

Standard 2 - Interception



Interception Catchment Area

Project Title	Southleigh Road, Havant
Project Code	332310755

Catchment	Outfall Feature/ Management Train	SuDS Features	Base Area (m2)	Interception Multiplier	Interception Catchment by SuDS Feature (m2)	Interception Catchment Total (ha)	Development Catchment (ha) Including Urban Creep	Percentage of First 5mm Captured
1A and 2A	Detention Basin (DB-2A.2)	DB-1A.1	374	5	1868	5.04	6.50	78
		DB-1A.2	299	5	1496			
		DB-1A.3	223	5	1113			
		DB-1A.4	222	5	1111			
		DB-1A.5	2500	5	12500			
		DB-2A.1	1605	5	8025			
		DB-2A.2	4855	5	24275			
1B	Swale (SW-1B)	DB-1B	1021	5	5105	0.78	1.39	56
		SW-1B	540	5	2700			
2B (Local Centre) and 2C	Swale (SW-2C)	SW-2C	1012	5	5059	0.51	2.21	23
3	Detention Basin (DB-3)	DB-3	1600	5	8000	0.80	1.88	43
4A	Detention Basin (DB-4A)	DB-4A	4250	5	21250	2.13	3.91	54
4B, 4C and 4D	Detention Basin (DB-4B/C/D)	DB-4B/C/D	13000	5	65000	6.50	10.49	62
5A (School)	TBC	TBC	0	0	0	0.00	0.00	0
5B	Detention Basin (DB-5B)	DB-5B	2225	5	11125	1.11	2.54	44
5C	Detention Basin (DB-5C)	SW-5C.1	871	5	4353	1.54	3.85	40
		SW-5C.2	1089	5	5444			
		SW5C.3	523	5	2616			
		DB-5C	600	5	3000			
		Total	/	/	/	184041	18.40	32.77

CHECKING RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	AH	16/09/2025	LD	16/09/2025
A	Basin size updates	AH	28/10/2025	LD	30/10/2025

FEH Greenfield Runoff

Using the 2008 Statistical Method QMED Equation



Project Title	Southleigh Road, Havant		
Project No	3.3E+08	300	

Methodology as set out in SuDS Manual 24.3.2

[SUDS Manual Chapter 24](#)

1 Retrieve FEH Catchment Information

Define BFIHOST definition source		FEH	see note 1
Catchment Descriptors	BFIHOST	0.561	
	SAAR	756.0	see note 1
	FARL	1.0	see note 2

2 Derive QBAR (mean annual flood)

Define area	Site Area	105.4	ha	
	Applied Area	105.4	ha	see note 3
FEH Index Flood (SuDS Manual Equation 24.2)	QMED (Q ₂)	276.4	l/s	see note 4
Calculate QBAR by dividing QMED by 2yr growth factor	QBAR	314.1	l/s	see note 5

3 Select appropriate growth factors

FSR Hydrological Region		7	
100yr Growth Curve Factor	GQ ₁₀₀	3.19	
30yr Growth Curve Factor	GQ ₃₀	2.40	
10yr Growth Curve Factor	GQ ₁₀	1.62	
2yr Growth Curve Factor	GQ ₂	0.88	
1yr Growth Curve Factor	GQ ₁	0.85	

(refer to FSR Hydrological Region tab)



Figure 25.1 Hydrological areas

4 Derive Flood Frequency

Greenfield Runoff per 1ha

100yr Peak Runoff Rate	Q ₁₀₀	1002.1	l/s	Q ₁₀₀	9.5	l/s/ha
30yr Peak Runoff Rate	Q ₃₀	753.9	l/s	Q ₃₀	7.2	l/s/ha
10yr Growth Curve Rate	Q ₁₀	508.9	l/s	Q ₁₀	4.8	l/s/ha
QBAR Peak Runoff Rate	QBAR	314.1	l/s	Q _{BAR}	3.0	l/s/ha
2yr Peak Runoff Rate	Q ₂	276.4	l/s	Q ₂	2.6	l/s/ha
1yr Peak Runoff Rate	Q ₁	267.0	l/s	Q ₁	2.5	l/s/ha

DOCUMENT ISSUE RECORD

Rev	Comments	Prepared	Date	Checked	Date
-	Original calculation	AJH	19/01/2023	LWD	30/01/2023

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Inflows Storm Phase: No Surcharge - v2.0	Company Address:		



4B

Type : Catchment Area

Area (ha)	5.136
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



4A

Type : Catchment Area

Area (ha)	5.93
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5B(i)

Type : Catchment Area

Area (ha)	2.146
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025		
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2A(ii)

Type : Catchment Area

Area (ha)	1.69
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



1A(v)

Type : Catchment Area

Area (ha)	2.97
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



1B(i)

Type : Catchment Area

Area (ha)	1.383
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025		
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2C

Type : Catchment Area

Area (ha)	1.897
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



3

Type : Catchment Area

Area (ha)	2.844
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



2B (LOCAL CENTRE)

Type : Catchment Area

Area (ha)	1.198
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	80
Urban Creep (%)	0

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Inflows Storm Phase: No Surcharge - v2.0	Company Address:			



5A (SCHOOL)

Type : Catchment Area

Area (ha)	2.342
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	40
Urban Creep (%)	0



1B(ii)

Type : Catchment Area

Area (ha)	0.722
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



4C

Type : Catchment Area

Area (ha)	5.834
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

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1A(i)

Type : Catchment Area

Area (ha)	2.057
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



1A(ii)

Type : Catchment Area

Area (ha)	0.92
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



1A(iii)

Type : Catchment Area

Area (ha)	0.617
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025		
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Report Details: Type: Inflows Storm Phase: No Surcharge - v2.0	Company Address:		





1A(iv)

Type : Catchment Area

Area (ha)	0.417
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5C(v)

Type : Catchment Area

Area (ha)	0.909
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5C(iv)

Type : Catchment Area

Area (ha)	1.074
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025		
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Report Details: Type: Inflows Storm Phase: No Surcharge - v2.0	Company Address:		



2A(i)

Type : Catchment Area

Area (ha)	1.172
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5B(ii)

Type : Catchment Area

Area (ha)	1.699
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



4D

Type : Catchment Area

Area (ha)	4.924
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025		
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Report Details: Type: Inflows Storm Phase: No Surcharge - v2.0	Company Address:		



5C(i)

Type : Catchment Area

Area (ha)	2.081
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5C(ii)

Type : Catchment Area

Area (ha)	1.31
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5C(iii)

Type : Catchment Area

Area (ha)	0.465
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			



DB - 2A.2

Type : Pond

Dimensions

Exceedance Level (m)	15.500
Depth (m)	1.050
Base Level (m)	14.450
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	3853.634

Depth (m)	Area (m²)	Volume (m³)
0.000	4855.00	0.000
0.750	5426.66	3853.634
1.050	5664.23	5517.139

Inlets

Inlet

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

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (10)
Bypass Destination	(None)
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		

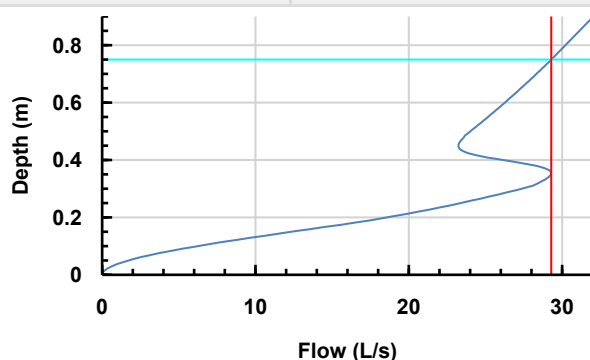


Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	14.450
Design Depth (m)	0.750
Design Flow (L/s)	29.3
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference CHE-0228-2930-0750-2930



Advanced

Perimeter	Circular
Length (m)	101.389
Friction Scheme	Manning's n
n	0.04



DB - 2A.1

Type : Pond

Dimensions

Exceedance Level (m)	16.250
Depth (m)	1.300
Base Level (m)	14.950
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	1827.451

Depth (m)	Area (m²)	Volume (m³)
0.000	1605.00	0.000
1.000	2059.33	1827.451
1.300	2206.65	2467.221

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	2A(ii)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

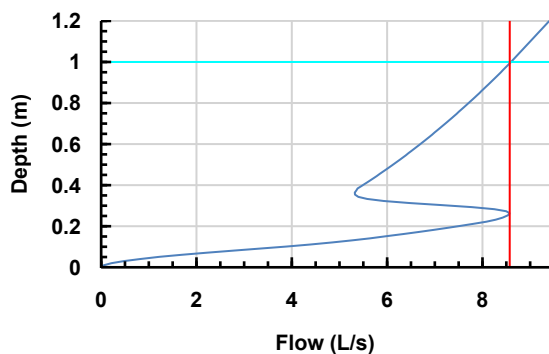
Inlet Type	Point Inflow
Incoming Item(s)	2A(i)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay
Outlet Type	Hydro-Brake®
Invert Level (m)	14.950
Design Depth (m)	1.000
Design Flow (L/s)	8.6
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0129-8600-1000-8600
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Advanced

Perimeter	Circular
Length (m)	85.780
Friction Scheme	Manning's n
n	0.04



DB - 1A.1

Type : Pond

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surge - v2.0	Company Address:			

Dimensions

Exceedance Level (m)	25.000
Depth (m)	1.500
Base Level (m)	23.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	612.652

Depth (m)	Area (m²)	Volume (m³)
0.000	373.63	0.000
0.700	531.38	315.139
1.000	607.47	485.840
1.200	661.03	612.652
1.500	745.60	823.518

Inlets

Inlet

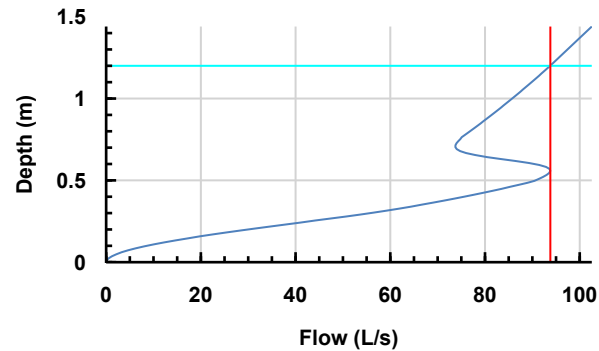
Inlet Type	Point Inflow
Incoming Item(s)	1A(i)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (1)
Outlet Type	Hydro-Brake®
Invert Level (m)	23.500
Design Depth (m)	1.200
Design Flow (L/s)	93.8
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0360-9380-1200-9380
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Advanced

Perimeter	Circular
Length (m)	44.684
Friction Scheme	Manning's n
n	0.04

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			



DB- 1A.2

Type : Pond

Dimensions

Exceedance Level (m)	22.500
Depth (m)	1.500
Base Level (m)	21.000
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	507.788

Depth (m)	Area (m²)	Volume (m³)
0.000	299.21	0.000
0.700	441.84	257.750
1.200	560.67	507.788
1.500	638.76	687.577

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (1)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	1A(ii)
Bypass Destination	(None)
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025		
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Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		

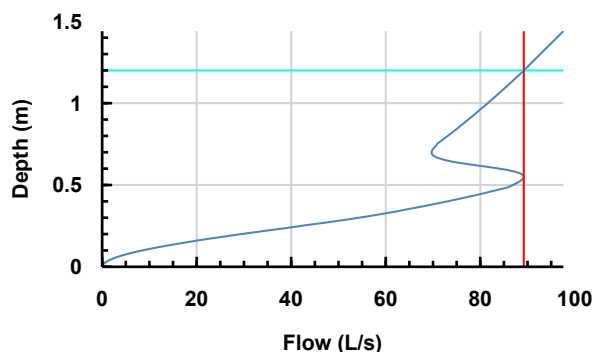


Outlets

Outlet

Outgoing Connection	No Delay (2)
Outlet Type	Hydro-Brake®
Invert Level (m)	21.000
Design Depth (m)	1.200
Design Flow (L/s)	89.3
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0352-8930-1200-8930
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Advanced

