

TITLE: Land at Westergate Drainage - Basin Volume Assessment

QUALITY CONTROL

Issue/revision	First issue	Revision 1	Revision 2	Revision 3
Remarks				
Date	07.07.2023	15.09.2023	07.06.2024	
Prepared by	J Blavignac	J Blavignac	J Blavignac	
Checked by		L.Beeching	L.Beeching	
Authorised by		Bruno Venturini	L. Beeching	
Project number	70013258	70013258	70013258	
Report number				
File reference	LAW-WSP-XX-XX-C-CA-00001	LAW-WSP-XX-XX-C-CA-00001	LAW-WSP-XX-XX-C-CA-00001	

NOTES:
The calculations include Greenfield runoff calc, Quick Storage Estimate (FEH2022) and Pond Sizing and are based on Thrive Architects layout CALA230719-ASKL-01 REV .P3 (31.07.23)

Westergate -Qbar & QSE Assessment

Catchment	Top North Parcel	Central Residential	Central Main Road	Southern Parcel (HA)	Site
Extended Catchment Area (ha) - (B)	1.912	5.03	0.915	5.691	13.548
%Imp assumed for current Strategy (D)	60%	60%	80%	60%	
Max Discharge to Qbar (l/s) (BxQ)	7.27	22.59		21.63	51.48
Area without Basin (F) #	1.576	4.61		5.17	
Residential Land Parcel Occupancy (G) ##	0.41	0.41		0.41	
Residential Land Parcel Area (FXG)	0.65	1.89		2.12	
Urban Creep from Resi Area (6%) (FxGx6%)###	0.04	0.11		0.13	
Imp Area assumed for QSE (ha) - (BxD)+(FxGx6%)	1.19	3.131	0.732	3.54	8.59
QSE30yr+40%	746 to 968m3	2446 to 3164m3		2219 to 2878m3	
QSE100yr+45%	1020 to 1304m3	3338 to 4257m3		3035 to 3880m3	
Volume Required (Averaged QSE)	Vol Required at Freeboard:(746+968)/2=857m3 (1) Vol Required at Crest: (1020+1304)/2=1162m3 (2)	Volume Required at Freeboard:(2446+3164)/2=2805m3 (1) Volume Required at Crest: (3338+4257)/2=3,797m3 (2)		Vol Required at Freeboard:(2219+2878)/2=2548m3 (1) Vol Required at Crest: (3035+3880)/2=3457m3 (2)	
Basin Volumes (Base extended or Gabion Wall on 1 side included)	(Base Extension) 732m3 at freeboard (5), 1186m3 at crest(6)	(Extended Base) 1781m3 at freeboard, (5) 2715m3 at crest (6)		(Gabion Walls) 2522m3 at freeboard (5), 3399m3 at Crest (6)	
Shortage	Shortage of +/-149m3 (1)-(5), No Shortage at crest (2)-(6)	Shortage of +/-1024m3, (1)-(5) Shortage of 1082m3 at crest (2)-(6)		Shortage of +/- 26m3 (1)-(5) Shortage of +/- 58m3 (2)-(6)	
Minimum Additional Storage to be provided (Tank Perv Pav, Raingarden & Tree pit corridor)	150m3 of effective storage.Area to be made available for Tanked Perv Paving, Raingardens & Tree Pits Corridors	1082m3 of effective storage. Area to be made available for Tanked Perv Paving, Raingardens & Tree Pits Corridors		58m3 of effective storage. Area to be made available for Tanked Perv Paving, Raingardens & Tree Pits Corridors	

Note: # Area taken from drawing LAW-WSP-ZZ-ZZ-C-DR-05000.

##Based on assesment made on LAW-WSP-XX-XX-C-SK-004

Urban Creep factor of 6% obtained from Lasoo Report for Dwelling density of 35 dwelling per ha

ICPSUDS (IH124)	l/s/ha
Qbar (Q)	3.8
Q1	3.2
Q2	3.3
Q30	8.6
Q100	12.1

ParametersReturn Period

Parameters

Version2022PointSite LocationGB 494145 104717 SU 94145Storm Profile☒ Summer☒ Winter

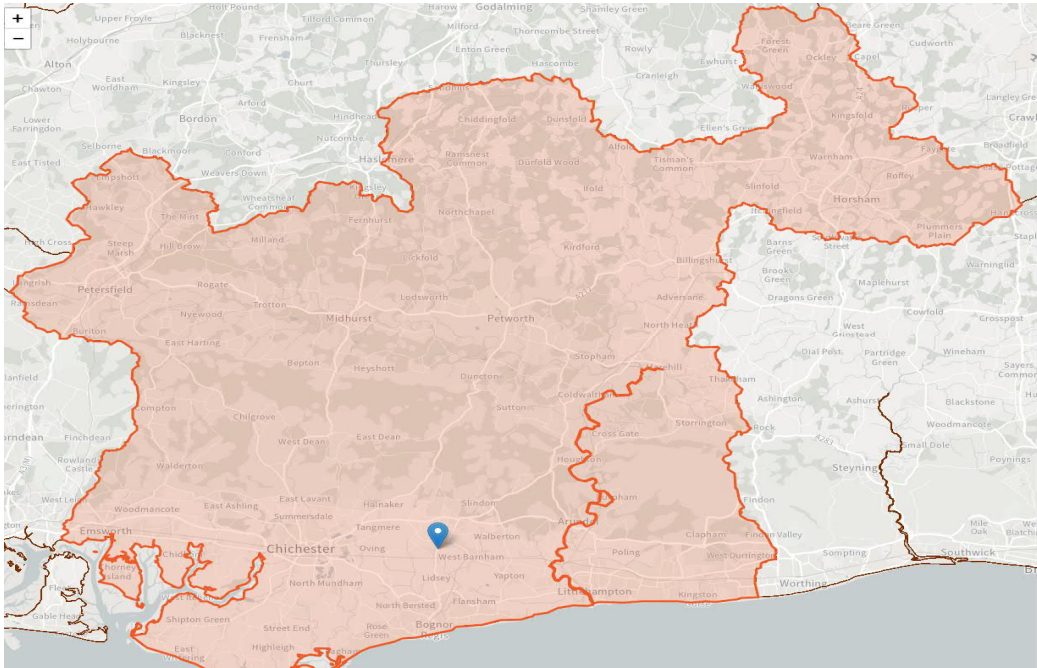
Input

Input TypeUser InputArea (ha)1.19Volumetric Runoff Coefficient1.000Discharge Rate (L/s)7.27Infiltration Rate (m/hr)0.0Safety Factor2.0QuickCalculate

Create NewFrom Library

☒ All☒ FEH

MethodFEHNumber of Stoms18Max. Run Time (mins)2880



Arundale and Western Streams Management Catchment peak rainfall allowances

3.3% annual exceedance rainfall event

Epoch	Central allowance	Upper end allowance
2050s	20%	35%
2070s	25%	40%

1% annual exceedance rainfall event

Epoch	Central allowance	Upper end allowance
2050s	20%	45%
2070s	25%	45%

*Use '2050s' for development with a lifetime up to 2060 and use the 2070s epoch for development with a lifetime between 2061 and 2125.

This map contains information generated by Met Office Hadley Centre (2019). UKCP Local Projections on a 5km grid over the UK for 1980-2080. Centre for Environmental Data Analysis, 2022

WSP Group Ltd		Page 1																								
. . .																										
Date 27/06/2023 14:14	Designed by UKJXB042																									
File	Checked by																									
XP Solutions		Source Control 2018.1.1																								
<u>ICP SUDS Mean Annual Flood</u> Input <table> <tr> <td>Return Period (years)</td> <td>2</td> <td>Soil</td> <td>0.400</td> </tr> <tr> <td>Area (ha)</td> <td>1.000</td> <td>Urban</td> <td>0.000</td> </tr> <tr> <td>SAAR (mm)</td> <td>766</td> <td>Region Number</td> <td>Region 7</td> </tr> </table> Results l/s <table> <tr> <td>QBAR Rural</td> <td>3.8</td> </tr> <tr> <td>QBAR Urban</td> <td>3.8</td> </tr> <tr> <td>Q2 years</td> <td>3.3</td> </tr> <tr> <td>Q1 year</td> <td>3.2</td> </tr> <tr> <td>Q30 years</td> <td>8.6</td> </tr> <tr> <td>Q100 years</td> <td>12.1</td> </tr> </table>			Return Period (years)	2	Soil	0.400	Area (ha)	1.000	Urban	0.000	SAAR (mm)	766	Region Number	Region 7	QBAR Rural	3.8	QBAR Urban	3.8	Q2 years	3.3	Q1 year	3.2	Q30 years	8.6	Q100 years	12.1
Return Period (years)	2	Soil	0.400																							
Area (ha)	1.000	Urban	0.000																							
SAAR (mm)	766	Region Number	Region 7																							
QBAR Rural	3.8																									
QBAR Urban	3.8																									
Q2 years	3.3																									
Q1 year	3.2																									
Q30 years	8.6																									
Q100 years	12.1																									
©1982-2018 Innovyze																										

Basin 1 Volume Calc
 13/09/2023
 J.Blavignac

Basin Levels from 6.6 to 5.70m AOD	Contours (m AOD)	Area (m2)	Volume Per Slice of elevation (m3)	Cumulative Volume from base (m3)
	5.70	1031	0.0	0.0
	5.80	1092	106.2	106.2
	5.90	1155	112.4	218.5
	6.00	1219	118.7	337.2
	6.10	1283	125.1	462.3
	6.20	1349	131.6	593.9
	6.30	1415	138.2	732.1
	6.40	1481	144.8	876.9
	6.50	1549	151.5	1028.4
	6.60	1618	158.3	1186.8
	Vol Total (m3) (Sum)		1186.8	

Note: Freeboard at 6.3m Vol=	732.1
------------------------------------	-------

Basin 2 Volume Calc

13/09/2023

J.Blavignac

Basin Levels from 4.7 to 3.75m AOD	Contours (m AOD)	Area (m2)	Volume Per Slice of elevation (m3)	Cumulative Volume from base (m3)
	3.75	2485	0.0	0.0
	3.85	2562	252.4	252.4
	3.95	2640	260.1	512.5
	4.05	2718	267.9	780.4
	4.15	2797	275.8	1056.1
	4.2	2836	140.8	1196.9
	4.25	2876	142.8	1339.7
	4.35	2956	291.6	1631.3
	4.45	3036	299.6	1930.9
	4.55	3117	307.6	2238.6
	4.65	3199	315.8	2554.4
	4.7	3259	161.4	2715.8
	Vol Total (m3) (Sum)		2715.8	

Note: Freeboard at 4.4m. Vol (m3)=	1781.1
--	--------

Basin 3a Volume Calc
 13/09/2023
 J.Blavignac

Basin Levels from 5.50 to 4.15m AOD	Contours (m AOD)	Area (m2)	Volume Per Slice of elevation (m3)	Cumulative Volume from base (m3)
	4.15	558	0	0
	4.20	577	28.375	28.375
	4.30	614	59.55	87.925
	4.40	652	63.3	151.225
	4.50	690	67.1	218.325
	4.60	729	70.95	289.275
	4.70	769	74.9	364.175
	4.80	809	78.9	443.075
	4.90	851	83	526.075
	5.00	893	87.2	613.275
	5.10	938	91.55	704.825
	5.20	984	96.1	800.925
	5.30	1027	100.55	901.475
	5.40	1070	104.85	1006.325
	5.50	1113	109.15	1115.475
	Vol Total (m3) (Sum)		1115.5	

Note: Freeboard at 5.2m Vol=	800.9
------------------------------------	-------

Basin 3b Volume Calc
13/09/2023
J.Blavignac

Basin Levels from 5.20 to 3.75m AOD	Contours (m AOD)	Area (m2)	Volume Per Slice of elevation (m3)	Cumulative Volume from base (m3)
	3.75	1213	0	0
	3.8	1237	61.25	61.25
	3.9	1286	126.15	187.4
	4	1334	131	318.4
	4.1	1383	135.85	454.25
	4.2	1433	140.8	595.05
	4.3	1483	145.8	740.85
	4.4	1533	150.8	891.65
	4.5	1584	155.85	1047.5
	4.6	1635	160.95	1208.45
	4.7	1687	166.1	1374.55
	4.8	1740	171.35	1545.9
	4.9	1793	176.65	1722.55
	5	1845	181.9	1904.45
	5.1	1898	187.15	2091.6
	5.2	1952	192.5	2284.1
	Vol Total (m3) (Sum)		2284.1	

Note: Freeboard at 4.9m Vol=	1722.6
---------------------------------	--------

Central Catchment - SuDS Volume Assessment (other than basin)

06.06.24

J.Blavignac

This schedule is to be read in conjunction with drawing LAW-WSP-XX-XX-C-DR-05000.

