.205	68.560	0.000	0.000	88.4	0.000	0.000	382.838	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 240 mins: Summer	69.205	68.560	0.000	0.000	109.3	0.000	0.000	421.976	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 240 mins: Winter	69.205	68.560	0.000	0.000	73.5	0.000	0.000	421.951	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 360 mins: Summer	69.205	68.560	0.000	0.000	83.9	0.000	0.000	473.908	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 360 mins: Winter	69.205	68.560	0.000	0.000	55.3	0.000	0.000	473.923	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 480 mins: Summer	69.205	68.560	0.000	0.000	68.7	0.000	0.000	506.211	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 480 mins: Winter	69.205	68.560	0.000	0.000	44.4	0.000	0.000	506.196	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 600 mins: Summer	69.205	68.560	0.000	0.000	57.7	0.000	0.000	529.875	0.0	0.000		100.000	OK
FEH: 2 years: +40 %: 600 mins: Winter	69.205	68.560	0.000	0.000	37.2	0.000	0.000	529.854	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 15 mins: Summer	69.205	68.560	0.000	0.000	752.3	0.055	0.000	339.738	0.0	0.000		99.995	OK
FEH: 30 years: +40 %: 15 mins: Winter	69.205	68.560	0.000	0.000	707.8	0.000	0.000	339.169	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 30 mins: Summer	69.205	68.560	0.000	0.000	503.3	0.000	0.000	436.037	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 30 mins: Winter	69.205	68.560	0.000	0.000	472.3	0.000	0.000	436.042	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 60 mins: Summer	69.205	68.560	0.000	0.000	427.8	0.000	0.000	534.681	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 60 mins: Winter	69.205	68.560	0.000	0.000	344.0	0.000	0.000	534.676	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 120 mins: Summer	69.205	68.560	0.000	0.000	322.7	0.000	0.000	680.111	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 120 mins: Winter	69.205	68.560	0.000	0.000	232.3	0.000	0.000	680.090	0.0	0.000		100.000	OK

Project: Employment Land Car Parks Baldock	Date: 18/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF		

FEH: 30 years: +40 %: 180 mins: Summer	69.205	68.560	0.000	0.000	255.3	0.000	0.000	761.994	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 180 mins: Winter	69.205	68.560	0.000	0.000	175.9	0.000	0.000	761.980	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 240 mins: Summer	69.205	68.560	0.000	0.000	211.6	0.000	0.000	816.802	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 240 mins: Winter	69.205	68.560	0.000	0.000	142.3	0.000	0.000	816.795	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 360 mins: Summer	69.205	68.560	0.000	0.000	157.1	0.000	0.000	886.909	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 360 mins: Winter	69.205	68.560	0.000	0.000	103.4	0.000	0.000	886.903	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 480 mins: Summer	69.205	68.560	0.000	0.000	126.4	0.000	0.000	932.127	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 480 mins: Winter	69.205	68.560	0.000	0.000	81.8	0.000	0.000	932.083	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 600 mins: Summer	69.205	68.560	0.000	0.000	105.1	0.000	0.000	965.147	0.0	0.000		100.000	OK
FEH: 30 years: +40 %: 600 mins: Winter	69.205	68.560	0.000	0.000	67.8	0.000	0.000	965.148	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 15 mins: Summer	69.208	68.563	0.003	0.003	951.7	7.224	0.000	430.730	0.0	0.000		99.378	OK
FEH: 100 years: +40 %: 15 mins: Winter	69.207	68.562	0.002	0.002	895.4	4.387	0.000	430.291	0.0	0.000		99.622	OK
FEH: 100 years: +40 %: 30 mins: Summer	69.205	68.560	0.000	0.000	641.7	0.000	0.000	555.948	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 30 mins: Winter	69.205	68.560	0.000	0.000	602.2	0.000	0.000	555.941	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 60 mins: Summer	69.205	68.560	0.000	0.000	549.2	0.000	0.000	686.315	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 60 mins: Winter	69.205	68.560	0.000	0.000	441.6	0.000	0.000	686.308	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 120 mins: Summer	69.205	68.560	0.000	0.000	404.6	0.000	0.000	852.723	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 120 mins: Winter	69.205	68.560	0.000	0.000	291.2	0.000	0.000	852.713	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 180 mins: Summer	69.205	68.560	0.000	0.000	317.8	0.000	0.000	948.573	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 180 mins: Winter	69.205	68.560	0.000	0.000	219.0	0.000	0.000	948.563	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 240 mins: Summer	69.205	68.560	0.000	0.000	262.7	0.000	0.000	1013.982	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 240 mins: Winter	69.205	68.560	0.000	0.000	176.7	0.000	0.000	1013.982	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 360 mins: Summer	69.205	68.560	0.000	0.000	194.7	0.000	0.000	1099.773	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 360 mins: Winter	69.205	68.560	0.000	0.000	128.3	0.000	0.000	1099.766	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 480 mins: Summer	69.205	68.560	0.000	0.000	156.7	0.000	0.000	1155.415	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 480 mins: Winter	69.205	68.560	0.000	0.000	101.4	0.000	0.000	1155.397	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 600 mins: Summer	69.205	68.560	0.000	0.000	130.2	0.000	0.000	1195.623	0.0	0.000		100.000	OK
FEH: 100 years: +40 %: 600 mins: Winter	69.205	68.560	0.000	0.000	84.0	0.000	0.000	1195.639	0.0	0.000		100.000	OK

