

Project: New Street Leek Proposed dwellings	Date: 16/10/2024		
	Designed by: linda.edwards	Checked by:	Approved By:
Report Details: Type: Inflow Summary Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers		



Inflow Label	Connected To	Flow (L/s)	Runoff Method	Area (ha)	Percentage Impervious (%)	Urban Creep (%)	Adjusted Percentage Impervious (%)	Area Analysed (ha)
Catchment Area	sw1		Time of Concentration	0.016	100	0	100	0.016
Catchment Area (1)	sw2		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (2)	sw3		Time of Concentration	0.014	100	0	100	0.014
Catchment Area (3)	sw4		Time of Concentration	0.015	100	0	100	0.015
Catchment Area (4)	sw2		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (5)	sw5		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (6)	sw6		Time of Concentration	0.012	100	0	100	0.012
Catchment Area (7)	sw30		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (8)	rg31		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (9)	sw22		Time of Concentration	0.010	100	0	100	0.010
Catchment Area (10)	sw21		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (11)	sw20		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (12)	sw9		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (13)	sw20		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (14)	sw50		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (15)	sw51		Time of Concentration	0.009	100	0	100	0.009
Catchment Area (16)	sw58		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (17)	sw53		Time of Concentration	0.011	100	0	100	0.011
Catchment Area (18)	sw54		Time of Concentration	0.007	100	0	100	0.007
Catchment Area (19)	sw59		Time of Concentration	0.013	100	0	100	0.013
Catchment Area (20)	sw60		Time of Concentration	0.006	100	0	100	0.006
Catchment Area (21)	sw62		Time of Concentration	0.005	100	0	100	0.005
Catchment Area (22)	sw61		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (23)	sw63		Time of Concentration	0.002	100	0	100	0.002
Catchment Area (24)	sw64		Time of Concentration	0.013	100	0	100	0.013
Catchment Area (25)	sw65		Time of Concentration	0.008	100	0	100	0.008
Catchment Area (26)	sw56		Time of Concentration	0.016	100	0	100	0.016
TOTAL		0.0		0.241				0.241

Project: New Street Leek Proposed dwellings	Date: 16/10/2024		
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Report Details: Type: Network Design Criteria Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers		

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	Slopes and Soffit Levels
Design Options	Minimise Excavation
Limit Pipe Full Conditions (%)	75
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

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

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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
Prefill Manhole Sumps	☒
Perform No Discharge Analysis	☐

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Report Details: Type: Inflows Summary Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers			



FSR: 1 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	FSR: 1 years: +0 %: 15 mins: Winter	0.02	1.9	0.894
Catchment Area (1)	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.6	0.258
Catchment Area (2)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.7	0.774
Catchment Area (3)	FSR: 1 years: +0 %: 15 mins: Winter	0.02	1.9	0.879
Catchment Area (4)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.3	0.585
Catchment Area (5)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.7	0.345
Catchment Area (6)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.4	0.654
Catchment Area (7)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.1	0.519
Catchment Area (8)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.2	0.564
Catchment Area (9)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.2	0.552
Catchment Area (11)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.9	0.411
Catchment Area (12)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.8	0.393
Catchment Area (10)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.9	0.417
Catchment Area (13)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.8	0.357
Catchment Area (14)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.1	0.513
Catchment Area (15)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.1	0.510
Catchment Area (16)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.8	0.375
Catchment Area (17)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.3	0.603
Catchment Area (18)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.8	0.381
Catchment Area (19)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.6	0.756
Catchment Area (20)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.8	0.354

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Catchment Area (21)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	0.6	0.291
Catchment Area (22)	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.3	0.123
Catchment Area (23)	FSR: 1 years: +0 %: 15 mins: Winter	0.00	0.2	0.108
Catchment Area (24)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.6	0.720
Catchment Area (25)	FSR: 1 years: +0 %: 15 mins: Winter	0.01	1.0	0.450
Catchment Area (26)	FSR: 1 years: +0 %: 15 mins: Winter	0.02	1.9	0.894

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FSR: 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	FSR: 30 years: +0 %: 15 mins: Winter	0.02	4.7	2.193
Catchment Area (1)	FSR: 30 years: +0 %: 15 mins: Winter	0.00	1.4	0.633
Catchment Area (2)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	4.1	1.899
Catchment Area (3)	FSR: 30 years: +0 %: 15 mins: Winter	0.02	4.6	2.154
Catchment Area (4)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	3.1	1.437
Catchment Area (5)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	1.8	0.843
Catchment Area (6)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	3.5	1.596
Catchment Area (7)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.8	1.275
Catchment Area (8)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	3.0	1.377
Catchment Area (9)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.9	1.356
Catchment Area (11)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.2	0.999
Catchment Area (12)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.1	0.960
Catchment Area (10)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.2	1.026
Catchment Area (13)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	1.9	0.861
Catchment Area (14)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.7	1.248
Catchment Area (15)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.7	1.236
Catchment Area (16)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.0	0.912
Catchment Area (17)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	3.2	1.476
Catchment Area (18)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.0	0.930
Catchment Area (19)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	4.0	1.851
Catchment Area (20)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	1.9	0.861

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Catchment Area (21)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	1.5	0.717
Catchment Area (22)	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.6	0.303
Catchment Area (23)	FSR: 30 years: +0 %: 15 mins: Winter	0.00	0.6	0.270
Catchment Area (24)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	3.8	1.764
Catchment Area (25)	FSR: 30 years: +0 %: 15 mins: Winter	0.01	2.4	1.101
Catchment Area (26)	FSR: 30 years: +0 %: 15 mins: Winter	0.02	4.7	2.193

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FSR: 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)
Catchment Area	FSR: 100 years: +40 %: 15 mins: Winter	0.02	8.6	3.966
Catchment Area (1)	FSR: 100 years: +40 %: 15 mins: Winter	0.00	2.5	1.146
Catchment Area (2)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	7.4	3.429
Catchment Area (3)	FSR: 100 years: +40 %: 15 mins: Winter	0.02	8.4	3.891
Catchment Area (4)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	5.6	2.592
Catchment Area (5)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	3.3	1.527
Catchment Area (6)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	6.2	2.892
Catchment Area (7)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	5.0	2.310
Catchment Area (8)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	5.4	2.496
Catchment Area (9)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	5.3	2.451
Catchment Area (11)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	3.9	1.812
Catchment Area (12)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	3.8	1.734
Catchment Area (10)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	4.0	1.854
Catchment Area (13)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	3.4	1.563
Catchment Area (14)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	4.9	2.259
Catchment Area (15)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	4.8	2.241
Catchment Area (16)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	3.6	1.650
Catchment Area (17)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	5.8	2.673
Catchment Area (18)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	3.6	1.683
Catchment Area (19)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	7.2	3.345
Catchment Area (20)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	3.4	1.560

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Catchment Area (21)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	2.8	1.290
Catchment Area (22)	FSR: 100 years: +40 %: 15 mins: Winter	0.00	1.2	0.546
Catchment Area (23)	FSR: 100 years: +40 %: 15 mins: Winter	0.00	1.1	0.486
Catchment Area (24)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	6.9	3.186
Catchment Area (25)	FSR: 100 years: +40 %: 15 mins: Winter	0.01	4.3	1.992
Catchment Area (26)	FSR: 100 years: +40 %: 15 mins: Winter	0.02	8.6	3.963

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FSR: 1 years: Increase Rainfall (%): +0: Critical Storm Per Item: Rank By: Max. Depth