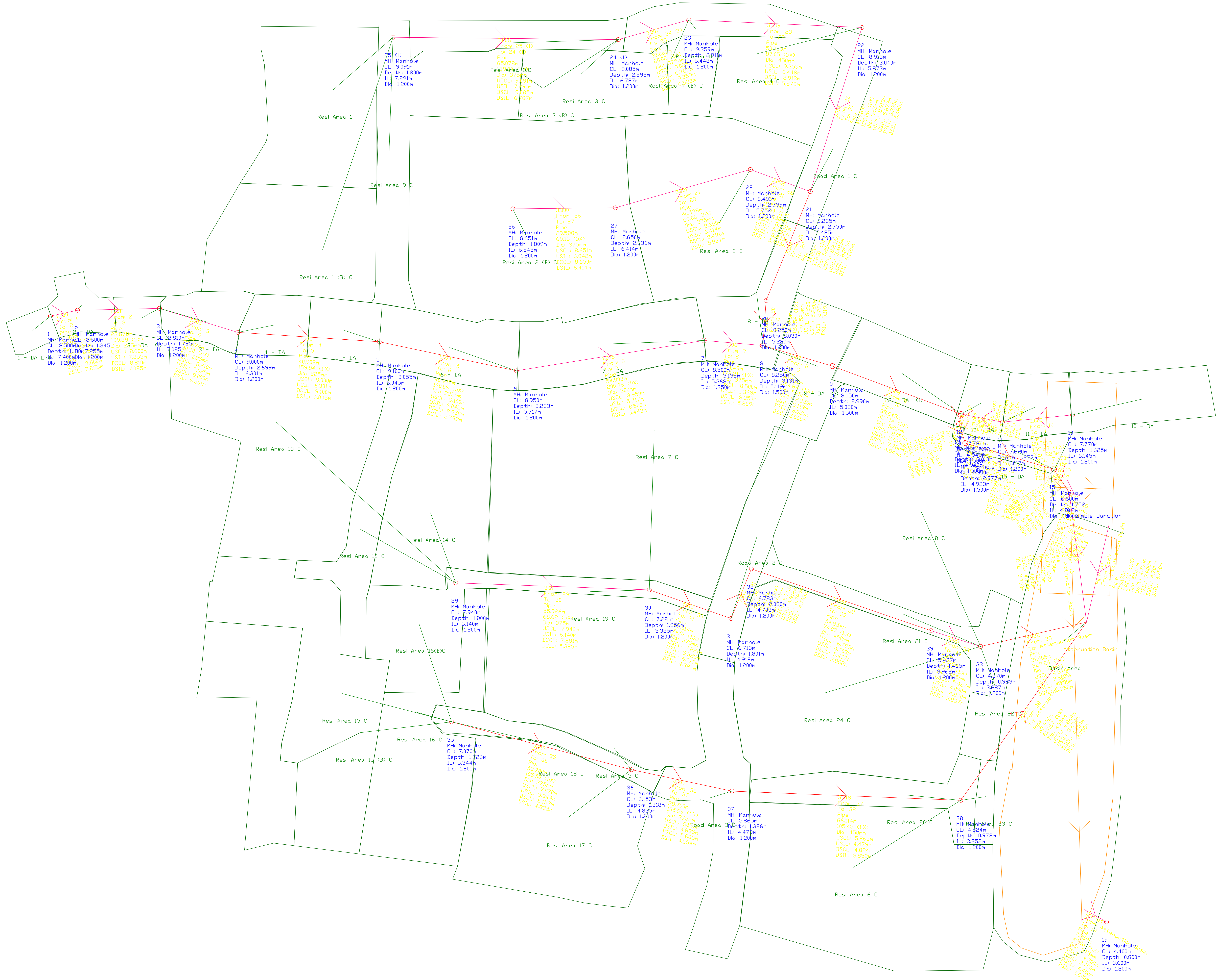
	Porosity	Height (m)	Area (m2)	Volume (m3)	Ratio use due to gradient (Vol Availability)	Effective Vol. (m3)
Porous Paving Volume Assessment	0.3	0.65	100	19.5	0.8	15.6

	Porous Paving available	Tree Pit corridors	Rain Gardens	Total (m3)
Area (sqm)	6702	400	380	
Volume Available(H:0.65) (m3)	1046	-	65	1111
Volume Available(H:1.0) (m3)	-	96	-	96
				1207

Notes: - Pervious Paving to be located in driveways, shared car park and low traffic road.

-Tree pit corridors to be located within landscape corridor abutting southern boundary of East West link corridor road. This assessment assumes that the whole length can be used as SuDS.

-Rain Gardens to be located between footpath/cycleway and carriageway on the southern side of the East West link corridor road. This assessment assumes that the whole length can be used as SuDS.



Extract of Infodrainage Sanity Check Basic Model
for Central Catchment

	Name	Outgoing Item	Area (ha)	Preliminary Percentage Impervious (%)	Preliminary Volumetric Runoff Coefficient	Preliminary Time of Concentration (mins)	Volumetric Runoff Coefficient	Winter Volumetric Runoff Coefficient	Runoff Method	Used	Time of Concentration (mins)	Percentage Impervious (%)	Urban Creep (%)	Max. Inflow (L/s)	Total Inflow Volume (m³)
+	1 - DA Link	1	0.013	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	8.972	3.890
+	2 - DA	2	0.025	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	17.015	7.381
+	3 - DA	3	0.035	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	23.831	10.341
+	3 - DA (1)	3	0.015	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	10.279	4.463
+	4 - DA	4	0.033	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	22.514	9.771
+	5 - DA	5	0.036	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	24.729	10.731
+	6 - DA	6	0.075	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	51.335	22.277
+	7 - DA	7	0.101	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	68.549	29.741
+	8 - DA	8	0.070	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	47.892	20.780
+	8 - DA (1)	8	0.059	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	40.148	17.421
+	10 - DA	10	0.063	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	43.012	18.660
+	11 - DA	11	0.035	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	23.911	10.377
+	12 - DA	12	0.025	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	17.314	7.513
+	12 - DA (1)	12	0.068	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	46.075	19.995
+	15 - DA	15	0.022	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	14.989	6.502
+	Basin Area	Attenuation Basin	0.399	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	0	203.582	88.334
+	Resi Area 1	25 (1)	0.154	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	83.080	36.045
+	Resi Area 2 C	28	0.223	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	120.503	52.288
+	Resi Area 3 C	24 (1)	0.084	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	45.167	19.596
+	Resi Area 4 C	22	0.091	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	48.970	21.248
+	Road Area 1 C	21	0.058	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	39.369	17.086
+	Resi Area 5 C	36	0.265	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	0	135.103	58.619
+	Road Area 3 C	37	0.110	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	75.136	32.603
+	Road Area 2 C	31	0.074	80	1.000	5	1.000	1.000	Time of Concentration	☐	5	80	0	50.117	21.749
+	Resi Area 6 C	38	0.298	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	161.189	69.938
+	Resi Area 7 C	30	0.458	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	247.812	107.528
+	Resi Area 8 C	33	0.366	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	197.874	85.857
+	Resi Area 9 C	25 (1)	0.078	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	42.453	18.420
+	Resi Area 10C	24 (1)	0.054	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	29.060	12.608
+	Resi Area 11 C	23	0.055	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	29.929	12.989
+	Resi Area 12 C	29	0.079	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	42.882	18.603
+	Resi Area 13 C	29	0.272	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	146.869	63.727
+	Resi Area 14 C	29	0.161	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	87.271	37.869
+	Resi Area 15 C	35	0.207	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	112.040	48.617
+	Resi Area 16 C	35	0.151	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	81.652	35.431
+	Resi Area 17 C	36	0.210	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	113.717	49.343
+	Resi Area 18 C	35	0.037	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	20.069	8.706
+	Resi Area 19 C	30	0.038	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	20.528	8.904
+	Resi Area 20 C	38	0.066	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	35.517	15.412
+	Resi Area 21 C	33	0.055	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	29.959	12.998
+	Resi Area 22 C	33	0.030	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	16.436	7.135
+	Resi Area 23 C	38	0.012	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	6.756	2.930
+	Resi Area 24 C	33	0.313	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	169.472	73.536
+	Resi Area 16(B)C	35	0.078	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	42.233	18.324
+	Resi Area 15 (B) C	35	0.108	60	1.000	5	1.000	0.840	Time of Concentration	☐	5	60	6	58.510	25.387
+	Resi Area 1 (B) C	25 (1)	0.149	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	80.565	34.960
+	Resi Area 2 (B) C	26	0.373	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	201.806	87.566
+	Resi Area 4 (B) C	23	0.031	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	16.546	7.180
+	Resi Area 3 (B) C	24 (1)	0.061	60	1.000	5	1.000	1.000	Time of Concentration	☐	5	60	6	33.122	14.368

E/W LINK STRATEGY Climate Change Allowance Results			Date: 22/09/2023 Designed by: UKJXB042		Checked by:	Approved By:	I DRN		
Report Details: Type: Junctions Storm Phase: Storm			Company Address:						
	Name	Junction Type	Easting (m)	Northing (m)	Cover Level (m)	Depth (m)	Invert Level (m)	Chamber Shape	Diameter (m)
1		Manhole	493895.881	104880.572	8.500	1.100	7.400	Circular	1.200
2		Manhole	493903.668	104882.226	8.600	1.345	7.255	Circular	1.200
3		Manhole	493927.340	104882.778	8.810	1.725	7.085	Circular	1.200
4		Manhole	493949.540	104875.852	9.000	2.699	6.301	Circular	1.200
5		Manhole	493990.796	104873.135	9.100	3.055	6.045	Circular	1.200
6		Manhole	494030.367	104864.756	8.950	3.233	5.717	Circular	1.200
7		Manhole	494084.568	104873.509	8.500	3.132	5.368	Circular	1.350
8		Manhole	494101.556	104872.061	8.250	3.131	5.119	Circular	1.500
9		Manhole	494121.632	104866.115	8.050	2.990	5.060	Circular	1.500
12		Manhole	494158.777	104852.266	7.780	2.831	4.949	Circular	1.500
10		Manhole	494190.984	104852.014	7.770	1.625	6.145	Circular	1.200
11		Manhole	494170.712	104849.916	7.690	1.673	6.017	Circular	1.200
13		Manhole	494158.209	104843.389	7.950	3.010	4.940	Circular	1.500
14		Manhole	494159.992	104843.877	7.900	2.977	4.923	Circular	1.500
15		Manhole	494185.599	104836.301	6.600	1.752	4.848	Circular	1.500
16		Simple Junction	494189.974	104829.705					
19		Manhole	494200.788	104705.555	4.400	0.800	3.600	Circular	1.200
20		Manhole	494102.485	104885.013	8.250	3.030	5.220	Circular	1.200
21		Manhole	494115.252	104916.526	8.235	2.750	5.485	Circular	1.200
22		Manhole	494130.159	104963.926	8.913	3.040	5.873	Circular	1.200
23		Manhole	494080.152	104966.109	9.359	2.911	6.448	Circular	1.200
24 (1)		Manhole	494059.843	104960.432	9.085	2.298	6.787	Circular	1.200
25 (1)		Manhole	493994.769	104961.087	9.091	1.800	7.291	Circular	1.200
26		Manhole	494029.363	104911.536	8.651	1.809	6.842	Circular	1.200
27		Manhole	494058.950	104911.835	8.650	2.236	6.414	Circular	1.200
28		Manhole	494097.951	104922.892	8.491	2.739	5.752	Circular	1.200
Created in InfoDrainage 2024.4									
1/87									

E/W LINK STRATEGY Climate Change Allowance Results			Date: 22/09/2023 Designed by: UKJXB042 Checked by: Approved By:				I DRN	
Report Details: Type: Junctions Storm Phase: Storm			Company Address:					
29	Manhole	494012.874	104803.490	7.940	1.800	6.140	Circular	1.200
30	Manhole	494068.764	104801.472	7.281	1.956	5.325	Circular	1.200
31	Manhole	494092.371	104793.200	6.713	1.801	4.912	Circular	1.200
32	Manhole	494098.222	104807.525	6.783	2.080	4.703	Circular	1.200
33	Manhole	494164.402	104785.129	4.870	0.983	3.887	Circular	1.200
35	Manhole	494011.695	104763.353	7.070	1.726	5.344	Circular	1.200
36	Manhole	494063.587	104749.538	6.153	1.318	4.835	Circular	1.200
37	Manhole	494092.633	104743.340	5.865	1.386	4.479	Circular	1.200
38	Manhole	494158.694	104740.683	4.824	0.972	3.852	Circular	1.200
39	Manhole	494150.094	104789.683	5.427	1.465	3.962	Circular	1.200
	Name	Access Required	Intersecti on Easting (m)	Intersecti on Northing (m)	Lock			
1		☑	493895.881	104880.572	None			
2		☑	493903.668	104882.226	None			
3		☑	493927.340	104882.778	None			
4		☑	493949.979	104875.852	None			
5		☑	493990.796	104873.135	None			
6		☑	494030.367	104864.756	None			
7		☑	494084.568	104873.509	None			
8		☑	494101.556	104872.061	None			
9		☑	494121.632	104866.115	None			
12		☑	494158.777	104852.266	None			
10		☑	494190.984	104852.014	None			
11		☑	494170.712	104849.916	None			
13		☑	494158.209	104849.389	None			
14		☑	494159.992	104843.877	None			
15		☑	494185.599	104836.301	None			
Created in InfoDrainage 2024.4								
2/87								

E/W LINK STRATEGY
Climate Change Allowance
Results

Report Details:
Type: Junctions
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

16					
19		☒	494200.788	104705.555	None
20		☐			None
21		☐			None
22		☐			None
23		☐			None
24 (1)		☐			None
25 (1)		☐			None
26		☐			None
27		☐			None
28		☐			None
29		☐			None
30		☐			None
31		☐			None
32		☐			None
33		☐			None
35		☐			None
36		☐			None
37		☐			None
38		☐			None
39		☐			None

Inlets

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity	Type
1	Inlet	1 – DA Link	(None)	No	Restriction
2	Inlet	1.000 2 – DA	(None)	No	Restriction
3	Inlet	1.001 3 – DA 3 – DA (1)	(None)	No	Restriction
4	Inlet	1.002 4 – DA	(None)	No	Restriction
5	Inlet	1.003 5 – DA	(None)	No	Restriction
6	Inlet	1.004 6 – DA	(None)	No	Restriction
7	Inlet	1.005 7 – DA	(None)	No	Restriction
8	Inlet	1.006 8 – DA 8 – DA (1) 3.005	(None)	No	Restriction
9	Inlet	1.007	(None)	No	Restriction
12	Inlet	1.008 2.001 12 – DA 12 – DA (1)	(None)	No	Restriction
10	Inlet	10 – DA	(None)	No	Restriction
11	Inlet	2.000 11 – DA	(None)	No	Restriction
13	Inlet	1.009	(None)	No	Restriction
14	Inlet	1.010	(None)	No	Restriction