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details: Type: Inflows Storm Phase: Phase		Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF		



Res07

Type : Catchment Area

Area (ha)	0.25
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res11

Type : Catchment Area

Area (ha)	0.12
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Edu01

Type : Catchment Area

Area (ha)	2.22
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	30



Edu02

Type : Catchment Area

Area (ha)	2.01
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	30

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Emp01

Type : Catchment Area

Area (ha)	0.63
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	65



Emp03

Type : Catchment Area

Area (ha)	2.63
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	65



Fle01

Type : Catchment Area

Area (ha)	10.50
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	20



LC01

Type : Catchment Area

Area (ha)	1.16
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	75

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



LC02

Type : Catchment Area

Area (ha)	0.76
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	75



LC03

Type : Catchment Area

Area (ha)	0.50
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	75



LC06

Type : Catchment Area

Area (ha)	0.54
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	75



Res01

Type : Catchment Area

Area (ha)	4.07
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Res02

Type : Catchment Area

Area (ha)	0.95
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res03

Type : Catchment Area

Area (ha)	0.20
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res05

Type : Catchment Area

Area (ha)	5.33
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res06

Type : Catchment Area

Area (ha)	2.71
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Res08

Type : Catchment Area

Area (ha)	16.85
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res09

Type : Catchment Area

Area (ha)	2.56
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res10

Type : Catchment Area

Area (ha)	0.11
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res12

Type : Catchment Area

Area (ha)	6.84
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Res13

Type : Catchment Area

Area (ha)	18.96
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res14

Type : Catchment Area

Area (ha)	5.03
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res15

Type : Catchment Area

Area (ha)	0.23
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res16

Type : Catchment Area

Area (ha)	6.95
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Emp02 West

Type : Catchment Area

Area (ha)	6.45
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	65



Emp02 East

Type : Catchment Area

Area (ha)	6.45
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	65



LC04

Type : Catchment Area

Area (ha)	0.88
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	75



LC05

Type : Catchment Area

Area (ha)	0.71
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	75

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Inflows Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Res04 West

Type : Catchment Area

Area (ha)	2.33
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15



Res04 East

Type : Catchment Area

Area (ha)	1.30
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff Coefficient	0.950
Winter Volumetric Runoff Coefficient	0.950
Time of Concentration (mins)	5
Percentage Impervious (%)	15

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Infiltration Basin 4

Type : Pond

Dimensions

Exceedance Level (m)	70.500
Depth (m)	1.000
Base Level (m)	69.500
Freeboard (mm)	50
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.998
Total Volume (m³)	659.658

Depth (m)	Area (m²)	Volume (m³)
0.000	525.00	0.000
1.000	900.00	704.129

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Edu02
Bypass Destination	Res14
Capacity Type	(None)
	No Restriction

Outlets

Advanced

Base Infiltration Rate (m/hr)	0.3593
Side Infiltration Rate (m/hr)	0.3593
Safety Factor	2.0
Perimeter	Circular
Length (m)	87.567
Friction Scheme	Manning's n
n	0.05

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Infiltration Basin 6

Type : Pond

Dimensions

Exceedance Level (m)	73.500
Depth (m)	1.200
Base Level (m)	72.300
Freeboard (mm)	100
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.019
Total Volume (m³)	3988.983

Depth (m)	Area (m²)	Volume (m³)
0.000	3165.00	0.000
1.200	4200.00	4404.383

Inlets

Inlet

Inlet Type	Point Inflow Emp03
Incoming Item(s)	Emp02 East
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Advanced

