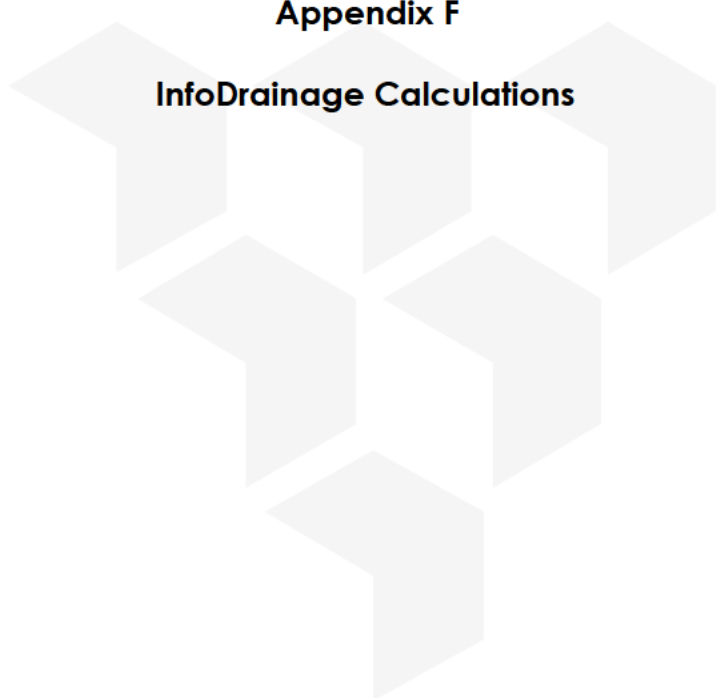




Appendix F

InfoDrainage Calculations

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S913	Manhole	520232.298	133812.090	62.650	1.645	61.005	Circular	1.200
S912	Manhole	520235.951	133796.296	62.900	2.078	60.822	Circular	1.200
S910	Manhole	520239.786	133752.470	63.150	2.583	60.567	Circular	1.200
S909	Manhole	520239.004	133734.235	63.000	2.490	60.510	Circular	1.200
S908	Manhole	520236.648	133709.524	62.650	2.367	60.283	Circular	1.200
S907	Manhole	520224.880	133677.519	62.050	1.836	60.214	Circular	1.200
S906	Manhole	520210.029	133649.951	61.520	2.075	59.445	Circular	1.200
S905	Manhole	520199.017	133629.005	61.140	2.060	59.080	Circular	1.200
S904	Manhole	520181.977	133596.580	60.600	2.010	58.590	Circular	1.200
S903	Manhole	520158.235	133552.519	60.950	2.670	58.280	Circular	1.200
S901	Manhole	520009.477	133611.872	59.500	2.092	57.408	Circular	1.200
S914	Manhole	520070.789	133630.872	60.000	2.100	57.900	Circular	1.200
S902	Manhole	520123.323	133558.006	59.900	1.706	58.194	Circular	1.200
Outfall	Manhole	519995.350	133605.051	59.000	1.690	57.310	Circular	1.200
S905-A	Manhole	520215.066	133620.996	61.400	1.963	59.437	Circular	1.200
S908-A	Manhole	520254.006	133706.694	63.000	2.500	60.500	Circular	1.200
S912-A	Manhole	520260.595	133801.739	63.400	2.400	61.000	Circular	1.200
S910-A	Manhole	520217.430	133753.179	62.500	1.700	60.800	Circular	1.200
S906-A	Manhole	520195.296	133658.852	61.500	1.810	59.690	Circular	1.200
S904-A	Manhole	520164.443	133606.280	60.600	1.400	59.200	Circular	1.200

Name	Lock
S913	None
S912	None
S910	None
S909	None
S908	None
S907	None
S906	None
S905	None
S904	None
S903	None
S901	None
S914	None
S902	None
Outfall	None
S905-A	None
S908-A	None
S912-A	None
S910-A	None
S906-A	None
S904-A	None

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		



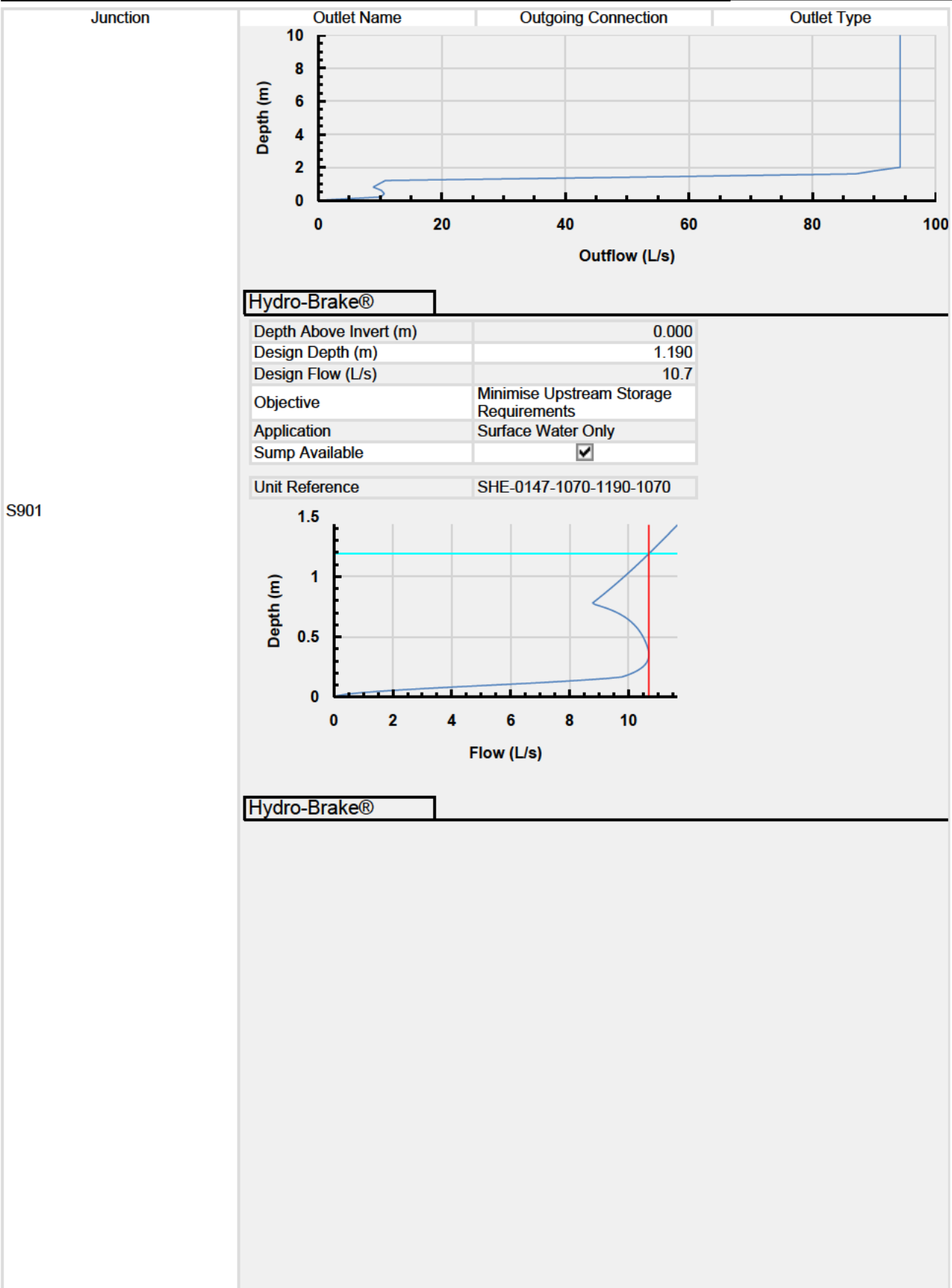
Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S913	Inlet	Catchment Area 1	(None)	No Restriction
S912	Inlet	1 Catchment Area 2	(None)	No Restriction
S910	Inlet	Catchment Area 3	(None)	No Restriction
	Inlet (1)	18	(None)	No Restriction
	Inlet (2)	Catchment Area 4	(None)	No Restriction
	Inlet (3)	2	(None)	No Restriction
S909	Inlet	3 Catchment Area 5	(None)	No Restriction
S908	Inlet	4 Catchment Area 6	(None)	No Restriction
	Inlet (1)	16	(None)	No Restriction
S907	Inlet	5 Catchment Area 7	(None)	No Restriction
S906	Inlet	6 Catchment Area 8	(None)	No Restriction
S905	Inlet	7 15	(None)	No Restriction
	Inlet (1)	Catchment Area 9	(None)	No Restriction
S904	Inlet	8 Catchment Area 10	(None)	No Restriction
	Inlet (1)	20	(None)	No Restriction
S903	Inlet	9	(None)	No Restriction
	Inlet (1)	Catchment Area 11	(None)	No Restriction
S901	Inlet	12	(None)	No Restriction
S914	Inlet	Spur S914	(None)	No Restriction
S902	Inlet	10	(None)	No Restriction
Outfall	Inlet	13	(None)	No Restriction
S905-A	Inlet	Spur S905-A	(None)	No Restriction
S908-A	Inlet	Spur S908-A	(None)	No Restriction
S912-A	Inlet	Spur S912-A	(None)	No Restriction
S910-A	Inlet	Spur S910-A	(None)	No Restriction
S906-A	Inlet	Spur S906-A	(None)	No Restriction
S904-A	Inlet	Spur S904-A	(None)	No Restriction

Outlets

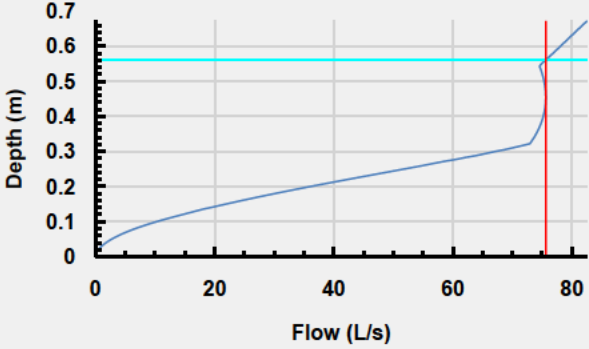
Junction	Outlet Name	Outgoing Connection	Outlet Type
S913	Outlet	1	Free Discharge
S912	Outlet	2	Free Discharge
S910	Outlet	3	Free Discharge
S909	Outlet	4	Free Discharge
S908	Outlet	5	Free Discharge
S907	Outlet	6	Free Discharge
S906	Outlet	7	Free Discharge
S905	Outlet	8	Free Discharge
S904	Outlet	9	Free Discharge
S903	Outlet	10	Free Discharge
	Outlet	13	Multiple
	Invert Level (m)	57.408	
Combined Outflow			

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Junctions Storm Phase: Phase	Company Address:			



Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		



Junction	Outlet Name	Outgoing Connection	Outlet Type
Depth Above Invert (m) 1.190 Design Depth (m) 0.560 Design Flow (L/s) 75.6 Objective Minimise Upstream Storage Requirements Application Surface Water Only Sump Available ☒ Unit Reference SHE-0359-7560-0560-7560 			
S914	Outlet	14	Free Discharge
S902	Outlet	11	Free Discharge
S905-A	Outlet	15	Free Discharge
S908-A	Outlet	16	Free Discharge
S912-A	Outlet	17	Free Discharge
S910-A	Outlet	18	Free Discharge
S906-A	Outlet	19	Free Discharge
S904-A	Outlet	20	Free Discharge

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





Pond

Type : Pond

Dimensions

Exceedance Level (m)	59.520
Depth (m)	2.020
Base Level (m)	57.500
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	16.745
Total Volume (m³)	3813.818

Depth (m)	Area (m²)	Volume (m³)
0.000	23.00	0.000
0.100	23.00	2.300
0.200	89.00	7.541
0.300	368.00	28.807
0.400	895.00	90.037
0.500	1549.00	210.752
0.600	2238.00	399.048
0.700	2510.00	636.318
0.800	2624.00	892.997
0.900	2740.00	1161.176
1.000	2857.00	1441.006
1.100	2976.00	1732.636
1.200	3096.00	2036.216
1.300	3218.00	2351.896
1.400	3342.00	2679.877
1.500	3467.00	3020.308
1.600	3594.00	3373.339
1.700	3722.00	3739.120
1.800	3852.00	4117.801
1.900	3983.00	4509.533
2.000	4116.00	4914.465

Inlets

Inlet

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

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	14
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	12
Outlet Type	Free Discharge

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			

Advanced

Perimeter	Circular
Length (m)	114.373
Friction Scheme	Manning's n
n	0.03

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Connections Storm Phase: Phase	Company Address:		



Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
1	16.211	Pipe	88.584		0.6	300	62.650	61.005
2	43.994	Pipe	172.526		0.6	300	62.900	60.822
3	18.251	Pipe	320.200		0.6	375	63.150	60.567
4	24.823	Pipe	109.352		0.6	375	63.000	60.510
5	34.100	Pipe	494.207		0.6	600	62.650	60.283
6	31.313	Pipe	40.719		0.6	600	62.050	60.214
7	23.665	Pipe	64.834		0.6	600	61.520	59.445
8	36.630	Pipe	74.755		0.6	750	61.140	59.080
9	50.050	Pipe	161.452		0.6	750	60.600	58.590
10	35.340	Pipe	410.933		0.6	750	60.950	58.280
11	9.715	Pipe	13.999		0.6	750	59.900	58.194
12	24.216	Pipe	263.214		0.6	600	59.500	57.500
13	15.688	Pipe	160.078		0.6	375	59.500	57.408
14	11.900	Pipe	29.749		0.6	450	60.000	57.900
15	17.937	Pipe	50.242		0.6	600	61.400	59.437
16	17.587	Pipe	81.045		0.6	525	63.000	60.500
17	25.239	Pipe	141.790		0.6	300	63.400	61.000
18	22.368	Pipe	95.998		0.6	450	62.500	60.800
19	17.213	Pipe	70.256		0.6	375	61.500	59.690
20	20.038	Pipe	32.849		0.6	450	60.600	59.200

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
1	62.900	60.822		None		(None)	(None)
2	63.150	60.567		None		(None)	(None)
3	63.000	60.510		None		(None)	(None)
4	62.650	60.283		None		(None)	(None)
5	62.050	60.214		None		(None)	(None)
6	61.520	59.445		None		(None)	(None)
7	61.140	59.080		None		(None)	(None)
8	60.600	58.590		None		(None)	(None)
9	60.950	58.280		None		(None)	(None)
10	59.900	58.194		None		(None)	(None)
11	59.520	57.500		None		(None)	(None)
12	59.500	57.408		None		(None)	(None)
13	59.000	57.310		None	94.2	(None)	(None)
14	59.520	57.500		None		(None)	(None)
15	61.140	59.080		None		(None)	(None)
16	62.650	60.283		None		(None)	(None)
17	62.900	60.822		None		(None)	(None)
18	63.150	60.567		None		(None)	(None)
19	61.520	59.445		None		(None)	(None)
20	60.600	58.590		None		(None)	(None)

Project: Catchment 9		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase		Company Address:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area 1	S913		Time of Concentration	0.014	100.0	0	100.0	0.014
Catchment Area 2	S912		Time of Concentration	0.020	100.0	0	100.0	0.020
Catchment Area 3	S910		Time of Concentration	0.023	100.0	0	100.0	0.023
Catchment Area 4	S910		Time of Concentration	0.030	100.0	0	100.0	0.030
Catchment Area 5	S909		Time of Concentration	0.026	100.0	0	100.0	0.026
Catchment Area 6	S908		Time of Concentration	0.036	100.0	0	100.0	0.036
Catchment Area 7	S907		Time of Concentration	0.047	100.0	0	100.0	0.047
Catchment Area 8	S906		Time of Concentration	0.043	100.0	0	100.0	0.043
Catchment Area 9	S905		Time of Concentration	0.031	100.0	0	100.0	0.031
Catchment Area 10	S904		Time of Concentration	0.054	100.0	0	100.0	0.054
Catchment Area 11	S903		Time of Concentration	0.090	100.0	0	100.0	0.090
Spur S904-A	S904-A		Time of Concentration	0.305	70.5	0	70.5	0.215
Spur S905-A	S905-A		Time of Concentration	2.013	70.5	0	70.5	1.419
Spur S906-A	S906-A		Time of Concentration	0.372	70.5	0	70.5	0.262
Spur S908-A	S908-A		Time of Concentration	2.076	70.5	0	70.5	1.464
Spur S910-A	S910-A		Time of Concentration	0.504	70.5	0	70.5	0.355
Spur S912-A	S912-A		Time of Concentration	0.215	70.5	0	70.5	0.151
Spur S914	S914		Time of Concentration	2.149	70.5	0	70.5	1.515
TOTAL		0.0		8.048				5.796

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:			

Flow Options

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

Pipe Options

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

Pipe Size Library

Default

Add. Increment (mm)	75
Max. Diameter (mm)	0

Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:			

Manhole Options

Apply Offset	☐
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Manhole Size Library

Default

Diameter / Width

Connection (mm)	Diameter / Length (m)	Width (m)
0	1.200	0.000
375	1.350	0.000
500	1.500	0.000
750	1.800	0.000

Additional Sizing

Connection (mm)	900
Diameter / Length (m)	0.900
Width (m)	0.000

Depth

Depth (m)	Diameter / Length (m)	Width (m)
0.000	1.050	0.000
1.500	1.200	0.000

Access

Depth (m)	Ladder Protrusion (mm)
0.000	130
3.000	230

Benching Requirements

Landing Width (mm)	500
Benching Width (mm)	225

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Outfall	Free Discharge			

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Company Address:			

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

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		



FEH 100 year + 20%: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Spur S910-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.50	33.5	70.605
Spur S904-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.30	20.3	42.751
Spur S914	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	2.15	128.1	301.416
Spur S906-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.37	24.8	52.150
Spur S912-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.21	14.3	30.132
Spur S908-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	2.08	123.8	291.170
Spur S905-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	2.01	120.0	282.340
Catchment Area 1	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.01	1.4	2.885
Catchment Area 2	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.02	1.8	3.881
Catchment Area 3	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.02	2.1	4.486
Catchment Area 4	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.03	2.9	6.046
Catchment Area 5	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.03	2.5	5.200