Project: New Street Leek Proposed dwellings	Date: 16/10/2024		
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Report Details: Type: Junctions Summary Storm Phase: Phase		Company: ABA Consulting Consulting Civil & Structural Engineers	



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)	Status
sw1	FSR: 1 years: +0 %: 15 mins: Winter	185.28 0	184.53 0	184.86 2	0.332	1.9	0.375	0.000	1.9	OK
sw2	FSR: 1 years: +0 %: 15 mins: Winter	185.90 0	184.75 0	184.80 1	0.051	3.7	0.057	0.000	3.6	OK
sw3	FSR: 1 years: +0 %: 120 mins: Winter	186.25 0	183.65 0	183.82 5	0.175	1.5	0.198	0.000	1.5	OK
sw4	FSR: 1 years: +0 %: 120 mins: Winter	186.50 0	183.45 0	183.82 5	0.375	2.1	0.424	0.000	1.2	Surcharged
sw6	FSR: 1 years: +0 %: 15 mins: Winter	186.85 0	185.60 0	185.62 5	0.025	1.4	0.007	0.000	1.4	OK
sw5	FSR: 1 years: +0 %: 120 mins: Winter	186.87 0	182.87 5	183.82 5	0.950	1.7	1.679	0.000	0.9	Surcharged
sw7	FSR: 1 years: +0 %: 120 mins: Winter	184.25 0	183.00 0	183.01 1	0.011	0.9	0.012	0.000	0.9	OK
sw8	FSR: 1 years: +0 %: 120 mins: Winter	176.78 0	174.75 0	175.06 0	0.310	0.9	0.351	0.000	0.9	OK
sw9	FSR: 1 years: +0 %: 240 mins: Winter	176.40 0	173.62 5	174.18 6	0.561	2.5	0.992	0.000	1.5	OK
sw10	FSR: 1 years: +0 %: 240 mins: Winter	176.70 0	172.70 0	172.71 5	0.015	1.5	0.000	0.000	1.5	OK
sw20	FSR: 1 years: +0 %: 15 mins: Winter	177.70 0	176.80 0	176.82 8	0.028	1.7	0.005	0.000	1.6	OK
sw21	FSR: 1 years: +0 %: 15 mins: Winter	177.65 0	176.50 0	176.51 9	0.019	2.5	0.003	0.000	2.5	OK
sw22	FSR: 1 years: +0 %: 240 mins: Winter	176.42 5	174.10 6	174.18 6	0.086	1.5	0.098	0.000	1.5	OK
sw30	FSR: 1 years: +0 %: 15 mins: Winter	176.00 0	175.00 0	175.01 6	0.016	1.1	0.003	0.000	1.1	OK
sw32	FSR: 1 years: +0 %: 15 mins: Winter	176.00 0	174.60 0	174.62 1	0.021	2.3	0.024	0.000	2.2	OK
rg31	FSR: 1 years: +0 %: 15 mins: Winter	175.65 0	175.05 0	175.06 8	0.018	1.2	0.003	0.000	1.2	OK
sw50	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	187.50 0	187.52 6	0.026	1.1	0.004	0.000	1.1	OK
sw51	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	187.40 0	187.43 5	0.035	2.2	0.006	0.000	2.1	OK
sw52	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	187.30 0	187.34 2	0.042	2.1	0.007	0.000	2.0	OK
sw53	FSR: 1 years: +0 %: 15 mins: Winter	188.15 0	187.55 0	187.57 7	0.027	1.3	0.004	0.000	1.3	OK
sw54	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	187.30 0	187.32 8	0.028	2.1	0.005	0.000	2.0	OK
sw55	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	187.20 0	187.24 7	0.047	4.0	0.053	0.000	3.8	OK
sw56	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	186.60 0	186.64 5	0.045	5.2	0.051	0.000	5.0	OK
sw57	FSR: 1 years: +0 %: 30 mins: Winter	188.15 0	185.80 0	186.52 1	0.721	4.3	0.815	0.000	3.0	Surcharged
sw58	FSR: 1 years: +0 %: 15 mins: Winter	188.15 0	186.20 0	186.21 3	0.013	0.8	0.002	0.000	0.8	OK
sw59	FSR: 1 years: +0 %: 15 mins: Winter	188.15 0	185.70 0	185.74 4	0.044	4.0	0.049	0.000	3.8	OK
sw60	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	187.50 0	187.51 9	0.019	0.8	0.003	0.000	0.7	OK
sw61	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	187.35 0	187.36 2	0.012	1.0	0.002	0.000	1.0	OK
sw62	FSR: 1 years: +0 %: 15 mins: Winter	188.10 0	187.50 0	187.50 9	0.009	0.6	0.001	0.000	0.6	OK
sw63	FSR: 1 years: +0 %: 15 mins: Winter	188.18 0	186.00 0	186.01 6	0.016	1.8	0.003	0.000	1.8	OK
sw64	FSR: 1 years: +0 %: 60 mins: Winter	188.25 0	185.50 0	185.73 2	0.232	5.7	0.262	0.000	3.2	Surcharged
sw65	FSR: 1 years: +0 %: 60 mins: Winter	187.65 0	184.80 0	185.73 2	0.932	3.5	1.054	0.000	1.8	Surcharged
swextg	FSR: 1 years: +0 %: 60 mins: Winter	187.43 0	183.93 0	183.94 7	0.017	1.8	0.000	0.000	1.8	OK