Perimeter	Circular
Length (m)	40.656
Friction Scheme	Manning's n
n	0.04



DB - 1A.3

Type : Pond

Dimensions

Exceedance Level (m)	21.000
Depth (m)	1.500
Base Level (m)	19.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	397.600

Depth (m)	Area (m²)	Volume (m³)
0.000	222.57	0.000
0.700	347.48	197.901
1.000	409.50	311.321
1.500	524.17	544.149

Project: Southleigh, Havant	Date: 30/10/2025		
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Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (2)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

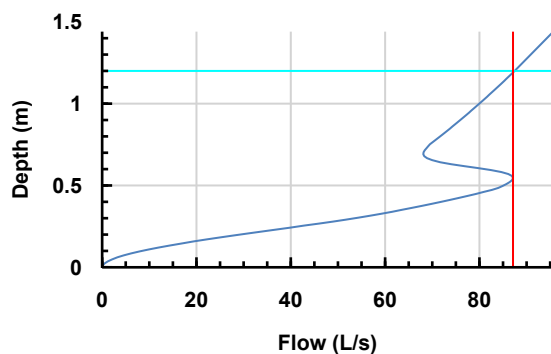
Inlet Type	Point Inflow
Incoming Item(s)	1A(iii)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (3)
Outlet Type	Hydro-Brake®
Invert Level (m)	19.500
Design Depth (m)	1.200
Design Flow (L/s)	87.5
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0349-8750-1200-8750
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Advanced

Perimeter	Circular
Length (m)	38.318
Friction Scheme	Manning's n
n	0.04



DB - 1A.4

Type : Pond

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Dimensions

Exceedance Level (m)	18.400
Depth (m)	1.500
Base Level (m)	16.900
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	397.053

Depth (m)	Area (m²)	Volume (m³)
0.000	222.19	0.000
1.000	408.99	310.879
1.500	523.59	543.436

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (3)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

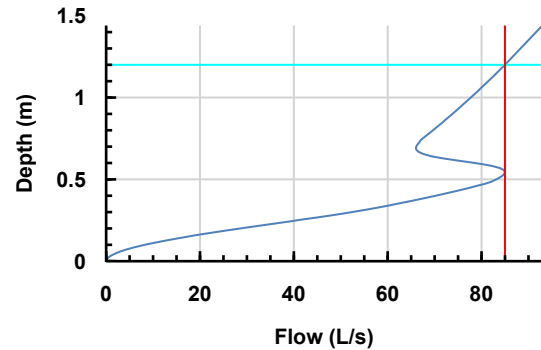
Inlet Type	Point Inflow
Incoming Item(s)	1A(iv)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (4)
Outlet Type	Hydro-Brake®
Invert Level (m)	16.900
Design Depth (m)	1.200
Design Flow (L/s)	85.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0348-8500-1200-8500
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Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			

Advanced

Perimeter	Circular
Length (m)	35.028
Friction Scheme	Manning's n
n	0.04



DB - 1A.5

Type : Pond

Dimensions

Exceedance Level (m)	16.300
Depth (m)	1.300
Base Level (m)	15.000
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	2775.293

Depth (m)	Area (m²)	Volume (m³)
0.000	2500.00	0.000
1.000	3060.01	2775.293
1.300	3239.04	3720.023

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (4)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	1A(v)
Bypass Destination	(None)
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		

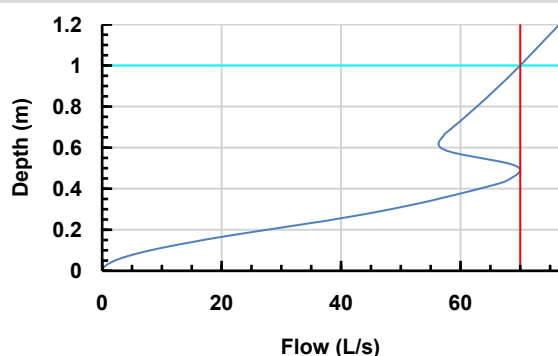


Outlets

Outlet (1)

Outgoing Connection	No Delay (10)
Outlet Type	Hydro-Brake®
Invert Level (m)	15.000
Design Depth (m)	1.000
Design Flow (L/s)	70.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0318-7000-1000-7000
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Advanced

Perimeter	Circular
Length (m)	113.179
Friction Scheme	Manning's n
n	0.04



DB - 3

Type : Pond

Dimensions

Exceedance Level (m)	11.400
Depth (m)	1.300
Base Level (m)	10.100
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	1822.119

Depth (m)	Area (m²)	Volume (m³)
0.000	1600.00	0.000
1.000	2053.66	1822.119
1.300	2200.79	2460.160

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surge - v2.0	Company Address:		



Inlets

Inlet (1)

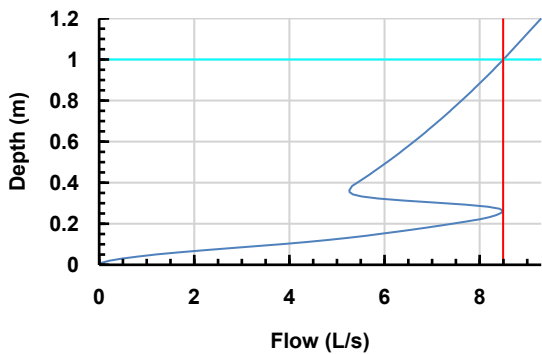
Inlet Type	Point Inflow
Incoming Item(s)	3
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	10.100
Design Depth (m)	1.000
Design Flow (L/s)	8.5
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0128-8500-1000-8500
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Advanced

Perimeter	Circular
Length (m)	76.359
Friction Scheme	Manning's n
n	0.04



DB - 4A

Type : Pond

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Dimensions

Exceedance Level (m)	12.000
Depth (m)	1.250
Base Level (m)	10.750
Freeboard (mm)	400
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	3868.742

Depth (m)	Area (m²)	Volume (m³)
0.000	4250.00	0.000
0.850	4859.73	3868.742
1.150	5084.69	5360.278
1.250	5160.80	5872.548

Inlets

Inlet

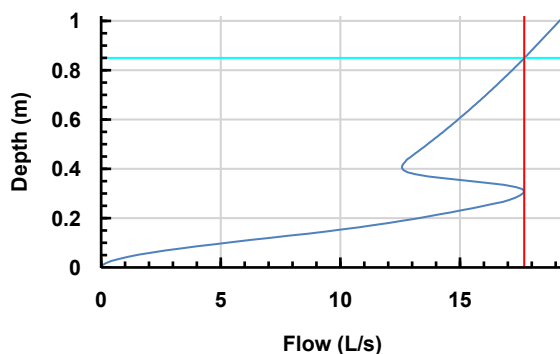
Inlet Type	Point Inflow
Incoming Item(s)	4A
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	10.750
Design Depth (m)	0.850
Design Flow (L/s)	17.7
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference CHE-0181-1770-0850-1770



Advanced

Perimeter	Circular
Length (m)	160.666
Friction Scheme	Manning's n
n	0.04

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			



DB - 4B/C/D

Type : Pond

Dimensions

Exceedance Level (m)	11.600
Depth (m)	1.100
Base Level (m)	10.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	10792.840

Depth (m)	Area (m²)	Volume (m³)
0.000	13000.00	0.000
0.800	13988.13	10792.840
1.100	14368.01	15046.134

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	4C
Bypass Destination	4D
Capacity Type	(None)
	No Restriction

Inlet (2)

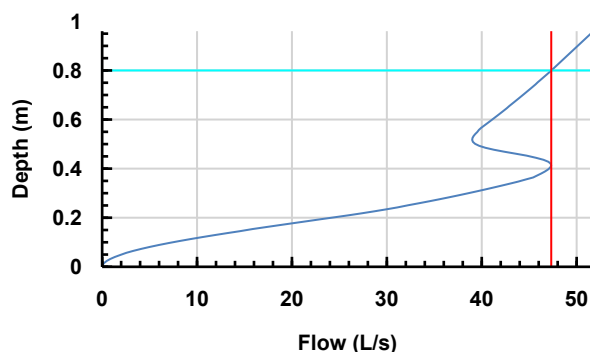
Inlet Type	Point Inflow
Incoming Item(s)	4B
Bypass Destination	(None)
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	10.500
Design Depth (m)	0.800
Design Flow (L/s)	47.4
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0271-4740-0800-4740



Advanced

Perimeter	Circular
Length (m)	299.109
Friction Scheme	Manning's n
n	0.04



DB - 5B

Type : Pond

Dimensions

Exceedance Level (m)	10.000
Depth (m)	1.300
Base Level (m)	8.700
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	2.885
Total Volume (m³)	2471.790

Depth (m)	Area (m²)	Volume (m³)
0.000	2225.00	0.000
1.000	2727.09	2471.790
1.300	2896.24	3315.162

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	5B(i)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (2)

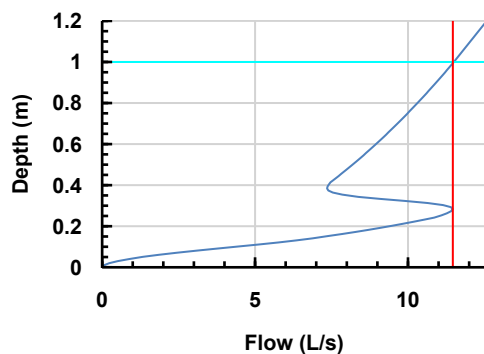
Inlet Type	Point Inflow
Incoming Item(s)	5B(ii)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	8.700
Design Depth (m)	1.000
Design Flow (L/s)	11.5
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0147-1150-1000-1150
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Advanced

Perimeter	Circular
Length (m)	128.646
Friction Scheme	Manning's n
n	0.04



DB - 5C

Type : Pond

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Dimensions

Exceedance Level (m)	10.700
Depth (m)	1.400
Base Level (m)	9.300
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	830.145

Depth (m)	Area (m²)	Volume (m³)
0.000	600.00	0.000
1.100	920.76	830.145
1.400	1020.11	1121.148

Inlets

Inlet

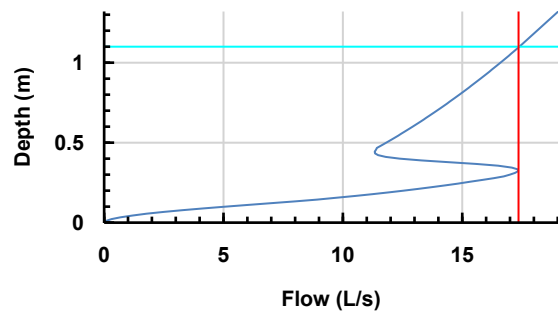
Inlet Type	Point Inflow
Incoming Item(s)	No Delay (8)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	9.300
Design Depth (m)	1.100
Design Flow (L/s)	17.4
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0175-1740-1100-1740
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Advanced

Perimeter	Circular
Length (m)	77.442
Friction Scheme	Manning's n
n	0.04

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		





DB - 1B

Type : Pond

Dimensions

Exceedance Level (m)	14.050
Depth (m)	1.300
Base Level (m)	12.750
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	1200.352

Depth (m)	Area (m²)	Volume (m³)
0.000	1021.019	0.000
1.000	1389.109	1200.352
1.300	1510.563	1635.175

Inlets

Inlet

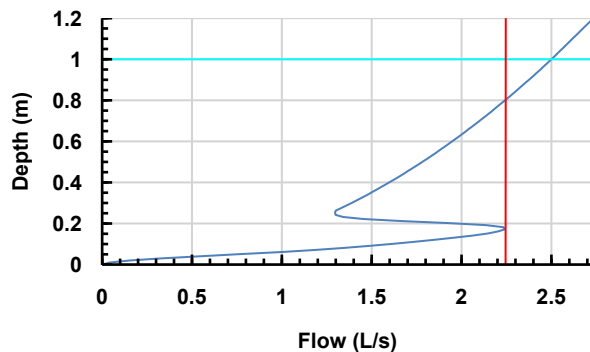
Inlet Type	Point Inflow
Incoming Item(s)	1B(i)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (5)
Outlet Type	Hydro-Brake®
Invert Level (m)	12.750
Design Depth (m)	1.000
Design Flow (L/s)	2.5
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0072-2500-1000-2500
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Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			