Project: Catchment 9		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			

Catchment Area 6	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.04	3.4	7.227
Catchment Area 7	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.05	4.5	9.398
Catchment Area 8	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.04	4.0	8.505
Catchment Area 9	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.03	3.0	6.214
Catchment Area 10	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.05	5.1	10.784
Catchment Area 11	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	0.09	8.5	17.945

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		



FEH 100 year + 20%: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Spur S910-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.50	67.8	142.782
Spur S904-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.30	41.0	86.441
Spur S914	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	2.15	259.0	609.577
Spur S906-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.37	50.1	105.459
Spur S912-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.21	28.9	60.925
Spur S908-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	2.08	250.2	588.884
Spur S905-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	2.01	242.6	571.006
Catchment Area 1	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.01	2.8	5.820
Catchment Area 2	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.02	3.7	7.847
Catchment Area 3	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.02	4.3	9.059
Catchment Area 4	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.03	5.8	12.233
Catchment Area 5	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.03	5.0	10.499

Project: Catchment 9		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			

Catchment Area 6	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.04	6.9	14.633
Catchment Area 7	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.05	9.0	19.006
Catchment Area 8	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.04	8.2	17.201
Catchment Area 9	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.03	6.0	12.557
Catchment Area 10	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.05	10.3	21.784
Catchment Area 11	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	0.09	17.2	36.297

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		





FEH 100 year + 20%: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Spur S910-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.50	102.1	215.171
Spur S904-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.30	61.8	130.247
Spur S914	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	2.15	390.1	918.449
Spur S906-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.37	75.4	158.909
Spur S912-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.21	43.6	91.802
Spur S908-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	2.08	376.9	887.250
Spur S905-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	2.01	365.4	860.324
Catchment Area 1	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.01	4.2	8.780
Catchment Area 2	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.02	5.6	11.829
Catchment Area 3	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.02	6.5	13.665
Catchment Area 4	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.03	8.8	18.442
Catchment Area 5	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.03	7.5	15.825

Project: Catchment 9		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			

Catchment Area 6	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.04	10.5	22.055
Catchment Area 7	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.05	13.6	28.626
Catchment Area 8	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.04	12.3	25.920
Catchment Area 9	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.03	9.0	18.922
Catchment Area 10	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.05	15.6	32.845
Catchment Area 11	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.09	25.9	54.702

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





FEH 100 year + 20%: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S913	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	62.650	61.005	61.027	0.022	1.4	0.024	0.000	1.4	2.886	OK
S912	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	62.900	60.822	60.913	0.091	17.5	0.103	0.000	17.5	36.896	OK
S910	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	63.150	60.567	60.751	0.184	56.0	0.208	0.000	56.0	118.031	OK
S909	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	63.000	60.510	60.650	0.140	58.5	0.159	0.000	58.5	123.242	OK
S908	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	62.650	60.283	60.577	0.294	185.0	0.333	0.000	183.6	421.618	OK
S907	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	62.050	60.214	60.390	0.176	188.1	0.199	0.000	187.2	431.009	OK
S906	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	61.520	59.445	59.676	0.231	216.0	0.262	0.000	214.8	491.655	OK
S905	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	61.140	59.080	59.354	0.274	337.1	0.310	0.000	334.8	780.217	OK
S904	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	60.600	58.590	58.942	0.352	360.3	0.398	0.000	356.4	833.810	OK
S903	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	60.950	58.280	58.664	0.384	364.9	0.435	0.000	349.0	850.374	OK
S901	FEH 100 year + 20%: 2 years: +0 %: 960 mins: Winter	59.500	57.408	58.565	1.157	11.1	1.309	0.000	10.7	1123.463	Surcharged
S914	FEH 100 year + 20%: 2 years: +0 %: 960 mins: Winter	60.000	57.900	58.566	0.666	25.3	0.753	0.000	25.2	574.577	Surcharged
S902	FEH 100 year + 20%: 2 years: +0 %: 960 mins: Winter	59.900	58.194	58.565	0.371	71.4	0.420	0.000	71.6	1624.841	OK
Outfall	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	59.000	57.310	57.376	0.066	10.7	0.000	0.000	10.7	129.615	OK
S905-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	61.400	59.437	59.597	0.160	120.0	0.181	0.000	120.0	282.361	OK
S908-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	63.000	60.500	60.703	0.203	123.8	0.229	0.000	123.7	291.195	OK
S912-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	63.400	61.000	61.082	0.082	14.3	0.092	0.000	14.3	30.139	OK
S910-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	62.500	60.800	60.895	0.095	33.5	0.108	0.000	33.5	70.625	OK
S906-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	61.500	59.690	59.769	0.079	24.8	0.089	0.000	24.8	52.170	OK
S904-A	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	60.600	59.200	59.254	0.054	20.3	0.061	0.000	20.3	42.776	OK

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





FEH 100 year + 20%: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S913	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	62.650	61.005	61.035	0.030	2.8	0.034	0.000	2.8	5.821	OK
S912	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	62.900	60.822	60.956	0.134	35.4	0.151	0.000	35.4	74.579	OK
S910	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	63.150	60.567	60.905	0.338	113.3	0.383	0.000	111.9	238.642	OK
S909	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	63.000	60.510	60.812	0.302	116.9	0.341	0.000	115.0	249.127	OK
S908	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	62.650	60.283	60.722	0.439	371.0	0.496	0.000	369.4	852.622	OK
S907	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	62.050	60.214	60.485	0.271	378.5	0.307	0.000	376.9	871.582	OK
S906	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	61.520	59.445	59.825	0.380	434.9	0.430	0.000	432.1	994.224	OK
S905	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	61.140	59.080	59.529	0.449	679.6	0.507	0.000	675.1	1577.858	OK
S904	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	60.600	58.590	59.156	0.566	726.5	0.640	0.000	719.8	1684.123	OK
S903	FEH 100 year + 20%: 30 years: +0 %: 720 mins: Winter	60.950	58.280	58.852	0.572	154.6	0.647	0.000	153.5	2636.261	OK
S901	FEH 100 year + 20%: 30 years: +0 %: 720 mins: Winter	59.500	57.408	58.848	1.440	62.7	1.628	0.000	62.7	1936.478	Surcharged
S914	FEH 100 year + 20%: 30 years: +0 %: 720 mins: Winter	60.000	57.900	58.852	0.952	54.6	1.076	0.000	54.5	933.750	Surcharged
S902	FEH 100 year + 20%: 30 years: +0 %: 720 mins: Winter	59.900	58.194	58.852	0.658	153.5	0.744	0.000	152.4	2630.981	OK
Outfall	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	59.000	57.310	57.424	0.114	32.2	0.000	0.000	32.1	280.849	OK
S905-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	61.400	59.437	59.684	0.247	242.6	0.279	0.000	242.4	570.998	OK
S908-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	63.000	60.500	60.831	0.331	250.2	0.374	0.000	250.2	588.892	OK

Project: Catchment 9		Date: 17/02/2026				
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Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:				

S912-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	63.40 0	61.00 0	61.121	0.121	28.9	0.137	0.000	28.9	60.932	OK
S910-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	62.50 0	60.80 0	60.935	0.135	67.8	0.153	0.000	67.8	142.803	OK
S906-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	61.50 0	59.69 0	59.843	0.153	50.1	0.173	0.000	49.9	105.489	OK
S904-A	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	60.60 0	59.20 0	59.277	0.077	41.0	0.087	0.000	41.0	86.471	OK

Project: Catchment 9	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





FEH 100 year + 20%: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S913	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.650	61.005	61.462	0.457	4.5	0.516	0.000	5.2	8.850	Surcharged
S912	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.900	60.822	61.461	0.639	53.7	0.723	0.000	53.9	112.480	Surcharged
S910	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	63.150	60.567	61.347	0.780	170.9	0.882	0.000	170.6	359.640	Surcharged
S909	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	63.000	60.510	61.158	0.648	178.1	0.733	0.000	177.6	375.445	Surcharged
S908	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.650	60.283	60.904	0.621	563.4	0.703	0.000	559.5	1284.800	Surcharged
S907	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.050	60.214	60.540	0.326	573.1	0.369	0.000	559.3	1313.205	OK
S906	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	61.520	59.445	60.352	0.907	646.2	1.026	0.000	648.9	1498.047	Surcharged
S905	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	61.140	59.080	60.067	0.987	1022.0	1.116	0.000	1022.3	2377.385	Surcharged
S904	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	60.600	58.590	59.734	1.144	1099.4	1.294	0.000	1098.8	2531.751	Surcharged
S903	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	60.950	58.280	59.274	0.994	1124.7	1.124	0.000	1130.5	2569.576	Surcharged
S901	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	59.500	57.408	59.180	1.772	88.6	2.004	0.000	88.6	4214.287	Surcharged
S914	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	60.000	57.900	59.188	1.288	103.0	1.457	0.000	102.9	1515.926	Surcharged
S902	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	59.900	58.194	59.188	0.994	284.5	1.124	0.000	283.6	4277.242	Surcharged
Outfall	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	59.000	57.310	57.508	0.198	87.1	0.000	0.000	87.1	866.963	OK
S905-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	61.400	59.437	60.156	0.719	365.4	0.813	0.000	365.7	860.270	Surcharged

Project: Catchment 9		Date: 17/02/2026				
		Designed by: CSalt	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:				

S908-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	63.00 0	60.50 0	61.081	0.581	376.9	0.657	0.000	377.4	887.259	Surcharged
S912-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	63.40 0	61.00 0	61.510	0.510	43.6	0.577	0.000	43.8	91.804	Surcharged
S910-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.50 0	60.80 0	61.378	0.578	102.1	0.654	0.000	101.8	215.200	Surcharged
S906-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	61.50 0	59.69 0	60.379	0.689	75.4	0.779	0.000	74.5	158.937	Surcharged
S904-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	60.60 0	59.20 0	59.739	0.539	61.8	0.609	0.000	61.5	130.277	Surcharged

Project: Catchment 9		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



FEH 100 year + 20%: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item:
Rank By: Max. Resident Volume

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FEH 100 year + 20%: 2 years: +0 %: 960 mins: Winter	58.565	58.565	1.065	1.065	96.7	1630.270	0.000	0.000	11.1	1128.361	57.254	OK

Project: Catchment 9		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



FEH 100 year + 20%: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item:
Rank By: Max. Resident Volume

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FEH 100 year + 20%: 30 years: +0 %: 720 mins: Winter	58.851	58.851	1.351	1.351	206.9	2517.984	0.000	0.000	62.7	1941.707	33.977	OK

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase	Company Address:			



FEH 100 year + 20%: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	59.187	59.187	1.687	1.687	386.5	3689.890	0.000	0.000	88.6	4219.389	3.249	OK

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:			



FEH 100 year + 20%: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S913	S912	62.650	61.027	0.056	2.886	0.2	0.01	1.4	OK
2	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S912	S910	62.900	60.913	0.137	36.896	0.6	0.21	17.5	OK
3	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S910	S909	63.150	60.751	0.162	118.031	1.2	0.5	56.0	OK
4	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S909	S908	63.000	60.650	0.217	123.242	0.9	0.31	58.5	OK
5	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S908	S907	62.650	60.577	0.235	421.618	1.8	0.6	183.6	OK
6	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S907	S906	62.050	60.390	0.204	431.009	2.2	0.17	187.2	OK
7	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S906	S905	61.520	59.676	0.253	491.655	1.9	0.25	214.8	OK
8	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S905	S904	61.140	59.354	0.313	780.217	1.9	0.23	334.8	OK
9	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S904	S903	60.600	58.942	0.368	833.810	1.7	0.37	356.4	OK
10	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S903	S902	60.950	58.664	0.279	850.374	2.4	0.57	349.0	OK
11	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S902	Pond	59.900	58.368	0.520	849.186	1.5	0.11	362.0	OK

Project: Catchment 9				Date: 17/02/2026					
Designed by: CSalt		Checked by:		Approved By:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:					

12	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Winter	Pipe	Pond	S901	59.500	58.368	0.600	133.359	0.3	0.03	14.8	Surcharged
13	FEH 100 year + 20%: 2 years: +0 %: 960 mins: Winter	Pipe	S901	Outfall	59.500	58.565	0.067	1123.353	0.8	0.07	10.7	Surcharged
14	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S914	Pond	60.000	58.367	0.450	300.062	0.8	0.21	127.6	Surcharged
15	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S905-A	S905	61.400	59.597	0.217	282.361	1.3	0.12	120.0	OK
16	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S908-A	S908	63.000	60.703	0.248	291.195	1.3	0.23	123.7	OK
17	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S912-A	S912	63.400	61.082	0.086	30.139	0.9	0.15	14.3	OK
18	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S910-A	S910	62.500	60.895	0.140	70.625	0.8	0.1	33.5	OK
19	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S906-A	S906	61.500	59.769	0.155	52.170	0.6	0.1	24.8	OK
20	FEH 100 year + 20%: 2 years: +0 %: 120 mins: Summer	Pipe	S904-A	S904	60.600	59.254	0.203	42.776	0.4	0.04	20.3	OK

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:			



FEH 100 year + 20%: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S913	S912	62.650	61.035	0.082	5.821	0.2	0.02	2.8	OK
2	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S912	S910	62.900	60.956	0.236	74.579	0.6	0.42	35.4	OK
3	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S910	S909	63.150	60.905	0.320	238.642	1.3	1.01	111.9	OK
4	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S909	S908	63.000	60.812	0.370	249.127	1.1	0.6	115.0	OK
5	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S908	S907	62.650	60.722	0.355	852.622	2.1	1.2	369.4	OK
6	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S907	S906	62.050	60.485	0.326	871.582	2.4	0.35	376.9	OK
7	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S906	S905	61.520	59.825	0.415	994.224	2.1	0.5	432.1	OK
8	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S905	S904	61.140	59.529	0.507	1577.858	2.1	0.47	675.1	OK
9	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S904	S903	60.600	59.156	0.563	1684.123	2.0	0.74	719.8	OK
10	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S903	S902	60.950	58.841	0.510	1709.410	2.7	1.21	732.1	OK
11	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S902	Pond	59.900	58.747	0.750	1701.932	2.0	0.22	730.4	OK

Project: Catchment 9				Date: 17/02/2026							
Designed by: CSalt		Checked by:		Approved By:							
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:							

12	FEH 100 year + 20%: 30 years: +0 %: 720 mins: Winter	Pipe	Pond	S901	59.500	58.851	0.600	1941.677	0.3	0.15	62.7	Surcharged
13	FEH 100 year + 20%: 30 years: +0 %: 720 mins: Winter	Pipe	S901	Outfall	59.500	58.848	0.171	1936.383	1.3	0.4	62.7	Surcharged
14	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S914	Pond	60.000	58.747	0.450	607.967	1.6	0.43	258.6	Surcharged
15	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S905-A	S905	61.400	59.684	0.345	570.998	1.5	0.25	242.4	OK
16	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S908-A	S908	63.000	60.831	0.385	588.892	1.5	0.46	250.2	OK
17	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S912-A	S912	63.400	61.121	0.127	60.932	1.0	0.31	28.9	OK
18	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S910-A	S910	62.500	60.935	0.237	142.803	0.9	0.21	67.8	OK
19	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S906-A	S906	61.500	59.843	0.267	105.489	0.7	0.21	49.9	OK
20	FEH 100 year + 20%: 30 years: +0 %: 120 mins: Summer	Pipe	S904-A	S904	60.600	59.277	0.321	86.471	0.4	0.07	41.0	OK

Project: Catchment 9	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:			



FEH 100 year + 20%: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S913	S912	62.650	61.462	0.300	8.782	0.2	0.04	5.2	Surcharged
2	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S912	S910	62.900	61.461	0.300	112.411	0.8	0.64	53.9	Surcharged
3	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S910	S909	63.150	61.347	0.375	359.640	1.5	1.53	170.6	Surcharged
4	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S909	S908	63.000	61.158	0.375	375.445	1.6	0.93	177.6	Surcharged
5	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S908	S907	62.650	60.904	0.473	1284.800	2.3	1.82	559.5	Surcharged
6	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S907	S906	62.050	60.540	0.600	1313.205	2.4	0.52	559.3	OK
7	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S906	S905	61.520	60.352	0.600	1498.047	2.3	0.76	648.9	Surcharged
8	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S905	S904	61.140	60.067	0.750	2377.385	2.3	0.71	1022.3	Surcharged
9	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S904	S903	60.600	59.734	0.750	2531.751	2.5	1.13	1098.8	Surcharged
10	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S903	S902	60.950	59.274	0.750	2569.576	2.8	1.86	1130.5	Surcharged
11	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S902	Pond	59.900	59.035	0.750	2560.885	2.6	0.34	1134.3	Surcharged

Project: Catchment 9				Date: 17/02/2026								
				Designed by: CSalt	Checked by:	Approved By:						
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:								

12	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	Pipe	Pond	S901	59.500	59.187	0.600	4219.354	0.3	0.21	88.6	Surcharged
13	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	Pipe	S901	Outfall	59.500	59.180	0.211	4214.161	1.4	0.56	88.6	Surcharged
14	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S914	Pond	60.000	59.035	0.450	916.529	2.4	0.66	389.6	Surcharged
15	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S905-A	S905	61.400	60.156	0.600	860.270	1.5	0.38	365.7	Surcharged
16	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S908-A	S908	63.000	61.081	0.525	887.259	1.7	0.7	377.4	Surcharged
17	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S912-A	S912	63.400	61.510	0.300	91.804	1.0	0.47	43.8	Surcharged
18	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S910-A	S910	62.500	61.378	0.450	215.200	0.9	0.31	101.8	Surcharged
19	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S906-A	S906	61.500	60.379	0.375	158.937	0.7	0.31	74.5	Surcharged
20	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S904-A	S904	60.600	59.739	0.450	130.277	0.4	0.11	61.5	Surcharged