Base Infiltration Rate (m/hr)	0.1022
Side Infiltration Rate (m/hr)	0.1022
Safety Factor	2.0
Perimeter	Circular
Length (m)	67.061
Friction Scheme	Manning's n
n	0.05

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Infiltration Basin 5

Type : Pond

Dimensions

Exceedance Level (m)	65.900
Depth (m)	1.200
Base Level (m)	64.700
Freeboard (mm)	100
Initial Depth (m)	0.822
Porosity (%)	100
Average Slope (1:X)	4.005
Total Volume (m³)	3940.042

Depth (m)	Area (m²)	Volume (m³)
0.000	3125.00	0.000
1.200	4150.00	4350.486

Inlets

Inlet

Inlet Type	Point Inflow Res15
Incoming Item(s)	Emp01 Emp02 West
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Advanced

Base Infiltration Rate (m/hr)	0.864
Side Infiltration Rate (m/hr)	0.864
Safety Factor	2.0
Perimeter	Circular
Length (m)	120.118
Friction Scheme	Manning's n
n	0.05

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Infiltration Basin 3

Type : Pond

Dimensions

Exceedance Level (m)	60.500
Depth (m)	1.000
Base Level (m)	59.500
Freeboard (mm)	100
Initial Depth (m)	0.639
Porosity (%)	100
Average Slope (1:X)	4.008
Total Volume (m³)	6157.724

Depth (m)	Area (m²)	Volume (m³)
0.000	6320.00	0.000
1.000	7500.00	6901.589

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Res12
	Res11
	Res10
	Res07
	LC06
	Res13
	LC05
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Trapezoidal Channel
Outlet Type	Weir
Width (m)	5.000
Coefficient of Discharge	0.544
Crest Level (m)	60.000

Advanced

Base Infiltration Rate (m/hr)	0.0294
Side Infiltration Rate (m/hr)	0.0294
Safety Factor	2.0
Perimeter	Circular
Length (m)	111.564
Friction Scheme	Manning's n
n	0.05

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Infiltration Basin 2

Type : Pond

Dimensions

Exceedance Level (m)	58.500
Depth (m)	1.000
Base Level (m)	57.500
Freeboard (mm)	100
Initial Depth (m)	0.082
Porosity (%)	100
Average Slope (1:X)	4.012
Total Volume (m³)	8053.560

Depth (m)	Area (m²)	Volume (m³)
0.000	8350.00	0.000
1.000	9700.00	9016.574

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Trapezoidal Channel
	Res03
	Res06
	Res04 East
	Res08
	Res05
	Res09
	LC01
	LC02
	LC04
	LC03
	Edu01
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	Trapezoidal Channel (1)
Outlet Type	Weir
Width (m)	5.000
Coefficient of Discharge	0.544
Crest Level (m)	58.400

Advanced

Base Infiltration Rate (m/hr)	0.0515
Side Infiltration Rate (m/hr)	0.0515
Safety Factor	2.0
Perimeter	Circular
Length (m)	98.180
Friction Scheme	Manning's n
n	0.05

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			

Infiltration Basin 1

Type : Pond

Dimensions			
Exceedance Level (m)		57.000	
Depth (m)		1.000	
Base Level (m)		56.000	
Freeboard (mm)		100	
Initial Depth (m)		0.810	
Porosity (%)		100	
Average Slope (1:X)		3.999	
Total Volume (m³)		5129.735	
Depth (m)		Area (m²)	Volume (m³)
0.000		5225.00	0.000
1.000		6300.00	5754.126

Inlets	
Inlet	
Inlet Type	Point Inflow Trapezoidal Channel (1)
Incoming Item(s)	Res01
	Res02
	Res04 West
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets	
Advanced	
Base Infiltration Rate (m/hr)	0.0486
Side Infiltration Rate (m/hr)	0.0486
Safety Factor	2.0
Perimeter	Circular
Length (m)	100.235
Friction Scheme	Manning's n
n	0.05

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			

Infiltration Basin 7

Type : Pond

Dimensions			
Exceedance Level (m)		70.700	
Depth (m)		1.200	
Base Level (m)		69.500	
Freeboard (mm)		100	
Initial Depth (m)		0.533	
Porosity (%)		100	
Average Slope (1:X)		4.02	
Total Volume (m³)		3428.667	
Depth (m)		Area (m²)	Volume (m³)
0.000		2690.00	0.000
1.200		3650.00	3789.379