Advanced			
Perimeter		Circular	
Length (m)		79.783	
Friction Scheme		Manning's n	
n		0.04	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			



SW - 2C

Type : Swale

Swale

Exceedance Level (m)	12.400
Depth (m)	1.400
Base Level (m)	11.000
Top Width (m)	11.700
Side Slope (1:X)	3.00
Base Width (m)	3.300
Freeboard (mm)	400
Length (m)	315.000
Long. Slope (1:X)	450.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	1984.500

Inlets

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (7)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Point Inflow
Incoming Item(s)	2C
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

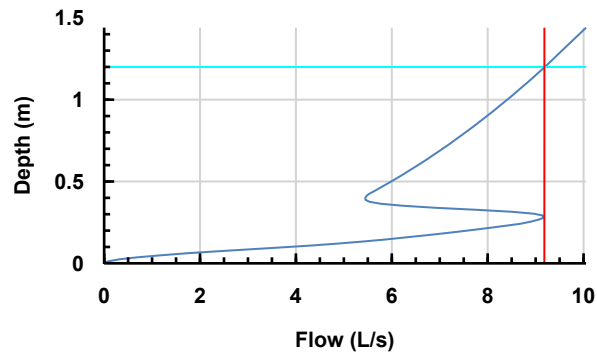
Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	11.000
Design Depth (m)	1.200
Design Flow (L/s)	9.2
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0130-9200-1200-9200



Advanced

Swale

Porosity (%)	100
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SW - 1B

Type : Swale

Swale

Exceedance Level (m)	13.450
Depth (m)	1.000
Base Level (m)	12.450
Top Width (m)	9.750
Side Slope (1:X)	3.00
Base Width (m)	3.750
Freeboard (mm)	300
Length (m)	150.000
Long. Slope (1:X)	500.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	614.250

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	1B(ii)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet

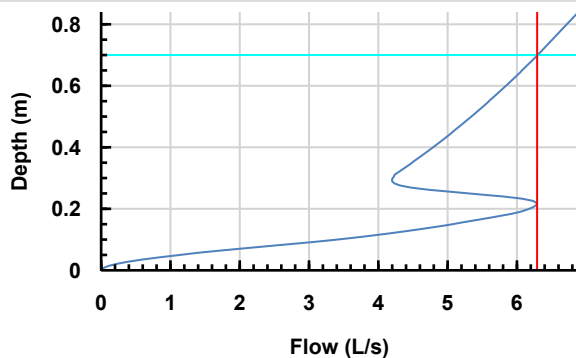
Inlet Type	Point Inflow
Incoming Item(s)	No Delay (5)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	12.450
Design Depth (m)	0.700
Design Flow (L/s)	6.3
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0117-6300-0700-6300
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Advanced

Swale

Porosity (%)	100
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SW - 5C.3

Type : Swale

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			

Swale

Exceedance Level (m)	10.900
Depth (m)	1.300
Base Level (m)	9.600
Top Width (m)	15.274
Side Slope (1:X)	3.00
Base Width (m)	7.474
Freeboard (mm)	300
Length (m)	77.808
Long. Slope (1:X)	1000.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	814.930

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (12)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Lateral Inflow
Incoming Item(s)	5C(iv)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Lateral Inflow
Incoming Item(s)	5C(v)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

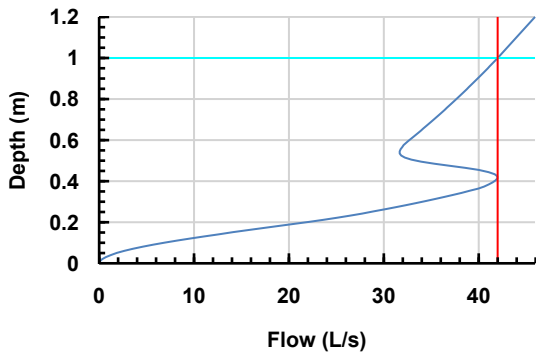
Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			

Outlets

Outlet

Outgoing Connection	No Delay (8)
Outlet Type	Hydro-Brake®
Invert Level (m)	9.600
Design Depth (m)	1.000
Design Flow (L/s)	42.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0261-4200-1000-4200
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Advanced

Swale

Porosity (%)	100
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SW - 5C.2

Type : Swale

Swale

Exceedance Level (m)	11.000
Depth (m)	1.250
Base Level (m)	9.750
Top Width (m)	16.730
Side Slope (1:X)	3.00
Base Width (m)	9.230
Freeboard (mm)	300
Length (m)	125.471
Long. Slope (1:X)	1000.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	1439.908

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (11)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Lateral Inflow
Incoming Item(s)	5C(ii)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

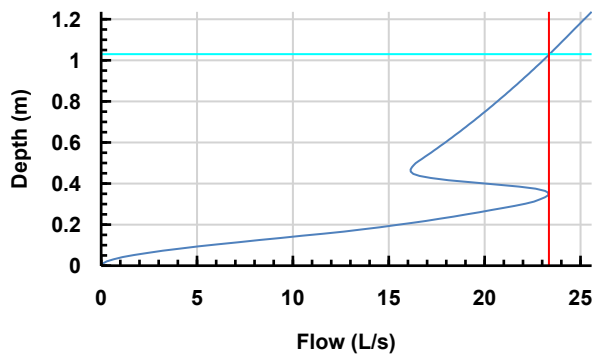
Inlet Type	Lateral Inflow
Incoming Item(s)	5C(iii)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (12)
Outlet Type	Hydro-Brake®
Invert Level (m)	9.750
Design Depth (m)	1.030
Design Flow (L/s)	23.4
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0201-2340-1030-2340
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Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			

Advanced	
Swale	
Porosity (%)	100



SW - 5C.1

Type : Swale

Swale	
Exceedance Level (m)	11.700
Depth (m)	1.200
Base Level (m)	10.500
Top Width (m)	12.394
Side Slope (1:X)	3.00
Base Width (m)	5.194
Freeboard (mm)	300
Length (m)	174.834
Long. Slope (1:X)	1000.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	1242.113

Inlets	
Inlet	
Inlet Type	Lateral Inflow
Incoming Item(s)	5C(i)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

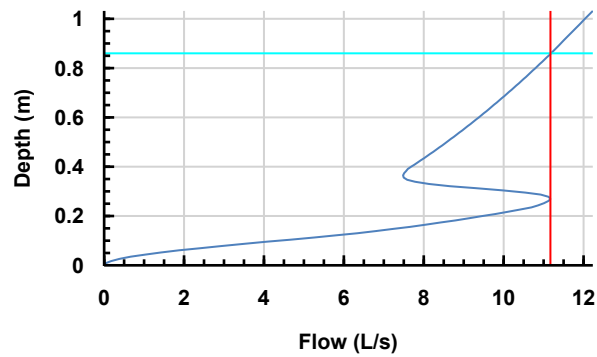
Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:			

Outlets

Outlet

Outgoing Connection	No Delay (11)
Outlet Type	Hydro-Brake®
Invert Level (m)	10.500
Design Depth (m)	0.860
Design Flow (L/s)	11.2
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0148-1120-0860-1120
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Advanced

Swale

Porosity (%)	100
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Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: No Surcharge - v2.0	Company Address:		



GC - 2B

Type : Cellular Storage

Dimensions

Exceedance Level (m)	13.350
Depth (m)	0.400
Base Level (m)	12.000
Number of Crates Long	60
Number of Crates Wide	95
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	1083.950

Inlets

Inlet (1)

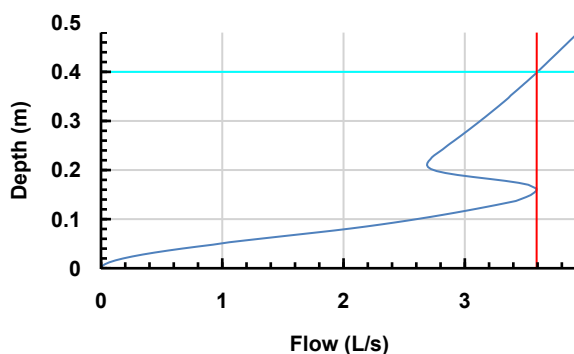
Inlet Type	Point Inflow
Incoming Item(s)	2B (LOCAL CENTRE)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet (1)

Outgoing Connection	No Delay (7)
Outlet Type	Hydro-Brake®
Invert Level (m)	12.000
Design Depth (m)	0.400
Design Flow (L/s)	3.6
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0097-3600-0400-3600
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Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Inflow Summary Storm Phase: No Surcharge - v2.0	Company Address:		



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
1A(i)	DB - 1A.1		Time of Concentration	2.057	60	10	66	1.358
1A(ii)	DB- 1A.2		Time of Concentration	0.920	60	10	66	0.607
1A(iii)	DB - 1A.3		Time of Concentration	0.617	60	10	66	0.407
1A(iv)	DB - 1A.4		Time of Concentration	0.417	60	10	66	0.275
1A(v)	DB - 1A.5		Time of Concentration	2.970	60	10	66	1.960
1B(i)	DB - 1B		Time of Concentration	1.383	60	10	66	0.913
1B(ii)	SW - 1B		Time of Concentration	0.722	60	10	66	0.477
2A(i)	DB - 2A.1		Time of Concentration	1.172	60	10	66	0.773
2A(ii)	DB - 2A.1		Time of Concentration	1.690	60	10	66	1.116
2B (LOCAL CENTRE)	GC - 2B		Time of Concentration	1.198	80	0	80	0.958
2C	SW - 2C		Time of Concentration	1.897	60	10	66	1.252
3	DB - 3		Time of Concentration	2.844	60	10	66	1.877
4A	DB - 4A		Time of Concentration	5.930	60	10	66	3.914
4B	DB - 4B/C/D		Time of Concentration	5.136	60	10	66	3.390
4C	DB - 4B/C/D		Time of Concentration	5.834	60	10	66	3.851
4D	DB - 4B/C/D		Time of Concentration	4.924	60	10	66	3.250
5A (SCHOOL)			Time of Concentration	2.342	40	0	40	0.937
5B(i)	DB - 5B		Time of Concentration	2.146	60	10	66	1.416
5B(ii)	DB - 5B		Time of Concentration	1.699	60	10	66	1.121
5C(i)	SW - 5C.1		Time of Concentration	2.081	60	10	66	1.373
5C(ii)	SW - 5C.2		Time of Concentration	1.310	60	10	66	0.865
5C(iii)	SW - 5C.2		Time of Concentration	0.465	60	10	66	0.307
5C(iv)	SW - 5C.3		Time of Concentration	1.074	60	10	66	0.709
5C(v)	SW - 5C.3		Time of Concentration	0.909	60	10	66	0.600
TOTAL		0.0		51.738				33.706

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: No Surcharge - v2.0	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
DB - 2A.2	Free Discharge			
SW - 2C	Free Discharge			
DB - 3	Free Discharge			
DB - 4A	Free Discharge			
DB - 4B/C/D	Free Discharge			
DB - 5B	Free Discharge			
DB - 5C	Free Discharge			
SW - 1B	Free Discharge			

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Inflows Storm Phase: Surcharge - v2.0	Company Address:			



4B

Type : Catchment Area

Area (ha)

5.136

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



4A

Type : Catchment Area

Area (ha)

5.93

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5B(i)

Type : Catchment Area

Area (ha)

2.146

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Inflows Storm Phase: Surcharge - v2.0	Company Address:		



2A(ii)

Type : Catchment Area

Area (ha)	1.69
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



1A(v)

Type : Catchment Area

Area (ha)	2.97
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



1B(i)

Type : Catchment Area

Area (ha)	1.383
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Inflows Storm Phase: Surge - v2.0	Company Address:			



2C

Type : Catchment Area

Area (ha)	1.897
-----------	-------

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



3

Type : Catchment Area

Area (ha)	2.844
-----------	-------

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



2B (LOCAL CENTRE)

Type : Catchment Area

Area (ha)	1.198
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	80
Urban Creep (%)	0

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Inflows Storm Phase: Surcharge - v2.0	Company Address:			