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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)	Status
sw1	FSR: 30 years: +0 %: 15 mins: Winter	185.28 0	184.53 0	184.88 1	0.351	4.7	0.397	0.000	4.6	OK
sw2	FSR: 30 years: +0 %: 15 mins: Winter	185.90 0	184.75 0	184.83 6	0.086	9.1	0.097	0.000	8.8	OK
sw3	FSR: 30 years: +0 %: 240 mins: Winter	186.25 0	183.65 0	184.20 6	0.556	1.8	0.629	0.000	1.0	Surcharged
sw4	FSR: 30 years: +0 %: 240 mins: Winter	186.50 0	183.45 0	184.20 6	0.756	1.3	0.855	0.000	1.0	Surcharged
sw6	FSR: 30 years: +0 %: 15 mins: Winter	186.85 0	185.60 0	185.64 1	0.041	3.5	0.012	0.000	3.4	OK
sw5	FSR: 30 years: +0 %: 240 mins: Winter	186.87 0	182.87 5	184.20 6	1.331	1.2	2.352	0.000	1.1	Surcharged
sw7	FSR: 30 years: +0 %: 240 mins: Winter	184.25 0	183.00 0	183.01 2	0.012	1.1	0.013	0.000	1.1	OK
sw8	FSR: 30 years: +0 %: 240 mins: Winter	176.78 0	174.75 0	175.06 2	0.312	1.1	0.353	0.000	1.1	OK
sw9	FSR: 30 years: +0 %: 360 mins: Winter	176.40 0	173.62 5	174.57 4	0.949	3.7	1.677	0.000	1.5	Surcharged
sw10	FSR: 30 years: +0 %: 15 mins: Winter	176.70 0	172.70 0	172.71 5	0.015	1.5	0.000	0.000	1.5	OK
sw20	FSR: 30 years: +0 %: 15 mins: Winter	177.70 0	176.80 0	176.84 5	0.045	4.0	0.007	0.000	4.0	OK
sw21	FSR: 30 years: +0 %: 15 mins: Winter	177.65 0	176.50 0	176.52 9	0.029	6.2	0.005	0.000	6.1	OK
sw22	FSR: 30 years: +0 %: 360 mins: Winter	176.42 5	174.10 4	174.57 4	0.474	2.5	0.536	0.000	2.4	Surcharged
sw30	FSR: 30 years: +0 %: 15 mins: Winter	176.00 0	175.00 0	175.02 5	0.025	2.8	0.004	0.000	2.7	OK
sw32	FSR: 30 years: +0 %: 15 mins: Winter	176.00 0	174.60 0	174.63 2	0.032	5.7	0.037	0.000	5.6	OK
rg31	FSR: 30 years: +0 %: 15 mins: Winter	175.65 0	175.05 0	175.07 8	0.028	3.0	0.004	0.000	2.9	OK
sw50	FSR: 30 years: +0 %: 15 mins: Winter	188.10 0	187.50 0	187.54 0	0.040	2.7	0.006	0.000	2.6	OK
sw51	FSR: 30 years: +0 %: 15 mins: Winter	188.10 0	187.40 0	187.45 8	0.058	5.3	0.009	0.000	5.2	OK
sw52	FSR: 30 years: +0 %: 15 mins: Winter	188.10 0	187.30 0	187.37 0	0.070	5.2	0.011	0.000	5.0	OK
sw53	FSR: 30 years: +0 %: 15 mins: Winter	188.15 0	187.55 0	187.59 3	0.043	3.2	0.007	0.000	3.1	OK
sw54	FSR: 30 years: +0 %: 15 mins: Winter	188.10 0	187.30 0	187.34 9	0.049	5.1	0.008	0.000	4.9	OK
sw55	FSR: 30 years: +0 %: 15 mins: Winter	188.10 0	187.20 0	187.27 6	0.076	9.9	0.086	0.000	9.6	OK
sw56	FSR: 30 years: +0 %: 60 mins: Winter	188.10 0	186.60 0	186.80 8	0.208	7.7	0.235	0.000	7.9	OK
sw57	FSR: 30 years: +0 %: 60 mins: Winter	188.15 0	185.80 0	186.80 7	1.007	4.7	1.139	0.000	3.4	Surcharged
sw58	FSR: 30 years: +0 %: 120 mins: Winter	188.15 0	186.20 0	186.29 2	0.092	0.7	0.015	0.000	0.7	OK
sw59	FSR: 30 years: +0 %: 120 mins: Winter	188.15 0	185.70 0	186.29 2	0.592	5.4	0.669	0.000	4.9	Surcharged
sw60	FSR: 30 years: +0 %: 15 mins: Winter	188.10 0	187.50 0	187.53 0	0.030	1.9	0.005	0.000	1.8	OK
sw61	FSR: 30 years: +0 %: 15 mins: Winter	188.10 0	187.35 0	187.36 9	0.019	2.5	0.003	0.000	2.4	OK
sw62	FSR: 30 years: +0 %: 15 mins: Winter	188.10 0	187.50 0	187.51 4	0.014	1.5	0.002	0.000	1.5	OK
sw63	FSR: 30 years: +0 %: 120 mins: Winter	188.18 0	186.00 0	186.29 0	0.290	1.7	0.046	0.000	1.7	Surcharged
sw64	FSR: 30 years: +0 %: 120 mins: Winter	188.25 0	185.50 0	186.29 0	0.790	7.6	0.893	0.000	2.7	Surcharged
sw65	FSR: 30 years: +0 %: 120 mins: Winter	187.65 0	184.80 0	186.28 9	1.489	2.9	1.685	0.000	2.2	Surcharged
swextg	FSR: 30 years: +0 %: 120 mins: Winter	187.43 0	183.93 0	183.94 8	0.018	2.2	0.000	0.000	2.2	OK

Project: New Street Leek Proposed dwellings	Date: 16/10/2024			
	Designed by: linda.edwards	Checked by:	Approved By:	
Report Details: Type: Junctions Summary Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers			



FSR: 100 years: Increase Rainfall (%): +40: Critical Storm Per Item: Rank By: Max. Depth

Project: New Street Leek Proposed dwellings	Date: 16/10/2024		
	Designed by: linda.edwards	Checked by:	Approved By:
Report Details: Type: Junctions Summary Storm Phase: Phase		Company: ABA Consulting Consulting Civil & Structural Engineers	



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)	Status
sw1	FSR: 100 years: +40 %: 15 mins: Winter	185.28 0	184.53 0	184.90 7	0.377	8.6	0.426	0.000	8.3	OK
sw2	FSR: 100 years: +40 %: 15 mins: Winter	185.90 0	184.75 0	184.88 1	0.131	16.4	0.149	0.000	15.8	OK
sw3	FSR: 100 years: +40 %: 240 mins: Winter	186.25 0	183.65 0	184.86 0	1.210	3.9	1.369	0.000	1.3	Surcharged
sw4	FSR: 100 years: +40 %: 240 mins: Winter	186.50 0	183.45 0	184.86 0	1.410	2.5	1.595	0.000	1.3	Surcharged
sw6	FSR: 100 years: +40 %: 15 mins: Winter	186.85 0	185.60 0	185.65 7	0.057	6.2	0.016	0.000	6.2	OK
sw5	FSR: 100 years: +40 %: 240 mins: Winter	186.87 0	182.87 5	184.86 0	1.985	2.2	3.507	0.000	1.4	Surcharged
sw7	FSR: 100 years: +40 %: 360 mins: Winter	184.25 0	183.00 0	183.01 3	0.013	1.4	0.015	0.000	1.4	OK
sw8	FSR: 100 years: +40 %: 480 mins: Winter	176.78 0	174.75 0	175.12 7	0.377	1.4	0.426	0.000	1.4	OK
sw9	FSR: 100 years: +40 %: 480 mins: Winter	176.40 0	173.62 5	175.12 6	1.501	5.3	2.653	0.000	1.7	Surcharged
sw10	FSR: 100 years: +40 %: 480 mins: Winter	176.70 0	172.70 0	172.71 6	0.016	1.7	0.000	0.000	1.7	OK
sw20	FSR: 100 years: +40 %: 15 mins: Winter	177.70 0	176.80 0	176.86 1	0.061	7.3	0.010	0.000	7.2	OK
sw21	FSR: 100 years: +40 %: 15 mins: Winter	177.65 0	176.50 0	176.54 0	0.040	11.2	0.006	0.000	11.1	OK
sw22	FSR: 100 years: +40 %: 480 mins: Winter	176.42 5	174.10 0	175.12 6	1.026	3.7	1.161	0.000	3.6	Surcharged
sw30	FSR: 100 years: +40 %: 480 mins: Winter	176.00 0	175.00 0	175.12 6	0.126	0.7	0.020	0.000	0.7	OK
sw32	FSR: 100 years: +40 %: 480 mins: Winter	176.00 0	174.60 0	175.12 6	0.526	1.4	0.595	0.000	1.4	Surcharged
rg31	FSR: 100 years: +40 %: 480 mins: Winter	175.65 0	175.05 0	175.12 6	0.076	0.8	0.012	0.000	0.7	OK
sw50	FSR: 100 years: +40 %: 15 mins: Winter	188.10 0	187.50 0	187.55 5	0.055	4.9	0.009	0.000	4.8	OK
sw51	FSR: 100 years: +40 %: 15 mins: Winter	188.10 0	187.40 0	187.48 4	0.084	9.6	0.013	0.000	9.4	OK
sw52	FSR: 100 years: +40 %: 15 mins: Winter	188.10 0	187.30 0	187.40 1	0.101	9.4	0.016	0.000	9.2	OK
sw53	FSR: 100 years: +40 %: 15 mins: Winter	188.15 0	187.55 0	187.60 9	0.059	5.8	0.009	0.000	5.6	OK
sw54	FSR: 100 years: +40 %: 15 mins: Winter	188.10 0	187.30 0	187.37 2	0.072	9.3	0.011	0.000	9.0	OK
sw55	FSR: 100 years: +40 %: 15 mins: Winter	188.10 0	187.20 0	187.30 8	0.108	18.1	0.122	0.000	17.6	OK
sw56	FSR: 100 years: +40 %: 120 mins: Winter	188.10 0	186.60 0	187.28 2	0.682	7.1	0.771	0.000	6.6	Surcharged
sw57	FSR: 100 years: +40 %: 120 mins: Winter	188.15 0	185.80 0	187.28 1	1.481	3.8	1.675	0.000	3.2	Surcharged
sw58	FSR: 100 years: +40 %: 240 mins: Winter	188.15 0	186.20 0	187.01 0	0.810	0.8	0.129	0.000	0.8	Surcharged
sw59	FSR: 100 years: +40 %: 240 mins: Winter	188.15 0	185.70 0	187.01 0	1.310	4.8	1.481	0.000	4.4	Surcharged
sw60	FSR: 100 years: +40 %: 15 mins: Winter	188.10 0	187.50 0	187.54 0	0.040	3.4	0.006	0.000	3.3	OK
sw61	FSR: 100 years: +40 %: 15 mins: Winter	188.10 0	187.35 0	187.37 5	0.025	4.5	0.004	0.000	4.5	OK
sw62	FSR: 100 years: +40 %: 15 mins: Winter	188.10 0	187.50 0	187.51 9	0.019	2.8	0.003	0.000	2.8	OK
sw63	FSR: 100 years: +40 %: 240 mins: Winter	188.18 0	186.00 0	187.00 9	1.009	1.9	0.160	0.000	1.6	Surcharged
sw64	FSR: 100 years: +40 %: 240 mins: Winter	188.25 0	185.50 0	187.00 9	1.509	7.4	1.706	0.000	2.2	Surcharged
sw65	FSR: 100 years: +40 %: 240 mins: Winter	187.65 0	184.80 0	187.00 8	2.208	2.5	2.498	0.000	2.2	Surcharged
swextg	FSR: 100 years: +40 %: 30 mins: Summer	187.43 0	183.93 0	183.94 8	0.018	2.2	0.000	0.000	2.2	OK