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		



Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
S1010	Manhole	520225.597	133839.378	62.380	1.830	60.550	Circular	1.200
S1009	Manhole	520218.423	133864.189	62.610	2.227	60.383	Circular	1.200
S1008	Manhole	520210.242	133879.634	62.900	2.859	60.041	Circular	1.200
S1007	Manhole	520192.399	133900.105	63.400	3.425	59.975	Circular	1.200
S1006	Manhole	520169.521	133915.681	63.300	3.393	59.907	Circular	1.200
S1005	Manhole	520138.880	133925.260	63.000	3.171	59.829	Circular	1.200
S1004	Manhole	520097.077	133926.248	62.300	2.573	59.727	Circular	1.200
S1003	Manhole	520082.971	133922.910	62.030	2.339	59.691	Circular	1.200
S1002	Manhole	520094.773	133871.666	61.800	2.313	59.487	Circular	1.200
S1001	Manhole	520046.988	133790.180	60.050	1.225	58.825	Circular	1.200
S1011	Manhole	520117.079	133831.776	61.000	1.600	59.400	Circular	1.200
S1005-A	Manhole	520142.970	133947.336	63.500	3.600	59.900	Circular	1.200
S1003-A	Manhole	520079.478	133938.466	62.400	2.200	60.200	Circular	1.200
S1008-A	Manhole	520223.735	133888.412	63.400	3.100	60.300	Circular	1.200
Outfall	Manhole	520048.897	133783.636	59.600	1.000	58.600	Circular	1.200

Name	Lock
S1010	None
S1009	None
S1008	None
S1007	None
S1006	None
S1005	None
S1004	None
S1003	None
S1002	None
S1001	None
S1011	None
S1005-A	None
S1003-A	None
S1008-A	None
Outfall	None

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		



Inlets

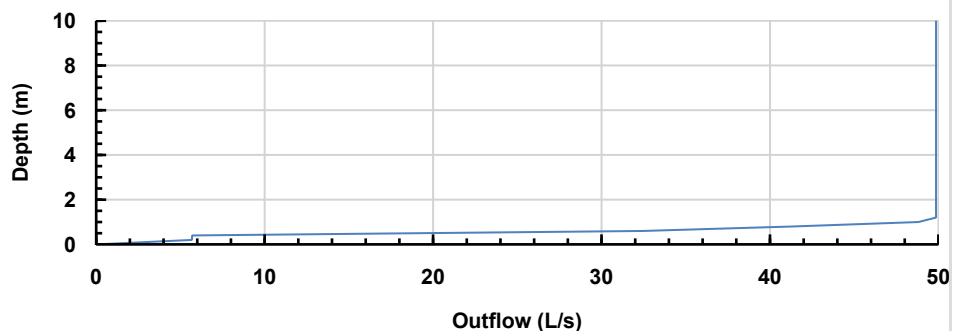
Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity Type
S1010	Inlet	Catchment Area 1	(None)	No Restriction
S1009	Inlet	1	(None)	No Restriction
	Inlet (1)	Catchment Area 2	(None)	No Restriction
S1008	Inlet	2 3	(None)	No Restriction
	Inlet (1)	Catchment Area 3	(None)	No Restriction
S1007	Inlet	4	(None)	No Restriction
	Inlet (1)	Catchment Area 4	(None)	No Restriction
S1006	Inlet	5	(None)	No Restriction
	Inlet (1)	Catchment Area 5	(None)	No Restriction
S1005	Inlet	6	(None)	No Restriction
	Inlet (1)	7	(None)	No Restriction
	Inlet (2)	Catchment Area 6	(None)	No Restriction
S1004	Inlet	8	(None)	No Restriction
	Inlet (1)	Catchment Area 7	(None)	No Restriction
S1003	Inlet	9	(None)	No Restriction
	Inlet (1)	Catchment Area 8	(None)	No Restriction
	Inlet (2)	16	(None)	No Restriction
S1002	Inlet	11	(None)	No Restriction
S1001	Inlet	14	(None)	No Restriction
S1011	Inlet	Spur S1011 Pipe (2)	(None)	No Restriction
S1005-A	Inlet	Spur S1005-A	(None)	No Restriction
	Inlet (1)	Pipe	(None)	No Restriction
S1003-A	Inlet	Spur S1003-A	(None)	No Restriction
	Inlet (1)	Pipe (3)	(None)	No Restriction
S1008-A	Inlet	Spur S1008-A Pipe (1)	(None)	No Restriction
Outfall	Inlet	15	(None)	No Restriction

Outlets

Junction	Outlet Name	Outgoing Connection	Outlet Type
S1010	Outlet	1	Free Discharge
S1009	Outlet	2	Free Discharge
S1008	Outlet	4	Free Discharge
S1007	Outlet	5	Free Discharge
S1006	Outlet	6	Free Discharge
S1005	Outlet	8	Free Discharge
S1004	Outlet	9	Free Discharge
S1003	Outlet	10	Free Discharge
S1002	Outlet	12	Free Discharge
	Outlet	15	Multiple

Invert Level (m) 58.825

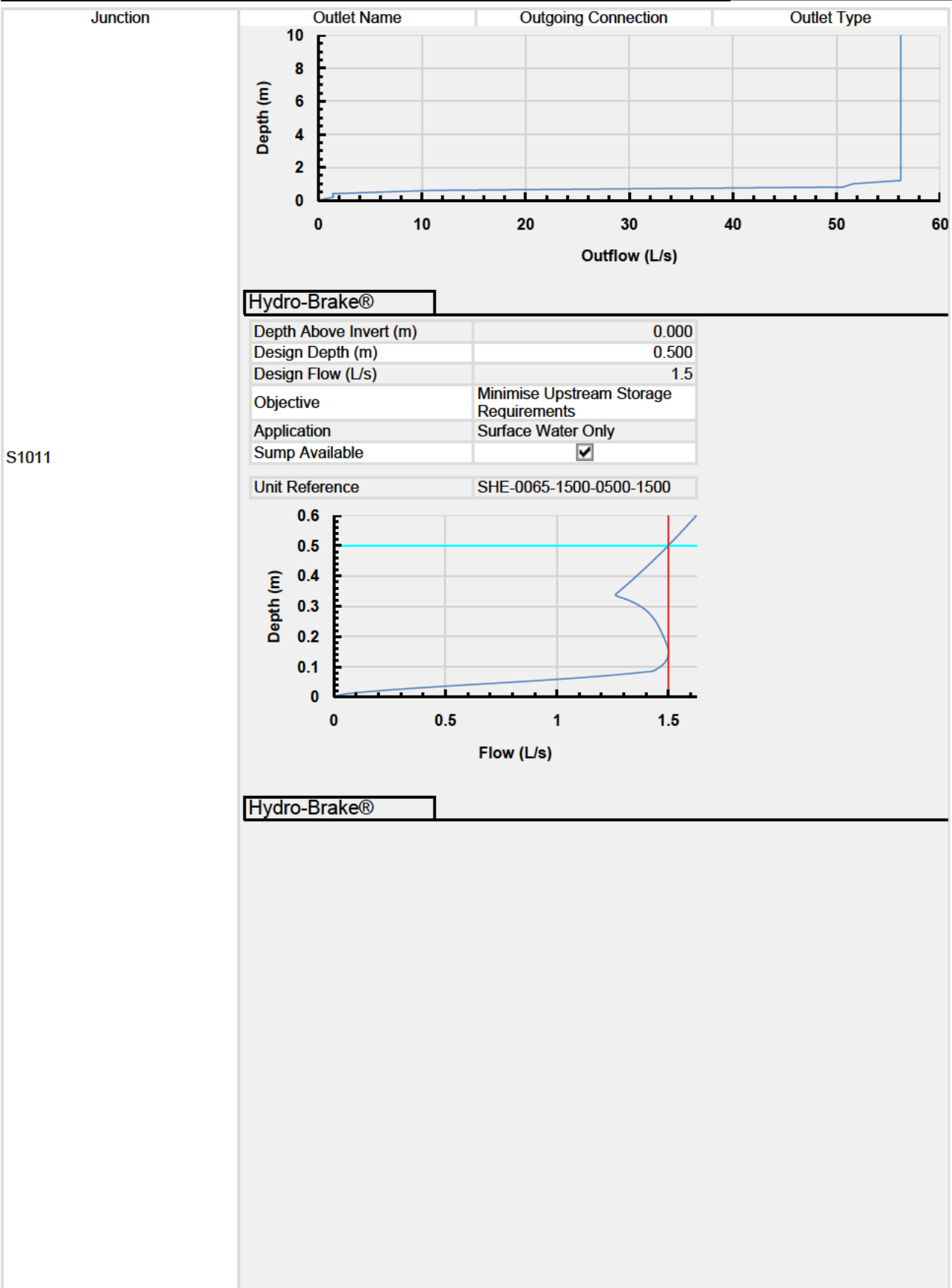
Combined Outflow



S1001

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		





Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		



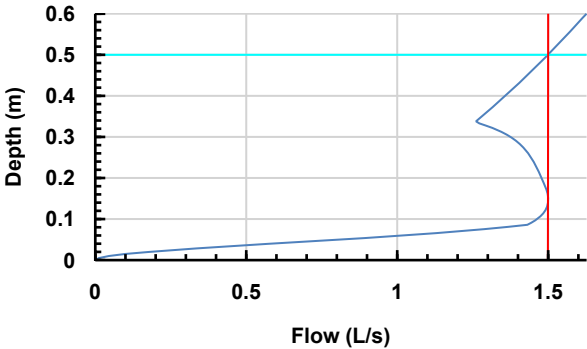
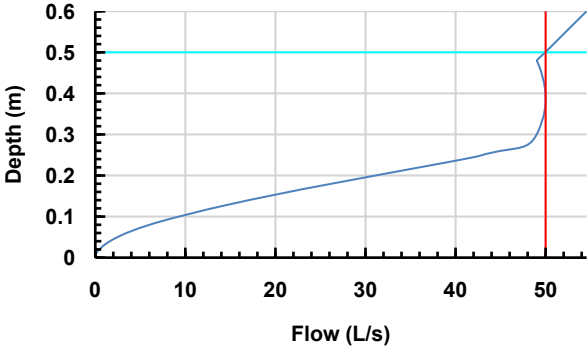
Junction	Outlet Name	Outgoing Connection	Outlet Type
	Depth Above Invert (m)	0.500	
	Design Depth (m)	0.500	
	Design Flow (L/s)	50.0	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0303-5000-0500-5000	

Outlet	7	Multiple
Invert Level (m)	59.900	
Combined Outflow		
Hydro-Brake®		

S1005-A

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		

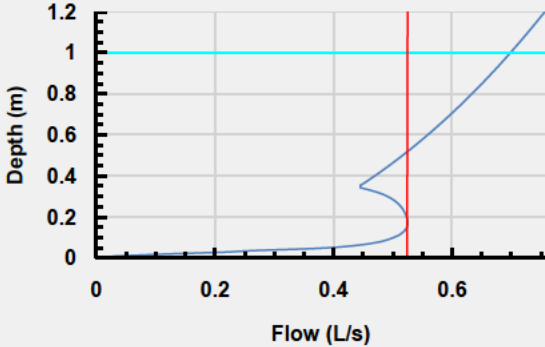


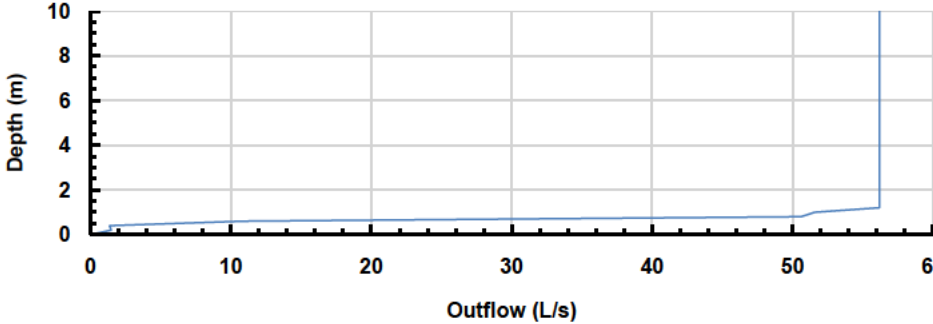
Junction	Outlet Name	Outgoing Connection	Outlet Type
	Depth Above Invert (m) Design Depth (m) Design Flow (L/s) Objective Application Sump Available	0.000 0.500 1.5 Minimise Upstream Storage Requirements Surface Water Only ☒	
	Unit Reference	SHE-0065-1500-0500-1500	
			
	Hydro-Brake®		
	Depth Above Invert (m) Design Depth (m) Design Flow (L/s) Objective Application Sump Available	0.500 0.500 50.0 Minimise Upstream Storage Requirements Surface Water Only ☒	
	Unit Reference	SHE-0303-5000-0500-5000	
			
	Outlet	16	Hydro-Brake®

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		

I

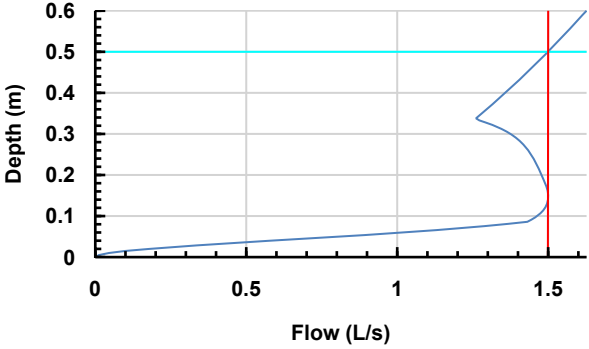
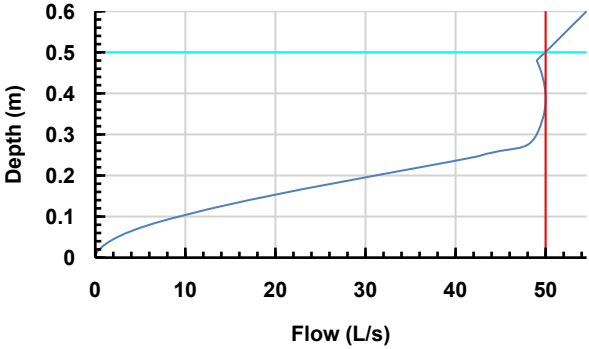
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S1003-A	Junction	Outlet Name	Outgoing Connection	Outlet Type
		Invert Level (m)	60.200	
		Design Depth (m)	1.000	
		Design Flow (L/s)	0.7	
		Objective	Minimise Upstream Storage Requirements	
		Application	Surface Water Only	
		Sump Available	☒	
		Unit Reference	SHE-0039-7000-1000-7000	
				

S1008-A	Outlet	3	Multiple
	Invert Level (m)	60.300	
	Combined Outflow		
			
	Hydro-Brake®		

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Storm Phase: Phase	Company Address:		



Junction	Outlet Name	Outgoing Connection	Outlet Type
	Depth Above Invert (m)	0.000	
	Design Depth (m)	0.500	
	Design Flow (L/s)	1.5	
	Objective	Minimise Upstream Storage Requirements	
	Application	Surface Water Only	
	Sump Available	☒	
	Unit Reference	SHE-0065-1500-0500-1500	
			
	Hydro-Brake®		
	Depth Above Invert (m)	0.500	
Design Depth (m)	0.500		
Design Flow (L/s)	50.0		
Objective	Minimise Upstream Storage Requirements		
Application	Surface Water Only		
Sump Available	☒		
Unit Reference	SHE-0303-5000-0500-5000		
			

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





Basin 10b

Type : Pond

Dimensions

Exceedance Level (m)	61.800
Depth (m)	2.293
Base Level (m)	59.507
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	30
Average Slope (1:X)	0.00
Total Volume (m³)	17.885

Depth (m)	Area (m²)	Volume (m³)
0.000	26.00	0.000
0.100	26.00	0.780
0.200	26.00	1.560
0.300	26.00	2.340
0.400	26.00	3.120
0.500	26.00	3.900
0.600	26.00	4.680
0.700	26.00	5.460
0.800	26.00	6.240
0.900	26.00	7.020
1.000	26.00	7.800
1.100	26.00	8.580
1.200	26.00	9.360
1.300	26.00	10.140
1.400	26.00	10.920
1.500	26.00	11.700
1.600	26.00	12.480
1.700	26.00	13.260
1.800	26.00	14.040
1.900	26.00	14.820
2.000	26.00	15.600
2.100	26.00	16.380
2.200	26.00	17.160
2.300	26.00	17.940

Inlets

Inlet

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

Outlets

Outlet

Outgoing Connection	11
Outlet Type	Free Discharge

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			

Advanced

Perimeter	Circular
Length (m)	33.883
Friction Scheme	Manning's n
n	0.03

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:		





Basin 10a

Type : Pond

Dimensions

Exceedance Level (m)	60.050
Depth (m)	1.200
Base Level (m)	58.850
Freeboard (mm)	300
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	21.486
Total Volume (m³)	1092.009

Depth (m)	Area (m²)	Volume (m³)
0.000	12.00	0.000
0.100	40.00	2.464
0.200	134.00	10.704
0.300	677.00	47.777
0.400	1386.00	148.833
0.500	1771.00	306.290
0.600	1867.00	488.169
0.700	1964.00	679.699
0.800	2061.00	880.929
0.900	2161.00	1092.009
1.000	2262.00	1313.140
1.100	2364.00	1544.421
1.200	2417.00	1783.466

Inlets

Inlet

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

Inlet (1)

Inlet Type	Point Inflow
Incoming Item(s)	13
Bypass Destination	(None)
Capacity Type	No Restriction

Outlets

Outlet

Outgoing Connection	14
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	79.246
Friction Scheme	Manning's n
n	0.03

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



Tank

Type : Tank

Dimensions

Exceedance Level (m)	60.900
Depth (m)	1.000
Base Level (m)	59.900
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	0.00
Total Volume (m³)	1000.000