5A (SCHOOL)

Type : Catchment Area

Area (ha)	2.342
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	40
Urban Creep (%)	0



1B(ii)

Type : Catchment Area

Area (ha)	0.722
-----------	-------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



4C

Type : Catchment Area

Area (ha)	5.834
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Inflows Storm Phase: Surcharge - v2.0	Company Address:		



1A(i)

Type : Catchment Area

Area (ha)	2.057
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



1A(ii)

Type : Catchment Area

Area (ha)	0.92
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



1A(iii)

Type : Catchment Area

Area (ha)	0.617
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Inflows Storm Phase: Surcharge - v2.0	Company Address:			



1A(iv)

Type : Catchment Area

Area (ha)	0.417
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5C(v)

Type : Catchment Area

Area (ha)	0.909
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5C(iv)

Type : Catchment Area

Area (ha)	1.074
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Inflows Storm Phase: Surge - v2.0	Company Address:			



2A(i)

Type : Catchment Area

Area (ha)	1.172
-----------	-------

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5B(ii)

Type : Catchment Area

Area (ha)	1.699
-----------	-------

Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



4D

Type : Catchment Area

Area (ha)	4.924
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Dynamic Sizing	
Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Inflows Storm Phase: Surcharge - v2.0	Company Address:			



5C(i)

Type : Catchment Area

Area (ha)	2.081
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5C(ii)

Type : Catchment Area

Area (ha)	1.31
-----------	------

Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10



5C(iii)

Type : Catchment Area

Area (ha)	0.465
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Dynamic Sizing

Runoff Method	Time of Concentration
Summer Volumetric Runoff	1.000
Winter Volumetric Runoff	1.000
Time of Concentration (mins)	5
Percentage Impervious (%)	60
Urban Creep (%)	10

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:			



DB - 2A.2

Type : Pond

Dimensions

Exceedance Level (m)	15.500
Depth (m)	1.050
Base Level (m)	14.450
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	3853.634

Depth (m)	Area (m²)	Volume (m³)
0.000	4855.00	0.000
0.750	5426.66	3853.634
1.050	5664.23	5517.139

Inlets

Inlet

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

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (10)
Bypass Destination	(None)
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:		

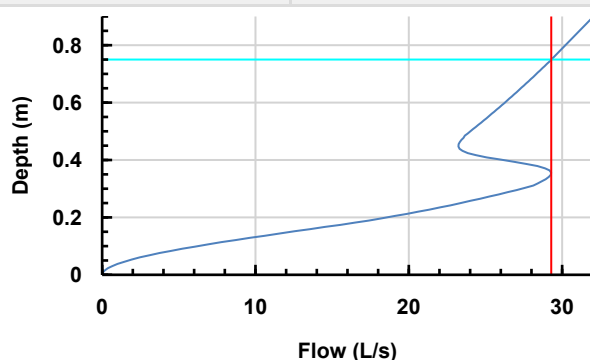


Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	14.450
Design Depth (m)	0.750
Design Flow (L/s)	29.3
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference CHE-0228-2930-0750-2930



Advanced

Perimeter	Circular
Length (m)	101.389
Friction Scheme	Manning's n
n	0.04



DB - 2A.1

Type : Pond

Dimensions

Exceedance Level (m)	16.250
Depth (m)	1.300
Base Level (m)	14.950
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	1827.451

Depth (m)	Area (m²)	Volume (m³)
0.000	1605.00	0.000
1.000	2059.33	1827.451
1.300	2206.65	2467.221

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:		



Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	2A(ii)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

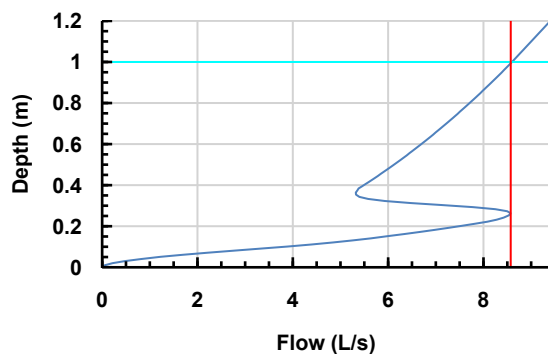
Inlet Type	Point Inflow
Incoming Item(s)	2A(i)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay
Outlet Type	Hydro-Brake®
Invert Level (m)	14.950
Design Depth (m)	1.000
Design Flow (L/s)	8.6
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0129-8600-1000-8600
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Advanced

Perimeter	Circular
Length (m)	85.780
Friction Scheme	Manning's n
n	0.04



DB - 1A.1

Type : Pond

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:		



Dimensions

Exceedance Level (m)	25.000
Depth (m)	1.500
Base Level (m)	23.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	612.652

Depth (m)	Area (m²)	Volume (m³)
0.000	373.63	0.000
0.700	531.38	315.139
1.000	607.47	485.840
1.200	661.03	612.652
1.500	745.60	823.518

Inlets

Inlet

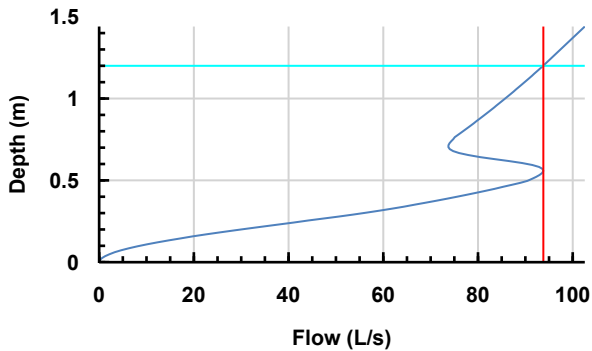
Inlet Type	Point Inflow
Incoming Item(s)	1A(i)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (1)
Outlet Type	Hydro-Brake®
Invert Level (m)	23.500
Design Depth (m)	1.200
Design Flow (L/s)	93.8
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0360-9380-1200-9380
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Advanced

Perimeter	Circular
Length (m)	44.684
Friction Scheme	Manning's n
n	0.04

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:			



DB- 1A.2

Type : Pond

Dimensions

Exceedance Level (m)	22.500
Depth (m)	1.500
Base Level (m)	21.000
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	507.788

Depth (m)	Area (m²)	Volume (m³)
0.000	299.21	0.000
0.700	441.84	257.750
1.200	560.67	507.788
1.500	638.76	687.577

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (1)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

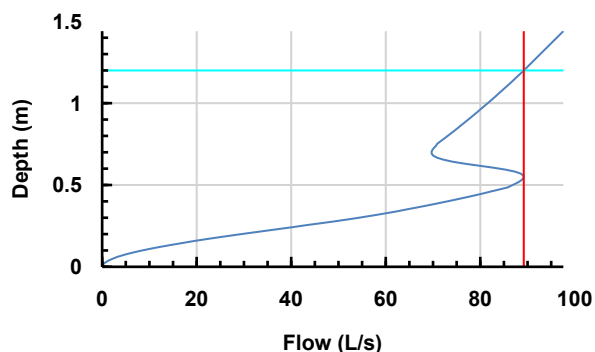
Inlet Type	Point Inflow
Incoming Item(s)	1A(ii)
Bypass Destination	(None)
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:			

Outlets

Outlet

Outgoing Connection	No Delay (2)
Outlet Type	Hydro-Brake®
Invert Level (m)	21.000
Design Depth (m)	1.200
Design Flow (L/s)	89.3
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0352-8930-1200-8930



Advanced

Perimeter	Circular
Length (m)	40.656
Friction Scheme	Manning's n
n	0.04



DB - 1A.3

Type : Pond

Dimensions

Exceedance Level (m)	21.000
Depth (m)	1.500
Base Level (m)	19.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	397.600

Depth (m)	Area (m²)	Volume (m³)
0.000	222.57	0.000
0.700	347.48	197.901
1.000	409.50	311.321
1.500	524.17	544.149

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:		



Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (2)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

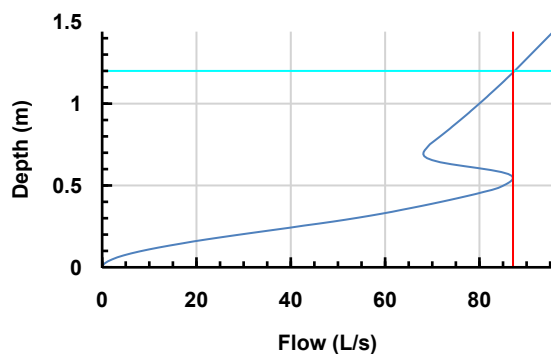
Inlet Type	Point Inflow
Incoming Item(s)	1A(iii)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (3)
Outlet Type	Hydro-Brake®
Invert Level (m)	19.500
Design Depth (m)	1.200
Design Flow (L/s)	87.5
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0349-8750-1200-8750
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Advanced

Perimeter	Circular
Length (m)	38.318
Friction Scheme	Manning's n
n	0.04



DB - 1A.4

Type : Pond

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:		



Dimensions

Exceedance Level (m)	18.400
Depth (m)	1.500
Base Level (m)	16.900
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	397.053

Depth (m)	Area (m²)	Volume (m³)
0.000	222.19	0.000
1.000	408.99	310.879
1.500	523.59	543.436

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (3)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

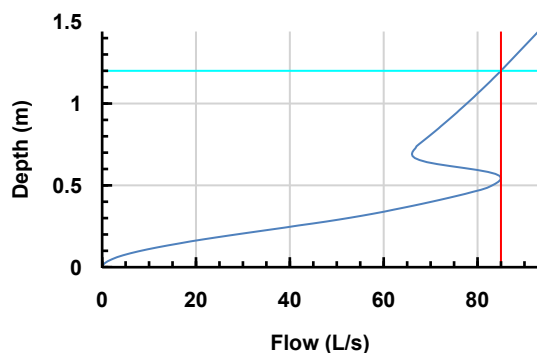
Inlet Type	Point Inflow
Incoming Item(s)	1A(iv)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (4)
Outlet Type	Hydro-Brake®
Invert Level (m)	16.900
Design Depth (m)	1.200
Design Flow (L/s)	85.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0348-8500-1200-8500
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Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:			

Advanced

Perimeter	Circular
Length (m)	35.028
Friction Scheme	Manning's n
n	0.04



DB - 1A.5

Type : Pond

Dimensions

Exceedance Level (m)	16.300
Depth (m)	1.300
Base Level (m)	15.000
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	2775.293

Depth (m)	Area (m²)	Volume (m³)
0.000	2500.00	0.000
1.000	3060.01	2775.293
1.300	3239.04	3720.023

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (4)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	1A(v)
Bypass Destination	(None)
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:		

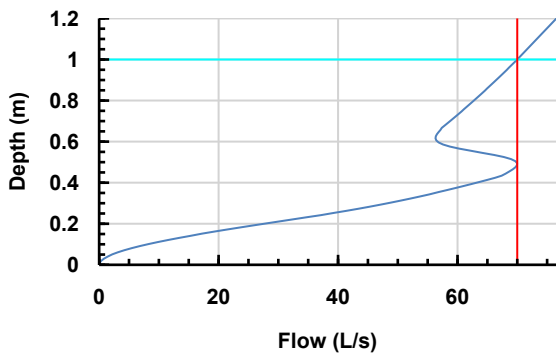


Outlets

Outlet (1)

Outgoing Connection	No Delay (10)
Outlet Type	Hydro-Brake®
Invert Level (m)	15.000
Design Depth (m)	1.000
Design Flow (L/s)	70.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0318-7000-1000-7000
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Advanced

Perimeter	Circular
Length (m)	113.179
Friction Scheme	Manning's n
n	0.04



DB - 3

Type : Pond

Dimensions

Exceedance Level (m)	11.400
Depth (m)	1.300
Base Level (m)	10.100
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	1822.119

Depth (m)	Area (m²)	Volume (m³)
0.000	1600.00	0.000
1.000	2053.66	1822.119
1.300	2200.79	2460.160

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:		



Inlets

Inlet (1)