Project: New Street Leek Proposed dwellings		Date: 16/10/2024			
		Designed by: linda.edwards	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company: ABA Consulting Consulting Civil & Structural Engineers			



FSR: 1 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
Cellular Storage NORTH 1	FSR: 1 years: +0 %: 120 mins: Winter	183.825	183.825	0.125	0.125	2.3	3.570	0.000	0.000	1.0	4.974	89.859	OK
Cellular Storage NORTH 2	FSR: 1 years: +0 %: 240 mins: Winter	174.186	174.186	0.136	0.136	1.0	4.018	0.000	0.000	0.5	3.986	91.658	OK
Cellular Storage NORTH 3	FSR: 1 years: +0 %: 15 mins: Summer	174.600	174.600	0.000	0.000	0.0	0.000	0.000	0.000	0.0	0.000	100.000	OK
Cellular Storage SOUTH 1	FSR: 1 years: +0 %: 15 mins: Winter	186.687	186.687	0.037	0.037	3.8	0.284	0.000	0.000	3.2	1.950	95.775	OK
Cellular Storage SOUTH 2	FSR: 1 years: +0 %: 60 mins: Winter	185.732	185.732	0.182	0.182	4.4	3.459	0.000	0.000	1.3	3.355	89.002	OK
Cellular Storage-SOUTH 1A	FSR: 1 years: +0 %: 15 mins: Winter	186.524	186.524	0.024	0.024	5.0	0.191	0.000	0.000	4.7	2.804	97.352	OK

Project: New Street Leek Proposed dwellings		Date: 16/10/2024			
		Designed by: linda.edwards	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company: ABA Consulting Consulting Civil & Structural Engineers			



FSR: 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
Cellular Storage NORTH 1	FSR: 30 years: +0 %: 240 mins: Winter	184.206	184.206	0.506	0.506	3.8	14.432	0.000	0.000	0.9	15.324	59.001	OK
Cellular Storage NORTH 2	FSR: 30 years: +0 %: 360 mins: Winter	174.574	174.574	0.524	0.524	2.0	15.432	0.000	0.000	1.2	12.239	67.963	OK
Cellular Storage NORTH 3	FSR: 30 years: +0 %: 15 mins: Summer	174.600	174.600	0.000	0.000	0.0	0.000	0.000	0.000	0.0	0.000	100.000	OK
Cellular Storage SOUTH 1	FSR: 30 years: +0 %: 60 mins: Winter	186.808	186.808	0.158	0.158	5.6	1.199	0.000	0.000	5.2	8.738	82.187	OK
Cellular Storage SOUTH 2	FSR: 30 years: +0 %: 120 mins: Winter	186.290	186.290	0.740	0.740	5.9	14.056	0.000	0.000	1.5	9.606	55.307	OK
Cellular Storage-SOUTH 1A	FSR: 30 years: +0 %: 60 mins: Winter	186.807	186.807	0.307	0.307	7.9	2.457	0.000	0.000	4.7	12.639	65.871	OK

Project: New Street Leek Proposed dwellings		Date: 16/10/2024			
		Designed by: linda.edwards	Checked by:		Approved By:
Report Details: Type: Stormwater Controls Summary Storm Phase: Phase		Company: ABA Consulting Consulting Civil & Structural Engineers			



FSR: 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
Cellular Storage NORTH 1	FSR: 100 years: +40 %: 240 mins: Winter	184.860	184.860	1.160	1.160	7.3	33.063	0.000	0.000	1.2	18.681	6.072	OK
Cellular Storage NORTH 2	FSR: 100 years: +40 %: 480 mins: Winter	175.126	175.126	1.076	1.076	3.8	31.699	0.000	0.000	0.5	10.348	34.193	OK
Cellular Storage NORTH 3	FSR: 100 years: +40 %: 480 mins: Winter	175.126	175.126	0.526	0.526	0.4	2.000	0.000	0.000	0.1	1.335	47.911	OK
Cellular Storage SOUTH 1	FSR: 100 years: +40 %: 120 mins: Winter	187.282	187.282	0.632	0.632	7.0	4.803	0.000	0.000	4.6	19.823	28.639	OK
Cellular Storage SOUTH 2	FSR: 100 years: +40 %: 240 mins: Winter	187.009	187.009	1.459	1.459	5.6	27.715	0.000	0.000	1.5	15.316	11.875	OK
Cellular Storage-SOUTH 1A	FSR: 100 years: +40 %: 120 mins: Winter	187.282	187.282	0.782	0.782	6.6	6.253	0.000	0.000	3.8	26.892	13.156	OK

Project: New Street Leek Proposed dwellings	Date: 16/10/2024			
	Designed by: linda.edwards	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers			