Inlets	
Inlet	
Inlet Type	Point Inflow
Incoming Item(s)	Fle01
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets	
Advanced	
Base Infiltration Rate (m/hr)	0.0107
Side Infiltration Rate (m/hr)	0.0107
Safety Factor	2.0
Perimeter	Circular
Length (m)	113.339
Friction Scheme	Manning's n
n	0.05

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Infiltration Basin 8

Type : Pond

Dimensions

Exceedance Level (m)	73.000
Depth (m)	1.000
Base Level (m)	72.000
Freeboard (mm)	100
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	4.025
Total Volume (m³)	513.982

Depth (m)	Area (m²)	Volume (m³)
0.000	425.00	0.000
1.000	770.00	589.019

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	Res16
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Advanced

Base Infiltration Rate (m/hr)	0.3323
Side Infiltration Rate (m/hr)	0.3323
Safety Factor	2.0
Perimeter	Circular
Length (m)	83.553
Friction Scheme	Manning's n
n	0.05

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Connections Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			

Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Diameter / Base Width (mm)	Height (mm)	Side Slope (1:X)	Curved
Trapezoidal Channel	29.784	Trapezoidal Channel	43.150	0.050	5	500	4.00	☐
Trapezoidal Channel (1)	240.338	Trapezoidal Channel	234.198	0.050	5	500	4.00	☒

Name	Upstream Cover Level (m)	Upstream Invert Level (m)	Downstream Cover Level (m)	Downstream Invert Level (m)	Lock	Flow Restriction (L/s)
Trapezoidal Channel	60.500	60.000	59.810	59.310	None	2155.2
Trapezoidal Channel (1)	58.900	58.400	57.874	57.374	None	0.0

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			

Flow Options

Peak Flow Calculation	(UK) Modified Rational Method
Min. Time of Entry (mins)	5
Max. Travel Time (mins)	30

Pipe Options

Lock Slope Options	None
Design Options	Minimise Excavation
Design Level	Level Soffits
Min. Cover Depth (m)	1.200
Min. Slope (1:X)	500.00
Max. Slope (1:X)	40.00
Min. Velocity (m/s)	1.0
Max. Velocity (m/s)	3.0
Use Flow Restriction	☐
Reduce Channel Depths	☐

Manhole Options

Apply Offset	☐
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Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by: MJD	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Apply Global Value
Urban Creep Global Value (%)	0
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FEH		Type: FEH
Site Location	GB 524400 234600 TL 24400 34600	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

Return Period

Return Period (years)	Increase Rainfall (%)
2.0	40.000
30.0	40.000
100.0	40.000

Storm Durations

Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
180	360
240	480
360	720
480	960
600	1200