Created in InfoDrainage 2024.4

3/87

E/W LINK STRATEGY Climate Change Allowance Results		Date: 22/09/2023		Designed by: UKJXB042		Checked by:		Approved By:		
Report Details: Type: Junctions Storm Phase: Storm		Company Address:								
Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity	Type					
15	Inlet	1.011 15 – DA	(None)	No	Restriction					
16	Inlet	1.012	(None)	No	Restriction					
19	Inlet (1)	Outlet	(None)	No	Restriction					
20	Inlet	3.004	(None)	No	Restriction					
21	Inlet	3.002 3.010	(None)	No	Restriction					
22	Inlet (1)	Road Area 1 C	(None)	No	Restriction					
	Inlet	3.009	(None)	No	Restriction					
23	Inlet (1)	Resi Area 4 C	(None)	No	Restriction					
	Inlet	3.007	(None)	No	Restriction					
23	Inlet (2)	Resi Area 11 C	(None)	No	Restriction					
	Inlet (3)	Resi Area 4 (B) C	(None)	No	Restriction					
24 (1)	Inlet	3.006 Resi Area 3 (B) C	(None)	No	Restriction					
	Inlet (2)	Resi Area 10C Resi Area 3 C	(None)	No	Restriction					
25 (1)	Inlet	Resi Area 1 (B) C Resi Area 1	(None)	No	Restriction					
	Inlet (1)	Resi Area 9 C	(None)	No	Restriction					
26	Inlet (1)	Resi Area 2 (B) C	(None)	No	Restriction					
27	Inlet	3.000	(None)	No	Restriction					
28	Inlet	3.001	(None)	No	Restriction					
28	Inlet (1)	Resi Area 2 C	(None)	No	Restriction					
	Inlet	Resi Area 12 C Resi Area 13 C Resi Area 14 C	(None)	No	Restriction					
30	Inlet	3.011 Resi Area 19 C	(None)	No	Restriction					
	Inlet (1)	Resi Area 7 C	(None)	No	Restriction					
31	Inlet	3.012	(None)	No	Restriction					
31	Inlet (1)	Road Area 2 C	(None)	No	Restriction					
32	Inlet	3.013	(None)	No	Restriction					
33	Inlet	Resi Area 8 C Resi Area 22 C	(None)	No	Restriction					
	Inlet (1)	3.021 Resi Area 24 C	(None)	No	Restriction					
33	Inlet (2)	Resi Area 21 C	(None)	No	Restriction					
	Inlet (1)	Resi Area 18 C Resi Area 16(B)C Resi Area 15 (B) C Resi Area 15 C Resi Area 16 C	(None)	No	Restriction					
36	Inlet	3.016 Resi Area 17 C	(None)	No	Restriction					
36	Inlet (1)	Resi Area 5 C	(None)	No	Restriction					
	Inlet	3.017	(None)	No	Restriction					
37	Inlet (1)	Road Area 3 C	(None)	No	Restriction					
38	Inlet	3.018 Resi Area 23 C	(None)	No	Restriction					
	Inlet (1)	Resi Area 6 C	(None)	No	Restriction					
	Inlet (2)	Resi Area 20 C	(None)	No	Restriction					
Created in InfoDrainage 2024.4										

4/87

E/W LINK STRATEGY
Climate Change Allowance Results

Report Details:
Type: Junctions
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

Junction	Inlet Name	Incoming Item(s)	Bypass Destination	Capacity	Type
39	Inlet	3.020	(None)	No	Restriction

Outlets	
Junction	Outlet Name
1	Outlet
2	Outlet
3	Outlet
4	Outlet
5	Outlet
6	Outlet
7	Outlet
8	Outlet
9	Outlet
12	Outlet
10	Outlet
11	Outlet
13	Outlet
14	Outlet
15	Outlet
16	Outlet
20	Outlet
21	Outlet
22	Outlet
23	Outlet
24 (1)	Outlet
25 (1)	Outlet
26	Outlet
27	Outlet
28	Outlet
29	Outlet
30	Outlet
31	Outlet
32	Outlet
33	Outlet
35	Outlet
36	Outlet
37	Outlet
38	Outlet
39	Outlet

Outgoing Connection	Outlet Type
1.000	Free Discharge
1.001	Free Discharge
1.002	Free Discharge
1.003	Free Discharge
1.004	Free Discharge
1.005	Free Discharge
1.006	Free Discharge
1.007	Free Discharge
1.008	Free Discharge
1.009	Free Discharge
2.000	Free Discharge
2.001	Free Discharge
1.010	Free Discharge
1.011	Free Discharge
1.012	Free Discharge
1.013	Free Discharge
3.005	Free Discharge
3.004	Free Discharge
3.010	Free Discharge
3.009	Free Discharge
3.007	Free Discharge
3.006	Free Discharge
3.000	Free Discharge
3.001	Free Discharge
3.002	Free Discharge
3.011	Free Discharge
3.012	Free Discharge
3.013	Free Discharge
3.020	Free Discharge
3.022	Free Discharge
3.016	Free Discharge
3.017	Free Discharge
3.018	Free Discharge
3.023	Free Discharge
3.021	Free Discharge

Created in InfoDrainage 2024.4

5/87

EW LINK STRATEGY:
Climate Change Allowance Results

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Report Details:
Type: Connections
Storm Phase: Storm

Company Address:

I

DRN

Name	Downstre am Cover Level (m)	Downstre am Invert Level (m)	Part Family	Lock	Flow Restrictio n (L/s)
1.000	8.600	7.255		None	
1.001	8.810	7.085		None	
1.002	9.000	6.301		None	
1.003	9.100	6.045		All	
1.004	8.950	5.792		All	
1.005	8.500	5.443		All	
1.006	8.250	5.269		All	
1.007	8.050	5.060		All	
1.008	7.780	4.949		None	
2.000	7.690	6.017		None	
2.001	7.780	5.249		None	
1.009	7.950	4.940		All	
1.010	7.900	4.923		All	
1.011	6.600	4.848		All	
1.012	5.500	4.800		None	
1.013	4.700	3.750		None	
3.000	8.650	6.414		None	
3.001	8.491	5.827		All	
3.002	8.235	5.485		All	
3.004	8.250	5.220		All	
3.005	8.250	5.119		All	
3.006	9.085	6.787		None	
3.007	9.359	6.523		All	
3.009	8.913	5.873		All	
3.010	8.235	5.485		All	
3.011	7.281	5.325		None	
3.012	6.713	4.987		Levels	
3.013	6.783	4.703		Levels	
3.016	6.153	4.835		All	
3.017	5.865	4.554		Levels	
3.018	4.824	3.852		Levels	
3.020	5.427	3.962		Levels	
3.021	4.870	3.887		Levels	
3.022	4.700	3.750		None	
3.023	4.700	3.750		None	
Outlet	4.400	3.600		None	22.03

EW LINK STRATEGY:
Climate Change Allowance Results

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Report Details:
Type: Network Design Criteria
Storm Phase: Storm

Company Address:

I

DRN

Flow Options

Peak Flow Calculation

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 Inverts

Min. Slope (1:X)

1000.00

Max. Slope (1:X)

40.00

Use Flow Restriction

☒

Reduce Channel Depths

☒

Pipe Size Library

Add. Increment (mm)

0

Max. Diameter (mm)

0

Diameter (mm)

Min. Slope (1:X)

Max. Slope (1:X)

150

0.00

0.00

225

0.00

0.00

Manhole Options

Apply Offset

☐

Manhole Size Library

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

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

Benching Requirements

Landing Width (mm)

0

Benching Width (mm)

0

Created in InfoDrainage 2024.4

EW LINK STRATEGY:
Climate Change Allowance Results

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Report Details:
Type: Outfall Details
Storm Phase: Storm

Company Address:

I

DRN

Outfalls

Outfall

Outfall Type

Fixed Surcharged Level (m)

Level Curve

19

Free Discharge

EW LINK STRATEGY:
Climate Change Allowance Results

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Report Title:
Rainfall Analysis Criteria

Company Address:

I

DRN

Runoff Type

Dynamic

Output Interval (mins)

5

Time Step

Default

Urban Creep

Use Catchment Values

Junction Flood Risk Margin (mm)

0

Perform No Discharge Analysis

☐

Rainfall

Sim Criteria FEH

Type: FEH

Site Location

GB 494145 104717

SU 94145 04717

Rainfall Version

2022

Summer

☒

Winter

☒

Return Period	
Return Period (years)	Increase Rainfall (%)
100.0	45.000
100.0	0.000
30.0	40.000
30.0	0.000

Storm Durations	
Duration (mins)	Run Time (mins)
15	30
30	60
60	120
120	240
240	480
360	720
480	960
960	1920
1440	2880

EW LINK STRATEGY:
Climate Change Allowance Results

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Report Details:
Type: Inflows Summary
Storm Phase: Storm

Company Address:

I

DRN

 Critical Storm Per Item: Rank By: Max. Inflow

Inflow	Storm Event	Inflow Area (ha)	Max. Inflow (L/s)	Total Inflow Volume (m³)
1 – DA Link	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.01	9.0	3.890
2 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.03	17.0	7.381
3 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.04	23.8	10.341
3 – DA (1)	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.02	10.3	4.463
4 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.03	22.5	9.771
5 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.04	24.7	10.731

EW LINK STRATEGY:
Climate Change Allowance Results

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Report Details:
Type: Inflows Summary
Storm Phase: Storm

Company Address:

I

DRN

6 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.08	51.3	22.277
7 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.10	68.5	29.741
8 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.07	47.9	20.780
8 – DA (1)	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.06	40.1	17.421
10 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.06	43.0	18.660
11 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.04	23.9	10.377
12 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.03	17.3	7.513

EW LINK STRATEGY:
Climate Change Allowance Results

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Report Details:
Type: Inflows Summary
Storm Phase: Storm

Company Address:

I

DRN

12 – DA (1)	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.07	46.1	19.995
15 – DA	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.02	15.0	6.502
Basin Area	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.40	203.6	88.334
Resi Area 1	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.15	83.1	36.045
Resi Area 2 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.22	120.5	52.288
Resi Area 3 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.08	45.2	19.596
Resi Area 4 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.09	49.0	21.248

EW LINK STRATEGY:
Climate Change Allowance Results

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Report Details:
Type: Inflows Summary
Storm Phase: Storm

Company Address:

I

DRN

Road Area 1 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.06	39.4	17.086
Resi Area 5 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.26	135.1	58.619
Road Area 3 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.11	75.1	32.603
Road Area 2 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.07	50.1	21.749
Resi Area 6 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.30	161.2	69.938
Resi Area 7 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.46	247.8	107.528
Resi Area 8 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.37	197.9	85.857

EW LINK STRATEGY Climate Change Allowance Results					Date: 22/09/2023					Designed by: UKJXB042					Checked by:					Approved By:					I DRN				
Report Details: Type: Inflows Summary Storm Phase: Storm					Company Address:																								
Resi Area 9 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.08			42.5	18.420																							
Resi Area 10C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.05			29.1	12.608																							
Resi Area 11 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.06			29.9	12.989																							
Resi Area 12 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.08			42.9	18.603																							
Resi Area 13 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.27			146.9	63.727																							
Resi Area 14 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.16			87.3	37.869																							
Resi Area 15 C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.21			112.0	48.617																							

Created in InfoDrainage 2024.4

17/87

EW LINK STRATEGY Climate Change Allowance Results					Date: 22/09/2023 Designed by: UKJXB042					Checked by:					Approved By:					I DRN								
Report Details: Type: Inflows Summary Storm Phase: Storm					Company Address:																							
Resi Area C	16	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.15		81.7	35.431																						
Resi Area C	17	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.21		113.7	49.343																						
Resi Area C	18	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.04		20.1	8.706																						
Resi Area C	19	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.04		20.5	8.904																						
Resi Area C	20	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.07		35.5	15.412																						
Resi Area C	21	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.06		30.0	12.998																						
Resi Area C	22	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.03		16.4	7.135																						

Created in InfoDrainage 2024.4

18/87

EW LINK STRATEGY: Climate Change Allowance Results					Date: 22/09/2023					Designed by: UKJXB042					Checked by:					Approved By:					I DRN				
Report Details: Type: Inflows Summary Storm Phase: Storm					Company Address:																								
Resi Area C	23	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.01		6.8	2.930																							
Resi Area C	24	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.31		169.5	73.536																							
Resi Area (B)C	16	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.08		42.2	18.524																							
Resi Area (B) C	15	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.11		58.5	25.387																							
Resi Area (B) C	1	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.15		80.6	34.960																							
Resi Area (B) C	2	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.37		201.8	87.566																							
Resi Area (B) C	4	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.03		16.5	7.180																							

Created in InfoDrainage 2024.4

19/87

EW LINK STRATEGY Climate Change Allowance Results					Date 22/09/2023 Designed by UKJXB042					Checked by:					Approved By:					I DRN								
Report Details Type: Inflows Summary Storm Phase: Storm					Company Address:																							
Resi Area 3 (B) C	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	0.06			33.1	14.368																						

Created in InfoDrainage 2024.4

20/87

EW LINK STRATEGY: Climate Change Allowance Results					Date: 22/09/2023					Designed by: UKJXB042					Checked by:					Approved By:					I DRN				
Report Details: Type: Junctions Summary Storm Phase: Storm					Company Address:																								