FSR: 1 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
1.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw1	sw2	185.280	184.862	0.041	0.893	0.5	0.1	1.9	OK
1.001	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw2	Cellular Storage NORTH 1	185.900	184.801	0.048	1.733	0.7	0.2	3.6	OK
1.003	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw3	sw4	186.250	183.754	0.204	1.127	0.4	0.04	2.6	OK
1.002	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Cellular Storage NORTH 1	sw3	185.900	183.810	0.135	2.339	0.5	0.02	1.3	OK
1.004	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	sw4	sw5	186.500	183.784	0.225	2.263	0.2	0.02	1.6	Surcharged
2.000	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw6	sw5	186.850	185.625	0.025	0.653	0.7	0.05	1.4	OK
1.005	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	sw5	sw7	186.870	183.825	0.015	9.953	0.9	0.03	0.9	Surcharged
1.006	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	sw7	sw8	184.250	183.011	0.010	9.921	1.6	0.01	0.9	OK
1.007	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	sw8	sw9	176.780	175.060	0.098	9.909	0.2	0.01	0.9	OK
1.008	FSR: 1 years: +0 %: 240 mins: Winter	Pipe	sw9	sw10	176.400	174.186	0.015	23.393	1.3	0.01	1.5	OK
Pipe	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw20	sw21	177.700	176.828	0.024	0.767	0.9	0.07	1.6	OK
Pipe (1)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw21	sw22	177.650	176.519	0.018	1.183	2.0	0.03	2.5	OK
Pipe (2)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw22	sw9	176.425	174.135	0.084	2.788	0.4	0.03	6.2	OK
Pipe (3)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw30	sw32	176.000	175.016	0.019	0.518	0.9	0.02	1.1	OK
Pipe (4)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw32	sw22	176.000	174.621	0.028	1.080	0.8	0.02	2.2	OK
Pipe (5)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	rg31	sw32	175.650	175.068	0.019	0.563	0.9	0.03	1.2	OK
Pipe (6)	FSR: 1 years: +0 %: 120 mins: Winter	Pipe	Cellular Storage NORTH 2	sw9	176.700	174.185	0.160	0.000	0.1	0	0.5	OK
Pipe (7)	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	sw32	Cellular Storage NORTH 3	176.000	174.620	0.000	0.000	0.0	0	0.0	OK
Pipe (8)	FSR: 1 years: +0 %: 15 mins: Summer	Pipe	Cellular Storage NORTH 3	sw9	176.200	174.600	0.068	0.000	0.0	0	0.0	OK

Project: New Street Leek Proposed dwellings				Date: 16/10/2024							
				Designed by: linda.edwards		Checked by:					
Report Details: Type: Connections Summary Storm Phase: Phase				Company: ABA Consulting Consulting Civil & Structural Engineers							

Pipe (9)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw50	sw51	188.100	187.526	0.030	0.511	0.4	0.06	1.1	OK
Pipe (10)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw51	sw52	188.100	187.435	0.039	1.019	0.6	0.11	2.1	OK
Pipe (11)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw52	sw55	188.100	187.342	0.041	1.016	0.5	0.15	2.0	OK
Pipe (12)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw53	sw54	188.150	187.577	0.028	0.601	0.6	0.07	1.3	OK
Pipe (13)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw54	sw55	188.100	187.328	0.038	0.981	0.6	0.07	2.0	OK
Pipe (15)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	Cellular Storage SOUTH 1	sw56	188.100	186.687	0.041	1.950	0.7	0.05	3.2	OK
Pipe (17)	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	sw57	sw59	188.150	186.521	0.040	3.887	0.8	0.14	3.0	Surchar ged
Pipe (18)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw58	sw59	188.150	186.213	0.028	0.374	0.3	0.02	0.8	OK
Pipe (19)	FSR: 1 years: +0 %: 30 mins: Winter	Pipe	sw59	sw64	188.150	185.743	0.111	5.413	1.0	0.19	4.3	OK
Pipe (20)	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	Cellular Storage SOUTH 2	sw64	188.200	185.732	0.207	0.000	0.4	0.02	1.3	OK
Pipe (21)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw60	sw61	188.100	187.519	0.016	0.353	0.7	0.03	0.7	OK
Pipe (22)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw61	sw63	188.100	187.362	0.014	0.475	1.2	0.01	1.0	OK
Pipe (23)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw62	sw63	188.100	187.509	0.013	0.291	0.8	0.01	0.6	OK
Pipe (24)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw63	sw64	188.180	186.016	0.071	0.872	0.9	0.02	1.8	OK
Pipe (25)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw64	sw65	188.250	185.640	0.225	3.389	0.3	0.06	7.0	OK
Pipe (26)	FSR: 1 years: +0 %: 60 mins: Winter	Pipe	sw65	swextg	187.650	185.732	0.017	10.695	1.3	0.01	1.8	Surchar ged
Pipe (14)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw55	Cellular Storage SOUTH 1	188.100	187.247	0.045	1.992	0.7	0.08	3.8	OK
Pipe (16)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	sw56	Cellular Storage- SOUTH 1A	188.100	186.645	0.034	2.836	1.3	0.07	5.0	OK
Pipe (27)	FSR: 1 years: +0 %: 15 mins: Winter	Pipe	Cellular Storage- SOUTH 1A	sw57	188.100	186.524	0.225	2.804	0.7	0.03	4.7	OK

Project: New Street Leek Proposed dwellings	Date: 16/10/2024			
	Designed by: linda.edwards	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers			



FSR: 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
1.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw1	sw2	185.280	184.881	0.068	2.191	0.6	0.24	4.6	OK
1.001	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw2	Cellular Storage NORTH 1	185.900	184.836	0.080	4.259	0.9	0.5	8.8	OK
1.003	FSR: 30 years: +0 %: 60 mins: Winter	Pipe	sw3	sw4	186.250	184.131	0.225	1.041	0.5	0.02	1.8	Surcharged
1.002	FSR: 30 years: +0 %: 60 mins: Summer	Pipe	Cellular Storage NORTH 1	sw3	185.900	184.070	0.225	0.587	0.5	0.03	1.6	Surcharged
1.004	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw4	sw5	186.500	183.940	0.225	0.410	0.2	0.03	2.3	Surcharged
2.000	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw6	sw5	186.850	185.641	0.039	1.595	0.9	0.13	3.4	OK
1.005	FSR: 30 years: +0 %: 240 mins: Winter	Pipe	sw5	sw7	186.870	184.206	0.017	25.981	1.0	0.04	1.1	Surcharged
1.006	FSR: 30 years: +0 %: 240 mins: Winter	Pipe	sw7	sw8	184.250	183.012	0.012	25.949	1.7	0.01	1.1	OK
1.007	FSR: 30 years: +0 %: 240 mins: Winter	Pipe	sw8	sw9	176.780	175.062	0.150	25.935	0.2	0.01	1.1	OK
1.008	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw9	sw10	176.400	174.255	0.015	2.329	1.3	0.01	1.5	Surcharged
Pipe	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw20	sw21	177.700	176.845	0.037	1.859	1.2	0.17	4.0	OK
Pipe (1)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw21	sw22	177.650	176.529	0.029	2.884	2.6	0.08	6.1	OK
Pipe (2)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw22	sw9	176.425	174.255	0.205	6.567	0.5	0.06	14.0	OK
Pipe (3)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw30	sw32	176.000	175.025	0.029	1.274	1.2	0.06	2.7	OK
Pipe (4)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw32	sw22	176.000	174.632	0.081	2.652	0.7	0.04	5.6	OK
Pipe (5)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	rg31	sw32	175.650	175.078	0.030	1.376	1.2	0.08	2.9	OK
Pipe (6)	FSR: 30 years: +0 %: 360 mins: Winter	Pipe	Cellular Storage NORTH 2	sw9	176.700	174.574	0.300	0.000	0.0	0.01	1.2	Surcharged
Pipe (7)	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	sw32	Cellular Storage NORTH 3	176.000	174.631	0.000	0.000	0.0	0	0.0	OK
Pipe (8)	FSR: 30 years: +0 %: 15 mins: Summer	Pipe	Cellular Storage NORTH 3	sw9	176.200	174.600	0.116	0.000	0.0	0	0.0	OK