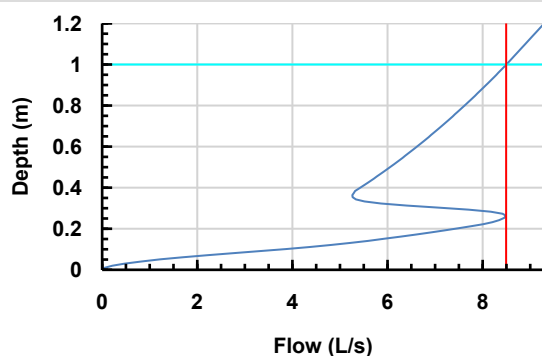
Inlet Type	Point Inflow
Incoming Item(s)	3
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	10.100
Design Depth (m)	1.000
Design Flow (L/s)	8.5
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0128-8500-1000-8500
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Advanced

Perimeter	Circular
Length (m)	76.359
Friction Scheme	Manning's n
n	0.04



DB - 4A

Type : Pond

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:		



Dimensions

Exceedance Level (m)	12.000
Depth (m)	1.250
Base Level (m)	10.750
Freeboard (mm)	400
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	3868.742

Depth (m)	Area (m²)	Volume (m³)
0.000	4250.00	0.000
0.850	4859.73	3868.742
1.150	5084.69	5360.278
1.250	5160.80	5872.548

Inlets

Inlet

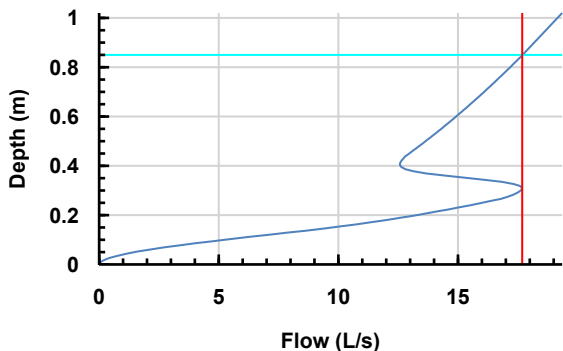
Inlet Type	Point Inflow
Incoming Item(s)	4A
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	10.750
Design Depth (m)	0.850
Design Flow (L/s)	17.7
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0181-1770-0850-1770
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Advanced

Perimeter	Circular
Length (m)	160.666
Friction Scheme	Manning's n
n	0.04

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:			



DB - 4B/C/D

Type : Pond

Dimensions

Exceedance Level (m)	11.600
Depth (m)	1.100
Base Level (m)	10.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	10792.840

Depth (m)	Area (m²)	Volume (m³)
0.000	13000.00	0.000
0.800	13988.13	10792.840
1.100	14368.01	15046.134

Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	4C
Bypass Destination	4D
Capacity Type	(None)
	No Restriction

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	4B
Bypass Destination	(None)
Capacity Type	No Restriction

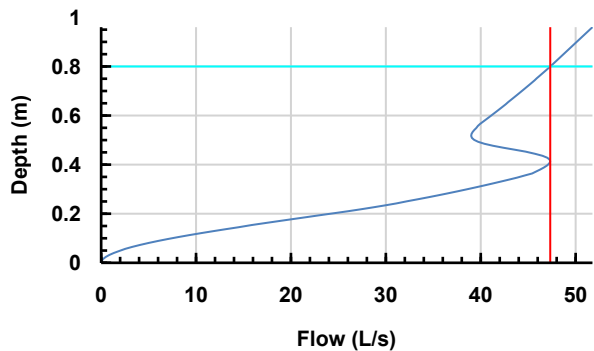
Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:		



Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	10.500
Design Depth (m)	0.800
Design Flow (L/s)	47.4
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0271-4740-0800-4740



Advanced

Perimeter	Circular
Length (m)	299.109
Friction Scheme	Manning's n
n	0.04



DB - 5B

Type : Pond

Dimensions

Exceedance Level (m)	10.000	
Depth (m)	1.300	
Base Level (m)	8.700	
Freeboard (mm)	300	
Initial Depth (m)	0.000	
Porosity (%)	100	
Average Slope (1:X)	2.885	
Total Volume (m³)	2471.790	

Depth (m)	Area (m²)	Volume (m³)
0.000	2225.00	0.000
1.000	2727.09	2471.790
1.300	2896.24	3315.162

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:		



Inlets

Inlet

Inlet Type	Point Inflow
Incoming Item(s)	5B(i)
Bypass Destination	(None)
Capacity Type	No Restriction

Inlet (2)

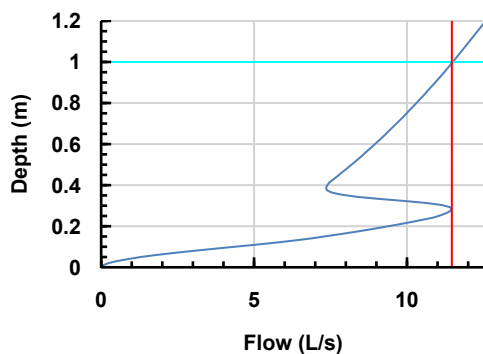
Inlet Type	Point Inflow
Incoming Item(s)	5B(ii)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	8.700
Design Depth (m)	1.000
Design Flow (L/s)	11.5
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0147-1150-1000-1150
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Advanced

Perimeter	Circular
Length (m)	128.646
Friction Scheme	Manning's n
n	0.04



DB - 5C

Type : Pond

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:		



Dimensions

Exceedance Level (m)	10.700
Depth (m)	1.400
Base Level (m)	9.300
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	830.145

Depth (m)	Area (m²)	Volume (m³)
0.000	600.00	0.000
1.100	920.76	830.145
1.400	1020.11	1121.148

Inlets

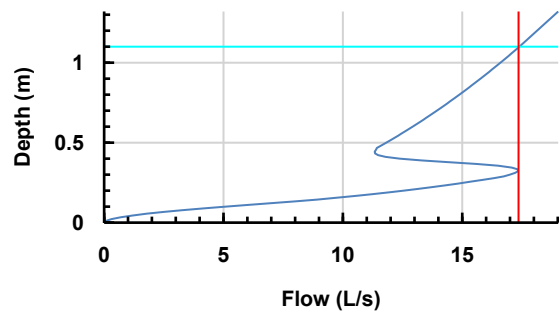
Inlet

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (8)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	9.300
Design Depth (m)	1.100
Design Flow (L/s)	17.4
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0175-1740-1100-1740



Advanced

Perimeter	Circular
Length (m)	77.442
Friction Scheme	Manning's n
n	0.04

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:		



DB - 1B

Type : Pond

Dimensions

Exceedance Level (m)	14.050
Depth (m)	1.300
Base Level (m)	12.750
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	3.00
Total Volume (m³)	1200.352

Depth (m)	Area (m²)	Volume (m³)
0.000	1021.019	0.000
1.000	1389.109	1200.352
1.300	1510.563	1635.175

Inlets

Inlet

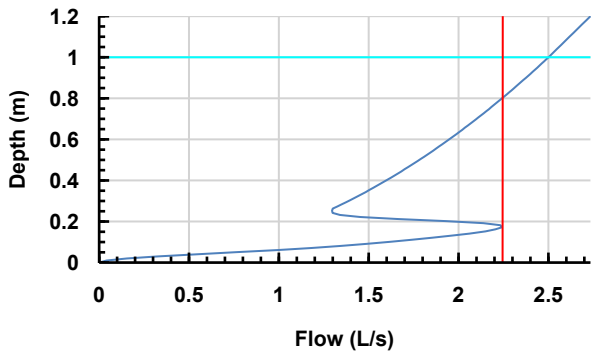
Inlet Type	Point Inflow
Incoming Item(s)	1B(i)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (5)
Outlet Type	Hydro-Brake®
Invert Level (m)	12.750
Design Depth (m)	1.000
Design Flow (L/s)	2.5
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0072-2500-1000-2500
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Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:			

Advanced

Perimeter	Circular
Length (m)	79.783
Friction Scheme	Manning's n
n	0.04

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:			



SW - 2C

Type : Swale

Swale

Exceedance Level (m)	12.400
Depth (m)	1.400
Base Level (m)	11.000
Top Width (m)	11.700
Side Slope (1:X)	3.00
Base Width (m)	3.300
Freeboard (mm)	400
Length (m)	315.000
Long. Slope (1:X)	450.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	1984.500

Inlets

Inlet (2)

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (7)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

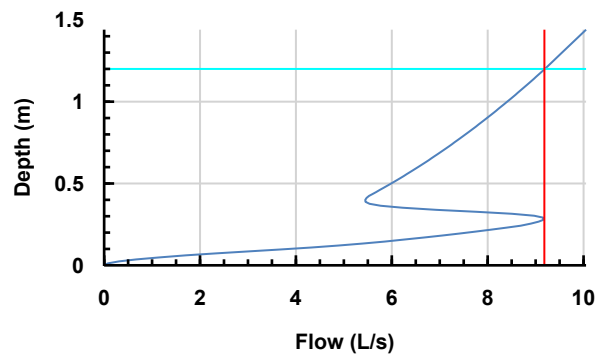
Inlet Type	Point Inflow
Incoming Item(s)	2C
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:			

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	11.000
Design Depth (m)	1.200
Design Flow (L/s)	9.2
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0130-9200-1200-9200



Advanced

Swale

Porosity (%)	100
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SW - 1B

Type : Swale

Swale

Exceedance Level (m)	13.450
Depth (m)	1.000
Base Level (m)	12.450
Top Width (m)	9.750
Side Slope (1:X)	3.00
Base Width (m)	3.750
Freeboard (mm)	300
Length (m)	150.000
Long. Slope (1:X)	500.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	614.250

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:			

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	1B(ii)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet

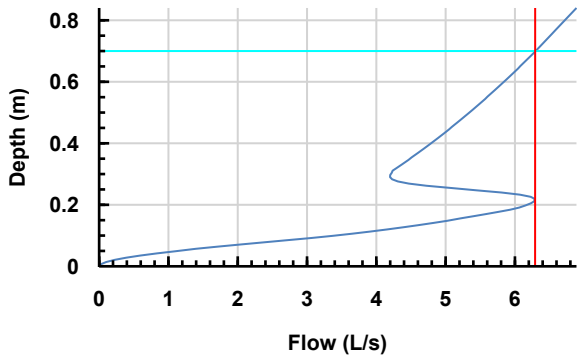
Inlet Type	Point Inflow
Incoming Item(s)	No Delay (5)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	(None)
Outlet Type	Hydro-Brake®
Invert Level (m)	12.450
Design Depth (m)	0.700
Design Flow (L/s)	6.3
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0117-6300-0700-6300
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Advanced

Swale

Porosity (%)	100
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SW - 5C.3

Type : Swale

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:			

Swale

Exceedance Level (m)	10.900
Depth (m)	1.300
Base Level (m)	9.600
Top Width (m)	15.274
Side Slope (1:X)	3.00
Base Width (m)	7.474
Freeboard (mm)	300
Length (m)	77.808
Long. Slope (1:X)	1000.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	814.930

Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (12)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Lateral Inflow
Incoming Item(s)	5C(iv)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

Inlet Type	Lateral Inflow
Incoming Item(s)	5C(v)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:		

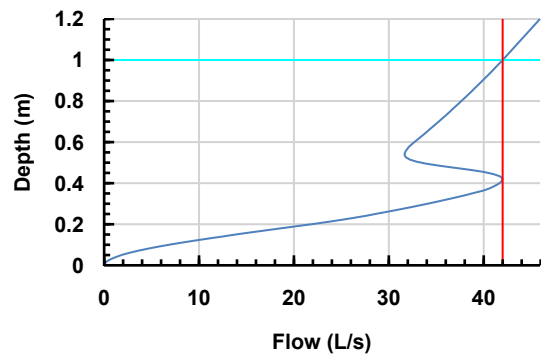


Outlets

Outlet

Outgoing Connection	No Delay (8)
Outlet Type	Hydro-Brake®
Invert Level (m)	9.600
Design Depth (m)	1.000
Design Flow (L/s)	42.0
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0261-4200-1000-4200
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Advanced