Critical Storm Per Item: Rank By: Max. Flooded 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
1	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.500	7.400	8.506	1.106	16.0	7.025	5.781	11.7	9.040	Flood
2	Sim Criteria FEH: 100 years: +45 %: 30 mins: Summer	8.600	7.255	8.600	1.345	22.3	1.626	0.105	23.8	21.087	Flood
3	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.810	7.085	8.414	1.329	34.1	1.503	0.000	40.1	29.396	Surcharged
4	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	9.000	6.301	8.293	1.992	40.1	2.253	0.000	50.9	35.824	Surcharged
5	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	9.100	6.045	8.198	2.153	50.9	2.435	0.000	61.5	46.751	Surcharged
6	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.950	5.717	8.148	2.431	66.3	2.750	0.000	69.7	68.887	Surcharged
7	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.500	5.368	7.958	2.590	122.3	3.706	0.000	115.3	98.445	Surcharged
8	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.250	5.119	7.871	2.752	588.9	4.863	0.000	583.2	471.017	Surcharged
9	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.050	5.060	7.438	2.378	583.2	4.202	0.000	574.1	470.708	Surcharged

Created in InfoDrainage 2024.4

21/87

EW LINK STRATEGY Climate Change Allowance Results					Date: 22/09/2023					I DRN					
Report Details: Type: Junctions Summary Storm Phase: Storm					Designed by: UKJXB042		Checked by:		Approved By:						
					Company Address:										
12	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	7.78 0	4.94 9	6.76 3	1.814	680.2	3.205	0.000	668.4	526.940	Surcharged				
10	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	7.77 0	6.14 5	6.97 0	0.825	43.0	0.933	0.000	30.4	18.670	Surcharged				
11	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	7.69 0	6.01 7	6.88 3	0.866	54.3	0.979	0.000	43.1	28.966	Surcharged				
13	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	7.95 0	4.94 0	6.48 0	1.540	668.4	2.721	0.000	658.4	526.795	Surcharged				
14	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	7.90 0	4.92 3	6.14 9	1.226	658.4	2.166	0.000	649.9	526.503	Surcharged				
15	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	6.60 0	4.84 8	5.43 7	0.589	664.8	1.041	0.000	658.8	532.710	Surcharged				
16	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer		4.80 0	5.03 4	0.234	658.8			657.2	532.685	OK				
19	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	4.40 0	3.60 0	3.67 1	0.071	22.4	0.000	0.000	22.4	25.068	OK				
20	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.25 0	5.22 0	8.00 5	2.785	465.2	3.150	0.000	466.5	334.565	Surcharged				
21	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.23 5	5.48 5	8.26 1	2.776	575.1	29.461	26.351	465.2	334.692	Flood				
22	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.91 3	5.87 3	8.43 8	2.565	297.7	2.902	0.000	298.5	177.828	Surcharged				

Created in InfoDrainage 2024.4

22/87

EW LINK STRATEGY: Climate Change Allowance Results					Date: 22/09/2023					Designed by: UKJXB042					Checked by:					Approved By:					I DRN				
Report Details: Type: Junctions Summary Storm Phase: Storm					Company Address:																								
23	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	9.35 9	6.44 8	8.74 5	2.297	240.7	2.598	0.000	248.7	155.827	Surcharged																		
24 (1)	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	9.08 5	6.78 7	8.99 2	2.206	182.9	2.495	0.000	194.2	135.363	Surcharged																		
25 (1)	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	9.09 1	7.29 1	9.09 8	1.807	206.1	8.603	6.567	147.7	89.034	Flood																		
26	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.65 1	6.84 2	8.65 3	1.811	201.8	4.153	2.107	129.9	87.410	Flood																		
27	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.65 0	6.41 4	8.51 2	2.098	129.9	2.373	0.000	130.1	86.549	Surcharged																		
28	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	8.49 1	5.75 2	8.37 4	2.622	237.5	2.965	0.000	237.2	140.415	Surcharged																		
29	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	7.94 0	6.14 0	7.94 3	1.803	277.0	4.813	2.777	212.2	120.184	Flood																		
30	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	7.28 1	5.32 5	7.28 7	1.962	480.5	7.827	5.615	394.1	236.543	Flood																		
31	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	6.71 3	4.91 2	6.27 1	1.359	415.8	1.537	0.000	414.2	258.268	Surcharged																		
32	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	6.78 3	4.70 3	5.86 4	1.161	414.2	1.313	0.000	417.6	258.487	Surcharged																		
33	Sim Criteria FEH: 100 years: +45 %: 960 mins: Winter	4.87 0	3.88 7	4.88 9	1.002	60.4	20.229	19.117	60.2	1380.265	Flood																		

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023			
	Designed by: UKJXB042	Checked by:	Approved By:	
Report Details: Type: Stormwater Controls Summary Storm Phase: Storm	Company Address:			



Critical Storm Per Item: Rank By: Max. Flooded 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
Attenuation Basin	Sim Criteria FEH: 100 years: +45 %: 960 mins: Winter	4.889	4.889	1.139	1.139	196.9	3461.866	731.176	0.000	23.2	2196.877	26.776	Flood

Created in InfoDrainage 2024.4

25/87

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023			
	Designed by: UKJXB042	Checked by:		Approved By:
	Company Address:			
Report Details: Type: Connections Summary Storm Phase: Storm				



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	Sim Criteria FEH: 100 years: +45 %: 60 mins: Summer	Pipe	1	2	8.500	8.502	0.150	6.755	1.1	0.8	19.3	Flood
1.001	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	2	3	8.600	8.442	0.225	11.336	0.7	0.6	26.5	Surcharged
1.002	Sim Criteria FEH: 100 years: +45 %: 15 mins: Winter	Pipe	3	4	8.810	8.409	0.225	26.044	1.1	0.44	41.8	Surcharged
1.003	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	4	5	9.000	8.293	0.225	35.824	1.3	1.24	50.9	Surcharged
1.004	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	5	6	9.100	8.198	0.225	46.751	1.5	1.5	61.5	Surcharged
1.005	Sim Criteria FEH: 100 years: +45 %: 60 mins: Summer	Pipe	6	7	8.950	8.123	0.300	118.774	1.2	1.05	82.3	Surcharged

Created in InfoDrainage 2024.4

26/87

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023			
	Designed by: UKIXB042	Checked by:		Approved By:
	Company Address:			
Report Details: Type: Connections Summary Storm Phase: Storm				

1.006	Sim Criteria FEH: 100 years: +45 %: 30 mins: Summer	Pipe	7	8	8.500	7.927	0.375	132.421	1.1	0.83	126.3	Surcharged
1.007	Sim Criteria FEH: 100 years: +45 %: 15 mins: Winter	Pipe	8	9	8.250	7.832	0.525	471.118	2.7	2.28	584.9	Surcharged
1.008	Sim Criteria FEH: 100 years: +45 %: 15 mins: Winter	Pipe	9	12	8.050	7.391	0.525	470.809	2.7	2.25	574.4	Surcharged
2.000	Sim Criteria FEH: 30 years: +40 %: 15 mins: Summer	Pipe	10	11	7.770	6.304	0.175	14.348	1.0	0.78	32.1	OK
2.001	Sim Criteria FEH: 100 years: +45 %: 30 mins: Summer	Pipe	11	12	7.690	6.857	0.225	38.974	1.7	0.34	44.9	Surcharged
1.009	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	12	13	7.780	6.763	0.525	526.940	3.1	2.5	668.4	Surcharged
1.010	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	13	14	7.950	6.480	0.525	526.795	3.0	2.52	658.4	Surcharged

Created in InfoDrainage 2024.4

27/87

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023			
	Designed by: UKJXB042	Checked by:		Approved By:
	Company Address:			
Report Details: Type: Connections Summary Storm Phase: Storm				

1.011	Sim Criteria FEH: 100 years: +45 %: 30 mins: Summer	Pipe	14	15	7.900	6.146	0.525	708.884	3.0	2.57	656.8	Surcharged
1.012	Sim Criteria FEH: 100 years: +45 %: 30 mins: Summer	Pipe	15	16	6.600	5.440	0.414	717.640	3.6	1.77	666.8	Surcharged
1.013	Sim Criteria FEH: 100 years: +45 %: 30 mins: Summer	Pipe	16	Attenuation Basin	5.500	5.036	0.398	717.485	5.6	0.42	666.8	OK
3.000	Sim Criteria FEH: 100 years: +0 %: 15 mins: Winter	Pipe	26	27	8.651	7.047	0.359	60.320	1.5	0.58	139.9	OK
3.001	Sim Criteria FEH: 100 years: +45 %: 30 mins: Summer	Pipe	27	28	8.650	8.521	0.375	116.918	1.5	0.54	131.1	Surcharged
3.002	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	28	21	8.491	8.374	0.450	140.279	1.5	0.61	237.2	Surcharged
3.004	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	21	20	8.235	8.261	0.525	334.690	2.1	1.09	465.2	Flood

Created in InfoDrainage 2024.4

28/87

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023			
	Designed by: UKJXB042	Checked by:	Approved By:	
	Company Address:			
Report Details: Type: Connections Summary Storm Phase: Storm				

I

DRN

3.005	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	20	8	8.250	8.005	0.525	334.565	2.2	1.09	466.5	Surcharged
3.006	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	25 (1)	24 (1)	9.091	9.098	0.375	88.958	1.3	0.84	147.7	Flood
3.007	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	24 (1)	23	9.085	8.992	0.375	135.287	1.8	0.87	194.2	Surcharged
3.009	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	23	22	9.359	8.745	0.450	155.822	1.6	0.72	248.7	Surcharged
3.010	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	22	21	8.913	8.438	0.525	177.821	1.4	0.7	298.5	Surcharged
3.011	Sim Criteria FEH: 100 years: +45 %: 15 mins: Winter	Pipe	29	30	7.940	7.942	0.375	120.126	1.9	0.88	212.3	Flood
3.012	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	30	31	7.281	7.287	0.375	236.543	3.6	1.69	394.1	Flood

Created in InfoDrainage 2024.4

29/87

E-W LINK STRATEGY Climate Change Allowance Results	Date 22/09/2023			
	Designed by: UKJXB042	Checked by:	Approved By:	
	Report Details: Type: Connections Summary Storm Phase: Storm		Company Address:	
			I DRN	

3.013	Sim Criteria FEH: 100 years: +45 %: 15 mins: Winter	Pipe	31	32	6.713	6.247	0.450	258.098	2.6	1.1	415.1	Surcharged
3.016	Sim Criteria FEH: 100 years: +45 %: 15 mins: Winter	Pipe	35	36	7.070	7.071	0.375	133.084	2.3	1.29	250.6	Flood
3.017	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	36	37	6.153	6.198	0.375	243.692	2.9	1.63	317.2	Flood
3.018	Sim Criteria FEH: 100 years: +0 %: 15 mins: Winter	Pipe	37	38	5.865	5.323	0.450	188.268	2.2	1.12	352.8	Surcharged
3.020	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	32	39	6.783	5.864	0.450	258.487	2.6	1.11	417.6	Surcharged
3.021	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	39	33	5.427	4.837	0.525	254.683	2.0	0.75	423.0	Surcharged
3.022	Sim Criteria FEH: 100 years: +45 %: 15 mins: Summer	Pipe	33	Attenuation Basin	4.870	4.650	0.513	431.504	3.8	1.46	819.7	Surcharged

Created in InfoDrainage 2024.4

30/87

E-W LINK STRATEGY Climate Change Allowance Results	Date 22/09/2023		I DRN	
	Designed by: UKJXB042	Checked by:		Approved By:
	Company Address:			
Report Details: Type: Connections Summary Storm Phase: Storm				

3.023	Sim Criteria FEH: 30 years: +40 %: 15 mins: Summer	Pipe	38	Attenuation Basin	4.824	4.489	0.450	276.439	3.2	1.61	505.8	Surcharged
Outlet	Sim Criteria FEH: 100 years: +45 %: 960 mins: Winter	Pipe	19	Attenuation Basin	4.700	4.889	0.075	2195.888	1.5	0.08	23.2	Flood

Created in InfoDrainage 2024.4

31/87

E-W LINK STRATEGY Climate Change Allowance Results	Date 22/09/2023			
	Designed by: UKJXB042	Checked by:	Approved By:	
	Company Address:			
Report Details: Type: Phase Management Storm Phase: Storm				