Project: New Street Leek Proposed dwellings		Date: 16/10/2024			
		Designed by: linda.edwards	Checked by:		Approved By:
Report Details: Type: Connections Summary Storm Phase: Phase		Company: ABA Consulting Consulting Civil & Structural Engineers			

Pipe (9)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw50	sw51	188.100	187.540	0.049	1.246	0.5	0.16	2.6	OK
Pipe (10)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw51	sw52	188.100	187.458	0.064	2.480	0.7	0.28	5.2	OK
Pipe (11)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw52	sw55	188.100	187.370	0.067	2.477	0.7	0.38	5.0	OK
Pipe (12)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw53	sw54	188.150	187.593	0.046	1.474	0.7	0.18	3.1	OK
Pipe (13)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw54	sw55	188.100	187.349	0.063	2.403	0.7	0.18	4.9	OK
Pipe (15)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	Cellular Storage SOUTH 1	sw56	188.100	186.763	0.138	4.792	0.8	0.13	8.6	OK
Pipe (17)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw57	sw59	188.150	186.762	0.146	4.527	0.6	0.17	3.5	Surchar ged
Pipe (18)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw58	sw59	188.150	186.219	0.098	0.911	0.4	0.04	1.9	OK
Pipe (19)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw59	sw64	188.150	185.895	0.150	6.853	0.7	0.43	9.8	Surchar ged
Pipe (20)	FSR: 30 years: +0 %: 120 mins: Winter	Pipe	Cellular Storage SOUTH 2	sw64	188.200	186.290	0.225	0.000	0.0	0.03	1.5	Surchar ged
Pipe (21)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw60	sw61	188.100	187.530	0.024	0.860	1.0	0.07	1.8	OK
Pipe (22)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw61	sw63	188.100	187.369	0.021	1.162	1.6	0.03	2.4	OK
Pipe (23)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw62	sw63	188.100	187.514	0.019	0.717	1.2	0.02	1.5	OK
Pipe (24)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw63	sw64	188.180	186.023	0.150	2.147	0.9	0.06	4.5	OK
Pipe (25)	FSR: 30 years: +0 %: 30 mins: Winter	Pipe	sw64	sw65	188.250	186.047	0.225	6.610	0.3	0.04	4.5	Surchar ged
Pipe (26)	FSR: 30 years: +0 %: 120 mins: Winter	Pipe	sw65	swextg	187.650	186.289	0.018	26.834	1.4	0.01	2.2	Surchar ged
Pipe (14)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw55	Cellular Storage SOUTH 1	188.100	187.276	0.073	4.874	0.9	0.21	9.6	OK
Pipe (16)	FSR: 30 years: +0 %: 15 mins: Winter	Pipe	sw56	Cellular Storage- SOUTH 1A	188.100	186.763	0.212	6.925	1.0	0.18	12.9	OK
Pipe (27)	FSR: 30 years: +0 %: 30 mins: Summer	Pipe	Cellular Storage- SOUTH 1A	sw57	188.100	186.772	0.225	8.584	0.7	0.05	7.9	Surchar ged

Project: New Street Leek Proposed dwellings	Date: 16/10/2024			
	Designed by: linda.edwards	Checked by:	Approved By:	
Report Details: Type: Connections Summary Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers			



FSR: 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
1.000	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw1	sw2	185.280	184.907	0.104	3.965	0.6	0.43	8.3	OK
1.001	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw2	Cellular Storage NORTH 1	185.900	184.881	0.120	7.700	1.0	0.89	15.8	OK
1.003	FSR: 100 years: +40 %: 30 mins: Summer	Pipe	sw3	sw4	186.250	184.315	0.225	0.594	0.5	0.03	2.6	Surcharged
1.002	FSR: 100 years: +40 %: 30 mins: Winter	Pipe	Cellular Storage NORTH 1	sw3	185.900	184.400	0.225	0.257	0.4	0.04	2.2	Surcharged
1.004	FSR: 100 years: +40 %: 15 mins: Summer	Pipe	sw4	sw5	186.500	184.138	0.225	0.407	0.1	0.05	3.4	Surcharged
2.000	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw6	sw5	186.850	185.657	0.054	2.891	1.1	0.24	6.2	OK
1.005	FSR: 100 years: +40 %: 360 mins: Winter	Pipe	sw5	sw7	186.870	184.855	0.019	48.572	1.0	0.05	1.4	Surcharged
1.006	FSR: 100 years: +40 %: 480 mins: Winter	Pipe	sw7	sw8	184.250	183.013	0.045	61.719	1.8	0.02	1.4	OK
1.007	FSR: 100 years: +40 %: 480 mins: Winter	Pipe	sw8	sw9	176.780	175.127	0.150	61.705	0.2	0.02	1.4	OK
1.008	FSR: 100 years: +40 %: 480 mins: Winter	Pipe	sw9	sw10	176.400	175.126	0.016	84.831	1.3	0.01	1.7	Surcharged
Pipe	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw20	sw21	177.700	176.861	0.051	3.374	1.4	0.3	7.2	OK
Pipe (1)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw21	sw22	177.650	176.540	0.039	5.227	3.0	0.14	11.1	OK
Pipe (2)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw22	sw9	176.425	174.446	0.300	11.770	0.5	0.11	23.9	Surcharged
Pipe (3)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw30	sw32	176.000	175.034	0.038	2.309	1.4	0.11	4.9	OK
Pipe (4)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw32	sw22	176.000	174.642	0.177	4.805	0.6	0.08	10.2	OK
Pipe (5)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	rg31	sw32	175.650	175.088	0.040	2.495	1.4	0.14	5.3	OK
Pipe (6)	FSR: 100 years: +40 %: 1440 mins: Winter	Pipe	Cellular Storage NORTH 2	sw9	176.700	175.039	0.300	0.000	0.1	0.01	1.3	Surcharged

Project: New Street Leek Proposed dwellings		Date: 16/10/2024			
Report Details: Type: Connections Summary Storm Phase: Phase		Designed by: linda.edwards	Checked by:		Approved By:
		Company: ABA Consulting Consulting Civil & Structural Engineers			