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details:	Company Address:			
Type: Stormwater Controls Summary	AKTII			
Storm Phase: Phase	White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Summary Results for Infiltration Basin 4: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	69.727	69.728	0.227	0.228	346.2	128.119	0.000	43.923	0.0	0.000	80.578	OK
FEH: 2 years: +40 %: 15 mins: Winter	69.726	69.727	0.226	0.227	325.3	127.802	0.000	44.191	0.0	0.000	80.626	OK
FEH: 2 years: +40 %: 30 mins: Summer	69.763	69.763	0.263	0.263	223.6	149.422	0.000	93.082	0.0	0.000	77.349	OK
FEH: 2 years: +40 %: 30 mins: Winter	69.762	69.762	0.262	0.262	209.8	148.964	0.000	93.315	0.0	0.000	77.418	OK
FEH: 2 years: +40 %: 60 mins: Summer	69.771	69.771	0.271	0.271	190.0	154.430	0.000	188.395	0.0	0.000	76.589	OK
FEH: 2 years: +40 %: 60 mins: Winter	69.770	69.770	0.270	0.270	152.8	154.022	0.000	188.696	0.0	0.000	76.651	OK
FEH: 2 years: +40 %: 120 mins: Summer	69.823	69.823	0.323	0.323	162.6	187.005	0.000	343.075	0.0	0.000	71.651	OK
FEH: 2 years: +40 %: 120 mins: Winter	69.817	69.817	0.317	0.317	117.0	183.505	0.000	342.939	0.0	0.000	72.182	OK
FEH: 2 years: +40 %: 180 mins: Summer	69.828	69.828	0.328	0.328	135.0	190.304	0.000	403.086	0.0	0.000	71.151	OK
FEH: 2 years: +40 %: 180 mins: Winter	69.814	69.814	0.314	0.314	93.0	181.297	0.000	403.006	0.0	0.000	72.516	OK
FEH: 2 years: +40 %: 240 mins: Summer	69.819	69.819	0.319	0.319	115.1	184.803	0.000	444.201	0.0	0.000	71.985	OK
FEH: 2 years: +40 %: 240 mins: Winter	69.794	69.794	0.294	0.294	77.4	169.039	0.000	444.157	0.0	0.000	74.375	OK
FEH: 2 years: +40 %: 360 mins: Summer	69.787	69.787	0.287	0.287	88.3	164.588	0.000	498.818	0.0	0.000	75.050	OK
FEH: 2 years: +40 %: 360 mins: Winter	69.741	69.741	0.241	0.241	58.2	136.169	0.000	498.801	0.0	0.000	79.358	OK
FEH: 2 years: +40 %: 480 mins: Summer	69.747	69.747	0.247	0.247	72.3	139.923	0.000	532.804	0.0	0.000	78.789	OK
FEH: 2 years: +40 %: 480 mins: Winter	69.683	69.683	0.183	0.183	46.8	101.483	0.000	532.748	0.0	0.000	84.616	OK
FEH: 2 years: +40 %: 600 mins: Summer	69.708	69.708	0.208	0.208	60.7	116.347	0.000	557.673	0.0	0.000	82.362	OK
FEH: 2 years: +40 %: 600 mins: Winter	69.631	69.630	0.131	0.130	39.2	71.116	0.000	557.643	0.0	0.000	89.219	OK
FEH: 30 years: +40 %: 15 mins: Summer	70.027	70.029	0.527	0.529	808.6	325.076	0.000	52.880	0.0	0.000	50.721	OK
FEH: 30 years: +40 %: 15 mins: Winter	70.027	70.028	0.527	0.528	759.5	324.766	0.000	53.152	0.0	0.000	50.768	OK
FEH: 30 years: +40 %: 30 mins: Summer	70.129	70.129	0.629	0.629	529.6	398.946	0.000	115.211	0.0	0.000	39.522	OK
FEH: 30 years: +40 %: 30 mins: Winter	70.129	70.129	0.629	0.629	497.0	398.961	0.000	115.288	0.0	0.000	39.520	OK
FEH: 30 years: +40 %: 60 mins: Summer	70.194	70.194	0.694	0.694	450.2	448.081	0.000	240.564	0.0	0.000	32.074	OK
FEH: 30 years: +40 %: 60 mins: Winter	70.197	70.197	0.697	0.697	362.0	450.608	0.000	240.054	0.0	0.000	31.691	OK
FEH: 30 years: +40 %: 120 mins: Summer	70.247	70.247	0.747	0.747	339.6	489.643	0.000	487.221	0.0	0.000	25.773	OK
FEH: 30 years: +40 %: 120 mins: Winter	70.253	70.253	0.753	0.753	244.4	494.289	0.000	485.933	0.0	0.000	25.069	OK