Depth (m)	Area (m²)	Volume (m³)
0.000	1000.00	0.000
1.000	1000.00	1000.000

Inlets

Outlets

Outlet

Outgoing Connection	Pipe
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	33.133

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



Tank (1)

Type : Tank

Dimensions

Exceedance Level (m)	61.300
Depth (m)	1.000
Base Level (m)	60.300
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	0.00
Total Volume (m³)	600.000

Depth (m)	Area (m²)	Volume (m³)
0.000	600.00	0.000
1.000	600.00	600.000

Inlets

Outlets

Outlet

Outgoing Connection	Pipe (1)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	20.495

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



Tank (2)

Type : Tank

Dimensions

Exceedance Level (m)	60.400
Depth (m)	1.000
Base Level (m)	59.400
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	0.00
Total Volume (m³)	250.000

Depth (m)	Area (m²)	Volume (m³)
0.000	250.00	0.000
1.000	250.00	250.000

Inlets

Outlets

Outlet	
Outgoing Connection	Pipe (2)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	30.359

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Storm Phase: Phase	Company Address:			



Tank (3)

Type : Tank

Dimensions

Exceedance Level (m)	61.200
Depth (m)	1.000
Base Level (m)	60.200
Freeboard (mm)	0
Initial Depth (m)	0.000
Porosity (%)	100
Average Slope (1:X)	0.00
Total Volume (m³)	50.000

Depth (m)	Area (m²)	Volume (m³)
0.000	50.00	0.000
1.000	50.00	50.000

Inlets

Outlets

Outlet

Outgoing Connection	Pipe (3)
Outlet Type	Free Discharge

Advanced

Perimeter	Circular
Length (m)	14.095

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Connections Storm Phase: Phase	Company Address:		



Name	Length (m)	Connection Type	Slope (1:X)	Manning's n	Colebrook-White Roughness (mm)	Diameter / Base Width (mm)	Upstream Cover Level (m)	Upstream Invert Level (m)
2	17.478	Pipe	51.105		0.6	225	62.610	60.383
1	25.827	Pipe	154.654		0.6	225	62.380	60.550
3	16.097	Pipe	62.152		0.6	450	63.400	60.300
4	27.156	Pipe	411.457		0.6	450	62.900	60.041
5	27.676	Pipe	407.004		0.6	450	63.400	59.975
6	32.104	Pipe	411.584		0.6	450	63.300	59.907
7	22.452	Pipe	316.227		0.6	450	63.500	59.900
8	41.815	Pipe	409.947		0.6	450	63.000	59.829
9	14.496	Pipe	402.665		0.6	450	62.300	59.727
10	31.872	Pipe	173.216		0.6	450	62.030	59.691
11	20.715	Pipe	1035.757		0.6	450	61.800	59.507
12	18.875	Pipe	29.631		0.6	450	61.800	59.487
13	14.045	Pipe	25.536		0.6	300	61.000	59.400
14	4.633	Pipe	185.312		0.6	450	60.050	58.850
15	6.817	Pipe	30.296		0.6	300	60.050	58.825
16	15.943	Pipe	31.323		0.6	300	62.400	60.200
Pipe	20.597	Pipe	0.000		0.6	450	60.900	59.900
Pipe (1)	19.787	Pipe	0.000		0.6	450	61.300	60.300
Pipe (2)	18.790	Pipe	0.000		0.6	300	60.400	59.400
Pipe (3)	10.407	Pipe	0.000		0.6	300	61.200	60.200

Name	Downstream Cover Level (m)	Downstream Invert Level (m)	Part Family	Lock	Flow Restriction (L/s)	Culvert Type	Culvert Entrance
2	62.900	60.041		None		(None)	(None)
1	62.610	60.383		None		(None)	(None)
3	62.900	60.041		None	56.2	(None)	(None)
4	63.400	59.975		None		(None)	(None)
5	63.300	59.907		None		(None)	(None)
6	63.000	59.829		None		(None)	(None)
7	63.000	59.829		None	56.2	(None)	(None)
8	62.300	59.727		None		(None)	(None)
9	62.030	59.691		None		(None)	(None)
10	61.800	59.507		None		(None)	(None)
11	61.800	59.487		None		(None)	(None)
12	60.050	58.850		None		(None)	(None)
13	60.050	58.850		None	56.2	(None)	(None)
14	60.050	58.825		None		(None)	(None)
15	59.600	58.600		None	49.9	(None)	(None)
16	62.030	59.691		None	0.8	(None)	(None)
Pipe	63.500	59.900		None		(None)	(None)
Pipe (1)	63.400	60.300		None		(None)	(None)
Pipe (2)	61.000	59.400		None		(None)	(None)
Pipe (3)	62.400	60.200		None		(None)	(None)

Project: Catchment 10		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase		Company Address:			

Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area 1	S1010		Time of Concentration	0.015	100.0	0	100.0	0.015
Catchment Area 2	S1009		Time of Concentration	0.038	100.0	0	100.0	0.038
Catchment Area 3	S1008		Time of Concentration	0.032	100.0	0	100.0	0.032
Catchment Area 4	S1007		Time of Concentration	0.037	100.0	0	100.0	0.037
Catchment Area 5	S1006		Time of Concentration	0.040	100.0	0	100.0	0.040
Catchment Area 6	S1005		Time of Concentration	0.070	100.0	0	100.0	0.070
Catchment Area 7	S1004		Time of Concentration	0.067	100.0	0	100.0	0.067
Catchment Area 8	S1003		Time of Concentration	0.064	100.0	0	100.0	0.064
Spur S1003-A	S1003-A		Time of Concentration	0.100	70.7	0	70.7	0.071
Spur S1005-A	S1005-A		Time Area Diagram	1.846	70.7	0	70.7	1.305
Spur S1008-A	S1008-A		Time Area Diagram	1.275	70.7	0	70.7	0.901
Spur S1011	S1011		Time of Concentration	0.625	70.7	0	70.7	0.442
TOTAL		0.0		4.209				3.082

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:			

Flow Options

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

Pipe Options

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

Manhole Options

Apply Offset	☐
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Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Outfall	Free Discharge			

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Title: Rainfall Analysis Criteria	Company Address:			

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

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area 1	FEH: 2 years: +0 %: 60 mins: Summer	0.01	1.7	2.166
Catchment Area 2	FEH: 2 years: +0 %: 60 mins: Summer	0.04	4.5	5.640
Catchment Area 3	FEH: 2 years: +0 %: 60 mins: Summer	0.03	3.8	4.746
Catchment Area 4	FEH: 2 years: +0 %: 60 mins: Summer	0.04	4.3	5.400
Catchment Area 5	FEH: 2 years: +0 %: 60 mins: Summer	0.04	4.7	5.868
Catchment Area 6	FEH: 2 years: +0 %: 60 mins: Summer	0.07	8.3	10.314
Catchment Area 7	FEH: 2 years: +0 %: 60 mins: Summer	0.07	7.9	9.906
Catchment Area 8	FEH: 2 years: +0 %: 60 mins: Summer	0.06	7.5	9.390
Spur S1008-A	FEH: 2 years: +0 %: 60 mins: Summer	1.28	106.4	132.987
Spur S1005-A	FEH: 2 years: +0 %: 60 mins: Summer	1.85	145.9	192.549
Spur S1003-A	FEH: 2 years: +0 %: 60 mins: Summer	0.10	8.4	10.464
Spur S1011	FEH: 2 years: +0 %: 60 mins: Summer	0.63	52.2	65.232

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area 1	FEH: 30 years: +0 %: 60 mins: Summer	0.01	3.9	4.896
Catchment Area 2	FEH: 30 years: +0 %: 60 mins: Summer	0.04	10.2	12.750
Catchment Area 3	FEH: 30 years: +0 %: 60 mins: Summer	0.03	8.6	10.728
Catchment Area 4	FEH: 30 years: +0 %: 60 mins: Summer	0.04	9.8	12.210
Catchment Area 5	FEH: 30 years: +0 %: 60 mins: Summer	0.04	10.6	13.254
Catchment Area 6	FEH: 30 years: +0 %: 60 mins: Summer	0.07	18.7	23.310
Catchment Area 7	FEH: 30 years: +0 %: 60 mins: Summer	0.07	17.9	22.392
Catchment Area 8	FEH: 30 years: +0 %: 60 mins: Summer	0.06	17.0	21.216
Spur S1008-A	FEH: 30 years: +0 %: 60 mins: Summer	1.28	240.5	300.627
Spur S1005-A	FEH: 30 years: +0 %: 60 mins: Summer	1.85	329.9	435.258
Spur S1003-A	FEH: 30 years: +0 %: 60 mins: Summer	0.10	18.9	23.658
Spur S1011	FEH: 30 years: +0 %: 60 mins: Summer	0.63	118.0	147.468

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		



FEH: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area 1	FEH: 100 years: +20 %: 60 mins: Summer	0.01	6.0	7.548
Catchment Area 2	FEH: 100 years: +20 %: 60 mins: Summer	0.04	15.7	19.638
Catchment Area 3	FEH: 100 years: +20 %: 60 mins: Summer	0.03	13.2	16.518
Catchment Area 4	FEH: 100 years: +20 %: 60 mins: Summer	0.04	15.0	18.810
Catchment Area 5	FEH: 100 years: +20 %: 60 mins: Summer	0.04	16.3	20.418
Catchment Area 6	FEH: 100 years: +20 %: 60 mins: Summer	0.07	28.7	35.892
Catchment Area 7	FEH: 100 years: +20 %: 60 mins: Summer	0.07	27.6	34.494
Catchment Area 8	FEH: 100 years: +20 %: 60 mins: Summer	0.06	26.1	32.670
Spur S1008-A	FEH: 100 years: +20 %: 60 mins: Summer	1.28	370.4	462.970
Spur S1005-A	FEH: 100 years: +20 %: 60 mins: Summer	1.85	508.0	670.306
Spur S1003-A	FEH: 100 years: +20 %: 60 mins: Summer	0.10	29.1	36.432
Spur S1011	FEH: 100 years: +20 %: 60 mins: Summer	0.63	181.7	227.099

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1010	FEH: 2 years: +0 %: 60 mins: Summer	62.38 0	60.55 0	60.581	0.031	1.7	0.035	0.000	1.7	2.165	OK
S1009	FEH: 2 years: +0 %: 60 mins: Summer	62.61 0	60.38 3	60.428	0.045	6.2	0.050	0.000	6.2	7.807	OK
S1008	FEH: 2 years: +0 %: 60 mins: Summer	62.90 0	60.04 1	60.123	0.082	11.4	0.093	0.000	11.4	22.715	OK
S1007	FEH: 2 years: +0 %: 60 mins: Summer	63.40 0	59.97 5	60.073	0.098	15.7	0.110	0.000	15.7	27.951	OK
S1006	FEH: 2 years: +0 %: 60 mins: Summer	63.30 0	59.90 7	60.018	0.111	20.4	0.125	0.000	20.4	33.644	OK
S1005	FEH: 2 years: +0 %: 60 mins: Summer	63.00 0	59.82 9	59.964	0.135	29.9	0.153	0.000	29.8	53.825	OK
S1004	FEH: 2 years: +0 %: 60 mins: Summer	62.30 0	59.72 7	59.879	0.152	37.7	0.172	0.000	37.6	63.460	OK
S1003	FEH: 2 years: +0 %: 60 mins: Summer	62.03 0	59.69 1	59.821	0.130	45.6	0.147	0.000	45.5	76.027	OK
S1002	FEH: 2 years: +0 %: 60 mins: Summer	61.80 0	59.48 7	59.568	0.081	45.4	0.092	0.000	45.3	75.483	OK
S1001	FEH: 2 years: +0 %: 120 mins: Summer	60.05 0	58.82 5	59.178	0.353	5.8	0.399	0.000	5.7	70.339	Surcharged
S1011	FEH: 2 years: +0 %: 60 mins: Summer	61.00 0	59.40 0	59.685	0.285	52.2	0.323	0.000	1.5	69.353	OK
S1005-A	FEH: 2 years: +0 %: 60 mins: Winter	63.50 0	59.90 0	60.413	0.513	120.2	0.580	0.000	1.7	196.114	Surcharged
S1003-A	FEH: 2 years: +0 %: 720 mins: Winter	62.40 0	60.20 0	60.427	0.227	1.5	0.257	0.000	0.5	35.969	OK
S1008-A	FEH: 2 years: +0 %: 120 mins: Summer	63.40 0	60.30 0	60.589	0.289	85.1	0.327	0.000	1.5	187.865	OK
Outfall	FEH: 2 years: +0 %: 120 mins: Summer	59.60 0	58.60 0	58.634	0.034	5.7	0.000	0.000	5.7	70.298	OK

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1010	FEH: 30 years: +0 %: 60 mins: Summer	62.380	60.550	60.596	0.046	3.9	0.052	0.000	3.9	4.895	OK
S1009	FEH: 30 years: +0 %: 60 mins: Summer	62.610	60.383	60.450	0.067	14.1	0.076	0.000	14.1	17.647	OK
S1008	FEH: 30 years: +0 %: 60 mins: Summer	62.900	60.041	60.179	0.138	25.2	0.156	0.000	23.2	38.835	OK
S1007	FEH: 30 years: +0 %: 60 mins: Summer	63.400	59.975	60.152	0.177	33.0	0.200	0.000	30.8	50.884	OK
S1006	FEH: 30 years: +0 %: 60 mins: Summer	63.300	59.907	60.129	0.222	41.4	0.251	0.000	39.4	63.959	OK
S1005	FEH: 30 years: +0 %: 60 mins: Summer	63.000	59.829	60.109	0.280	99.6	0.316	0.000	95.3	113.848	OK
S1004	FEH: 30 years: +0 %: 60 mins: Summer	62.300	59.727	60.024	0.297	113.3	0.336	0.000	110.7	135.975	OK
S1003	FEH: 30 years: +0 %: 60 mins: Summer	62.030	59.691	59.955	0.264	128.2	0.298	0.000	126.1	160.286	OK
S1002	FEH: 30 years: +0 %: 60 mins: Summer	61.800	59.487	59.636	0.149	125.1	0.168	0.000	124.3	159.767	OK
S1001	FEH: 30 years: +0 %: 1440 mins: Winter	60.050	58.825	59.384	0.559	25.1	0.632	0.000	25.1	1527.884	Surcharged
S1011	FEH: 30 years: +0 %: 360 mins: Summer	61.000	59.400	60.012	0.612	41.3	0.692	0.000	13.0	281.926	Surcharged
S1005-A	FEH: 30 years: +0 %: 60 mins: Summer	63.500	59.900	60.639	0.739	329.9	0.836	0.000	42.2	436.742	Surcharged
S1003-A	FEH: 30 years: +0 %: 360 mins: Winter	62.400	60.200	60.747	0.547	4.4	0.619	0.000	0.5	47.014	Surcharged
S1008-A	FEH: 30 years: +0 %: 600 mins: Winter	63.400	60.300	60.924	0.624	37.5	0.706	0.000	15.3	634.496	Surcharged
Outfall	FEH: 30 years: +0 %: 1440 mins: Winter	59.600	58.600	58.671	0.071	25.1	0.000	0.000	25.1	1527.844	OK

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:			



FEH: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1010	FEH: 100 years: +20 %: 60 mins: Summer	62.380	60.550	60.607	0.057	6.0	0.064	0.000	6.1	7.548	OK
S1009	FEH: 100 years: +20 %: 60 mins: Summer	62.610	60.383	60.564	0.181	21.8	0.204	0.000	21.1	27.183	OK
S1008	FEH: 100 years: +20 %: 60 mins: Summer	62.900	60.041	60.541	0.500	71.1	0.565	0.000	65.9	150.414	Surcharged
S1007	FEH: 100 years: +20 %: 60 mins: Summer	63.400	59.975	60.524	0.549	81.0	0.621	0.000	79.2	168.677	Surcharged
S1006	FEH: 100 years: +20 %: 60 mins: Summer	63.300	59.907	60.500	0.593	95.5	0.671	0.000	93.7	188.506	Surcharged
S1005	FEH: 100 years: +20 %: 60 mins: Summer	63.000	59.829	60.463	0.634	177.7	0.717	0.000	175.9	316.811	Surcharged
S1004	FEH: 100 years: +20 %: 60 mins: Summer	62.300	59.727	60.311	0.584	203.5	0.661	0.000	202.6	350.492	Surcharged
S1003	FEH: 100 years: +20 %: 60 mins: Summer	62.030	59.691	60.217	0.526	228.7	0.595	0.000	227.1	386.377	Surcharged
S1002	FEH: 100 years: +20 %: 60 mins: Summer	61.800	59.487	59.710	0.223	225.8	0.253	0.000	224.7	385.165	OK
S1001	FEH: 100 years: +20 %: 1440 mins: Summer	60.050	58.825	59.661	0.836	42.8	0.946	0.000	42.8	2687.268	Surcharged
S1011	FEH: 100 years: +20 %: 60 mins: Summer	61.000	59.400	60.212	0.812	181.7	0.919	0.000	50.9	255.209	Surcharged
S1005-A	FEH: 100 years: +20 %: 60 mins: Summer	63.500	59.900	61.122	1.222	508.0	1.382	0.000	56.2	691.662	Surcharged
S1003-A	FEH: 100 years: +20 %: 480 mins: Winter	62.400	60.200	61.083	0.883	5.2	0.999	0.000	0.7	75.726	Surcharged
S1008-A	FEH: 100 years: +20 %: 360 mins: Summer	63.400	60.300	61.056	0.756	125.5	0.855	0.000	46.0	862.709	Surcharged
Outfall	FEH: 100 years: +20 %: 1440 mins: Summer	59.600	58.600	58.693	0.093	42.8	0.000	0.000	42.8	2687.227	OK