Swale

Porosity (%)	100
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SW - 5C.2

Type : Swale

Swale

Exceedance Level (m)	11.000
Depth (m)	1.250
Base Level (m)	9.750
Top Width (m)	16.730
Side Slope (1:X)	3.00
Base Width (m)	9.230
Freeboard (mm)	300
Length (m)	125.471
Long. Slope (1:X)	1000.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	1439.908

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:		



Inlets

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	No Delay (11)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (2)

Inlet Type	Lateral Inflow
Incoming Item(s)	5C(ii)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Inlet (3)

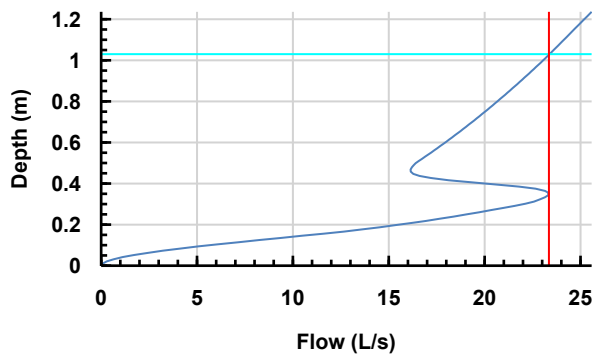
Inlet Type	Lateral Inflow
Incoming Item(s)	5C(iii)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	No Delay (12)
Outlet Type	Hydro-Brake®
Invert Level (m)	9.750
Design Depth (m)	1.030
Design Flow (L/s)	23.4
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0201-2340-1030-2340
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Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surcharge - v2.0	Company Address:			

Advanced	
Swale	
Porosity (%)	100



SW - 5C.1

Type : Swale

Swale	
Exceedance Level (m)	11.700
Depth (m)	1.200
Base Level (m)	10.500
Top Width (m)	12.394
Side Slope (1:X)	3.00
Base Width (m)	5.194
Freeboard (mm)	300
Length (m)	174.834
Long. Slope (1:X)	1000.00
Filtration Rate (m/hr)	0.0
Friction Scheme	Manning's n
n	0.04
Total Volume (m³)	1242.113

Inlets	
Inlet	
Inlet Type	Lateral Inflow
Incoming Item(s)	5C(i)
Bypass Destination	(None)
Inlet Destination	Ponding Area
Capacity Type	No Restriction

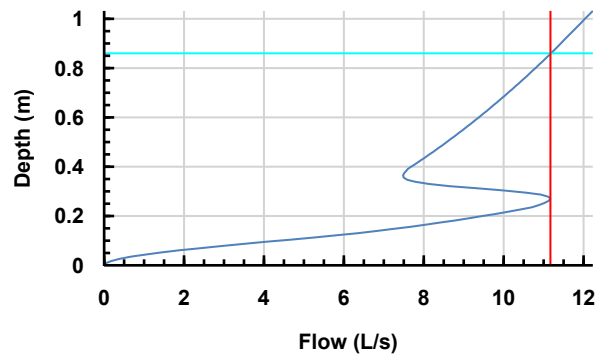
Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Storm Phase: Surge - v2.0	Company Address:			

Outlets

Outlet

Outgoing Connection	No Delay (11)
Outlet Type	Hydro-Brake®
Invert Level (m)	10.500
Design Depth (m)	0.860
Design Flow (L/s)	11.2
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐

Unit Reference	CHE-0148-1120-0860-1120
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Advanced

Swale

Porosity (%)	100
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Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Stormwater Controls Storm Phase: Surgecharge - v2.0	Company Address:		



GC - 2B

Type : Cellular Storage

Dimensions

Exceedance Level (m)	13.350
Depth (m)	0.400
Base Level (m)	12.000
Number of Crates Long	60
Number of Crates Wide	95
Number of Crates High	1
Porosity (%)	95
Crate Length (m)	1
Crate Width (m)	0.5
Crate Height (m)	0.4
Total Volume (m³)	1083.950

Inlets

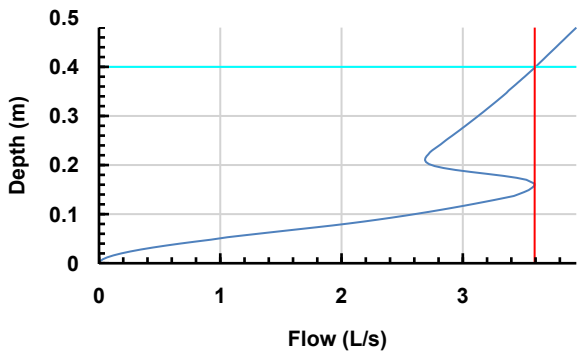
Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	2B (LOCAL CENTRE)
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet (1)

Outgoing Connection	No Delay (7)
Outlet Type	Hydro-Brake®
Invert Level (m)	12.000
Design Depth (m)	0.400
Design Flow (L/s)	3.6
Objective	Minimise Upstream Storage Requirements
Application	Surface Water Only
Sump Available	☐
Unit Reference	CHE-0097-3600-0400-3600



Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L. Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Inflow Summary Storm Phase: Surcharge - v2.0	Company Address:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
1A(i)	DB - 1A.1		Time of Concentration	2.057	60	10	66	1.358
1A(ii)	DB- 1A.2		Time of Concentration	0.920	60	10	66	0.607
1A(iii)	DB - 1A.3		Time of Concentration	0.617	60	10	66	0.407
1A(iv)	DB - 1A.4		Time of Concentration	0.417	60	10	66	0.275
1A(v)	DB - 1A.5		Time of Concentration	2.970	60	10	66	1.960
1B(i)	DB - 1B		Time of Concentration	1.383	60	10	66	0.913
1B(ii)	SW - 1B		Time of Concentration	0.722	60	10	66	0.477
2A(i)	DB - 2A.1		Time of Concentration	1.172	60	10	66	0.773
2A(ii)	DB - 2A.1		Time of Concentration	1.690	60	10	66	1.116
2B (LOCAL CENTRE)	GC - 2B		Time of Concentration	1.198	80	0	80	0.958
2C	SW - 2C		Time of Concentration	1.897	60	10	66	1.252
3	DB - 3		Time of Concentration	2.844	60	10	66	1.877
4A	DB - 4A		Time of Concentration	5.930	60	10	66	3.914
4B	DB - 4B/C/D		Time of Concentration	5.136	60	10	66	3.390
4C	DB - 4B/C/D		Time of Concentration	5.834	60	10	66	3.851
4D	DB - 4B/C/D		Time of Concentration	4.924	60	10	66	3.250
5A (SCHOOL)			Time of Concentration	2.342	40	0	40	0.937
5B(i)	DB - 5B		Time of Concentration	2.146	60	10	66	1.416
5B(ii)	DB - 5B		Time of Concentration	1.699	60	10	66	1.121
5C(i)	SW - 5C.1		Time of Concentration	2.081	60	10	66	1.373
5C(ii)	SW - 5C.2		Time of Concentration	1.310	60	10	66	0.865
5C(iii)	SW - 5C.2		Time of Concentration	0.465	60	10	66	0.307
5C(iv)	SW - 5C.3		Time of Concentration	1.074	60	10	66	0.709
5C(v)	SW - 5C.3		Time of Concentration	0.909	60	10	66	0.600
TOTAL		0.0		51.738				33.706

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: Surge - v2.0	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
DB - 2A.2	Free Discharge			
SW - 2C	Fixed Surcharged Level	☒	12.180	
FEH 2022 : 100 years: +45 %: 60 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 60 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 120 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 120 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 180 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 180 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 240 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 240 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 360 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 360 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 480 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 480 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 600 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 600 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 720 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 720 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 960 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 960 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 1440 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 1440 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 2160 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 2160 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 2880 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 2880 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 4320 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 4320 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 5760 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 5760 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 7200 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 7200 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 8640 mins: Summer			12.180	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: Surcharge - v2.0	Company Address:			

FEH 2022 : 100 years: +45 %: 8640 mins: Winter			12.180	
FEH 2022 : 100 years: +45 %: 10080 mins: Summer			12.180	
FEH 2022 : 100 years: +45 %: 10080 mins: Winter			12.180	
DB - 3	Fixed Surcharged Level	☒	10.640	
FEH 2022 : 100 years: +45 %: 60 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 60 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 120 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 120 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 180 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 180 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 240 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 240 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 360 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 360 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 480 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 480 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 600 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 600 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 720 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 720 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 960 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 960 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 1440 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 1440 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 2160 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 2160 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 2880 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 2880 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 4320 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 4320 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 5760 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 5760 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 7200 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 7200 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 8640 mins: Summer			10.640	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: Surcharge - v2.0	Company Address:			

FEH 2022 : 100 years: +45 %: 8640 mins: Winter			10.640	
FEH 2022 : 100 years: +45 %: 10080 mins: Summer			10.640	
FEH 2022 : 100 years: +45 %: 10080 mins: Winter			10.640	
DB - 4A	Fixed Surcharged Level	☒	11.620	
FEH 2022 : 100 years: +45 %: 60 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 60 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 120 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 120 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 180 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 180 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 240 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 240 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 360 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 360 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 480 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 480 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 600 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 600 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 720 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 720 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 960 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 960 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 1440 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 1440 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 2160 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 2160 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 2880 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 2880 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 4320 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 4320 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 5760 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 5760 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 7200 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 7200 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 8640 mins: Summer			11.620	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: Surge - v2.0	Company Address:			

FEH 2022 : 100 years: +45 %: 8640 mins: Winter			11.620	
FEH 2022 : 100 years: +45 %: 10080 mins: Summer			11.620	
FEH 2022 : 100 years: +45 %: 10080 mins: Winter			11.620	
DB - 4B/C/D	Fixed Surcharged Level	☒	11.080	
FEH 2022 : 100 years: +45 %: 60 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 60 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 120 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 120 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 180 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 180 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 240 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 240 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 360 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 360 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 480 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 480 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 600 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 600 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 720 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 720 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 960 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 960 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 1440 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 1440 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 2160 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 2160 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 2880 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 2880 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 4320 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 4320 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 5760 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 5760 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 7200 mins: Summer			11.080	
FEH 2022 : 100 years: +45 %: 7200 mins: Winter			11.080	
FEH 2022 : 100 years: +45 %: 8640 mins: Summer			11.080	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: Surge - v2.0	Company Address:			

FEH 2022 : 100 years: +45 %:			11.080	
8640 mins: Winter				
FEH 2022 : 100 years: +45 %:			11.080	
10080 mins: Summer				
FEH 2022 : 100 years: +45 %:			11.080	
10080 mins: Winter				
DB - 5B	Fixed Surcharged Level	☒	8.340	
FEH 2022 : 100 years: +45 %: 60 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 60 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 120 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 120 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 180 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 180 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 240 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 240 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 360 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 360 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 480 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 480 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 600 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 600 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 720 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 720 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 960 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 960 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 1440 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 1440 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 2160 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 2160 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 2880 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 2880 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 4320 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 4320 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 5760 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 5760 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 7200 mins: Summer			8.340	
FEH 2022 : 100 years: +45 %: 7200 mins: Winter			8.340	
FEH 2022 : 100 years: +45 %: 8640 mins: Summer			8.340	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: Surge - v2.0	Company Address:			

FEH 2022 : 100 years: +45 %:			8.340	
8640 mins: Winter				
FEH 2022 : 100 years: +45 %:			8.340	
10080 mins: Summer				
FEH 2022 : 100 years: +45 %:			8.340	
10080 mins: Winter				
DB - 5C	Fixed Surcharged Level	☒	10.000	
FEH 2022 : 100 years: +45 %: 60 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 60 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 120 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 120 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 180 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 180 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 240 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 240 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 360 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 360 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 480 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 480 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 600 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 600 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 720 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 720 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 960 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 960 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 1440 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 1440 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 2160 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 2160 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 2880 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 2880 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 4320 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 4320 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 5760 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 5760 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 7200 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 7200 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 8640 mins: Summer			10.000	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: Surcharge - v2.0	Company Address:			