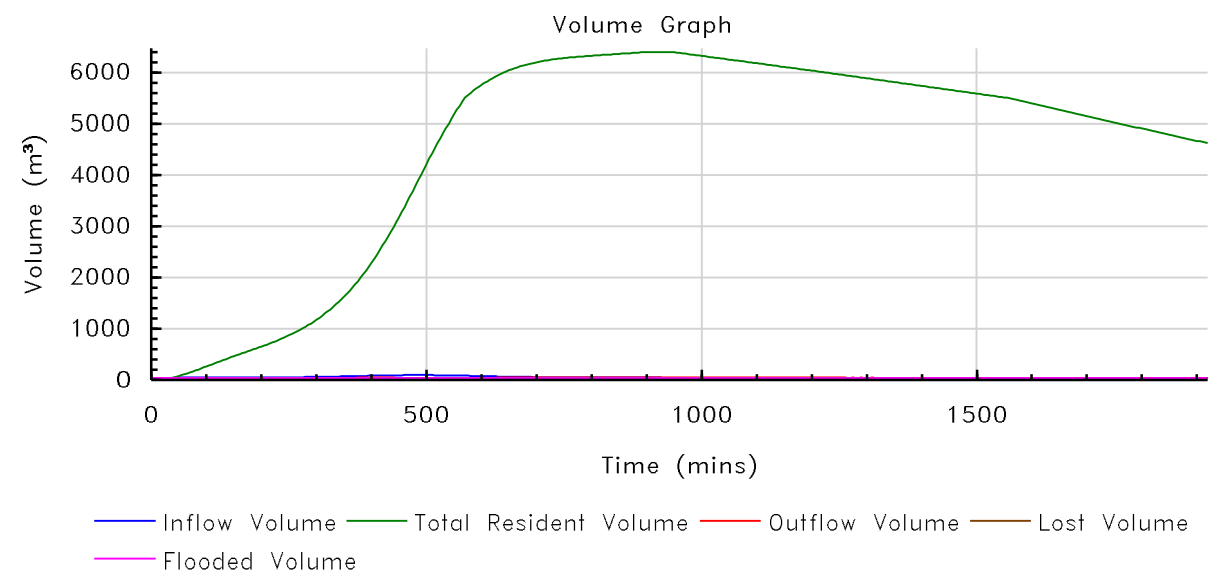
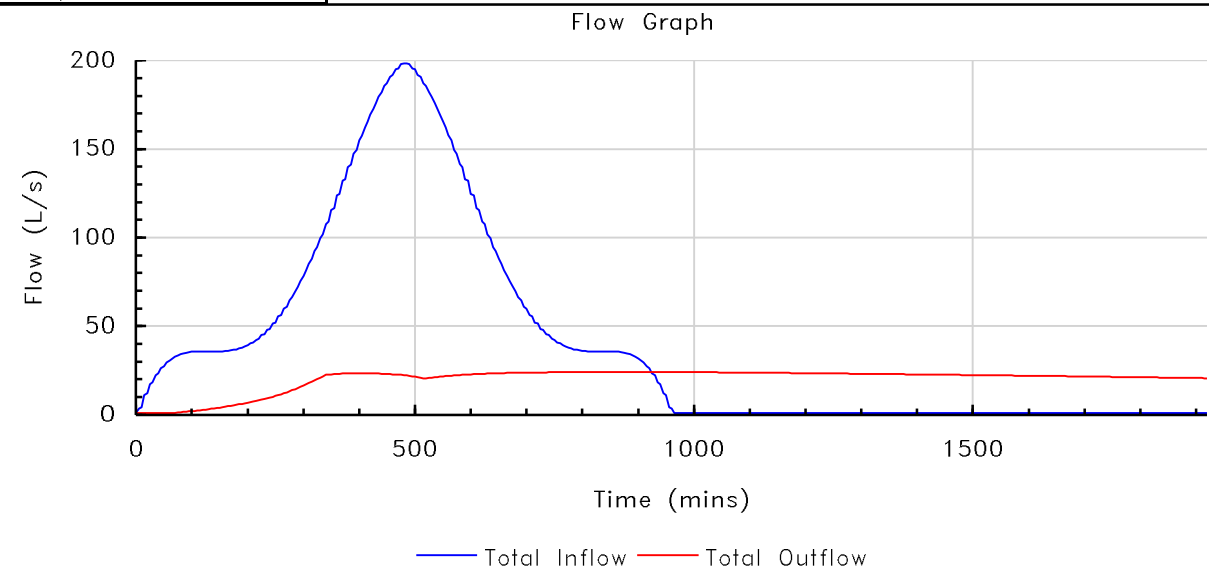


Storm
Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 960 mins: Winter

Tables

Name	Max. Inflow (L/s)	Total Inflow Volume (m³)	Max. Outflow (L/s)	Total Outflow Volume (m³)
19			23.2	2195.888
TOTAL	198.2	4514.726	23.2	2195.888

Graphs



Created in InfoDrainage 2024.4

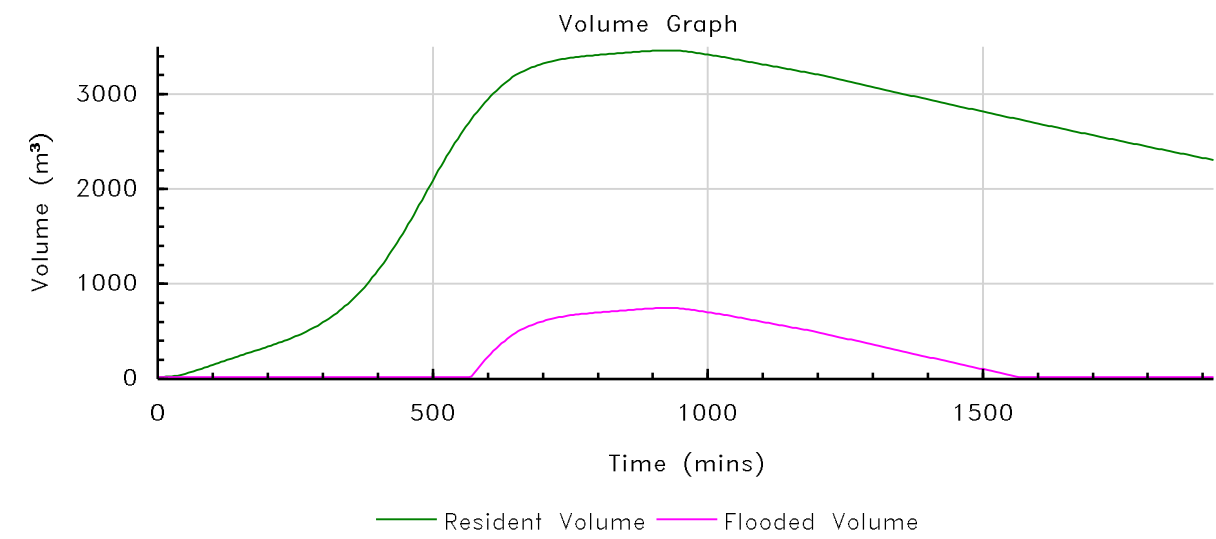
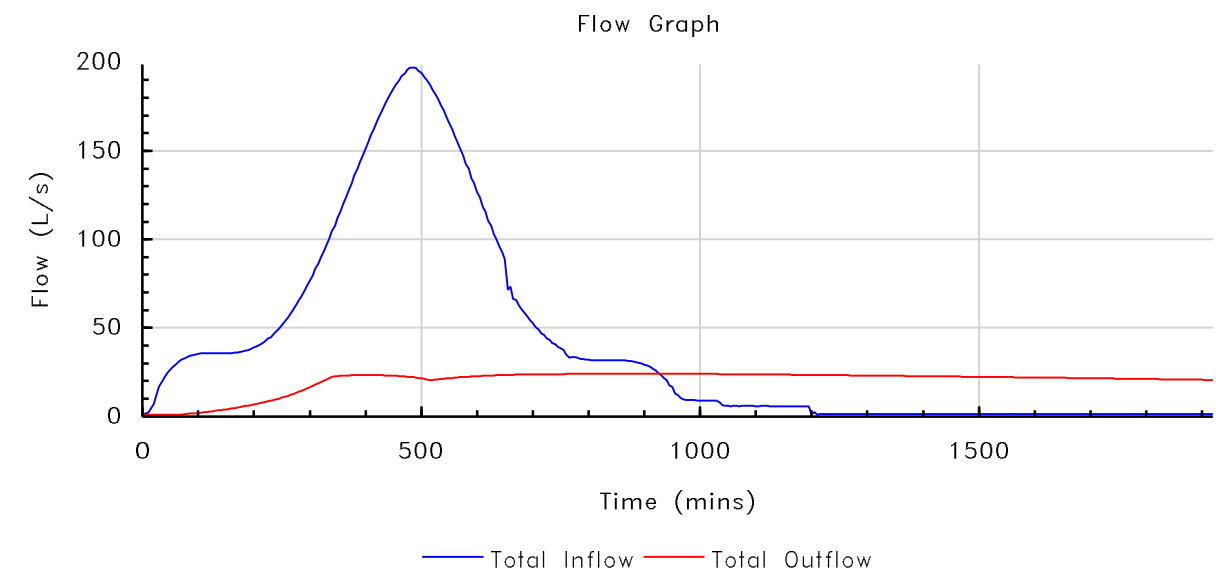
32/87

E/W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: Storm	Company Address:			



Attenuation Basin
Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 960 mins: Winter
Type : Pond

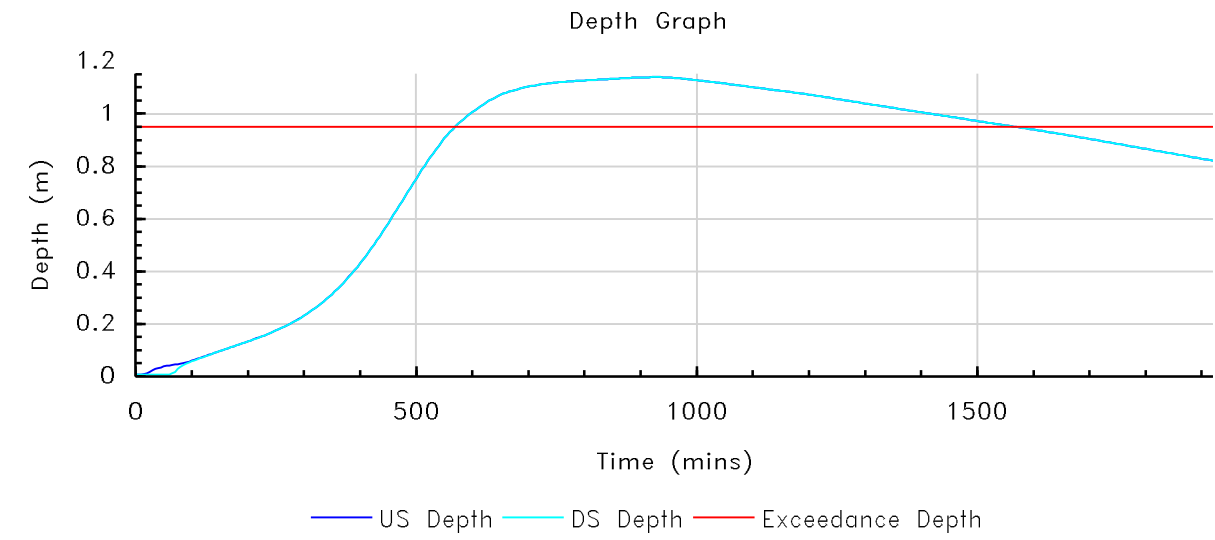
Graphs



Created in InfoDrainage 2024.4

33/87

E/W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: Storm	Company Address:			



Created in InfoDrainage 2024.4

34/87

E/W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: Storm	Company Address:			



Tables

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume (m³)	Flooded Volume (m³)	Total Outflow (L/s)
0	0.0	0.000	0.000	0.000	0.000	0.0
5	0.5	0.000	0.000	0.049	0.000	0.0
10	1.0	0.001	0.000	0.272	0.000	0.0
15	3.3	0.002	0.000	0.863	0.000	0.0
20	6.1	0.004	0.000	2.223	0.000	0.0
25	11.2	0.009	0.000	4.697	0.000	0.0
30	15.8	0.016	0.000	8.875	0.000	0.0
35	18.9	0.021	0.000	14.038	0.000	0.0
40	21.4	0.025	0.000	20.098	0.000	0.0
45	23.6	0.028	0.000	26.805	0.000	0.0
50	25.6	0.030	0.000	34.198	0.000	0.0
55	27.3	0.033	0.000	42.102	0.000	0.0
60	28.8	0.035	0.001	50.522	0.000	0.0
65	30.0	0.037	0.003	59.344	0.000	0.0
70	31.1	0.038	0.010	68.507	0.000	0.1
75	32.0	0.040	0.021	77.953	0.000	0.2
80	32.8	0.041	0.030	87.595	0.000	0.3
85	33.4	0.043	0.036	97.396	0.000	0.5
90	33.9	0.046	0.041	107.299	0.000	0.7
95	34.2	0.049	0.046	117.296	0.000	0.8
100	34.5	0.052	0.050	127.342	0.000	1.0
105	34.7	0.056	0.054	137.416	0.000	1.1
110	34.8	0.060	0.058	147.486	0.000	1.3
115	34.9	0.064	0.062	157.526	0.000	1.5
120	34.9	0.067	0.066	167.521	0.000	1.7
125	34.9	0.071	0.070	177.464	0.000	1.9
130	34.9	0.075	0.074	187.358	0.000	2.0
135	34.9	0.079	0.078	197.190	0.000	2.3
140	34.9	0.083	0.082	206.947	0.000	2.5
145	34.9	0.086	0.086	216.621	0.000	2.7
150	34.9	0.090	0.090	226.227	0.000	3.0
155	34.9	0.094	0.093	235.765	0.000	3.2
160	35.0	0.097	0.097	245.242	0.000	3.5
165	35.1	0.101	0.101	254.674	0.000	3.7
170	35.3	0.105	0.105	264.072	0.000	4.0
175	35.6	0.108	0.108	273.457	0.000	4.3
180	35.9	0.112	0.112	282.847	0.000	4.5
185	36.3	0.116	0.115	292.260	0.000	4.8
190	36.7	0.119	0.119	301.720	0.000	5.1
195	37.4	0.123	0.123	311.243	0.000	5.4
200	37.9	0.127	0.127	320.867	0.000	5.7
205	38.8	0.131	0.130	330.599	0.000	6.1
210	39.6	0.134	0.134	340.501	0.000	6.4
215	40.7	0.138	0.138	350.550	0.000	6.7
220	41.6	0.142	0.142	360.635	0.000	7.1
225	43.0	0.146	0.146	371.323	0.000	7.5
230	44.1	0.150	0.150	382.083	0.000	7.9
235	45.6	0.155	0.154	393.086	0.000	8.3

Created in InfoDrainage 2024.4

35/87

E/W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: Storm	Company Address:			



Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume (m³)	Flooded Volume (m³)	Total Outflow (L/s)
240	47.0	0.159	0.159	404.493	0.000	8.7
245	49.1	0.163	0.163	416.188	0.000	9.1
250	50.8	0.168	0.168	428.375	0.000	9.6
255	52.7	0.173	0.173	440.899	0.000	10.1
260	54.8	0.178	0.178	453.975	0.000	10.6
265	57.1	0.183	0.183	467.448	0.000	11.1
270	59.3	0.188	0.188	481.529	0.000	11.7
275	62.1	0.194	0.194	496.069	0.000	12.3
280	64.6	0.200	0.200	511.263	0.000	12.9
285	66.8	0.206	0.205	527.002	0.000	13.5
290	70.1	0.212	0.212	543.445	0.000	14.1
295	73.0	0.218	0.218	560.511	0.000	14.8
300	76.4	0.225	0.225	578.295	0.000	15.5
305	79.0	0.232	0.232	596.784	0.000	16.2
310	82.7	0.239	0.239	616.019	0.000	17.0
315	85.9	0.247	0.246	636.045	0.000	17.7
320	89.3	0.254	0.254	656.827	0.000	18.5
325	92.4	0.262	0.262	678.470	0.000	19.2
330	96.6	0.271	0.271	700.901	0.000	20.0
335	99.7	0.279	0.279	724.289	0.000	20.8
340	104.2	0.288	0.288	748.455	0.000	21.5
345	107.2	0.298	0.298	773.754	0.000	21.7
350	112.0	0.307	0.307	800.003	0.000	21.8
355	114.9	0.317	0.317	827.560	0.000	22.0
360	120.0	0.328	0.328	856.075	0.000	22.1
365	123.0	0.339	0.339	886.006	0.000	22.2
370	128.0	0.350	0.350	916.874	0.000	22.2
375	131.2	0.362	0.362	949.179	0.000	22.3
380	136.0	0.374	0.374	982.448	0.000	22.4
385	139.4	0.386	0.386	1017.121	0.000	22.4
390	143.4	0.399	0.399	1052.715	0.000	22.5
395	146.8	0.412	0.412	1089.556	0.000	22.5
400	151.2	0.426	0.425	1127.443	0.000	22.5
405	154.7	0.439	0.439	1166.638	0.000	22.5
410	158.7	0.454	0.454	1206.867	0.000	22.5
415	162.3	0.468	0.468	1248.305	0.000	22.4
420	166.0	0.483	0.483	1290.799	0.000	22.4
425	169.5	0.498	0.498	1334.471	0.000	22.4
430	172.8	0.514	0.514	1379.058	0.000	22.3
435	176.3	0.530	0.529	1424.730	0.000	22.3
440	179.2	0.546	0.546	1471.407	0.000	22.2
445	182.5	0.562	0.562	1518.990	0.000	22.1
450	184.9	0.578	0.578	1567.501	0.000	22.0
455	187.9	0.595	0.595	1616.776	0.000	22.0
460	189.8	0.612	0.612	1666.891	0.000	21.9
465	192.3	0.629	0.629	1717.628	0.000	21.8
470	193.8	0.646	0.646	1769.082	0.000	21.6
475	195.8	0.664	0.664	1821.032	0.000	21.5
480	196.8	0.681	0.681	1873.534	0.000	21.4
485	196.9	0.699	0.699	1926.217	0.000	21.2
490	196.8	0.716	0.716	1978.962	0.000	21.0
495	195.2	0.733	0.733	2031.542	0.000	20.8

Created in InfoDrainage 2024.4

36/87

E/W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Stormwater Control Results Storm Phase: Storm	Company Address:			



Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume (m³)	Flooded Volume (m³)	Total Outflow (L/s)
500	194.1	0.750	0.750	2083.711	0.000	20.5
505	191.8	0.767	0.767	2155.539	0.000	20.2
510	190.1	0.783	0.783	2186.804	0.000	19.8
515	187.4	0.800	0.800	2237.603	0.000	19.4
520	184.7	0.816	0.816	2287.528	0.000	19.6
525	181.7	0.831	0.831	2336.602	0.000	19.8
530	179.1	0.847	0.847	2384.729	0.000	20.0
535	175.9	0.862	0.862	2431.977	0.000	20.2
540	172.7	0.876	0.876	2478.189	0.000	20.3
545	169.1	0.890	0.890	2523.371	0.000	20.5
550	165.6	0.904	0.904	2567.427	0.000	20.7
555	162.2	0.917	0.917	2610.375	0.000	20.8
560	158.0	0.929	0.929	2652.181	0.000	20.9
565	154.8	0.940	0.940	2692.806	0.000	21.1
570	150.3	0.950	0.950	2732.302	1.611	21.2
575	147.2	0.960	0.960	2770.525	39.835	21.3
580	142.3	0.970	0.970	2807.639	76.949	21.4
585	139.4	0.979	0.979	2843.425	112.734	21.5
590	134.2	0.988	0.988	2878.127	147.437	21.6
595	131.5	0.997	0.997	2911.301	180.610	21.7
600	126.1	1.005	1.005	2943.513	212.823	21.8
605	123.4	1.013	1.013	2974.282	243.592	21.9
610	117.9	1.021	1.021	3003.968	273.277	22.0
615	115.0	1.028	1.028	3032.207	301.517	22.0
620	110.1	1.035	1.035	3059.440	328.750	22.1
625	107.2	1.042	1.042	3085.314	354.624	22.2
630	102.6	1.048	1.048	3110.177	379.487	22.3
635	99.5	1.054	1.054	3133.755	403.065	22.3
640	95.3	1.060	1.060	3156.316	425.625	22.4
645	92.1	1.066	1.066	3177.680	446.989	22.4
650	88.4	1.071	1.071	3198.036	467.346	22.5
655	70.9	1.076	1.076	3216.251	485.560	22.5
660	72.7	1.079	1.079	3230.079	499.389	22.6
665	65.5	1.083	1.083	3244.003	513.312	22.6
670	65.1	1.086	1.086	3257.019	526.329	22.7
675	62.2	1.089	1.089	3269.188	538.498	22.7
680	59.9	1.092	1.092	3280.727	550.037	22.7
685	57.6	1.095	1.095	3291.561	560.870	22.7
690	55.8	1.098	1.098	3301.698	571.007	22.8
695	53.4	1.100	1.100	3311.278	580.587	22.8

EW LINK STRATEGY:
Climate Change Allowance
Results

Report Details:
Type: Stormwater Control Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Company Address:

I

DRN

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume (m³)	Flooded Volume (m³)	Total Outflow (L/s)
1540	0.2	0.958	0.958	2761.896	31.205	21.3
1545	0.1	0.956	0.956	2755.565	24.874	21.2
1550	0.1	0.955	0.955	2749.237	18.546	21.2
1555	0.1	0.953	0.953	2742.913	12.223	21.2
1560	0.1	0.952	0.952	2736.594	5.904	21.2
1565	0.1	0.950	0.950	2730.280	0.000	21.2
1570	0.1	0.948	0.948	2723.972	0.000	21.2
1575	0.1	0.947	0.947	2717.668	0.000	21.1
1580	0.1	0.945	0.945	2711.370	0.000	21.1
1585	0.1	0.943	0.943	2705.078	0.000	21.1
1590	0.1	0.942	0.942	2698.791	0.000	21.1
1595	0.1	0.940	0.940	2692.511	0.000	21.1
1600	0.1	0.938	0.938	2686.237	0.000	21.0
1605	0.1	0.937	0.937	2679.969	0.000	21.0
1610	0.1	0.935	0.935	2673.707	0.000	21.0
1615	0.1	0.933	0.933	2667.451	0.000	21.0
1620	0.1	0.931	0.931	2661.201	0.000	21.0
1625	0.1	0.930	0.930	2654.958	0.000	20.9
1630	0.1	0.928	0.928	2648.719	0.000	20.9
1635	0.1	0.926	0.926	2642.487	0.000	20.9
1640	0.1	0.924	0.924	2636.261	0.000	20.9
1645	0.1	0.923	0.923	2630.041	0.000	20.9
1650	0.1	0.921	0.921	2623.826	0.000	20.9
1655	0.1	0.919	0.919	2617.619	0.000	20.8
1660	0.2	0.917	0.917	2611.418	0.000	20.8
1665	0.2	0.915	0.915	2605.224	0.000	20.8
1670	0.2	0.914	0.914	2599.036	0.000	20.8
1675	0.2	0.912	0.912	2592.855	0.000	20.7
1680	0.2	0.910	0.910	2586.681	0.000	20.7
1685	0.2	0.908	0.908	2580.514	0.000	20.7
1690	0.2	0.906	0.906	2574.354	0.000	20.7
1695	0.2	0.904	0.904	2568.200	0.000	20.7
1700	0.2	0.902	0.902	2562.053	0.000	20.6
1705	0.2	0.900	0.900	2555.914	0.000	20.6
1710	0.2	0.899	0.899	2549.781	0.000	20.6
1715	0.2	0.897	0.897	2543.656	0.000	20.6
1720	0.2	0.895	0.895	2537.537	0.000	20.5
1725	0.2	0.893	0.893	2531.424	0.000	20.5
1730	0.2	0.891	0.891	2525.319	0.000	20.5
1735	0.2	0.889	0.889	2519.220	0.000	20.5
1740	0.2	0.887	0.887	2513.127	0.000	20.5
1745	0.2	0.885	0.885	2507.042	0.000	20.4
1750	0.2	0.883	0.883	2500.963	0.000	20.4
1755	0.2	0.881	0.881	2494.891	0.000	20.4
1760	0.2	0.879	0.879	2488.825	0.000	20.4
1765	0.2	0.878	0.878	2482.767	0.000	20.3
1770	0.2	0.876	0.876	2476.715	0.000	20.3
1775	0.2	0.874	0.874	2470.669	0.000	20.3
1780	0.2	0.872	0.872	2464.630	0.000	20.3
1785	0.2	0.870	0.870	2458.598	0.000	20.3
1790	0.2	0.868	0.868	2452.573	0.000	20.2
1795	0.2	0.866	0.866	2446.553	0.000	20.2

Created in InfoDrainage 2024.4

41/87

EW LINK STRATEGY:
Climate Change Allowance
Results

Report Details:
Type: Stormwater Control Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Company Address:

I

DRN

Time (mins)	Total Inflow (L/s)	US Depth (m)	DS Depth (m)	Resident Volume (m³)	Flooded Volume (m³)	Total Outflow (L/s)
1800	0.2	0.864	0.864	2440.541	0.000	20.2
1805	0.2	0.862	0.862	2434.535	0.000	20.2
1810	0.2	0.860	0.860	2428.536	0.000	20.1
1815	0.2	0.859	0.859	2422.544	0.000	20.1
1820	0.2	0.857	0.857	2416.559	0.000	20.1
1825	0.2	0.855	0.855	2410.582	0.000	20.1
1830	0.2	0.853	0.853	2404.612	0.000	20.1
1835	0.2	0.851	0.851	2398.650	0.000	20.0
1840	0.2	0.849	0.849	2392.695	0.000	20.0
1845	0.2	0.847	0.847	2386.748	0.000	20.0
1850	0.2	0.845	0.845	2380.808	0.000	20.0
1855	0.2	0.843	0.843	2374.876	0.000	19.9
1860	0.2	0.842	0.842	2368.951	0.000	19.9
1865	0.2	0.840	0.840	2363.034	0.000	19.9
1870	0.2	0.838	0.838	2357.124	0.000	19.9
1875	0.2	0.836	0.836	2351.221	0.000	19.8
1880	0.2	0.834	0.834	2345.324	0.000	19.8
1885	0.2	0.832	0.832	2339.435	0.000	19.8
1890	0.2	0.830	0.830	2333.552	0.000	19.8
1895	0.2	0.828	0.828	2327.676	0.000	19.8
1900	0.2	0.827	0.827	2321.807	0.000	19.7
1905	0.2	0.825	0.825	2315.944	0.000	19.7
1910	0.2	0.823	0.823	2310.088	0.000	19.7
1915	0.2	0.821	0.821	2304.239	0.000	19.7
1920	0.2	0.819	0.819	2298.368	0.000	19.7

Created in InfoDrainage 2024.4

42/87

EW LINK STRATEGY:
Climate Change Allowance
Results

Report Details:
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

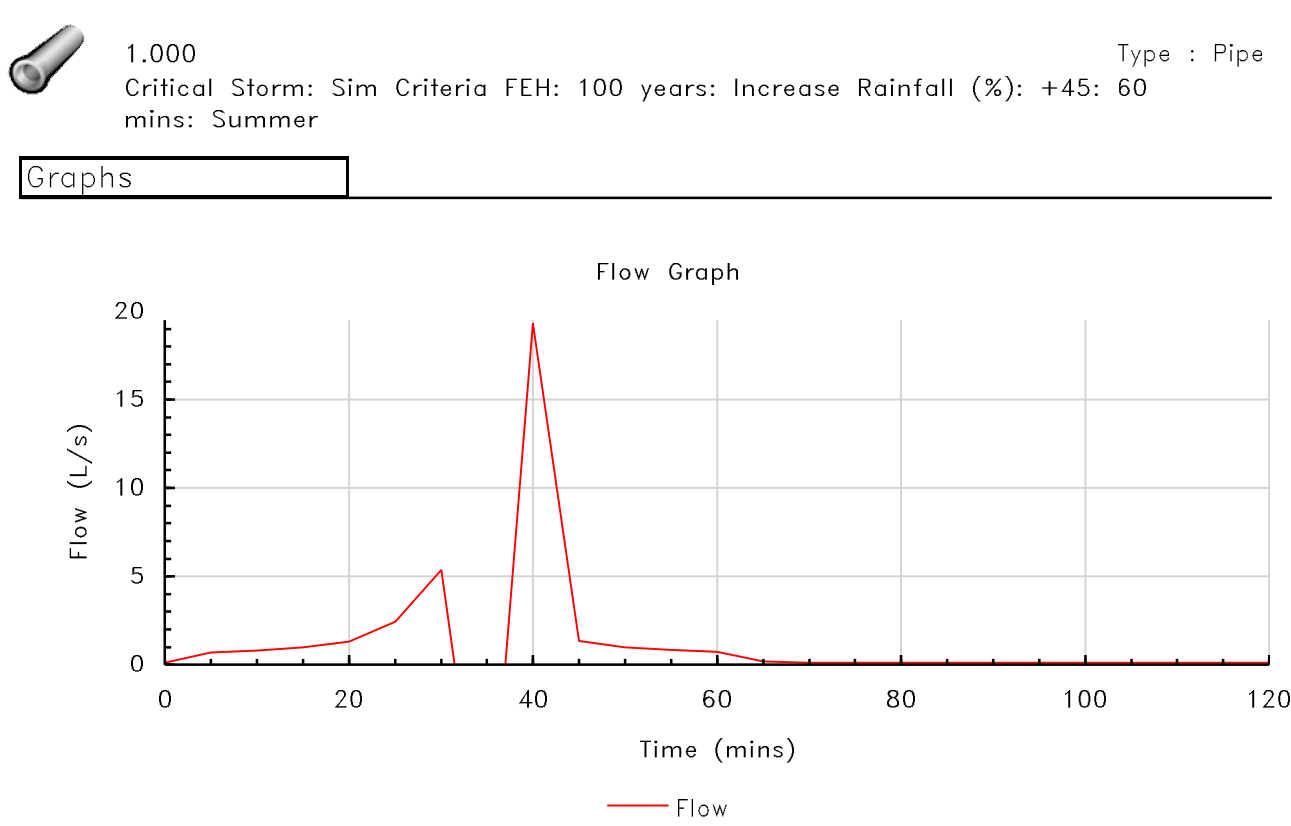
Checked by:

Approved By:

Company Address:

I

DRN



Created in InfoDrainage 2024.4

43/87

EW LINK STRATEGY:
Climate Change Allowance
Results

Report Details:
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Checked by:

Approved By:

Company Address:

I

DRN

Tables

Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.023	0.6
10	0.026	0.7
15	0.028	0.9
20	0.033	1.2
25	0.046	2.3
30	0.070	5.3
35	0.150	-13.2
40	0.150	19.3
45	0.035	1.3
50	0.029	0.9
55	0.026	0.7
60	0.024	0.6
65	0.010	0.1
70	0.003	0.0
75	0.002	0.0
80	0.001	0.0
85	0.001	0.0
90	0.001	0.0
95	0.001	0.0
100	0.001	0.0
105	0.001	0.0
110	0.001	0.0
115	0.001	0.0
120	0.001	0.0

Created in InfoDrainage 2024.4

44/87

EW LINK STRATEGY:
Climate Change Allowance
Results

Report Details:
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

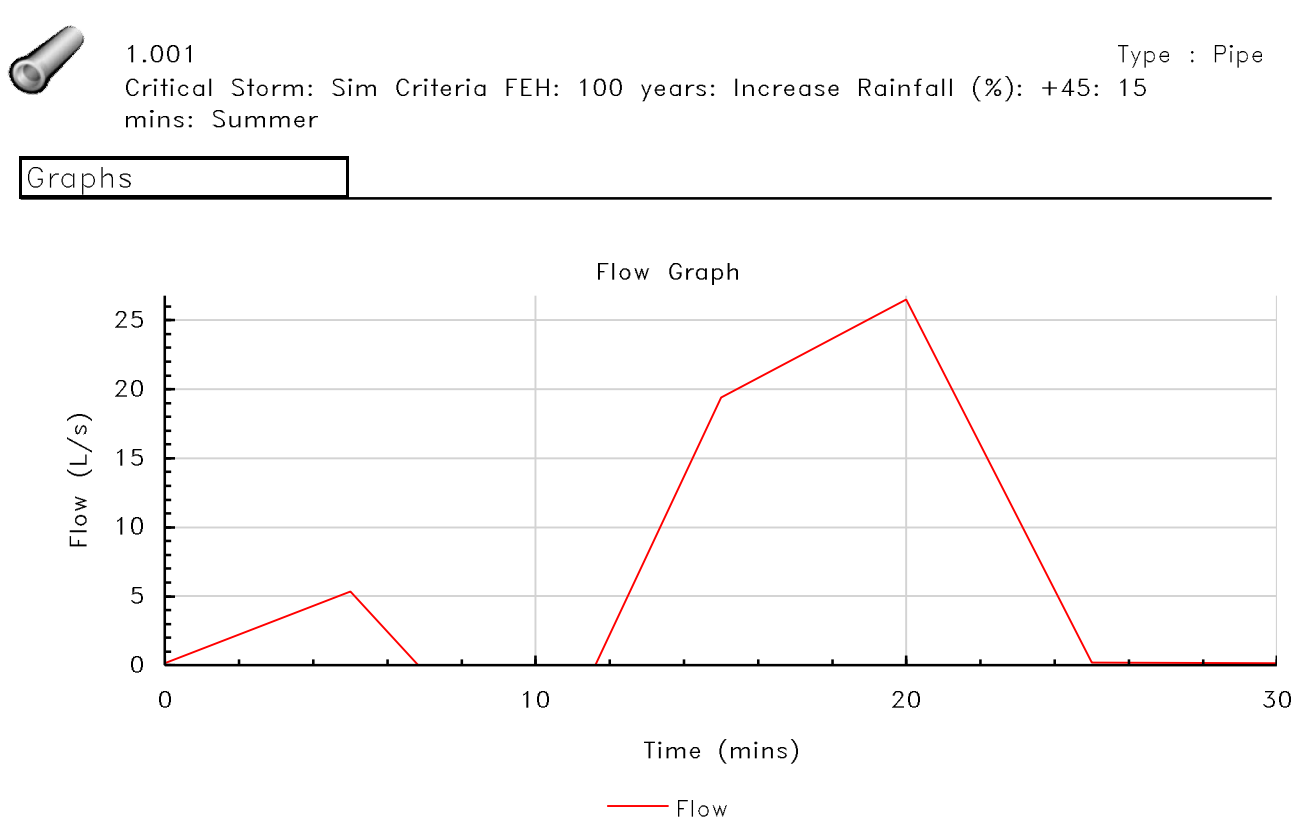
Checked by:

Approved By:

Company Address:

I

DRN



Tables

Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.054	5.3
10	0.225	-9.4
15	0.225	19.3
20	0.218	26.5
25	0.006	0.1
30	0.002	0.0

Created in InfoDrainage 2024.4

45/87

EW LINK STRATEGY:
Climate Change Allowance
Results

Report Details:
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

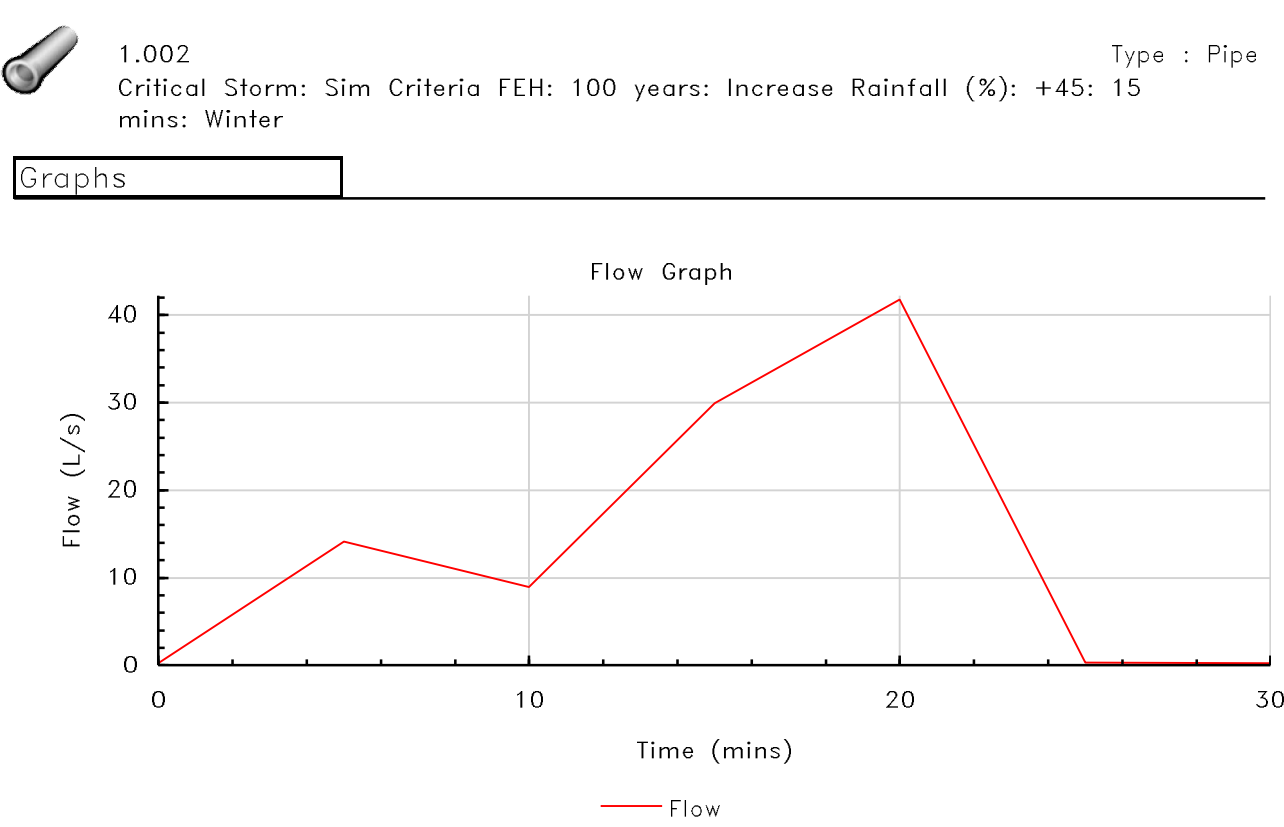
Checked by:

Approved By:

Company Address:

I

DRN



Tables

Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.083	14.0
10	0.225	8.8
15	0.225	29.9
20	0.225	41.8
25	0.011	0.1
30	0.005	0.0

Created in InfoDrainage 2024.4

46/87

EW LINK STRATEGY:
Climate Change Allowance
Results

Report Details:
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

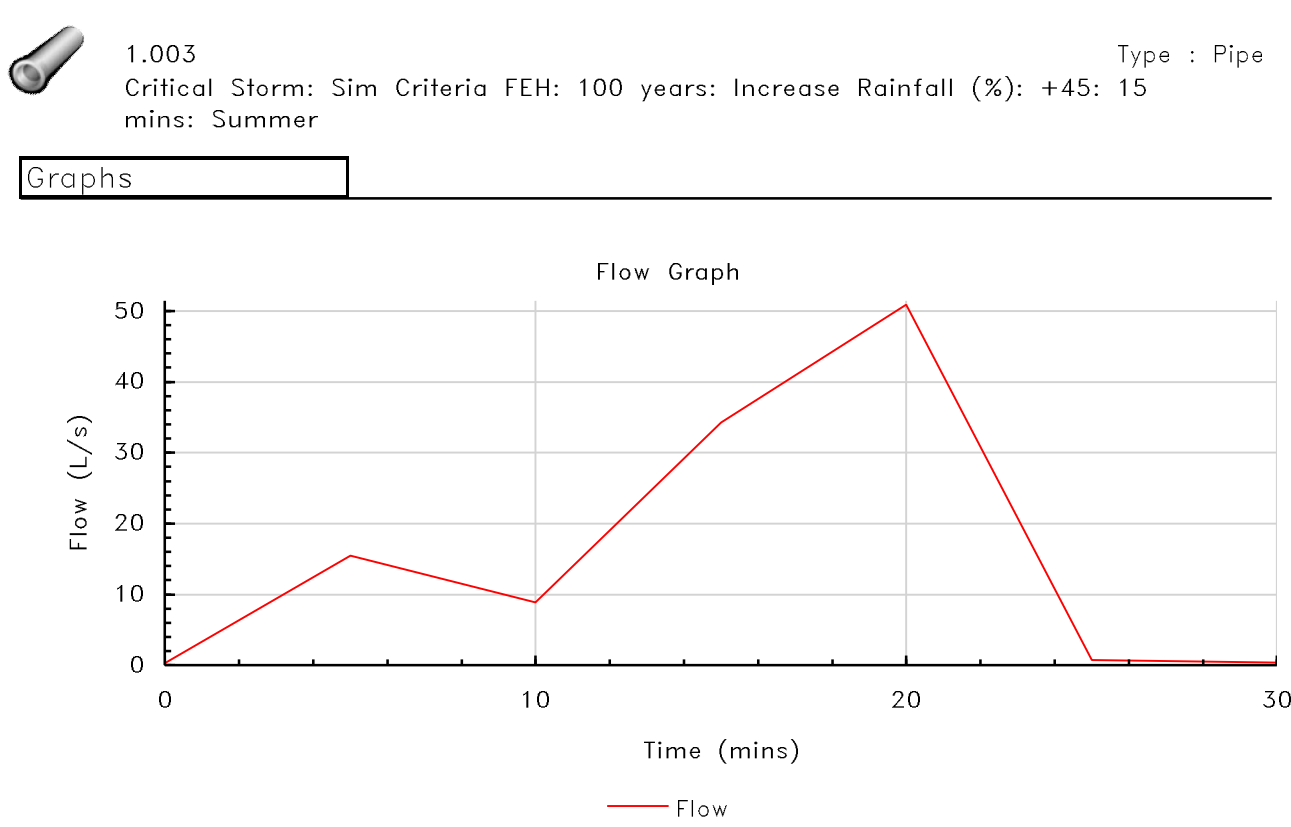
Checked by:

Approved By:

Company Address:

I

DRN



Tables

Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.101	15.3
10	0.225	8.7
15	0.225	34.2
20	0.225	50.9
25	0.027	0.5
30	0.011	0.1