Project: Catchment 10		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Basin 10b	FEH: 2 years: +0 %: 60 mins: Summer	59.719	59.668	0.212	0.161	45.5	1.477	0.000	0.000	45.4	75.575	91.742	OK
Basin 10a	FEH: 2 years: +0 %: 960 mins: Winter	59.203	59.203	0.353	0.353	11.0	92.848	0.000	0.000	5.7	573.365	91.498	OK
Tank	FEH: 2 years: +0 %: 4320 mins: Summer	60.409	60.409	0.509	0.509	10.3	508.800	0.000	0.000	1.5	381.937	49.120	OK
Tank (1)	FEH: 2 years: +0 %: 4320 mins: Summer	60.795	60.795	0.495	0.495	6.7	297.012	0.000	0.000	1.5	285.187	50.498	OK
Tank (2)	FEH: 2 years: +0 %: 960 mins: Summer	59.831	59.831	0.431	0.431	9.9	107.844	0.000	0.000	1.5	83.372	56.863	OK
Tank (3)	FEH: 2 years: +0 %: 480 mins: Summer	60.453	60.453	0.253	0.253	2.4	12.631	0.000	0.000	0.5	11.689	74.739	OK

Project: Catchment 10		Date: 26/03/2026			
		Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Resident Volume

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
Basin 10b	FEH: 30 years: +0 %: 60 mins: Summer	59.869	59.776	0.362	0.269	126.1	2.496	0.000	0.000	125.1	159.850	86.044	OK
Basin 10a	FEH: 30 years: +0 %: 1440 mins: Winter	59.385	59.385	0.535	0.535	37.2	368.983	0.000	0.000	25.1	1528.595	66.211	OK
Tank	FEH: 30 years: +0 %: 1440 mins: Summer	60.520	60.520	0.620	0.620	41.3	619.765	0.000	0.000	4.1	205.569	38.024	OK
Tank (1)	FEH: 30 years: +0 %: 600 mins: Winter	60.924	60.924	0.624	0.624	36.0	374.389	0.000	0.000	5.7	102.357	37.602	OK
Tank (2)	FEH: 30 years: +0 %: 360 mins: Summer	60.012	60.012	0.612	0.612	39.7	153.066	0.000	0.000	4.0	49.716	38.773	OK
Tank (3)	FEH: 30 years: +0 %: 360 mins: Winter	60.747	60.747	0.547	0.547	3.8	27.373	0.000	0.000	0.5	10.351	45.254	OK

Project: Catchment 10		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



**FEH: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By:
Max. Resident Volume**

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Basin 10b	FEH: 100 years: +20 %: 60 mins: Summer	60.014	59.894	0.507	0.387	227.1	3.532	0.000	0.000	225.8	385.455	80.251	OK
Basin 10a	FEH: 100 years: +20 %: 1440 mins: Summer	59.664	59.664	0.814	0.814	107.4	909.764	0.000	0.000	42.8	2688.028	16.689	OK
Tank	FEH: 100 years: +20 %: 720 mins: Summer	60.651	60.651	0.751	0.751	101.3	750.796	0.000	0.000	14.9	266.447	24.920	OK
Tank (1)	FEH: 100 years: +20 %: 360 mins: Summer	61.057	61.057	0.757	0.757	118.1	453.937	0.000	0.000	15.9	156.298	24.344	OK
Tank (2)	FEH: 100 years: +20 %: 240 mins: Summer	60.121	60.121	0.721	0.721	67.2	180.289	0.000	0.000	10.9	63.967	27.884	OK
Tank (3)	FEH: 100 years: +20 %: 480 mins: Winter	61.083	61.083	0.883	0.883	4.6	44.156	0.000	0.000	0.6	16.979	11.689	OK

Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:			



FEH: 2 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1009	S1008	62.610	60.428	0.063	7.807	0.7	0.09	6.2	OK
1	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1010	S1009	62.380	60.581	0.038	2.165	0.4	0.04	1.7	OK
3	FEH: 2 years: +0 %: 60 mins: Winter	Pipe	S1008-A	S1008	63.400	60.663	0.046	10.324	0.4	0	1.5	OK
4	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1008	S1007	62.900	60.123	0.090	22.715	0.5	0.07	11.4	OK
5	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1007	S1006	63.400	60.073	0.104	27.951	0.6	0.1	15.7	OK
6	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1006	S1005	63.300	60.018	0.123	33.644	0.6	0.13	20.4	OK
7	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1005-A	S1005	63.500	60.409	0.100	10.272	0.3	0.01	1.8	Surcharged
8	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1005	S1004	63.000	59.964	0.144	53.825	0.7	0.19	29.8	OK
9	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1004	S1003	62.300	59.879	0.141	63.460	0.9	0.23	37.6	OK
10	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1003	Basin 10b	62.030	59.821	0.171	76.027	0.8	0.19	45.5	OK
11	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	Basin 10b	S1002	61.800	59.696	0.121	75.575	1.3	0.46	45.4	OK
12	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1002	Basin 10a	61.800	59.568	0.177	75.483	0.8	0.08	45.3	OK
13	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	S1011	Basin 10a	61.000	59.685	0.161	10.378	0.4	0.01	1.5	OK
14	FEH: 2 years: +0 %: 60 mins: Winter	Pipe	Basin 10a	S1001	60.050	59.156	0.319	34.511	0.2	0.03	6.0	OK
15	FEH: 2 years: +0 %: 240 mins: Winter	Pipe	S1001	Outfall	60.050	59.195	0.035	145.111	1.2	0.03	5.7	Surcharged
16	FEH: 2 years: +0 %: 1440 mins: Summer	Pipe	S1003-A	S1003	62.400	60.400	0.036	29.734	0.2	0	0.5	OK
Pipe	FEH: 2 years: +0 %: 120 mins: Winter	Pipe	Tank	S1005-A	60.900	60.148	0.247	0.000	0.0	0.01	1.5	OK
Pipe (1)	FEH: 2 years: +0 %: 60 mins: Summer	Pipe	Tank (1)	S1008-A	61.300	60.511	0.220	0.000	0.0	0.01	1.5	OK
Pipe (2)	FEH: 2 years: +0 %: 2880 mins: Winter	Pipe	Tank (2)	S1011	60.400	59.745	0.300	0.000	0.1	0.03	1.5	Surcharged

Project: Catchment 10				Date: 26/03/2026									
				Designed by: CSalt		Checked by:						Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:									

Pipe (3)	FEH: 2 years: +0 %: 600 mins: Winter	Pipe	Tank (3)	S1003-A	61.200	60.437	0.237	0.000	0.0	0.01	0.5	OK
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Project: Catchment 10	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:			



FEH: 30 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1009	S1008	62.610	60.450	0.103	17.647	0.9	0.19	14.1	OK
1	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1010	S1009	62.380	60.596	0.057	4.895	0.5	0.09	3.9	OK
3	FEH: 30 years: +0 %: 600 mins: Winter	Pipe	S1008-A	S1008	63.400	60.924	0.081	260.079	0.8	0.04	15.3	Surcharged
4	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1008	S1007	62.900	60.179	0.158	38.835	0.6	0.15	23.2	OK
5	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1007	S1006	63.400	60.152	0.200	50.884	0.6	0.19	30.8	OK
6	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1006	S1005	63.300	60.129	0.251	63.959	0.6	0.25	39.4	OK
7	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1005-A	S1005	63.500	60.639	0.252	26.972	0.5	0.23	41.6	Surcharged
8	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1005	S1004	63.000	60.109	0.288	113.848	0.9	0.6	95.3	OK
9	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1004	S1003	62.300	60.024	0.280	135.975	1.1	0.69	110.7	OK
10	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1003	Basin 10b	62.030	59.955	0.313	160.286	1.1	0.51	126.1	OK
11	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	Basin 10b	S1002	61.800	59.827	0.209	159.850	1.7	1.26	125.1	OK
12	FEH: 30 years: +0 %: 60 mins: Summer	Pipe	S1002	Basin 10a	61.800	59.636	0.241	159.767	1.4	0.21	124.3	OK
13	FEH: 30 years: +0 %: 360 mins: Summer	Pipe	S1011	Basin 10a	61.000	60.012	0.265	128.801	0.4	0.06	13.0	Surcharged
14	FEH: 30 years: +0 %: 1440 mins: Winter	Pipe	Basin 10a	S1001	60.050	59.385	0.450	1528.595	0.3	0.11	25.1	Surcharged

Project: Catchment 10				Date: 26/03/2026									
				Designed by: CSalt		Checked by:						Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:									

15	FEH: 30 years: +0 %: 1440 mins: Winter	Pipe	S1001	Outfall	60.050	59.384	0.075	1527.844	1.8	0.12	25.1	Surcharged
16	FEH: 30 years: +0 %: 360 mins: Winter	Pipe	S1003-A	S1003	62.400	60.747	0.056	19.625	0.2	0	0.5	Surcharged
Pipe	FEH: 30 years: +0 %: 360 mins: Winter	Pipe	Tank	S1005-A	60.900	60.503	0.450	0.000	0.1	0.08	9.7	Surcharged
Pipe (1)	FEH: 30 years: +0 %: 240 mins: Winter	Pipe	Tank (1)	S1008-A	61.300	60.909	0.450	0.000	0.1	0.09	10.2	Surcharged
Pipe (2)	FEH: 30 years: +0 %: 120 mins: Winter	Pipe	Tank (2)	S1011	60.400	59.995	0.300	0.000	0.1	0.15	7.9	Surcharged
Pipe (3)	FEH: 30 years: +0 %: 360 mins: Summer	Pipe	Tank (3)	S1003-A	61.200	60.744	0.300	0.000	0.0	0.01	0.5	Surcharged

Project: Catchment 10	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:		



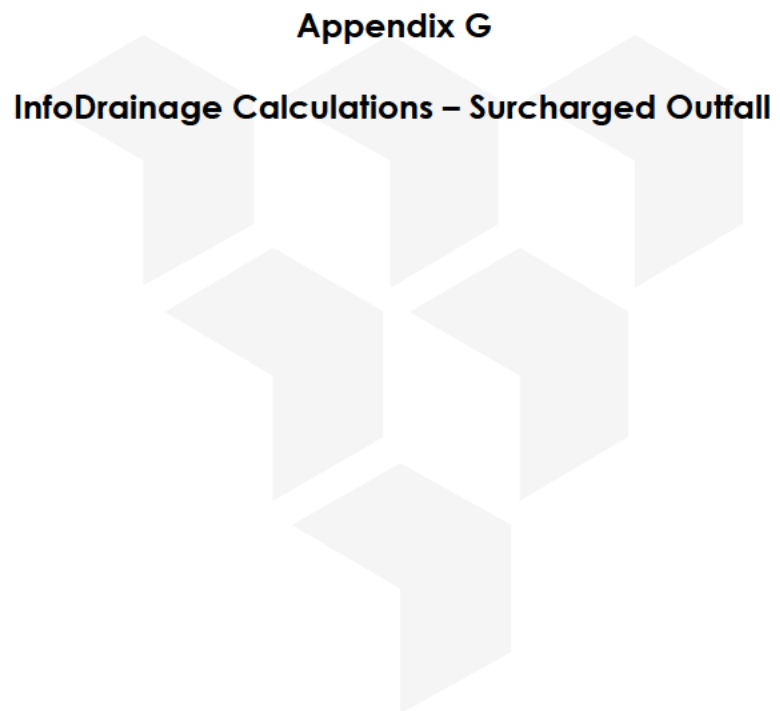


FEH: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1009	S1008	62.610	60.564	0.225	27.183	0.8	0.29	21.1	OK
1	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1010	S1009	62.380	60.607	0.118	7.548	0.6	0.15	6.1	OK
3	FEH: 100 years: +20 %: 360 mins: Summer	Pipe	S1008-A	S1008	63.400	61.056	0.149	408.687	1.0	0.11	46.0	Surcharged
4	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1008	S1007	62.900	60.541	0.450	150.414	0.7	0.42	65.9	Surcharged
5	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1007	S1006	63.400	60.524	0.450	168.677	0.7	0.5	79.2	Surcharged
6	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1006	S1005	63.300	60.500	0.450	188.506	0.6	0.59	93.7	Surcharged
7	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1005-A	S1005	63.500	61.122	0.450	93.734	0.8	0.31	55.3	Surcharged
8	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1005	S1004	63.000	60.463	0.450	316.811	1.1	1.11	175.9	Surcharged
9	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1004	S1003	62.300	60.311	0.450	350.492	1.3	1.26	202.6	Surcharged
10	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1003	Basin 10b	62.030	60.217	0.450	386.373	1.4	0.93	227.1	Surcharged
11	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	Basin 10b	S1002	61.800	59.960	0.305	385.455	2.0	2.28	225.8	Surcharged
12	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1002	Basin 10a	61.800	59.710	0.315	385.165	1.9	0.38	224.7	OK
13	FEH: 100 years: +20 %: 60 mins: Summer	Pipe	S1011	Basin 10a	61.000	60.212	0.284	89.847	0.8	0.23	50.9	Surcharged
14	FEH: 100 years: +20 %: 1440 mins: Summer	Pipe	Basin 10a	S1001	60.050	59.664	0.450	2688.028	0.3	0.18	42.8	Surcharged

Project: Catchment 10				Date: 26/03/2026									
				Designed by: CSalt		Checked by:						Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:									

15	FEH: 100 years: +20 %: 1440 mins: Summer	Pipe	S1001	Outfall	60.050	59.661	0.100	2687.227	2.1	0.21	42.8	Surcharged
16	FEH: 100 years: +20 %: 480 mins: Winter	Pipe	S1003-A	S1003	62.400	61.083	0.115	31.556	0.2	0	0.7	Surcharged
Pipe	FEH: 100 years: +20 %: 180 mins: Winter	Pipe	Tank	S1005-A	60.900	60.616	0.450	0.000	0.2	0.25	29.5	Surcharged
Pipe (1)	FEH: 100 years: +20 %: 120 mins: Winter	Pipe	Tank (1)	S1008-A	61.300	61.028	0.450	0.000	0.2	0.25	30.0	Surcharged
Pipe (2)	FEH: 100 years: +20 %: 60 mins: Winter	Pipe	Tank (2)	S1011	60.400	60.078	0.300	0.000	0.3	0.38	20.0	Surcharged
Pipe (3)	FEH: 100 years: +20 %: 480 mins: Winter	Pipe	Tank (3)	S1003-A	61.200	61.083	0.300	0.000	0.0	0.01	0.6	Surcharged



Appendix G

InfoDrainage Calculations – Surcharged Outfall

Project: Catchment 9 Surcharged Outfall	Date: 17/02/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Outfall	Fixed Surcharged Level	☐	58.119	
FEH 100 year + 20% : 100 years: +20 %: 120 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 120 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 180 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 180 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 240 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 240 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 360 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 360 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 480 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 480 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 600 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 600 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 720 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 720 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 960 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 960 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 1440 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 1440 mins: Winter			58.119	
FEH 100 year + 20% : 100 years: +20 %: 2160 mins: Summer			58.119	
FEH 100 year + 20% : 100 years: +20 %: 2160 mins: Winter			58.119	

Project: Catchment 9 Surcharged Outfall	Date: 17/02/2026			
	Designed by:	Checked by:	Approved By:	
	CSalt			
Report Title: Rainfall Analysis Criteria	Company Address:			

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

Project: Catchment 9 Surcharged Outfall	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		





FEH 100 year + 20%: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Spur S910-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.50	102.1	215.197
Spur S904-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.30	61.8	130.262
Spur S914	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	2.15	390.1	918.510
Spur S906-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.37	75.4	158.928
Spur S912-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.21	43.6	91.813
Spur S908-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	2.08	376.9	887.309
Spur S905-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	2.01	365.4	860.381
Catchment Area 1	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.01	4.2	8.781
Catchment Area 2	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.02	5.6	11.830
Catchment Area 3	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.02	6.5	13.667
Catchment Area 4	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.03	8.8	18.444
Catchment Area 5	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.03	7.5	15.827

Project: Catchment 9 Surcharged Outfall		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			

Catchment Area 6	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.04	10.5	22.057
Catchment Area 7	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.05	13.6	28.630
Catchment Area 8	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.04	12.3	25.923
Catchment Area 9	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.03	9.0	18.924
Catchment Area 10	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.05	15.6	32.849
Catchment Area 11	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	0.09	25.9	54.708

Project: Catchment 9 Surcharged Outfall	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





FEH 100 year + 20%: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S913	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.650	61.005	61.462	0.457	4.5	0.517	0.000	5.4	8.855	Surcharged
S912	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.900	60.822	61.462	0.640	53.7	0.724	0.000	53.9	112.500	Surcharged
S910	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	63.150	60.567	61.347	0.780	170.9	0.882	0.000	170.6	359.693	Surcharged
S909	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	63.000	60.510	61.158	0.648	178.1	0.733	0.000	177.7	375.501	Surcharged
S908	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.650	60.283	60.904	0.621	563.4	0.702	0.000	559.6	1284.906	Surcharged
S907	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.050	60.214	60.553	0.339	573.2	0.384	0.000	559.8	1313.308	OK
S906	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	61.520	59.445	60.361	0.916	646.5	1.036	0.000	649.4	1498.173	Surcharged
S905	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	61.140	59.080	60.074	0.994	1022.4	1.124	0.000	1022.7	2377.530	Surcharged
S904	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	60.600	58.590	59.739	1.149	1100.0	1.300	0.000	1099.5	2531.760	Surcharged
S903	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	60.950	58.280	59.278	0.998	1125.4	1.129	0.000	1130.9	2569.108	Surcharged
S901	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	59.500	57.408	59.215	1.807	88.8	2.044	0.000	88.8	4185.321	Flood Risk
S914	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	60.000	57.900	59.223	1.323	103.0	1.496	0.000	102.9	1521.460	Surcharged
S902	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	59.900	58.194	59.855	1.661	286.5	4.025	2.095	416.6	4340.213	Flood Risk
Outfall	FEH 100 year + 20%: 100 years: +20 %: 600 mins: Summer	59.000	57.310	58.847	1.537	132.8	1.739	0.000	253.2	3269.920	Flood Risk
S905-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	61.400	59.437	60.162	0.725	365.4	0.820	0.000	365.8	860.305	Surcharged