FEH 2022 : 100 years: +45 %: 8640 mins: Winter			10.000	
FEH 2022 : 100 years: +45 %: 10080 mins: Summer			10.000	
FEH 2022 : 100 years: +45 %: 10080 mins: Winter			10.000	
SW - 1B	Fixed Surcharged Level	☒	13.000	
FEH 2022 : 100 years: +45 %: 60 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 60 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 120 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 120 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 180 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 180 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 240 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 240 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 360 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 360 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 480 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 480 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 600 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 600 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 720 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 720 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 960 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 960 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 1440 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 1440 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 2160 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 2160 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 2880 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 2880 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 4320 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 4320 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 5760 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 5760 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 7200 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 7200 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 8640 mins: Summer			13.000	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Outfall Details Storm Phase: Surcharge - v2.0	Company Address:			

FEH 2022 : 100 years: +45 %: 8640 mins: Winter			13.000	
FEH 2022 : 100 years: +45 %: 10080 mins: Summer			13.000	
FEH 2022 : 100 years: +45 %: 10080 mins: Winter			13.000	

Project: Southleigh, Havant	Date: 30/10/2025			
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Title: Rainfall Analysis Criteria	Company Address:			

Runoff Type	Dynamic
Output Interval (mins)	5
Time Step	Default
Urban Creep	Use Catchment Values
Junction Flood Risk Margin (mm)	300
Perform No Discharge Analysis	☐

Rainfall

FEH 2022		Type: FEH
Site Location	GB 473750 106350 SU 73750 06350	
Rainfall Version	2022	
Summer	☒	
Winter	☒	

Return Period

Return Period (years)	Increase Rainfall (%)
100.0	45.000

Storm Durations

Duration (mins)	Run Time (mins)
60	120
120	240
180	360
240	480
360	720
480	960
600	1200
720	1440
960	1920
1440	2880
2160	4320
2880	5760
4320	8640
5760	11520
7200	14400
8640	17280
10080	20160

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Inflows Summary Storm Phase: No Surcharge - v2.0	Company Address:		



FEH 2022: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
4B	FEH 2022: 100 years: +45 %: 60 mins: Summer	5.14	1659.9	2072.165
4A	FEH 2022: 100 years: +45 %: 60 mins: Summer	5.93	1916.6	2392.515
5B(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.15	693.5	865.727
2A(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.69	546.3	681.919
1A(v)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.97	959.9	1198.295
1B(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.38	447.1	558.107
2C	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.90	613.0	765.249
3	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.84	919.0	1147.154
2B (LOCAL CENTRE)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.20	469.3	585.780
5A (SCHOOL)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.34	458.6	572.528
1B(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.72	233.4	291.419
4C	FEH 2022: 100 years: +45 %: 60 mins: Summer	5.83	1885.5	2353.724
1A(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.06	664.8	829.921
1A(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.92	297.4	371.230
1A(iii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.62	199.3	248.780

Project: Southleigh, Havant		Date: 30/10/2025			
		Designed by: L Derrick	Checked by: A Harman		Approved By: R Fisher
Report Details: Type: Inflows Summary Storm Phase: No Surcharge - v2.0		Company Address:			

1A(iv)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.42	134.6	168.048
5C(v)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.91	293.8	366.807
5C(iv)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.07	347.1	433.334
2A(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.17	378.6	472.620
5B(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.70	549.1	685.449
4D	FEH 2022: 100 years: +45 %: 60 mins: Summer	4.92	1591.4	1986.608
5C(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.08	672.5	839.517
5C(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.31	423.3	528.448
5C(iii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.47	150.4	187.776

Project: Southleigh, Havant		Date: 30/10/2025			
		Designed by: L Derrick	Checked by: A Harman		Approved By: R Fisher
Report Details: Type: Stormwater Controls Summary Storm Phase: No Surcharge - v2.0		Company Address:			



FEH 2022: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank
By: Max. US Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
DB - 2A.2	FEH 2022: 100 years: +45 %: 2880 mins: Summer	15.200	15.200	0.750	0.750	77.8	3856.265	0.000	0.000	29.3	7496.774	-0.068	Flood Risk
DB - 2A.1	FEH 2022: 100 years: +45 %: 1440 mins: Winter	15.948	15.948	0.998	0.998	68.5	1823.796	0.000	0.000	8.6	1143.179	0.200	OK
DB - 1A.1	FEH 2022: 100 years: +45 %: 60 mins: Summer	24.690	24.693	1.190	1.193	664.8	606.295	0.000	0.000	93.5	514.131	1.038	OK
DB - 1A.2	FEH 2022: 100 years: +45 %: 480 mins: Winter	22.179	22.179	1.179	1.179	141.5	495.614	0.000	0.000	89.0	1875.288	2.397	OK
DB - 1A.3	FEH 2022: 100 years: +45 %: 360 mins: Winter	20.697	20.697	1.197	1.197	128.8	395.653	0.000	0.000	87.3	2111.505	0.490	OK
DB - 1A.4	FEH 2022: 100 years: +45 %: 480 mins: Winter	18.050	18.049	1.150	1.149	108.3	373.587	0.000	0.000	84.9	2517.078	5.910	OK
DB - 1A.5	FEH 2022: 100 years: +45 %: 960 mins: Winter	15.969	15.969	0.969	0.969	181.7	2681.298	0.000	0.000	70.0	4702.265	3.387	OK
GC - 2B	FEH 2022: 100 years: +45 %: 2160 mins: Winter	12.379	12.379	0.379	0.379	25.5	1026.301	0.000	0.000	3.4	671.340	5.318	OK
SW - 2C	FEH 2022: 100 years: +45 %: 60 mins: Summer	12.010	11.821	0.310	0.821	616.0	753.921	0.000	0.000	8.7	42.193	62.010	OK
DB - 3	FEH 2022: 100 years: +45 %: 1440 mins: Winter	11.096	11.096	0.996	0.996	68.1	1813.711	0.000	0.000	8.5	1189.920	0.461	OK
DB - 4A	FEH 2022: 100 years: +45 %: 1440 mins: Winter	11.596	11.596	0.846	0.846	142.0	3847.357	0.000	0.000	17.7	2410.576	0.553	OK
DB - 4B/C/D	FEH 2022: 100 years: +45 %: 2160 mins: Summer	11.284	11.284	0.784	0.784	431.7	10570.794	0.000	0.000	47.3	9411.992	2.057	OK
DB - 5B	FEH 2022: 100 years: +45 %: 1440 mins: Winter	9.697	9.697	0.997	0.997	92.1	2463.012	0.000	0.000	11.5	1598.104	0.355	OK

Project: Southleigh, Havant		Date: 30/10/2025			
		Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Summary Storm Phase: No Surcharge - v2.0		Company Address:			

DB - 5C	FEH 2022: 100 years: +45 %: 2160 mins: Winter	10.347	10.346	1.047	1.046	27.9	781.31 9	0.000	0.000	17.3	3709.83 3	5.882	OK
SW - 1B	FEH 2022: 100 years: +45 %: 600 mins: Winter	13.063	13.063	0.313	0.613	35.2	361.94 9	0.000	0.000	6.3	365.184	41.075	OK
SW - 5C.3	FEH 2022: 100 years: +45 %: 120 mins: Winter	10.553	10.554	0.876	0.954	317.0	727.66 4	0.000	0.000	41.0	466.703	10.708	OK
SW - 5C.2	FEH 2022: 100 years: +45 %: 2160 mins: Winter	10.690	10.689	0.814	0.939	40.2	1305.8 15	0.000	0.000	13.3	2825.56 9	9.313	OK
SW - 5C.1	FEH 2022: 100 years: +45 %: 600 mins: Winter	11.396	11.396	0.721	0.896	97.4	1080.0 13	0.000	0.000	11.2	674.827	13.050	OK
DB - 1B	FEH 2022: 100 years: +45 %: 2880 mins: Winter	13.651	13.651	0.901	0.901	19.4	1065.2 35	0.000	0.000	2.3	637.676	11.256	OK

Project: Southleigh, Havant	Date: 30/10/2025		
	Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher
Report Details: Type: Inflows Summary Storm Phase: Surge - v2.0	Company Address:		



FEH 2022: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
4B	FEH 2022: 100 years: +45 %: 60 mins: Summer	5.14	1659.9	2072.164
4A	FEH 2022: 100 years: +45 %: 60 mins: Summer	5.93	1916.6	2392.514
5B(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.15	693.5	865.727
2A(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.69	546.3	681.919
1A(v)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.97	959.9	1198.295
1B(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.38	447.1	558.107
2C	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.90	613.0	765.249
3	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.84	919.0	1147.154
2B (LOCAL CENTRE)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.20	469.3	585.780
5A (SCHOOL)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.34	458.6	572.528
1B(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.72	233.4	291.419
4C	FEH 2022: 100 years: +45 %: 60 mins: Summer	5.83	1885.5	2353.723
1A(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.06	664.8	829.921
1A(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.92	297.4	371.230
1A(iii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.62	199.3	248.780

Project: Southleigh, Havant		Date: 30/10/2025			
		Designed by: L Derrick	Checked by: A Harman		Approved By: R Fisher
Report Details: Type: Inflows Summary Storm Phase: Surge - v2.0		Company Address:			

1A(iv)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.42	134.6	168.048
5C(v)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.91	293.8	366.807
5C(iv)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.07	347.1	433.334
2A(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.17	378.6	472.619
5B(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.70	549.1	685.449
4D	FEH 2022: 100 years: +45 %: 60 mins: Summer	4.92	1591.4	1986.607
5C(i)	FEH 2022: 100 years: +45 %: 60 mins: Summer	2.08	672.5	839.516
5C(ii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	1.31	423.3	528.448
5C(iii)	FEH 2022: 100 years: +45 %: 60 mins: Summer	0.47	150.4	187.776

Project: Southleigh, Havant		Date: 30/10/2025			
		Designed by: L Derrick	Checked by: A Harman		Approved By: R Fisher
Report Details: Type: Stormwater Controls Summary Storm Phase: Surchage - v2.0		Company Address:			



FEH 2022: 100 years: Increase Rainfall (%): +45: Critical Storm Per Item: Rank
By: Max. US Depth

Stormwater Control	Storm Event	Max. US Level (m)	Max. DS Level (m)	Max. US Depth (m)	Max. DS Depth (m)	Max. Inflow (L/s)	Max. Residual Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
DB - 2A.2	FEH 2022: 100 years: +45 %: 2880 mins: Summer	15.200	15.200	0.750	0.750	77.8	3856.178	0.000	0.000	29.3	7496.726	-0.066	Flood Risk
DB - 2A.1	FEH 2022: 100 years: +45 %: 1440 mins: Winter	15.948	15.948	0.998	0.998	68.5	1823.796	0.000	0.000	8.6	1143.180	0.200	OK
DB - 1A.1	FEH 2022: 100 years: +45 %: 60 mins: Summer	24.690	24.693	1.190	1.193	664.8	606.295	0.000	0.000	93.5	514.130	1.038	OK
DB - 1A.2	FEH 2022: 100 years: +45 %: 480 mins: Winter	22.179	22.179	1.179	1.179	141.5	495.614	0.000	0.000	89.0	1875.288	2.397	OK
DB - 1A.3	FEH 2022: 100 years: +45 %: 360 mins: Winter	20.697	20.697	1.197	1.197	128.8	395.653	0.000	0.000	87.3	2111.488	0.490	OK
DB - 1A.4	FEH 2022: 100 years: +45 %: 480 mins: Winter	18.050	18.049	1.150	1.149	108.3	373.587	0.000	0.000	84.9	2517.078	5.910	OK
DB - 1A.5	FEH 2022: 100 years: +45 %: 960 mins: Winter	15.969	15.969	0.969	0.969	181.7	2681.298	0.000	0.000	70.0	4702.263	3.387	OK
GC - 2B	FEH 2022: 100 years: +45 %: 10080 mins: Summer	13.372	13.372	1.372	1.372	13.1	1142.107	57.286	0.000	3.7	1422.358	-5.365	Flood
SW - 2C	FEH 2022: 100 years: +45 %: 10080 mins: Summer	12.392	12.392	0.692	1.392	17.9	2166.736	0.000	0.000	7.9	2429.880	-9.183	Flood Risk
DB - 3	FEH 2022: 100 years: +45 %: 10080 mins: Summer	11.359	11.359	1.259	1.259	25.6	2371.115	0.000	0.000	8.5	3009.722	-30.129	Flood Risk
DB - 4A	FEH 2022: 100 years: +45 %: 10080 mins: Summer	11.936	11.936	1.186	1.186	53.4	5543.252	0.000	0.000	17.7	4210.102	-43.283	Flood Risk
DB - 4B/C/D	FEH 2022: 100 years: +45 %: 10080 mins: Summer	11.541	11.541	1.041	1.041	143.0	14207.210	0.000	0.000	47.3	13978.458	-31.636	Flood Risk
DB - 5B	FEH 2022: 100 years: +45 %: 1440 mins: Winter	9.697	9.697	0.997	0.997	92.1	2463.012	0.000	0.000	11.5	1598.104	0.355	OK