Pipe (7)	FSR: 100 years: +40 %: 15 mins: Summer	Pipe	sw32	Cellular Storage NORTH 3	176.000	174.642	0.000	0.000	0.0	0	0.0	OK
Pipe (8)	FSR: 100 years: +40 %: 960 mins: Winter	Pipe	sw9	Cellular Storage NORTH 3	176.200	175.105	0.150	0.000	0.0	0	0.1	Surchar ged
Pipe (9)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw50	sw51	188.100	187.555	0.069	2.257	0.6	0.28	4.8	OK
Pipe (10)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw51	sw52	188.100	187.484	0.093	4.496	0.8	0.51	9.4	OK
Pipe (11)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw52	sw55	188.100	187.401	0.095	4.493	0.8	0.7	9.2	OK
Pipe (12)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw53	sw54	188.150	187.609	0.065	2.671	0.8	0.32	5.6	OK
Pipe (13)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw54	sw55	188.100	187.372	0.090	4.353	0.8	0.34	9.0	OK
Pipe (15)	FSR: 100 years: +40 %: 15 mins: Summer	Pipe	sw56	Cellular Storage SOUTH 1	188.100	186.975	0.225	6.230	0.7	0.21	14.1	Surchar ged
Pipe (17)	FSR: 100 years: +40 %: 30 mins: Winter	Pipe	sw57	sw59	188.150	187.197	0.150	9.262	0.6	0.16	3.5	Surchar ged
Pipe (18)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw58	sw59	188.150	186.225	0.150	1.648	0.4	0.07	3.5	OK
Pipe (19)	FSR: 100 years: +40 %: 15 mins: Summer	Pipe	sw59	sw64	188.150	186.093	0.150	8.352	0.9	0.5	11.3	Surchar ged
Pipe (20)	FSR: 100 years: +40 %: 240 mins: Summer	Pipe	sw64	Cellular Storage SOUTH 2	188.200	186.814	0.225	0.000	0.0	0.03	1.5	Surchar ged
Pipe (21)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw60	sw61	188.100	187.540	0.033	1.559	1.2	0.13	3.3	OK
Pipe (22)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw61	sw63	188.100	187.375	0.075	2.103	1.9	0.06	4.5	OK
Pipe (23)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw62	sw63	188.100	187.519	0.075	1.289	1.4	0.03	2.8	OK
Pipe (24)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw63	sw64	188.180	186.150	0.150	3.716	1.1	0.11	8.2	OK
Pipe (25)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw64	sw65	188.250	186.150	0.225	3.164	0.2	0.06	7.1	Surchar ged
Pipe (26)	FSR: 100 years: +40 %: 30 mins: Summer	Pipe	sw65	swextg	187.650	186.320	0.018	6.841	1.4	0.01	2.2	Surchar ged
Pipe (14)	FSR: 100 years: +40 %: 15 mins: Winter	Pipe	sw55	Cellular Storage SOUTH 1	188.100	187.308	0.102	8.840	1.0	0.38	17.6	OK
Pipe (16)	FSR: 100 years: +40 %: 15 mins: Summer	Pipe	sw56	Cellular Storage- SOUTH 1A	188.100	186.975	0.225	9.301	1.2	0.28	19.3	Surchar ged
Pipe (27)	FSR: 100 years: +40 %: 30 mins: Winter	Pipe	sw57	Cellular Storage- SOUTH 1A	188.100	187.198	0.225	11.494	0.5	0.03	5.7	Surchar ged

Project: New Street Leek Proposed dwellings	Date: 16/10/2024			
	Designed by: linda.edwards	Checked by:	Approved By:	
Report Details: Type: Phase Management Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers			



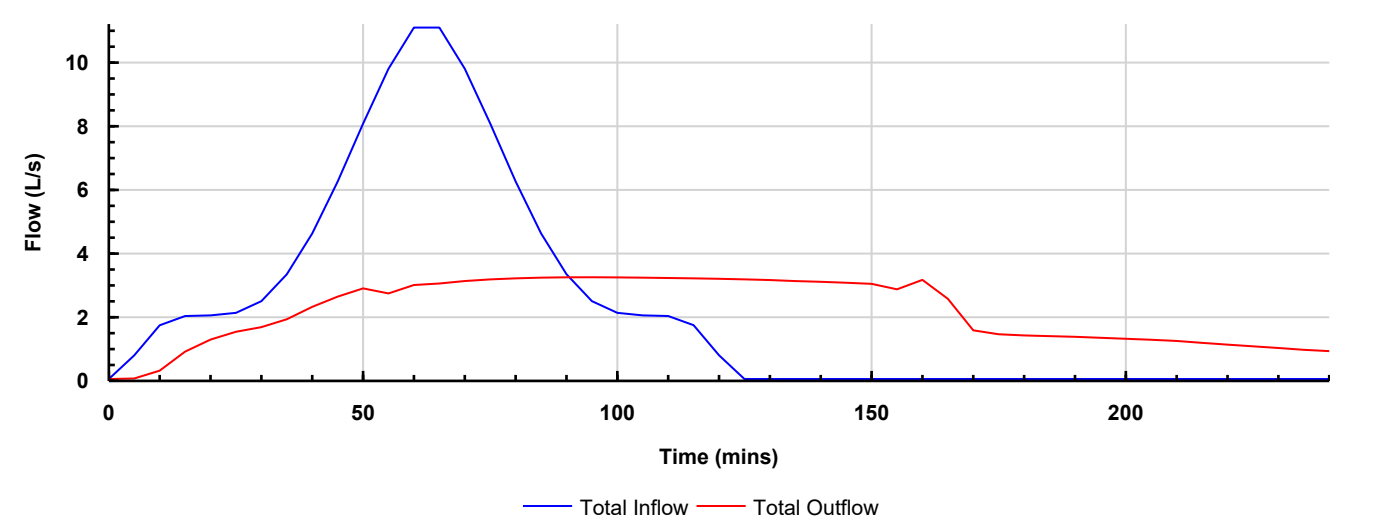
Phase
FSR: 1 years: Increase Rainfall (%): +0: 120 mins: Winter

Tables

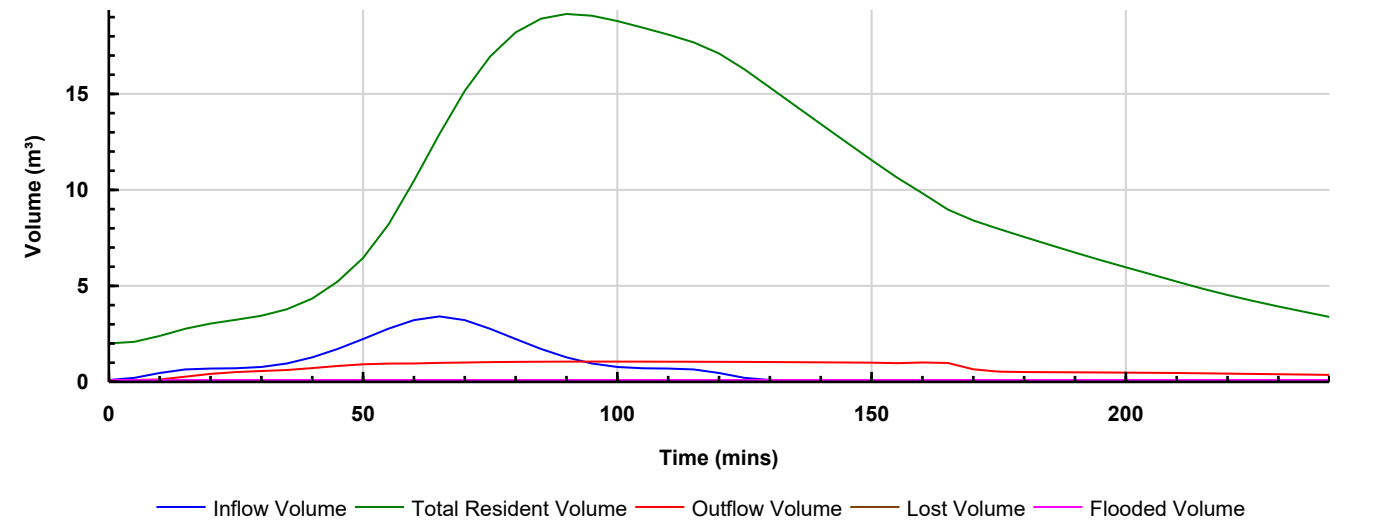
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
sw10			1.5	16.724
swextg			1.8	14.366
TOTAL	11.1	32.472	3.2	31.090

Graphs

Flow Graph



Volume Graph



Project: New Street Leek Proposed dwellings	Date: 16/10/2024			
	Designed by: linda.edwards	Checked by:	Approved By:	
Report Details: Type: Phase Management Storm Phase: Phase	Company: ABA Consulting Consulting Civil & Structural Engineers			