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details:	Company Address:			
Type: Stormwater Controls Summary	AKTII			
Storm Phase: Phase	White Collar Factory, 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 180 mins: Summer	70.242	70.242	0.742	0.742	268.6	485.508	0.000	706.147	0.0	0.000	26.400	OK
FEH: 30 years: +40 %: 180 mins: Winter	70.243	70.243	0.743	0.743	185.1	486.442	0.000	704.928	0.0	0.000	26.259	OK
FEH: 30 years: +40 %: 240 mins: Summer	70.222	70.222	0.722	0.722	222.7	469.933	0.000	859.260	0.0	0.000	28.761	OK
FEH: 30 years: +40 %: 240 mins: Winter	70.216	70.216	0.716	0.716	149.8	465.445	0.000	859.355	0.0	0.000	29.442	OK
FEH: 30 years: +40 %: 360 mins: Summer	70.171	70.171	0.671	0.671	165.3	430.645	0.000	933.101	0.0	0.000	34.717	OK
FEH: 30 years: +40 %: 360 mins: Winter	70.147	70.147	0.647	0.647	108.9	412.038	0.000	933.146	0.0	0.000	37.538	OK
FEH: 30 years: +40 %: 480 mins: Summer	70.118	70.119	0.618	0.619	133.0	390.445	0.000	980.738	0.0	0.000	40.811	OK
FEH: 30 years: +40 %: 480 mins: Winter	70.073	70.073	0.573	0.573	86.1	357.194	0.000	980.736	0.0	0.000	45.852	OK
FEH: 30 years: +40 %: 600 mins: Summer	70.067	70.066	0.567	0.566	110.6	352.303	0.000	1015.516	0.0	0.000	46.593	OK
FEH: 30 years: +40 %: 600 mins: Winter	70.001	70.001	0.501	0.501	71.3	305.515	0.000	1015.610	0.0	0.000	53.686	OK
FEH: 100 years: +40 %: 15 mins: Summer	70.152	70.153	0.652	0.653	1024.2	416.317	0.000	56.379	0.0	0.000	36.889	OK
FEH: 100 years: +40 %: 15 mins: Winter	70.152	70.153	0.652	0.653	962.1	416.484	0.000	56.627	0.0	0.000	36.864	OK
FEH: 100 years: +40 %: 30 mins: Summer	70.284	70.284	0.784	0.784	675.3	519.733	0.000	124.236	0.0	0.000	21.212	OK
FEH: 100 years: +40 %: 30 mins: Winter	70.284	70.285	0.784	0.785	633.7	520.014	0.000	124.252	0.0	0.000	21.169	OK
FEH: 100 years: +40 %: 60 mins: Summer	70.377	70.377	0.877	0.877	577.9	596.674	0.000	262.295	0.0	0.000	9.548	OK
FEH: 100 years: +40 %: 60 mins: Winter	70.381	70.381	0.881	0.881	464.7	599.684	0.000	261.751	0.0	0.000	9.092	OK
FEH: 100 years: +40 %: 120 mins: Summer	70.438	70.438	0.938	0.938	425.8	648.808	0.000	533.389	0.0	0.000	1.645	OK
FEH: 100 years: +40 %: 120 mins: Winter	70.446	70.447	0.946	0.947	306.4	656.618	0.000	531.825	0.0	0.000	0.461	OK
FEH: 100 years: +40 %: 180 mins: Summer	70.433	70.433	0.933	0.933	334.4	644.674	0.000	777.731	0.0	0.000	2.272	OK
FEH: 100 years: +40 %: 180 mins: Winter	70.436	70.436	0.936	0.936	230.5	647.826	0.000	775.708	0.0	0.000	1.794	OK
FEH: 100 years: +40 %: 240 mins: Summer	70.412	70.412	0.912	0.912	276.5	626.415	0.000	991.203	0.0	0.000	5.039	OK
FEH: 100 years: +40 %: 240 mins: Winter	70.412	70.412	0.912	0.912	185.9	626.540	0.000	989.495	0.0	0.000	5.020	OK
FEH: 100 years: +40 %: 360 mins: Summer	70.358	70.357	0.858	0.857	204.9	580.292	0.000	1156.999	0.0	0.000	12.031	OK
FEH: 100 years: +40 %: 360 mins: Winter	70.341	70.341	0.841	0.841	135.0	566.102	0.000	1157.044	0.0	0.000	14.183	OK
FEH: 100 years: +40 %: 480 mins: Summer	70.303	70.302	0.803	0.802	164.9	534.214	0.000	1215.522	0.0	0.000	19.017	OK
FEH: 100 years: +40 %: 480 mins: Winter	70.267	70.266	0.767	0.766	106.7	505.386	0.000	1215.653	0.0	0.000	23.387	OK
FEH: 100 years: +40 %: 600 mins: Summer	70.248	70.248	0.748	0.748	137.0	490.494	0.000	1257.937	0.0	0.000	25.644	OK
FEH: 100 years: +40 %: 600 mins: Winter	70.193	70.192	0.693	0.692	88.4	446.762	0.000	1258.068	0.0	0.000	32.274	OK

Project: Infiltration Basins Baldock	Date: 19/08/2025			
	Designed by:	Checked by:	Approved By:	
	MJD			
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			