Project: Catchment 9 Surcharged Outfall		Date: 17/02/2026				
		Designed by: CSalt	Checked by:	Approved By:		
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:				

S908-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	63.00 0	60.50 0	61.080	0.580	376.9	0.656	0.000	377.7	887.309	Surcharged
S912-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	63.40 0	61.00 0	61.511	0.511	43.6	0.578	0.000	43.8	91.814	Surcharged
S910-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	62.50 0	60.80 0	61.378	0.578	102.1	0.654	0.000	101.8	215.224	Surcharged
S906-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	61.50 0	59.69 0	60.378	0.688	75.4	0.778	0.000	74.4	158.959	Surcharged
S904-A	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	60.60 0	59.20 0	59.744	0.544	61.8	0.615	0.000	61.7	130.290	Surcharged

Project: Catchment 9 Surcharged Outfall		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



FEH 100 year + 20%: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Resident Volume

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FEH 100 year + 20%: 100 years: +20 %: 960 mins: Summer	59.222	59.222	1.722	1.722	431.9	3819.477	0.000	0.000	88.8	4254.786	-0.148	Flood Risk

Project: Catchment 9 Surcharged Outfall	Date: 17/02/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase	Company Address:		





FEH 100 year + 20%: 100 years: Increase Rainfall (%): +20: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S913	S912	62.650	61.462	0.300	8.786	0.2	0.05	5.4	Surcharged
2	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S912	S910	62.900	61.462	0.300	112.431	0.8	0.64	53.9	Surcharged
3	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S910	S909	63.150	61.347	0.375	359.693	1.5	1.53	170.6	Surcharged
4	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S909	S908	63.000	61.158	0.375	375.501	1.6	0.93	177.7	Surcharged
5	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S908	S907	62.650	60.904	0.473	1284.906	2.3	1.82	559.6	Surcharged
6	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S907	S906	62.050	60.553	0.600	1313.308	2.4	0.52	559.8	OK
7	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S906	S905	61.520	60.361	0.600	1498.173	2.3	0.76	649.4	Surcharged
8	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S905	S904	61.140	60.074	0.750	2377.530	2.3	0.71	1022.7	Surcharged
9	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S904	S903	60.600	59.739	0.750	2531.583	2.5	1.13	1099.5	Surcharged
10	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S903	S902	60.950	59.278	0.750	2568.569	2.8	1.86	1130.9	Surcharged
11	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S902	Pond	59.900	59.042	0.750	2561.260	2.6	0.34	1134.8	Surcharged

Project: Catchment 9 Surcharged Outfall				Date: 17/02/2026									
				Designed by: CSalt		Checked by:						Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:									

12	FEH 100 year + 20%: 100 years: +20 %: 1440 mins: Winter	Pipe	Pond	S901	59.500	59.160	0.600	5224.896	0.5	0.31	129.9	Surcharged
13	FEH 100 year + 20%: 100 years: +20 %: 600 mins: Winter	Pipe	S901	Outfall	59.500	59.186	0.375	3275.808	1.4	0.98	154.0	Surcharged
14	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S914	Pond	60.000	59.043	0.450	916.643	2.4	0.66	389.6	Surcharged
15	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S905-A	S905	61.400	60.162	0.600	860.305	1.5	0.38	365.8	Surcharged
16	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S908-A	S908	63.000	61.080	0.525	887.309	1.7	0.7	377.7	Surcharged
17	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S912-A	S912	63.400	61.511	0.300	91.814	1.0	0.47	43.8	Surcharged
18	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S910-A	S910	62.500	61.378	0.450	215.224	0.9	0.31	101.8	Surcharged
19	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S906-A	S906	61.500	60.378	0.375	158.959	0.7	0.31	74.4	Surcharged
20	FEH 100 year + 20%: 100 years: +20 %: 120 mins: Summer	Pipe	S904-A	S904	60.600	59.744	0.450	130.290	0.4	0.11	61.7	Surcharged

Project: Catchment 10 Surcharged Outfall	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:		



Flow Options

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

Pipe Options

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

Pipe Size Library

Default

Add. Increment (mm)	75
Max. Diameter (mm)	0

Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

Project: Catchment 10 Surcharged Outfall	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:		



Manhole Options

Apply Offset ☐

Manhole Size Library

Default

Diameter / Width

Connection (mm)	Diameter / Length (m)	Width (m)
0	1.200	0.000
375	1.350	0.000
500	1.500	0.000
750	1.800	0.000

Additional Sizing

Connection (mm)	900
Diameter / Length (m)	0.900
Width (m)	0.000

Depth

Depth (m)	Diameter / Length (m)	Width (m)
0.000	1.050	0.000
1.500	1.200	0.000

Access

Depth (m)	Ladder Protrusion (mm)
0.000	130
3.000	230

Benching Requirements

Landing Width (mm)	500
Benching Width (mm)	225

Project: Catchment 10 Surcharged Outfall	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:		



Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Outfall	Fixed Surcharged Level	☐	59.137	
FEH (20cc) (1) : 100 years: +20 %: 60 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 60 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 120 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 120 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 180 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 180 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 240 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 240 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 360 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 360 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 480 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 480 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 600 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 600 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 720 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 720 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 960 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 960 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 1440 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 1440 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 2160 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 2160 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 2880 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 2880 mins: Winter			59.137	
FEH (20cc) (1) : 100 years: +20 %: 4320 mins: Summer			59.137	
FEH (20cc) (1) : 100 years: +20 %: 4320 mins: Winter			59.137	

Project: Catchment 10 Surcharged Outfall	Date: 26/03/2026			
	Designed by:	Checked by:	Approved By:	
	CSalt			
Report Title: Rainfall Analysis Criteria	Company Address:			

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

Project: Catchment 10 Surcharged Outfall	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase	Company Address:		





Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area 1	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.01	6.0	7.548
Catchment Area 2	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.04	15.7	19.638
Catchment Area 3	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.03	13.2	16.518
Catchment Area 4	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.04	15.0	18.810
Catchment Area 5	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.04	16.3	20.418
Catchment Area 6	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.07	28.7	35.892
Catchment Area 7	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.07	27.6	34.494
Catchment Area 8	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.06	26.1	32.670
Spur S1008-A	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	1.28	370.4	462.970
Spur S1005-A	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	1.85	508.0	670.306
Spur S1003-A	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.10	29.1	36.432
Spur S1011	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	0.63	181.7	227.099

Project: Catchment 10 Surcharged Outfall	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1010	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	62.380	60.550	60.607	0.057	6.0	0.064	0.000	6.1	7.548	OK
S1009	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	62.610	60.383	60.564	0.181	21.8	0.204	0.000	21.1	27.183	OK
S1008	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	62.900	60.041	60.541	0.500	71.1	0.565	0.000	65.9	150.415	Surcharged
S1007	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	63.400	59.975	60.524	0.549	81.0	0.621	0.000	79.2	168.677	Surcharged
S1006	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	63.300	59.907	60.500	0.593	95.5	0.671	0.000	93.7	188.507	Surcharged
S1005	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	63.000	59.829	60.463	0.634	177.8	0.717	0.000	175.9	316.812	Surcharged
S1004	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	62.300	59.727	60.311	0.584	203.5	0.661	0.000	202.6	350.493	Surcharged
S1003	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	62.030	59.691	60.217	0.526	228.7	0.595	0.000	227.1	386.379	Surcharged
S1002	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	61.800	59.487	59.711	0.224	225.8	0.253	0.000	224.7	385.166	OK
S1001	FEH (20cc) (1): 100 years: +20 %: 1440 mins: Summer	60.050	58.825	59.701	0.876	40.7	0.991	0.000	40.7	2651.845	Surcharged
S1011	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	61.000	59.400	60.212	0.812	181.7	0.919	0.000	50.9	255.209	Surcharged
S1005-A	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	63.500	59.900	61.122	1.222	508.0	1.382	0.000	56.2	691.662	Surcharged
S1003-A	FEH (20cc) (1): 100 years: +20 %: 480 mins: Winter	62.400	60.200	61.083	0.883	5.2	0.999	0.000	0.7	75.726	Surcharged
S1008-A	FEH (20cc) (1): 100 years: +20 %: 360 mins: Summer	63.400	60.300	61.056	0.756	125.5	0.855	0.000	46.0	862.709	Surcharged
Outfall	FEH (20cc) (1): 100 years: +20 %: 1440 mins: Summer	59.600	58.600	59.287	0.687	40.7	0.777	0.000	40.7	2650.870	OK

Project: Catchment 10 Surcharged Outfall		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



Critical Storm Per Item: Rank By: Max. Resident Volume

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Basin 10b	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	60.014	59.895	0.507	0.388	227.1	3.533	0.000	0.000	225.8	385.457	80.247	OK
Basin 10a	FEH (20cc) (1): 100 years: +20 %: 1440 mins: Summer	59.704	59.704	0.854	0.854	107.3	993.424	0.000	0.000	40.7	2652.662	9.028	OK
Tank	FEH (20cc) (1): 100 years: +20 %: 720 mins: Summer	60.651	60.651	0.751	0.751	101.3	750.797	0.000	0.000	14.9	266.447	24.920	OK
Tank (1)	FEH (20cc) (1): 100 years: +20 %: 360 mins: Summer	61.057	61.057	0.757	0.757	118.1	453.937	0.000	0.000	15.9	156.298	24.344	OK
Tank (2)	FEH (20cc) (1): 100 years: +20 %: 240 mins: Summer	60.121	60.121	0.721	0.721	67.2	180.289	0.000	0.000	10.9	63.605	27.884	OK
Tank (3)	FEH (20cc) (1): 100 years: +20 %: 480 mins: Winter	61.083	61.083	0.883	0.883	4.6	44.156	0.000	0.000	0.6	16.979	11.689	OK

Project: Catchment 10 Surcharged Outfall		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase		Company Address:			

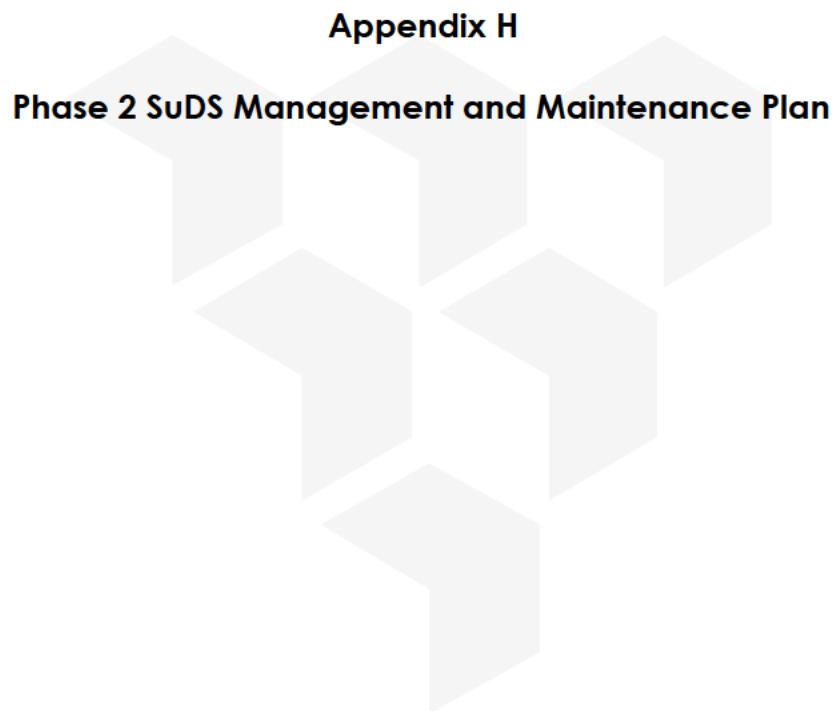


Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1009	S1008	62.610	60.564	0.225	27.183	0.8	0.29	21.1	OK
1	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1010	S1009	62.380	60.607	0.118	7.548	0.6	0.15	6.1	OK
3	FEH (20cc) (1): 100 years: +20 %: 360 mins: Summer	Pipe	S1008-A	S1008	63.400	61.056	0.149	408.686	1.0	0.11	46.0	Surcharged
4	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1008	S1007	62.900	60.541	0.450	150.415	0.7	0.42	65.9	Surcharged
5	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1007	S1006	63.400	60.524	0.450	168.677	0.7	0.5	79.2	Surcharged
6	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1006	S1005	63.300	60.500	0.450	188.507	0.6	0.59	93.7	Surcharged
7	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1005-A	S1005	63.500	61.122	0.450	93.735	0.8	0.31	55.3	Surcharged
8	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1005	S1004	63.000	60.463	0.450	316.812	1.1	1.11	175.9	Surcharged
9	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1004	S1003	62.300	60.311	0.450	350.493	1.3	1.26	202.6	Surcharged
10	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1003	Basin 10b	62.030	60.217	0.450	386.375	1.4	0.93	227.1	Surcharged
11	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	Basin 10b	S1002	61.800	59.960	0.306	385.457	2.0	2.28	225.8	Surcharged
12	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1002	Basin 10a	61.800	59.711	0.316	385.166	1.9	0.38	224.7	OK
13	FEH (20cc) (1): 100 years: +20 %: 60 mins: Summer	Pipe	S1011	Basin 10a	61.000	60.212	0.285	89.846	0.8	0.23	50.9	Surcharged
14	FEH (20cc) (1): 100 years: +20 %: 1440 mins: Summer	Pipe	Basin 10a	S1001	60.050	59.704	0.450	2652.662	0.3	0.17	40.7	Surcharged

Project: Catchment 10 Surcharged Outfall				Date: 26/03/2026									
				Designed by: CSalt		Checked by:						Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase				Company Address:									

15	FEH (20cc) (1): 100 years: +20 %: 1440 mins: Summer	Pipe	S1001	Outfall	60.050	59.701	0.300	2651.475	0.6	0.2	40.7	Surcharged
16	FEH (20cc) (1): 100 years: +20 %: 480 mins: Winter	Pipe	S1003-A	S1003	62.400	61.083	0.115	31.556	0.2	0	0.7	Surcharged
Pipe	FEH (20cc) (1): 100 years: +20 %: 180 mins: Winter	Pipe	Tank	S1005-A	60.900	60.616	0.450	0.000	0.2	0.25	29.5	Surcharged
Pipe (1)	FEH (20cc) (1): 100 years: +20 %: 120 mins: Winter	Pipe	Tank (1)	S1008-A	61.300	61.028	0.450	0.000	0.2	0.25	30.0	Surcharged
Pipe (2)	FEH (20cc) (1): 100 years: +20 %: 60 mins: Winter	Pipe	Tank (2)	S1011	60.400	60.078	0.300	0.000	0.3	0.38	20.0	Surcharged
Pipe (3)	FEH (20cc) (1): 100 years: +20 %: 480 mins: Winter	Pipe	Tank (3)	S1003-A	61.200	61.083	0.300	0.000	0.0	0.01	0.6	Surcharged



Appendix H

Phase 2 SuDS Management and Maintenance Plan

Mowbray, North Horsham, West Sussex (Phase 2)

Phase 2 – SuDS Management and Maintenance Plan

1.0 Site and Drainage Description

- 1.1 The wider Mowbray development at North Horsham is currently under construction with various applications for the approval of reserved matters for individual infrastructure elements and sub-phases, both under consideration and determined.
- 1.2 This SuDS Management and Maintenance Plan relates to the drainage infrastructure proposed as part of Phase 2 of the development.
- 1.3 Surface water run-off generated by the Phase 2 of the development will be discharged to the existing network of watercourses running through and around Phase 2, utilising attenuation provided by basins located across the phase and serving various land parcels.
- 1.4 Foul effluent generated by the residential parcels will be conveyed by gravity sewer networks, which will gravitate flows to the various pump stations proposed.
- 1.5 This plan should be read alongside the accompanying drainage reports for the various applications submitted for individual infrastructure elements and residential parcels located across Phase 2. This SuDS Management and Maintenance Plan does not constitute a complete maintenance schedule and should be developed at the appropriate design stage, taking into account advice and recommendations from system manufacturers and installers. Appropriate health and safety measures should also be put in place.

2.0 Management Responsibilities

- 2.1 The proposed surface water pipe network and associated drainage infrastructure serving the development parcels of Phase 2 are to be adopted by the sewerage undertaker, which will have the responsibility to keep them maintained. There are some exceptions to this where small sections of proposed surface water drainage infrastructure will remain private. The accompanying drainage reports for the various applications submitted for individual infrastructure elements and development parcels should be referred to.
- 2.2 Gullies, gully connections and other surface water drainage infrastructure solely serving highway land are to be adopted by West Sussex County Council (WSCC) in its role as highway authority. Surface water drainage infrastructure adopted by WSCC will be their responsibility to maintain.
- 2.3 Foul water drainage infrastructure constructed as part of Phase 2 and serving the residential parcels are to be adopted by the sewerage undertaker and will have the responsibility to keep them maintained.
- 2.4 All attenuation basins will remain private and be the responsibility of a management company to maintain.

3.0 Maintenance Activities

- 3.1 This section details the type and frequency of maintenance activities for the drainage infrastructure which will be implemented as part of Phase 2 of the Mowbray development.

Conventional Pipe Network / Inspection Chambers / Catchpits / Gullies

- 3.2 Piped network components require regular inspection and maintenance to ensure that the individual components continue to operate as designed, both in terms of hydraulic capacity and potential pollutant removal. All gullies, inspection chambers and catchpits will therefore be inspected and cleaned regularly, with typical maintenance activities detailed in Table 1.