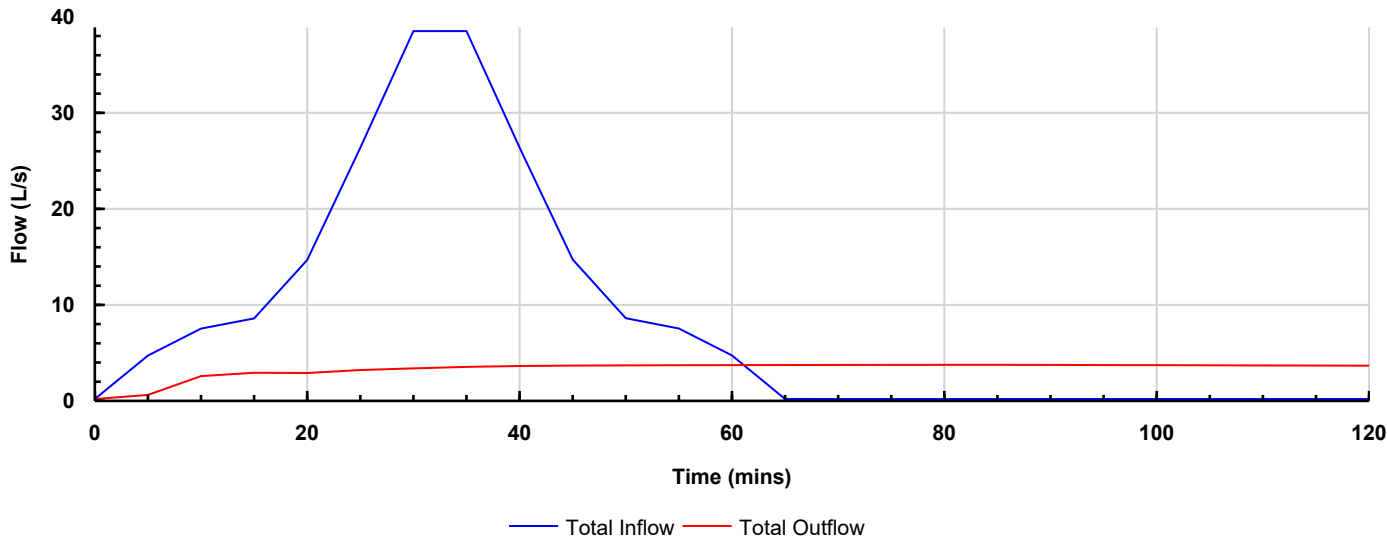
Phase
FSR: 30 years: Increase Rainfall (%): +0: 60 mins: Winter

Tables

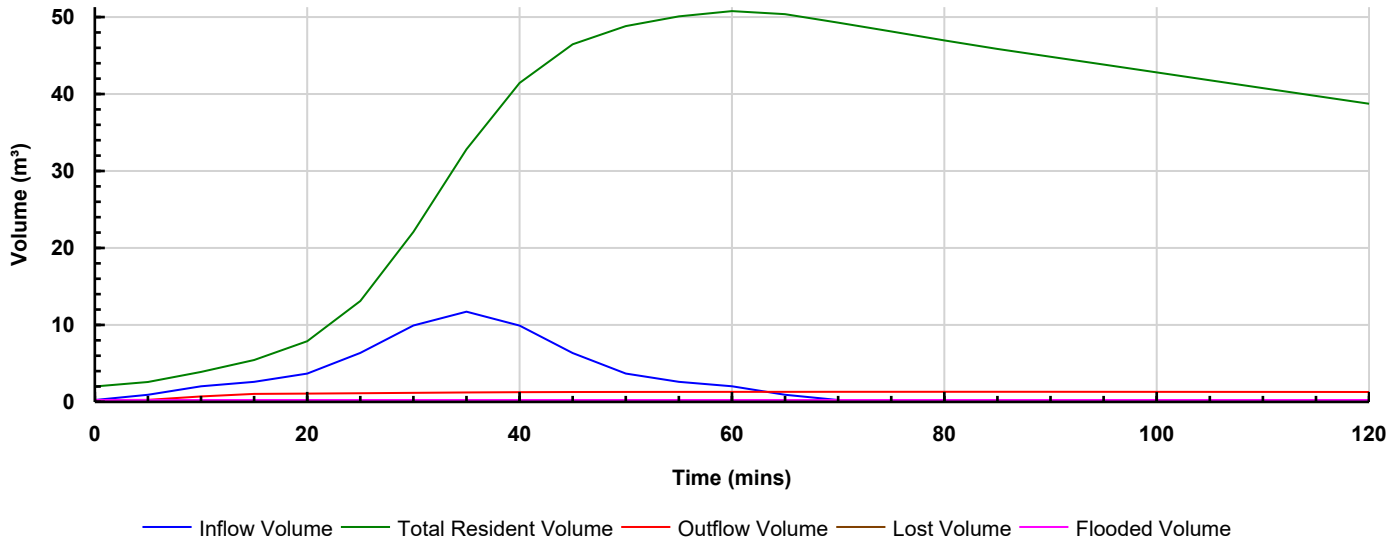
Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
sw10			1.5	9.634
swextg			2.1	13.314
TOTAL	38.5	59.855	3.6	22.948

Graphs

Flow Graph



Volume Graph



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	Designed by: linda.edwards	Checked by:	Approved By:	
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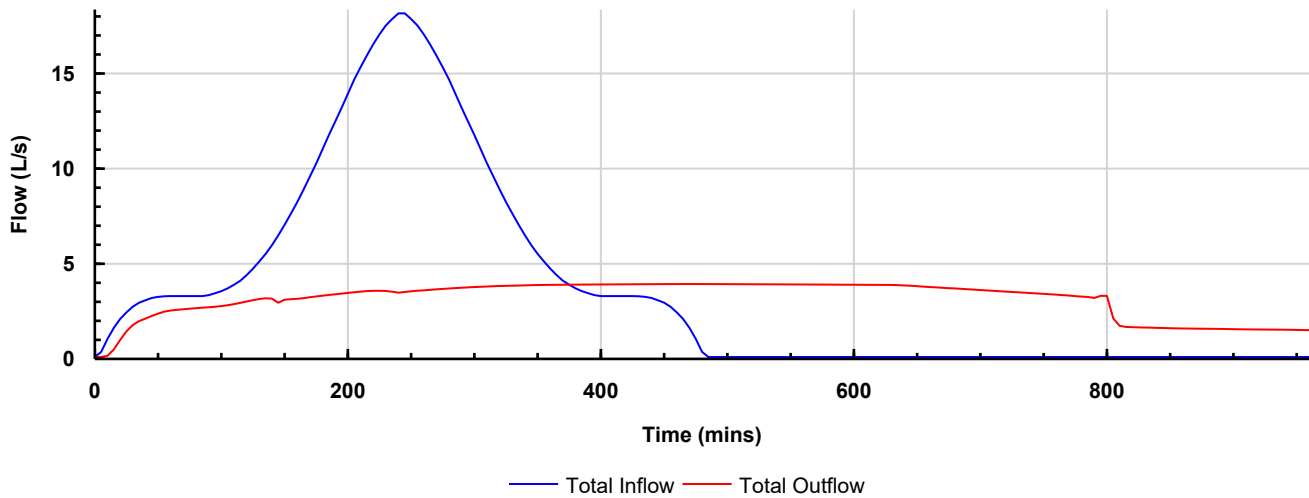
Phase
FSR: 100 years: Increase Rainfall (%): +40: 480 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
sw10			1.7	84.831
swextg			2.2	91.852
TOTAL	18.2	206.730	3.9	176.682

Graphs

Flow Graph



Volume Graph