Summary Results for Infiltration Basin 6: Rank By: Max. US Depth

Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
FEH: 2 years: +40 %: 15 mins: Summer	72.493	72.493	0.193	0.193	1505.2	625.891	0.000	71.643	0.0	0.000	84.309	OK
FEH: 2 years: +40 %: 15 mins: Winter	72.492	72.493	0.192	0.193	1414.4	625.346	0.000	72.123	0.0	0.000	84.323	OK
FEH: 2 years: +40 %: 30 mins: Summer	72.534	72.535	0.234	0.235	972.0	764.495	0.000	151.612	0.0	0.000	80.835	OK
FEH: 2 years: +40 %: 30 mins: Winter	72.534	72.534	0.234	0.234	912.2	762.991	0.000	151.853	0.0	0.000	80.873	OK
FEH: 2 years: +40 %: 60 mins: Summer	72.568	72.568	0.268	0.268	826.2	877.479	0.000	314.824	0.0	0.000	78.002	OK
FEH: 2 years: +40 %: 60 mins: Winter	72.569	72.569	0.269	0.269	664.4	879.835	0.000	314.069	0.0	0.000	77.943	OK
FEH: 2 years: +40 %: 120 mins: Summer	72.655	72.655	0.355	0.355	707.1	1175.178	0.000	655.447	0.0	0.000	70.539	OK
FEH: 2 years: +40 %: 120 mins: Winter	72.657	72.657	0.357	0.357	508.9	1183.099	0.000	652.453	0.0	0.000	70.341	OK
FEH: 2 years: +40 %: 180 mins: Summer	72.684	72.684	0.384	0.384	586.8	1276.235	0.000	993.140	0.0	0.000	68.006	OK
FEH: 2 years: +40 %: 180 mins: Winter	72.688	72.688	0.388	0.388	404.4	1290.551	0.000	988.453	0.0	0.000	67.647	OK
FEH: 2 years: +40 %: 240 mins: Summer	72.692	72.691	0.392	0.391	500.2	1300.619	0.000	1324.369	0.0	0.000	67.395	OK
FEH: 2 years: +40 %: 240 mins: Winter	72.696	72.696	0.396	0.396	336.4	1318.162	0.000	1318.969	0.0	0.000	66.955	OK
FEH: 2 years: +40 %: 360 mins: Summer	72.687	72.686	0.387	0.386	384.0	1282.030	0.000	1957.615	0.0	0.000	67.861	OK
FEH: 2 years: +40 %: 360 mins: Winter	72.686	72.686	0.386	0.386	252.9	1283.361	0.000	1955.805	0.0	0.000	67.827	OK
FEH: 2 years: +40 %: 480 mins: Summer	72.671	72.671	0.371	0.371	314.1	1229.916	0.000	2316.224	0.0	0.000	69.167	OK
FEH: 2 years: +40 %: 480 mins: Winter	72.667	72.667	0.367	0.367	203.3	1215.310	0.000	2316.006	0.0	0.000	69.533	OK
FEH: 2 years: +40 %: 600 mins: Summer	72.655	72.655	0.354	0.355	264.0	1172.021	0.000	2424.306	0.0	0.000	70.619	OK
FEH: 2 years: +40 %: 600 mins: Winter	72.644	72.644	0.344	0.344	170.3	1135.122	0.000	2424.300	0.0	0.000	71.544	OK
FEH: 30 years: +40 %: 15 mins: Summer	72.748	72.749	0.448	0.449	3515.6	1501.287	0.000	78.644	0.0	0.000	62.364	OK
FEH: 30 years: +40 %: 15 mins: Winter	72.748	72.749	0.448	0.449	3302.3	1500.805	0.000	79.082	0.0	0.000	62.376	OK
FEH: 30 years: +40 %: 30 mins: Summer	72.860	72.860	0.560	0.560	2302.6	1902.627	0.000	167.366	0.0	0.000	52.303	OK
FEH: 30 years: +40 %: 30 mins: Winter	72.861	72.861	0.561	0.561	2161.0	1903.987	0.000	167.372	0.0	0.000	52.269	OK
FEH: 30 years: +40 %: 60 mins: Summer	72.960	72.960	0.660	0.660	1957.5	2267.792	0.000	349.795	0.0	0.000	43.149	OK
FEH: 30 years: +40 %: 60 mins: Winter	72.960	72.961	0.660	0.661	1574.1	2270.141	0.000	348.685	0.0	0.000	43.090	OK
FEH: 30 years: +40 %: 120 mins: Summer	73.089	73.089	0.789	0.789	1476.6	2755.205	0.000	726.787	0.0	0.000	30.930	OK
FEH: 30 years: +40 %: 120 mins: Winter	73.092	73.092	0.792	0.792	1062.6	2765.558	0.000	722.869	0.0	0.000	30.670	OK

Project: Infiltration Basins Baldock	Date: 19/08/2025			
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Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address: AKTII White Collar Factory, 1 Old Street Yard London EC1Y 8AF			