Table 1: Conventional Pipe Network / Inspection Chambers / Gullies – Typical Maintenance Activities

Maintenance Schedule	Maintenance Activity	Inspection Frequency
Regular Maintenance	Inspect and identify any features that are not operating correctly. If required, take remedial action.	Monthly (for first three months), then six monthly
	Remove debris from catchment surface / gratings (where it may cause risk to performance).	Quarterly and after large storms
	Inspect and remove sediment, debris, and silt from gullies, silt traps, and catchpit chambers.	Annually, or as required
	Inspect pipework for blockages, root ingress, displaced joints, or other signs of differential settlement.	Annually, or as required
Remedial Actions	Clear pipework of blockages, root ingress, repair joints or repair other signs of differential settlement.	As required
	Replacement of gullies / pipe system.	As required
	Repair / rehabilitation of gratings, inlets and outlets.	As required
Monitoring	Inspect / check all gratings, manholes, gullies, and catchpits to ensure that they are in good condition and operating as designed.	Annually and after large storm events
Structure Rehabilitation / Repair	Regular maintenance and monitoring to identify if repair and / or replacement of features or pipe system is required.	As required

Attenuation Basin

- 3.3 Attenuation basins are landscaped depressions which surface water is attenuated within prior to being discharged to the network of watercourses running through and around Phase 2 of the Mowbray development. To ensure the effective operation of the basins with limited erosion and silt accumulation, regular inspection and maintenance is required including the typical maintenance activities detailed in Table 2.

Table 2: Attenuation Basins – Typical Maintenance Activities

Maintenance Schedule	Maintenance Activity	Inspection Frequency
Regular Maintenance	Mow grass access paths and verges surrounding basins, at 35mm-50mm minimum and 75mm maximum.	Monthly (during growing season), or as required
	Mow rough grass areas for occasional access or habitat reasons at 100mm and 150mm maximum with cutting removed to wildlife piles.	As required
	Manage other vegetation and remove nuisance plants.	Monthly (for first three months, then as required)
	Inspect for signs of clogging and remove any litter / debris found.	Monthly, or as required
	Inspect and clear inlets, outlets, and overflows of any blockages.	Annually, or as required
	Inspect inlets and pre-treatment systems for silt accumulation; establish appropriate silt removal frequencies.	Monthly (for first year), then annually, or as required
	Inspect banksides for evidence of physical damage and repair as appropriate.	Annually, or as required
	Cut (trim) wetland vegetation at 100mm and remove cuttings.	Annually, or as required
	Reseed areas of poor vegetation growth.	As required
	Prune and trim any trees and remove cuttings.	Every 2 years, or as required
Occasional Maintenance	Where silt accumulates on apron or area in front of inlet or outlet then remove and spread above design profile of SuDS. Where silt accumulates more than 150mm in base of basins undertake a phased removal of silt subject to Client approval. Remove silt but not more than 30% of basin area at any one time and to an agreed depth. Retain as much representative existing vegetation as possible to ensure rapid re-colonisation of open areas. Stack excavated material adjacent to basin to allow dewatering of silt. Undertake silt removal during September-October to minimise damage to protected wildlife and ensure re-growth of aquatic vegetation before winter. Spread excavated material on site above SUDS design profile.	Every 3 years, or as required (likely to be minimal requirements where effective upstream source control is provided)
Remedial Actions	Repair erosion or other damage by reseeding or re-turfing.	As required

Inlet / Outlets / Controls

- 3.4 Headwalls, flow control chambers and outfalls direct the flow in and control the flow rate out of the proposed basins across Phase 2. To prevent surface water exceedance, regular inspection and maintenance of these structures are required to remove potential blockages and ensure the intended design flow rates are achieved. Typical maintenance activities for these structures are included in Table 3.

Table 3: Inlets / Outlets / Flow Control Devices* – Typical Maintenance Activities

Maintenance Schedule	Maintenance Activity	Inspection Frequency
Regular Maintenance	Inspect control chamber and remove any sediment, debris, and silt to ensure water is flowing freely.	Quarterly, or as required
	Inspect chamber and incoming / outgoing pipework for blockage or root ingress.	Six monthly, or as required
	Inspect surface structures for physical damage.	Quarterly, or as required
	Cut (Strim) vegetation 1m minimum from the surround of structures.	Six monthly (spring and autumn)
	Remove debris and silt from hard head wall aprons.	Quarterly, or as required
	Inspect and clear headwall grills.	Quarterly, or as required
	Undertake general inspection after Autumn leaf fall.	Annually
Occasional Maintenance	Check topsoil levels are 20mm above chamber edges to avoid mower damage.	As required
Remedial Actions	Clear chamber and incoming / outgoing pipework of blockages.	As required
	Repair physical damage or replace missing grills or controls.	As required

*Refer to manufacturer's guidance for specific maintenance instructions

Appendix I

Exceedance Flow Route Plan

- NOTES
1. This drawing is to be read in conjunction with all relevant documents and specifications.
 2. Scaleable for planning purposes only.
 3. This drawing has been prepared for information purposes only and must not be used for tender of construction purposes.
 4. Number of road gullies to be confirmed following detailed design.
 5. Number of headwalls and final location to be confirmed following detailed design.
 6. Cover levels are for reference only, refer to the detailed levels drawing for levels.

- KEY
- Application boundary.
 - Proposed surface water sewer.
 - Proposed / existing foul water sewer.
 - Proposed foul / surface water manhole.
 - Proposed flow control chamber with restricted discharge rate.
 - Proposed road gully.
 - Proposed headwall. To be fully dressed in Horsham stone with post and rail cleft fencing surrounding.



P2	Updated to client comment.	08/04/2026	SLS	CS
P1	First Issue	25/03/2026	SLS	CS
Rev.	Descr pt on	Date	By	Chkd

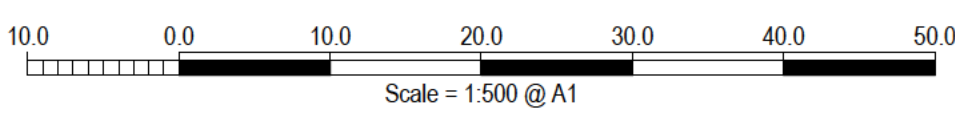
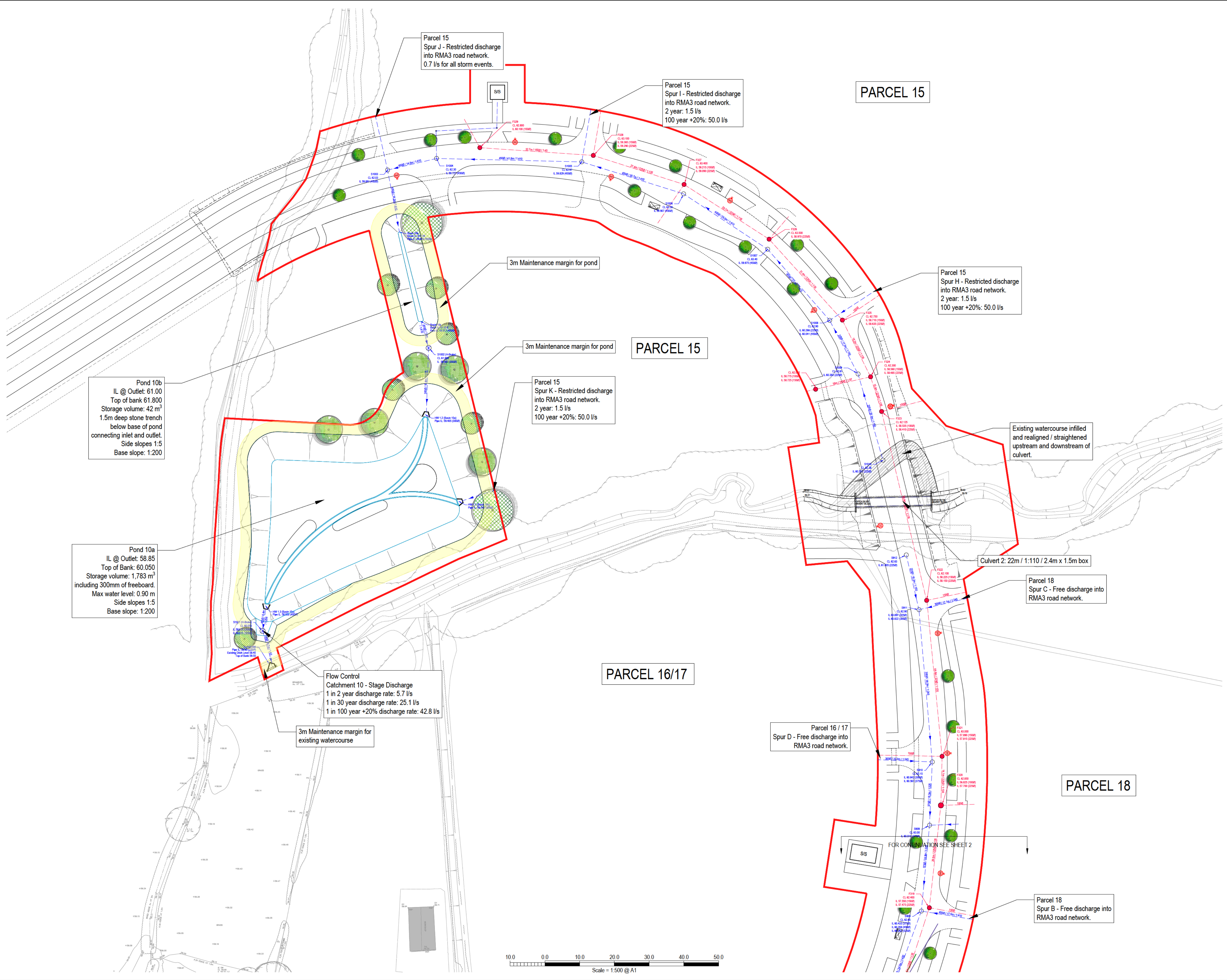
Glanville
Survey > Plan > Engineer

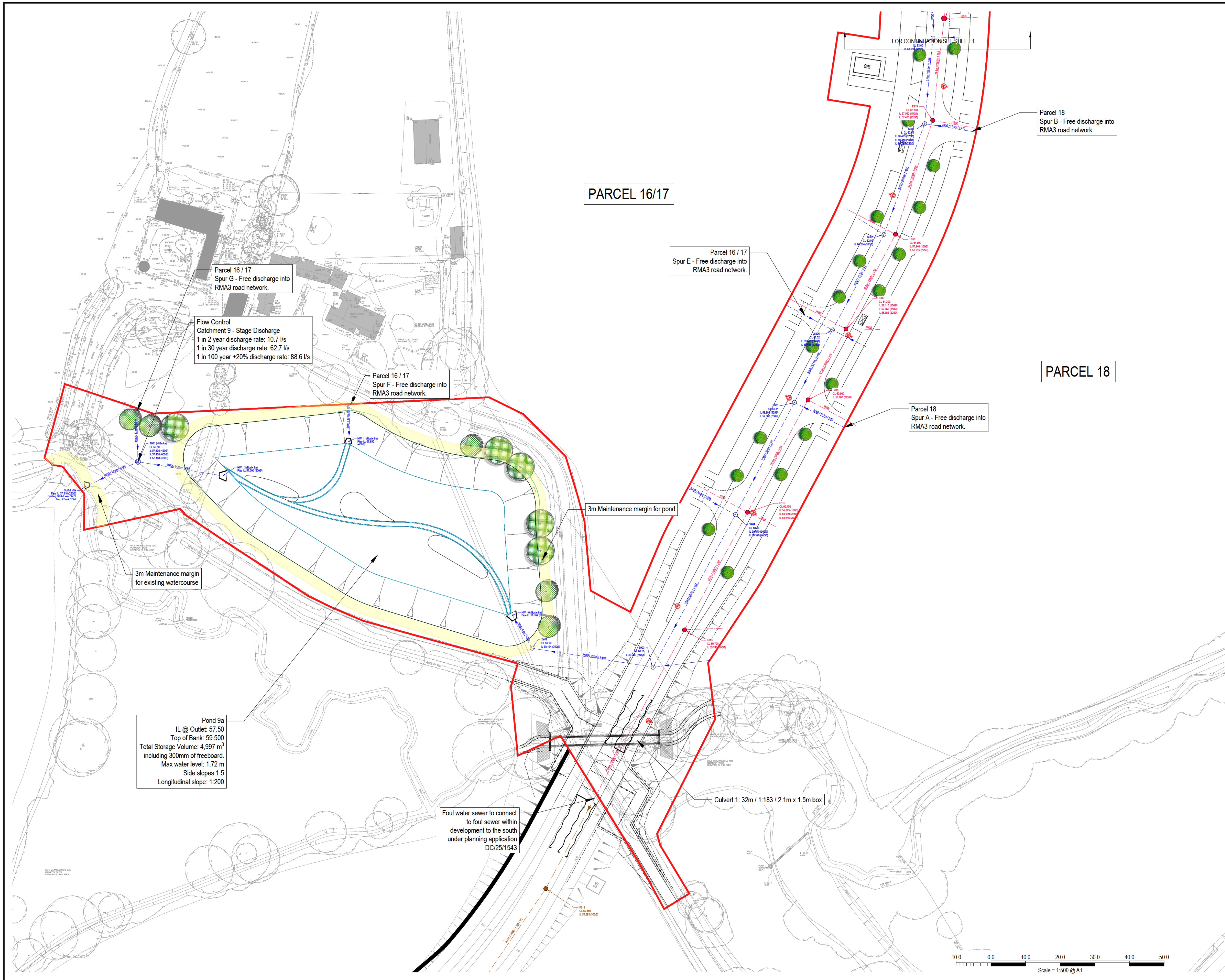
Cv Engineering
Structural Engineering
Transport Planning

Highways Engineering
Building Surveying
Geomatics

Hertfordshire | Oxfordshire | Cambridgeshire | Bristol

Client:	Legal & General (Strategic Land North Horsham) Ltd		
Project:	Mowbray (Land North of Horsham)		
Title:	RMA3 / Sub-Phase 2C Primary Road Drainage Layout - Sheet 1 of 2		
Engineer:	C. Satt	Date:	January 2026
Director:	J. Birch	Scale:	1:500 @ A1
Status:	PLANNING		
Drawing No.	MOW-GLA-RMA3-PH2-1201		Rev P2





- NOTES**
1. This drawing is to be read in conjunction with all relevant documents and specifications.
 2. Scaleable for planning purposes only.
 3. This drawing has been prepared for information purposes only and must not be used for tender of construction purposes.
 4. Number of road gullies to be confirmed following detailed design.
 5. Number of headwalls and final location to be confirmed following detailed design.
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- KEY**
- Application boundary.
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 - Proposed / existing foul water sewer.
 - Proposed foul / surface water manhole.
 - Proposed flow control chamber with restricted discharge rate.
 - Proposed road gully.
 - Proposed headwall. To be fully dressed in Horsham stone with post and rail cleft fencing surrounding.

P2	Updated to client comment.	08/04/2026	SLS	CS
P1	First Issue	25/03/2026	SLS	CS
Rev.	Descr pt on	Date	By	Chkd

Glanville
Survey > Plan > Engineer

Cv Engineering
Structural Engineering
Transport Planning

Highways Engineering
Building Surveying
Geomatics

Hertfordshire | Oxfordshire | Cambridgeshire | Bristol

ent:		Legal & General (Strategic Land North Horsham) Ltd	
project:			
Mowbray (Land North of Horsham)			
tma: RMA3 / Sub-Phase 2C Primary Road Drainage Layout - Sheet 2 of 2			
ngineer: C. Sa t		Date: January 2026	
rector: J. B rich		Sca e: 1:500 @ A1	
tatus: PLANN NG			
rawing No.		Rev	
MOW-GLA-RMA3-PH2-1202		P2	

Appendix J

InfoDrainage Calculations – 1 in 100 year +40% Climate Change Design Event

Project: Catchment 9 Exceedance - 1 in 100 year 40%		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			



FEH 100 year + 40%: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Spur S910-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.50	119.1	251.124
Spur S904-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.30	72.1	152.029
Spur S914	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	2.15	455.1	1071.584
Spur S906-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.37	88.0	185.469
Spur S912-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.21	50.8	107.134
Spur S908-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	2.08	439.7	1035.185
Spur S905-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	2.01	426.4	1003.768
Catchment Area 1	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.01	4.9	10.242
Catchment Area 2	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.02	6.5	13.790
Catchment Area 3	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.02	7.6	15.940
Catchment Area 4	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.03	10.2	21.517
Catchment Area 5	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.03	8.8	18.467

Project: Catchment 9 Exceedance - 1 in 100 year 40%		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			

Catchment Area 6	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.04	12.2	25.725
Catchment Area 7	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.05	15.9	33.422
Catchment Area 8	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.04	14.3	30.264
Catchment Area 9	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.03	10.5	22.093
Catchment Area 10	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.05	18.2	38.315
Catchment Area 11	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	0.09	30.3	63.848

Project: Catchment 9 Exceedance - 1 in 100 year 40%		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:			



FEH 100 year + 40%: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S913	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	62.650	61.005	62.404	1.399	4.9	1.582	0.000	6.5	10.456	Flood Risk
S912	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	62.900	60.822	62.405	1.583	55.3	1.791	0.000	52.9	131.456	Surcharged
S910	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	63.150	60.567	62.331	1.764	183.9	1.995	0.000	179.8	419.740	Surcharged
S909	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	63.000	60.510	62.145	1.635	188.5	1.849	0.000	184.9	438.194	Surcharged
S908	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	62.650	60.283	61.924	1.641	614.6	1.856	0.000	615.5	1499.398	Surcharged
S907	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	62.050	60.214	61.520	1.306	631.3	1.477	0.000	641.4	1532.107	Surcharged
S906	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	61.520	59.445	61.101	1.656	745.6	1.873	0.000	710.9	1746.858	Surcharged
S905	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	61.140	59.080	60.679	1.599	1149.3	1.809	0.000	1193.8	2778.571	Surcharged
S904	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	60.600	58.590	60.191	1.601	1297.2	1.811	0.000	1249.4	2952.321	Surcharged
S903	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	60.950	58.280	59.550	1.270	1279.7	1.437	0.000	1296.8	2995.052	Surcharged
S901	FEH 100 year + 40%: 100 years: +40 %: 960 mins: Summer	59.500	57.408	59.357	1.949	94.2	2.204	0.000	94.2	5096.709	Flood Risk
S914	FEH 100 year + 40%: 100 years: +40 %: 960 mins: Summer	60.000	57.900	59.366	1.466	120.2	1.657	0.000	120.1	1768.710	Surcharged
S902	FEH 100 year + 40%: 100 years: +40 %: 960 mins: Summer	59.900	58.194	59.365	1.171	335.7	1.324	0.000	335.4	4991.144	Surcharged
Outfall	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	59.000	57.310	57.510	0.200	88.6	0.000	0.000	88.6	918.352	OK
S905-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	61.400	59.437	60.778	1.341	426.4	1.517	0.000	428.0	1001.132	Surcharged