Project: Southleigh, Havant		Date: 30/10/2025			
		Designed by: L Derrick	Checked by: A Harman	Approved By: R Fisher	
Report Details: Type: Stormwater Controls Summary Storm Phase: Surge - v2.0		Company Address:			

DB - 5C	FEH 2022: 100 years: +45 %: 10080 mins: Summer	10.697	10.697	1.397	1.397	22.8	1117.9 58	0.000	0.000	17.3	7050.73 8	-34.670	Flood Risk
SW - 1B	FEH 2022: 100 years: +45 %: 4320 mins: Summer	13.231	13.231	0.481	0.781	13.8	539.02 4	0.000	0.000	6.3	1180.95 0	12.247	Flood Risk
SW - 5C.3	FEH 2022: 100 years: +45 %: 10080 mins: Summer	10.848	10.848	1.170	1.248	29.6	1045.1 75	0.000	0.000	22.8	7552.33 5	-28.253	Flood Risk
SW - 5C.2	FEH 2022: 100 years: +45 %: 10080 mins: Summer	10.988	10.987	1.112	1.237	25.0	1881.0 13	0.000	0.000	11.8	5063.29 6	-30.634	Flood Risk
SW - 5C.1	FEH 2022: 100 years: +45 %: 720 mins: Winter	11.397	11.397	0.722	0.897	84.7	1080.6 86	0.000	0.000	11.1	786.993	12.996	OK
DB - 1B	FEH 2022: 100 years: +45 %: 10080 mins: Summer	13.795	13.795	1.045	1.045	12.4	1262.7 53	0.000	0.000	2.2	1598.40 2	-5.199	Flood Risk

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type Pollution Hazard Level Pollution Hazard Indices TSS Metals Hydrocarbons	Low traffic roads (e.g. residential roads and general access roads, < 300 traffic movements/day) Low 0.5 0.4 0.4				
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Detention basin				
Component 2	Swale				
Component 3	None				
SuDS Pollution Mitigation Indices					
TSS	0.75				
Metals	0.8				
Hydrocarbons	0.9				
Groundwater protection type	None				
Groundwater protection Pollution Mitigation Indices					
TSS	0				
Metals	0				
Hydrocarbons	0				
Combined Pollution Mitigation Indices		Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			
TSS	0.75				
Metals	0.8				
Hydrocarbons	0.9				
Acceptability of Pollution Mitigation					
TSS	Sufficient				
Metals	Sufficient				
Hydrocarbons	Sufficient				

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type Pollution Hazard Level Pollution Hazard Indices TSS Metals Hydrocarbons	Low traffic roads (e.g. residential roads and general access roads, < 300 traffic movements/day) Low 0.5 0.4 0.4				
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Detention basin				
Component 2	None				
Component 3	None				
SuDS Pollution Mitigation Indices TSS Metals Hydrocarbons	 	 			
Groundwater protection type Groundwater protection Pollution Mitigation Indices TSS Metals Hydrocarbons	 None 0 0 0				
Combined Pollution Mitigation Indices TSS Metals Hydrocarbons Acceptability of Pollution Mitigation TSS Metals Hydrocarbons	 Sufficient Sufficient Sufficient	0.5 0.5 0.5 0.6 Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type Pollution Hazard Level Pollution Hazard Indices TSS Metals Hydrocarbons	Low traffic roads (e.g. residential roads and general access roads, < 300 traffic movements/day) Low 0.5 0.4 0.4				
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Swale				
Component 2	Detention basin				
Component 3	None				
SuDS Pollution Mitigation Indices TSS Metals Hydrocarbons	0.75 0.85 0.9				
Groundwater protection type Groundwater protection Pollution Mitigation Indices TSS Metals Hydrocarbons	None 0 0 0				
Combined Pollution Mitigation Indices TSS Metals Hydrocarbons Acceptability of Pollution Mitigation TSS Metals Hydrocarbons	0.75 0.85 0.9 Sufficient Sufficient Sufficient	Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type Pollution Hazard Level Pollution Hazard Indices TSS Metals Hydrocarbons	Low traffic roads (e.g. residential roads and general access roads, < 300 traffic movements/day) Low 0.5 0.4 0.4				
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Swale				
Component 2	None				
Component 3	None				
SuDS Pollution Mitigation Indices TSS Metals Hydrocarbons	 	0.5 0.6 0.6			
Groundwater protection type Groundwater protection Pollution Mitigation Indices TSS Metals Hydrocarbons	None 0 0 0				
Combined Pollution Mitigation Indices TSS Metals Hydrocarbons Acceptability of Pollution Mitigation TSS Metals Hydrocarbons	 Sufficient Sufficient Sufficient	0.5 0.6 0.6 Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type	Roads (excluding low traffic roads, highly frequented lorry approaches to industrial estates, trunk roads/motorways)				
Pollution Hazard Level	Medium				
Pollution Hazard Indices					
TSS	0.7				
Metals	0.6				
Hydrocarbons	0.7				
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Swale				
Component 2	None				
Component 3	None				
SuDS Pollution Mitigation Indices					
TSS	0.5				
Metals	0.6				
Hydrocarbons	0.6				
Groundwater protection type	None				
Groundwater protection					
Pollution Mitigation					
Indices					
TSS	0				
Metals	0				
Hydrocarbons	0				
Combined Pollution Mitigation		Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			
Indices					
TSS	0.5				
Metals	0.6				
Hydrocarbons	0.6				
Acceptability of Pollution Mitigation					
TSS	Additional TSS Mitigation Required				
Metals	Sufficient				
Hydrocarbons	Additional Hydrocarbon Mitigation Required				

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type Pollution Hazard Level Pollution Hazard Indices TSS Metals Hydrocarbons	Commercial/Industrial roofing: Low potential for metal leaching Low 0.3 0.4 0.05	This classification should be informed by an assessment of the leachability of metals from the adopted roofing materials. Particular risks are likely to be posed by materials that include copper and galvanised steel			
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Detention basin				
Component 2	None				
Component 3	None				
SuDS Pollution Mitigation Indices TSS Metals Hydrocarbons	 0.5 0.5 0.6				
Groundwater protection type Groundwater protection Pollution Mitigation Indices TSS Metals Hydrocarbons	None 0 0 0				
Combined Pollution Mitigation Indices TSS Metals Hydrocarbons Acceptability of Pollution Mitigation TSS Metals Hydrocarbons	 Sufficient Sufficient Sufficient	0.5 0.5 0.6 Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type Pollution Hazard Level Pollution Hazard Indices TSS Metals Hydrocarbons	Commercial/Industrial roofing: Low potential for metal leaching Low 0.3 0.4 0.05	This classification should be informed by an assessment of the leachability of metals from the adopted roofing materials. Particular risks are likely to be posed by materials that include copper and galvanised steel			
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Swale				
Component 2	None				
Component 3	None				
SuDS Pollution Mitigation Indices TSS Metals Hydrocarbons	 				
Groundwater protection type Groundwater protection Pollution Mitigation Indices TSS Metals Hydrocarbons	None 0 0 0				
Combined Pollution Mitigation Indices TSS Metals Hydrocarbons Acceptability of Pollution Mitigation TSS Metals Hydrocarbons	 Sufficient Sufficient Sufficient	0.5 0.6 0.6 0.6 Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type Pollution Hazard Level Pollution Hazard Indices TSS Metals Hydrocarbons	Residential roofing Very low 0.2 0.2 0.05				
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Detention basin				
Component 2	Swale				
Component 3	None				
SuDS Pollution Mitigation Indices TSS Metals Hydrocarbons	 0.75 0.8 0.9				
Groundwater protection type Groundwater protection Pollution Mitigation Indices TSS Metals Hydrocarbons	None 0 0 0				
Combined Pollution Mitigation Indices TSS Metals Hydrocarbons Acceptability of Pollution Mitigation TSS Metals Hydrocarbons	 0.75 0.8 0.9 Sufficient Sufficient Sufficient	Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			

SIMPLE INDEX APPROACH: SUMMARY TABLE



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SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type	Residential roofing				
Pollution Hazard Level	Very low				
Pollution Hazard Indices					
TSS	0.2				
Metals	0.2				
Hydrocarbons	0.05				
SuDS components proposed		SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 1	Detention basin				
Component 2	None				
Component 3	None				
SuDS Pollution Mitigation Indices					
TSS	0.5				
Metals	0.5				
Hydrocarbons	0.6				
Groundwater protection type	None				
Groundwater protection					
Pollution Mitigation					
Indices					
TSS	0				
Metals	0				
Hydrocarbons	0				
Combined Pollution Mitigation		Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			
Indices					
TSS	0.5				
Metals	0.5				
Hydrocarbons	0.6				
Acceptability of Pollution Mitigation					
TSS	Sufficient				
Metals	Sufficient				
Hydrocarbons	Sufficient				

SIMPLE INDEX APPROACH: SUMMARY TABLE



HRW shall not be liable for any direct or indirect damage claim, loss, cost, expense or liability howsoever arising out of the use or impossibility to use the tools, even when HRW has been informed of the possibility of the same. The user hereby indemnifies HRW from and against any damage claim, loss, expense or liability resulting from any action taken against HRW that is related in any way to the use of the tool or any reliance made in respect of the output of such use by any person whatsoever. HRW does not guarantee that the tool's functions meet the requirements of any person, nor that the tool is free from errors.

SUMMARY TABLE		DESIGN CONDITIONS			
		1	2	3	4
Land Use Type	Residential roofing				
Pollution Hazard Level	Very low				
Pollution Hazard Indices					
TSS	0.2				
Metals	0.2				
Hydrocarbons	0.05				
SuDS components proposed					
Component 1	Swale	SuDS components can only be assumed to deliver these indices if they follow design guidance with respect to hydraulics and treatment set out in the relevant technical component chapters of the SuDS Manual. See also checklists in Appendix B			
Component 2	Detention basin				
Component 3	None				
SuDS Pollution Mitigation Indices					
TSS	0.75				
Metals	0.85				
Hydrocarbons	0.9				
Groundwater protection type	None				
Groundwater protection					
Pollution Mitigation					
Indices					
TSS	0				
Metals	0				
Hydrocarbons	0				
Combined Pollution Mitigation		Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			
Indices					
TSS	0.75				
Metals	0.85				
Hydrocarbons	0.9				
Acceptability of Pollution Mitigation					
TSS	Sufficient				
Metals	Sufficient				
Hydrocarbons	Sufficient				

SIMPLE INDEX APPROACH: SUMMARY TABLE



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Component 1	Swale				
Component 2	None				
Component 3	None				
SuDS Pollution Mitigation Indices					
TSS	0.5				
Metals	0.6				
Hydrocarbons	0.6				
Groundwater protection type	None				
Groundwater protection					
Pollution Mitigation					
Indices					
TSS	0				
Metals	0				
Hydrocarbons	0				
Combined Pollution Mitigation		Reference to local planning documents should also be made to identify any additional protection required for sites due to habitat conservation (see Chapter 7 The SuDS design process). The implications of developments on or within close proximity to an area with an environmental designation, such as a Site of Special Scientific Interest (SSSI), should be considered via consultation with relevant conservation bodies such as Natural England			
Indices					
TSS	0.5				
Metals	0.6				
Hydrocarbons	0.6				
Acceptability of Pollution Mitigation					
TSS	Sufficient				
Metals	Sufficient				
Hydrocarbons	Sufficient				