FEH: 30 years: +40 %: 180 mins: Summer	73.140	73.140	0.840	0.840	1168.0	2951.750	0.000	1103.841	0.0	0.000	26.002	OK
FEH: 30 years: +40 %: 180 mins: Winter	73.145	73.145	0.845	0.845	805.0	2969.595	0.000	1097.176	0.0	0.000	25.555	OK
FEH: 30 years: +40 %: 240 mins: Summer	73.159	73.159	0.859	0.859	968.3	3027.240	0.000	1476.840	0.0	0.000	24.110	OK
FEH: 30 years: +40 %: 240 mins: Winter	73.165	73.166	0.865	0.866	651.2	3050.561	0.000	1467.502	0.0	0.000	23.525	OK
FEH: 30 years: +40 %: 360 mins: Summer	73.152	73.152	0.852	0.852	718.5	2999.114	0.000	2204.140	0.0	0.000	24.815	OK
FEH: 30 years: +40 %: 360 mins: Winter	73.162	73.162	0.862	0.862	473.3	3036.344	0.000	2190.040	0.0	0.000	23.882	OK
FEH: 30 years: +40 %: 480 mins: Summer	73.120	73.120	0.820	0.820	578.4	2873.490	0.000	2902.682	0.0	0.000	27.964	OK
FEH: 30 years: +40 %: 480 mins: Winter	73.132	73.132	0.832	0.832	374.3	2920.438	0.000	2884.988	0.0	0.000	26.787	OK
FEH: 30 years: +40 %: 600 mins: Summer	73.086	73.086	0.786	0.786	480.8	2742.230	0.000	3567.759	0.0	0.000	31.255	OK
FEH: 30 years: +40 %: 600 mins: Winter	73.092	73.092	0.792	0.792	310.2	2765.487	0.000	3550.886	0.0	0.000	30.672	OK
FEH: 100 years: +40 %: 15 mins: Summer	72.861	72.862	0.561	0.562	4452.8	1905.656	0.000	81.123	0.0	0.000	52.227	OK
FEH: 100 years: +40 %: 15 mins: Winter	72.862	72.862	0.562	0.562	4183.1	1906.533	0.000	81.546	0.0	0.000	52.205	OK
FEH: 100 years: +40 %: 30 mins: Summer	73.007	73.007	0.707	0.707	2935.8	2444.337	0.000	173.266	0.0	0.000	38.723	OK
FEH: 100 years: +40 %: 30 mins: Winter	73.007	73.008	0.707	0.708	2755.3	2445.572	0.000	173.260	0.0	0.000	38.692	OK
FEH: 100 years: +40 %: 60 mins: Summer	73.140	73.140	0.840	0.840	2512.6	2953.000	0.000	363.805	0.0	0.000	25.971	OK
FEH: 100 years: +40 %: 60 mins: Winter	73.141	73.141	0.841	0.841	2020.5	2955.929	0.000	362.701	0.0	0.000	25.898	OK
FEH: 100 years: +40 %: 120 mins: Summer	73.287	73.287	0.987	0.987	1851.4	3531.649	0.000	756.891	0.0	0.000	11.465	OK
FEH: 100 years: +40 %: 120 mins: Winter	73.289	73.289	0.989	0.989	1332.3	3539.662	0.000	752.953	0.0	0.000	11.264	OK
FEH: 100 years: +40 %: 180 mins: Summer	73.350	73.350	1.050	1.050	1454.0	3784.945	0.000	1151.457	0.0	0.000	5.115	OK
FEH: 100 years: +40 %: 180 mins: Winter	73.355	73.354	1.055	1.054	1002.1	3802.775	0.000	1144.800	0.0	0.000	4.668	OK
FEH: 100 years: +40 %: 240 mins: Summer	73.378	73.378	1.078	1.078	1202.1	3900.407	0.000	1543.032	0.0	0.000	2.221	OK
FEH: 100 years: +40 %: 240 mins: Winter	73.384	73.384	1.084	1.084	808.4	3923.821	0.000	1533.698	0.0	0.000	1.634	OK
FEH: 100 years: +40 %: 360 mins: Summer	73.386	73.386	1.086	1.086	891.0	3929.695	0.000	2309.832	0.0	0.000	1.486	OK
FEH: 100 years: +40 %: 360 mins: Winter	73.395	73.395	1.095	1.095	586.9	3966.351	0.000	2295.532	0.0	0.000	0.567	OK
FEH: 100 years: +40 %: 480 mins: Summer	73.360	73.360	1.060	1.060	717.0	3824.604	0.000	3050.041	0.0	0.000	4.121	OK
FEH: 100 years: +40 %: 480 mins: Winter	73.373	73.373	1.073	1.073	464.0	3879.115	0.000	3031.109	0.0	0.000	2.754	OK
FEH: 100 years: +40 %: 600 mins: Summer	73.323	73.323	1.023	1.023	595.7	3673.959	0.000	3761.193	0.0	0.000	7.897	OK
FEH: 100 years: +40 %: 600 mins: Winter	73.337	73.337	1.037	1.037	384.3	3732.966	0.000	3738.656	0.0	0.000	6.418	OK