Project: Catchment 9 Exceedance - 1 in 100 year 40%		Date: 17/02/2026			
		Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase		Company Address:			

S908-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	63.00 0	60.50 0	62.130	1.630	439.7	1.844	0.000	441.6	1035.138	Surcharged
S912-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	63.40 0	61.00 0	62.454	1.454	50.8	1.644	0.000	47.1	107.153	Surcharged
S910-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	62.50 0	60.80 0	62.373	1.573	119.1	1.779	0.000	114.6	251.079	Flood Risk
S906-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	61.50 0	59.69 0	61.214	1.524	88.0	1.724	0.000	89.8	185.306	Flood Risk
S904-A	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	60.60 0	59.20 0	60.335	1.135	72.1	1.284	0.000	85.2	152.041	Flood Risk

Project: Catchment 9 Exceedance - 1 in 100 year 40%		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



FEH 100 year + 40%: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Resident Volume

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Pond	FEH 100 year + 40%: 100 years: +40 %: 960 mins: Summer	59.364	59.364	1.864	1.864	455.4	4367.741	0.000	0.000	94.2	5101.836	-14.524	Flood Risk

Project: Catchment 9 Exceedance - 1 in 100 year 40%		Date: 17/02/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase		Company Address:			



FEH 100 year + 40%: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
1	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S913	S912	62.650	62.404	0.300	10.266	0.2	0.06	6.5	Flood Risk
2	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S912	S910	62.900	62.405	0.300	131.266	0.7	0.63	52.9	Surcharged
3	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S910	S909	63.150	62.331	0.375	419.740	1.6	1.62	179.8	Surcharged
4	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S909	S908	63.000	62.145	0.375	438.194	1.7	0.97	184.9	Surcharged
5	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S908	S907	62.650	61.924	0.600	1499.398	2.2	2	615.5	Surcharged
6	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S907	S906	62.050	61.520	0.600	1532.107	2.4	0.59	641.4	Surcharged
7	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S906	S905	61.520	61.101	0.600	1746.858	2.5	0.83	710.9	Surcharged
8	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S905	S904	61.140	60.679	0.750	2778.080	2.7	0.83	1193.8	Surcharged
9	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S904	S903	60.600	60.191	0.750	2952.226	2.8	1.29	1249.4	Surcharged
10	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S903	S902	60.950	59.550	0.750	2995.052	2.9	2.14	1296.8	Surcharged
11	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S902	Pond	59.900	59.187	0.750	2986.173	2.9	0.38	1269.2	Surcharged

Project: Catchment 9 Exceedance - 1 in 100 year 40%		Date: 17/02/2026			
		Designed by:	Checked by:		Approved By:
		CSalt			
Report Details: Type: Connections Summary Storm Phase: Phase		Company Address:			

12	FEH 100 year + 40%: 100 years: +40 %: 600 mins: Summer	Pipe	Pond	S901	59.500	59.344	0.600	4034.256	0.4	0.22	94.2	Flood Risk
13	FEH 100 year + 40%: 100 years: +40 %: 720 mins: Winter	Pipe	S901	Outfall	59.500	59.335	0.219	4433.253	1.4	0.6	94.2	Flood Risk
14	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S914	Pond	60.000	59.190	0.450	1069.439	2.9	0.76	454.6	Surch arged
15	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S905-A	S905	61.400	60.778	0.600	1000.641	1.5	0.44	428.0	Surch arged
16	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S908-A	S908	63.000	62.130	0.525	1035.138	2.0	0.82	441.6	Surch arged
17	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S912-A	S912	63.400	62.454	0.300	107.153	1.0	0.51	47.1	Surch arged
18	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S910-A	S910	62.500	62.373	0.450	251.079	0.9	0.35	114.6	Flood Risk
19	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S906-A	S906	61.500	61.214	0.375	185.306	0.8	0.38	89.8	Flood Risk
20	FEH 100 year + 40%: 100 years: +40 %: 120 mins: Summer	Pipe	S904-A	S904	60.600	60.335	0.450	151.946	0.5	0.15	85.2	Flood Risk

Project: Catchment 10 Exceedance - 1 in 100 Year 40%		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase		Company Address:			

Flow Options

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

Pipe Options

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

Pipe Size Library

Default

Add. Increment (mm)	75
Max. Diameter (mm)	0

Diameter (mm)	Min. Slope (1:X)	Max. Slope (1:X)
100	0.00	0.00
150	0.00	0.00

Project: Catchment 10 Exceedance - 1 in 100 Year 40%	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Network Design Criteria Storm Phase: Phase	Company Address:		



Manhole Options

Apply Offset ☐

Manhole Size Library

Default

Diameter / Width

Connection (mm)	Diameter / Length (m)	Width (m)
0	1.200	0.000
375	1.350	0.000
500	1.500	0.000
750	1.800	0.000

Additional Sizing

Connection (mm)	900
Diameter / Length (m)	0.900
Width (m)	0.000

Depth

Depth (m)	Diameter / Length (m)	Width (m)
0.000	1.050	0.000
1.500	1.200	0.000

Access

Depth (m)	Ladder Protrusion (mm)
0.000	130
3.000	230

Benching Requirements

Landing Width (mm)	500
Benching Width (mm)	225

Project: Catchment 10 Exceedance - 1 in 100 Year 40%	Date: 26/03/2026			
	Designed by: CSalt	Checked by:	Approved By:	
Report Details: Type: Outfall Details Storm Phase: Phase	Company Address:			

Outfalls

Outfall	Outfall Type	Gated	Fixed Surcharged Level (m)	Level Curve
Outfall	Free Discharge			

Project: Catchment 10 Exceedance - 1 in 100 Year 40%	Date: 26/03/2026			
	Designed by:	Checked by:	Approved By:	
	CSalt			
Report Title: Rainfall Analysis Criteria	Company Address:			

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

Project: Catchment 10 Exceedance - 1 in 100 Year 40%		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Inflows Summary Storm Phase: Phase		Company Address:			



Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
Catchment Area 1	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.01	7.0	8.796
Catchment Area 2	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.04	18.3	22.908
Catchment Area 3	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.03	15.4	19.266
Catchment Area 4	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.04	17.6	21.948
Catchment Area 5	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.04	19.1	23.814
Catchment Area 6	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.07	33.5	41.868
Catchment Area 7	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.07	32.2	40.242
Catchment Area 8	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.06	30.5	38.118
Spur S1008-A	FEH (40cc): 100 years: +40 %: 60 mins: Summer	1.28	432.1	540.136
Spur S1005-A	FEH (40cc): 100 years: +40 %: 60 mins: Summer	1.85	592.7	782.028
Spur S1003-A	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.10	34.0	42.498
Spur S1011	FEH (40cc): 100 years: +40 %: 60 mins: Summer	0.63	212.0	264.947

Project: Catchment 10 Exceedance - 1 in 100 Year 40%	Date: 26/03/2026		
	Designed by: CSalt	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase	Company Address:		





Critical Storm Per Item: Rank By: Max. Outflow

Junction	Storm Event	Cover Level (m)	Invert Level (m)	Max. Level (m)	Max. Depth (m)	Max. Inflow (L/s)	Max. Resident Volume (m³)	Max. Flooded Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Status
S1010	FEH (40cc): 100 years: +40 %: 60 mins: Summer	62.380	60.550	60.922	0.372	7.0	0.420	0.000	6.8	8.884	Surcharged
S1009	FEH (40cc): 100 years: +40 %: 60 mins: Summer	62.610	60.383	60.917	0.534	25.1	0.604	0.000	24.6	31.774	Surcharged
S1008	FEH (40cc): 100 years: +40 %: 60 mins: Summer	62.900	60.041	60.872	0.831	90.7	0.940	0.000	87.7	222.609	Surcharged
S1007	FEH (40cc): 100 years: +40 %: 60 mins: Summer	63.400	59.975	60.844	0.869	105.2	0.982	0.000	104.4	243.866	Surcharged
S1006	FEH (40cc): 100 years: +40 %: 60 mins: Summer	63.300	59.907	60.803	0.896	123.5	1.013	0.000	122.7	266.944	Surcharged
S1005	FEH (40cc): 100 years: +40 %: 60 mins: Summer	63.000	59.829	60.741	0.912	211.7	1.031	0.000	211.0	469.108	Surcharged
S1004	FEH (40cc): 100 years: +40 %: 60 mins: Summer	62.300	59.727	60.519	0.792	243.2	0.895	0.000	242.6	508.195	Surcharged
S1003	FEH (40cc): 100 years: +40 %: 60 mins: Summer	62.030	59.691	60.381	0.690	273.1	0.780	0.000	272.6	549.588	Surcharged
S1002	FEH (40cc): 100 years: +40 %: 60 mins: Summer	61.800	59.487	59.742	0.255	271.3	0.289	0.000	270.5	547.880	OK
S1001	FEH (40cc): 100 years: +40 %: 1440 mins: Summer	60.050	58.825	59.813	0.988	48.4	1.118	0.000	48.4	3240.299	Flood Risk
S1011	FEH (40cc): 100 years: +40 %: 60 mins: Summer	61.000	59.400	60.438	1.038	212.0	1.174	0.000	53.3	306.484	Surcharged
S1005-A	FEH (40cc): 100 years: +40 %: 60 mins: Summer	63.500	59.900	61.356	1.456	592.7	1.646	0.000	56.2	837.003	Surcharged
S1003-A	FEH (40cc): 100 years: +40 %: 600 mins: Winter	62.400	60.200	61.263	1.063	5.2	1.202	0.000	0.7	95.335	Surcharged
S1008-A	FEH (40cc): 100 years: +40 %: 360 mins: Summer	63.400	60.300	61.146	0.846	146.4	0.957	0.000	51.4	1033.778	Surcharged
Outfall	FEH (40cc): 100 years: +40 %: 1440 mins: Summer	59.600	58.600	58.700	0.100	48.4	0.000	0.000	48.4	3240.257	OK

Project: Catchment 10 Exceedance - 1 in 100 Year 40%		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company Address:			



Critical Storm Per Item: Rank By: Max. Resident Volume

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. Resident Volume (m³)	Max. Flooded Volume (m³)	Total Lost Volume (m³)	Max. Outflow (L/s)	Total Discharge Volume (m³)	Percentage Available (%)	Status
Basin 10b	FEH (40cc): 100 years: +40 %: 60 mins: Summer	60.092	59.982	0.585	0.475	272.6	4.166	0.000	0.000	271.3	548.305	76.709	OK
Basin 10a	FEH (40cc): 100 years: +40 %: 1440 mins: Summer	59.817	59.817	0.967	0.967	135.0	1238.269	0.000	0.000	48.4	3241.081	-13.394	Flood Risk
Tank	FEH (40cc): 100 years: +40 %: 600 mins: Summer	60.735	60.735	0.835	0.835	123.3	835.084	0.000	0.000	26.1	337.510	16.492	OK
Tank (1)	FEH (40cc): 100 years: +40 %: 360 mins: Summer	61.146	61.146	0.846	0.846	123.5	507.845	0.000	0.000	27.1	209.301	15.359	OK
Tank (2)	FEH (40cc): 100 years: +40 %: 180 mins: Summer	60.174	60.174	0.774	0.774	83.2	193.511	0.000	0.000	16.4	71.174	22.596	OK
Tank (3)	FEH (40cc): 100 years: +40 %: 600 mins: Winter	61.263	61.263	1.063	1.063	4.5	53.131	3.131	0.000	0.7	22.790	-6.261	Flood

Project: Catchment 10 Exceedance - 1 in 100 Year 40%		Date: 26/03/2026			
		Designed by: CSalt	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase		Company Address:			



Critical Storm Per Item: Rank By: Max. Flow

Connection	Storm Event	Connection Type	From	To	Upstream Cover Level (m)	Max. US Water Level (m)	Max. Flow Depth (m)	Discharge Volume (m³)	Max. Velocity (m/s)	Flow / Capacity	Max. Flow (L/s)	Status
2	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1009	S1008	62.610	60.917	0.225	31.700	0.8	0.34	24.6	Surcharged
1	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1010	S1009	62.380	60.922	0.225	8.811	0.6	0.16	6.8	Surcharged
3	FEH (40cc): 100 years: +40 %: 360 mins: Summer	Pipe	S1008-A	S1008	63.400	61.146	0.163	525.899	1.0	0.13	51.4	Surcharged
4	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1008	S1007	62.900	60.872	0.450	222.609	0.8	0.55	87.7	Surcharged
5	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1007	S1006	63.400	60.844	0.450	243.866	0.7	0.66	104.4	Surcharged
6	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1006	S1005	63.300	60.803	0.450	266.944	0.8	0.77	122.7	Surcharged
7	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1005-A	S1005	63.500	61.356	0.450	162.203	0.8	0.31	55.6	Surcharged
8	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1005	S1004	63.000	60.741	0.450	469.108	1.3	1.33	211.0	Surcharged
9	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1004	S1003	62.300	60.519	0.450	508.195	1.5	1.52	242.6	Surcharged
10	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1003	Basin 10b	62.030	60.381	0.450	549.469	1.7	1.11	272.6	Surcharged
11	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	Basin 10b	S1002	61.800	60.041	0.365	548.305	2.0	2.74	271.3	Surcharged
12	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1002	Basin 10a	61.800	59.742	0.342	547.880	2.1	0.45	270.5	OK
13	FEH (40cc): 100 years: +40 %: 60 mins: Summer	Pipe	S1011	Basin 10a	61.000	60.438	0.300	126.110	0.9	0.24	53.3	Surcharged
14	FEH (40cc): 100 years: +40 %: 1440 mins: Summer	Pipe	Basin 10a	S1001	60.050	59.817	0.450	3241.081	0.4	0.2	48.4	Flood Risk

Project: Catchment 10 Exceedance - 1 in 100 Year 40%				Date: 26/03/2026									
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15	FEH (40cc): 100 years: +40 %: 1440 mins: Summer	Pipe	S1001	Outfall	60.050	59.813	0.107	3240.257	2.1	0.24	48.4	Flood Risk
16	FEH (40cc): 100 years: +40 %: 600 mins: Winter	Pipe	S1003-A	S1003	62.400	61.263	0.132	42.190	0.2	0	0.7	Surch arged
Pipe	FEH (40cc): 100 years: +40 %: 180 mins: Winter	Pipe	Tank	S1005-A	60.900	60.689	0.450	0.000	0.3	0.35	41.4	Surch arged
Pipe (1)	FEH (40cc): 100 years: +40 %: 120 mins: Winter	Pipe	Tank (1)	S1008-A	61.300	61.108	0.450	0.000	0.3	0.36	42.7	Surch arged
Pipe (2)	FEH (40cc): 100 years: +40 %: 60 mins: Winter	Pipe	Tank (2)	S1011	60.400	60.127	0.300	0.000	0.4	0.48	25.7	Surch arged
Pipe (3)	FEH (40cc): 100 years: +40 %: 600 mins: Winter	Pipe	Tank (3)	S1003-A	61.200	61.263	0.300	0.000	0.0	0.01	0.7	Flood

Appendix K

Southern Water Section 106 Approval Letter



Ms Charlotte Salt
Glanville Consultants Ltd
Cornerstone House
62 Foxhall Road
Didcot
Oxon
OX11 7AD

Your ref

Our ref
PAPER_19451

Date
15 February 2023

Contact

Tel 0330 303 0119

Dear Ms Salt,

Application to Connect to the Public Sewerage System - Section 106.

Location: Mowbray Land North of Horsham, Horsham, West Sussex, RH12 5QR – Consent A.

We are pleased to advise that your Section 106 application to connect to the public foul sewer, as shown on your drawing GLA-S106-ZZ-D-C-1021 Revision P1 dated 12/12/2022, is approved by Southern Water. Our approval means we are satisfied with your connection method.

Connections to existing/new Southern Water assets (i.e., manholes) and the arrangement of Southern Water assets (i.e., pipe junctions within manholes) should always be in accordance with the new Design and Construction Guidance manual ("the Code") and Southern Water's guidance documentation. [water.org.uk/sewerage-sector-guidance-approved-documents/](https://www.water.org.uk/sewerage-sector-guidance-approved-documents/)

This Section 106 approval does not confirm that public sewer network capacity is available at your location for the proposed development. The availability of capacity may be assessed through the Pre-Planning Enquiry process.

Please note that your connection should not proceed if:

- There are unapproved changes to your submitted plan or to the intended connection point. Any unapproved changes may lead to us disconnecting your connection under S109 of the Water Industry Act 1991.
- The relevant Planning Authority has set out conditions relating to the site's drainage and those conditions have not yet been discharged.
- You have not consulted our Health and Safety Advisory that can be viewed at the following link southernwater.co.uk/developing-building/health-and-safety
- You have not obtained the necessary Building Regulations Approvals or, if relevant, obtained a Highway Authority Road Opening License

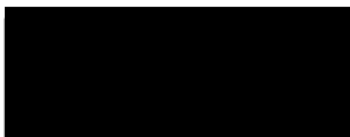
- Landowner consent has not been obtained where your connection is to be made through another Party's land.

What Comes Next?

Now you have received our approval, you will now need to arrange with your contractor to carry out your works on site to connect into our sewer.

Please contact Malcolm Penny our Assistant Adoption Manager for this area on 07922 860784 giving at least two full working days' notice, in order for a mutually convenient date and time for the inspection of the works to be arranged.

Yours sincerely,



Samantha Jenkins
Interim Head of Developer Services
Developer Services



Glanville
Survey > Plan > Engineer