Created in InfoDrainage 2024.4

47/87

EW LINK STRATEGY:
Climate Change Allowance
Results

Report Details:
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

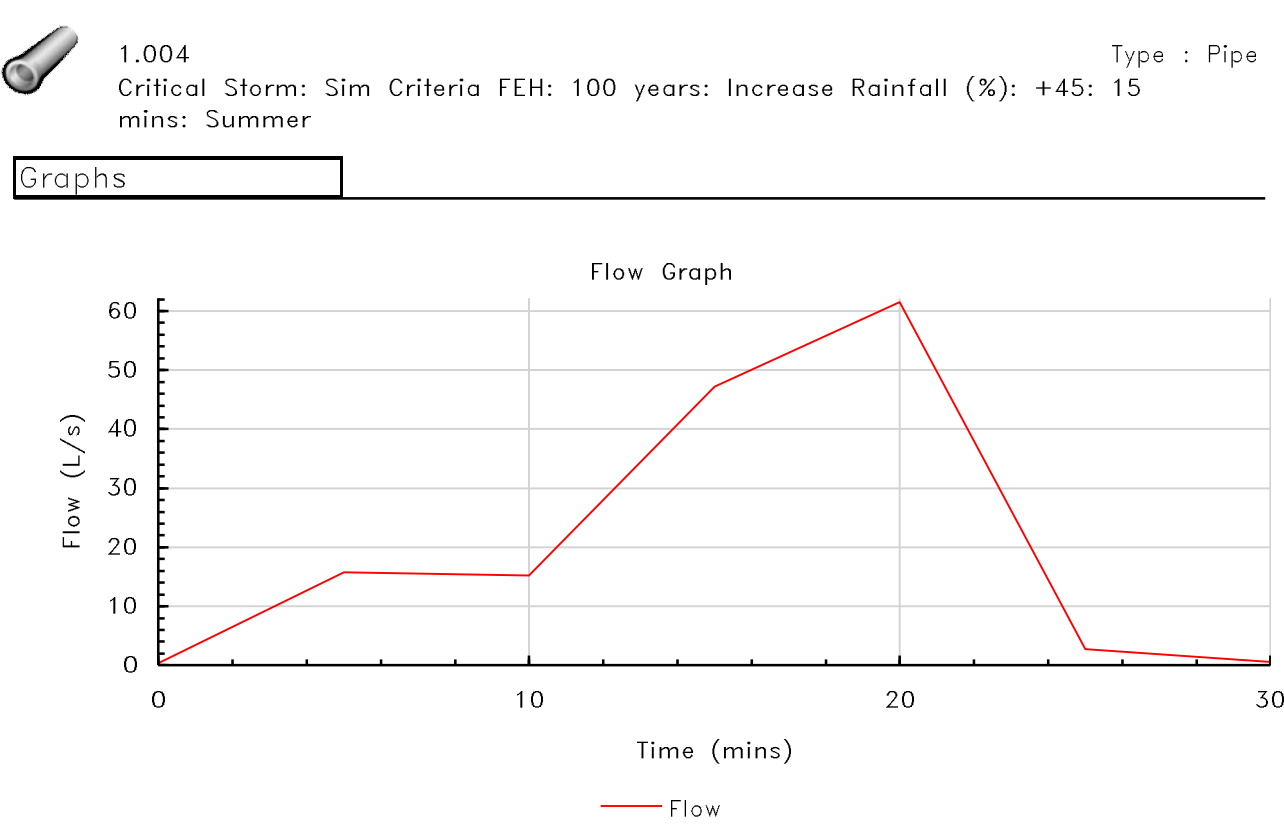
Checked by:

Approved By:

Company Address:

I

DRN



Tables

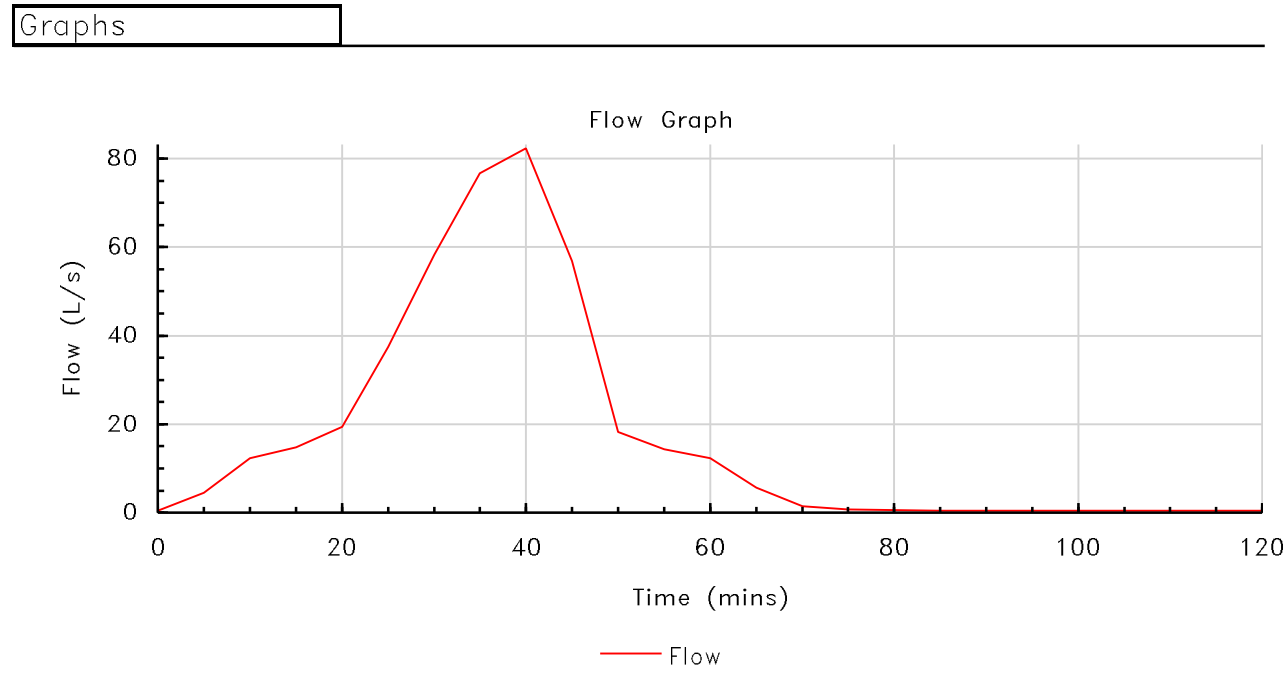
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.098	15.5
10	0.225	14.9
15	0.225	47.1
20	0.225	61.5
25	0.037	2.4
30	0.014	0.3

Created in InfoDrainage 2024.4

48/87

EW LINK STRATEGY: Climate Change Allowance Results		Date: 22/09/2023		I DRN
		Checked by:	Approved By:	
Report Details: Type: Connection Results Storm Phase: Storm		Designed by: UKJXB042 Company Address:		

 1.005 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 60 mins: Summer Type : Pipe



Created in InfoDrainage 2024.4

49/87

EW LINK STRATEGY: Climate Change Allowance Results		Date: 22/09/2023		I DRN
Report Details: Type: Connection Results Storm Phase: Storm		Checked by: UKJXB042	Approved By:	
		Company Address:		

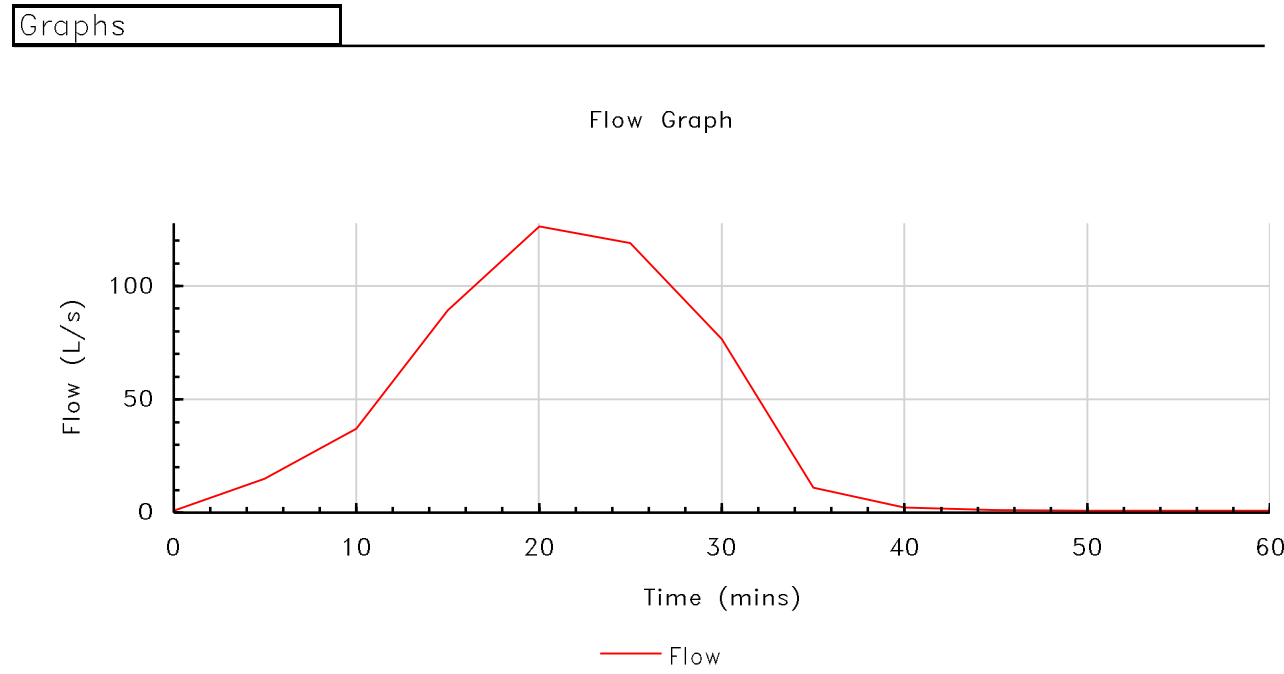
Tables		
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.047	4.1
10	0.080	12.0
15	0.088	14.4
20	0.102	19.1
25	0.161	37.2
30	0.300	58.2
35	0.300	76.7
40	0.300	82.3
45	0.300	56.8
50	0.098	17.9
55	0.086	13.9
60	0.079	11.9
65	0.052	5.3
70	0.024	1.0
75	0.013	0.3
80	0.008	0.1
85	0.005	0.1
90	0.004	0.0
95	0.003	0.0
100	0.002	0.0
105	0.002	0.0
110	0.001	0.0
115	0.001	0.0
120	0.001	0.0

Created in InfoDrainage 2024.4

50/87

EW LINK STRATEGY: Climate Change Allowance Results		Date: 22/09/2023		I DRN
		Checked by:	Approved By:	
Report Details: Type: Connection Results Storm Phase: Storm		Designed by: UKJXB042		
		Company Address:		

 1.006 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 30 mins: Summer Type : Pipe

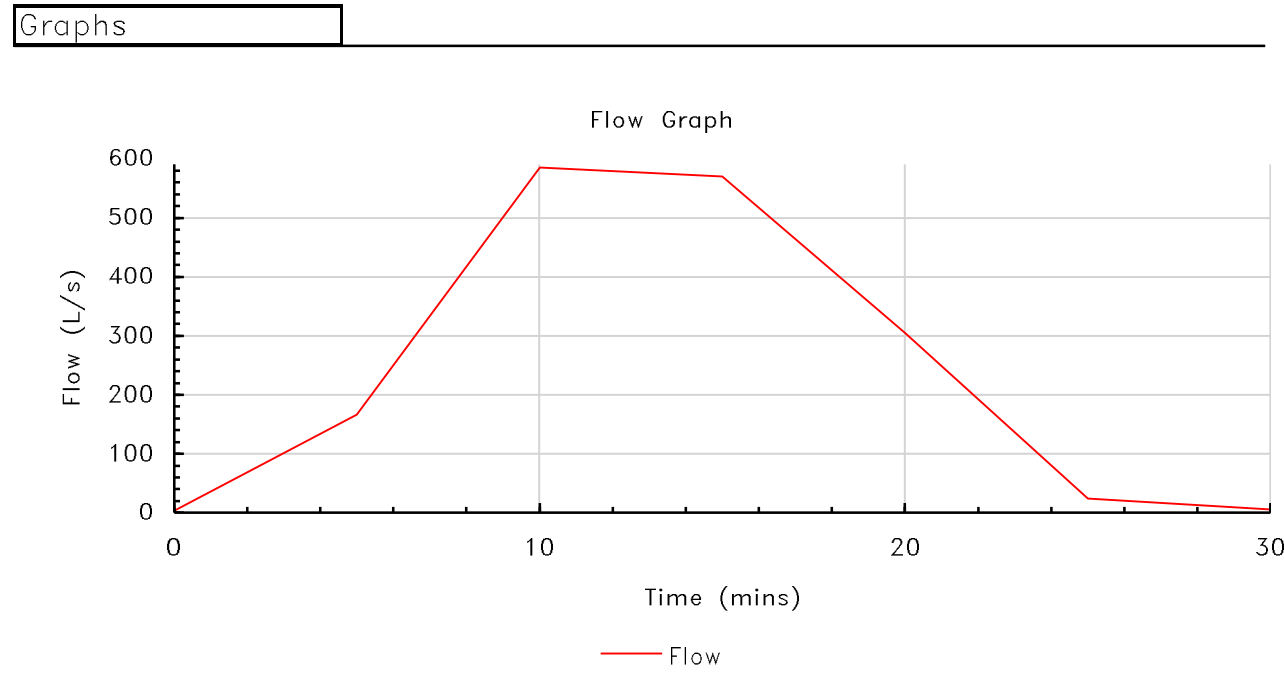


Created in InfoDrainage 2024.4

51/87

EW LINK STRATEGY: Climate Change Allowance Results		Date: 22/09/2023		I DRN
Report Details: Type: Connection Results Storm Phase: Storm		Checked by: UKJXB042	Approved By:	
		Company Address:		

 1.007 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Winter Type : Pipe

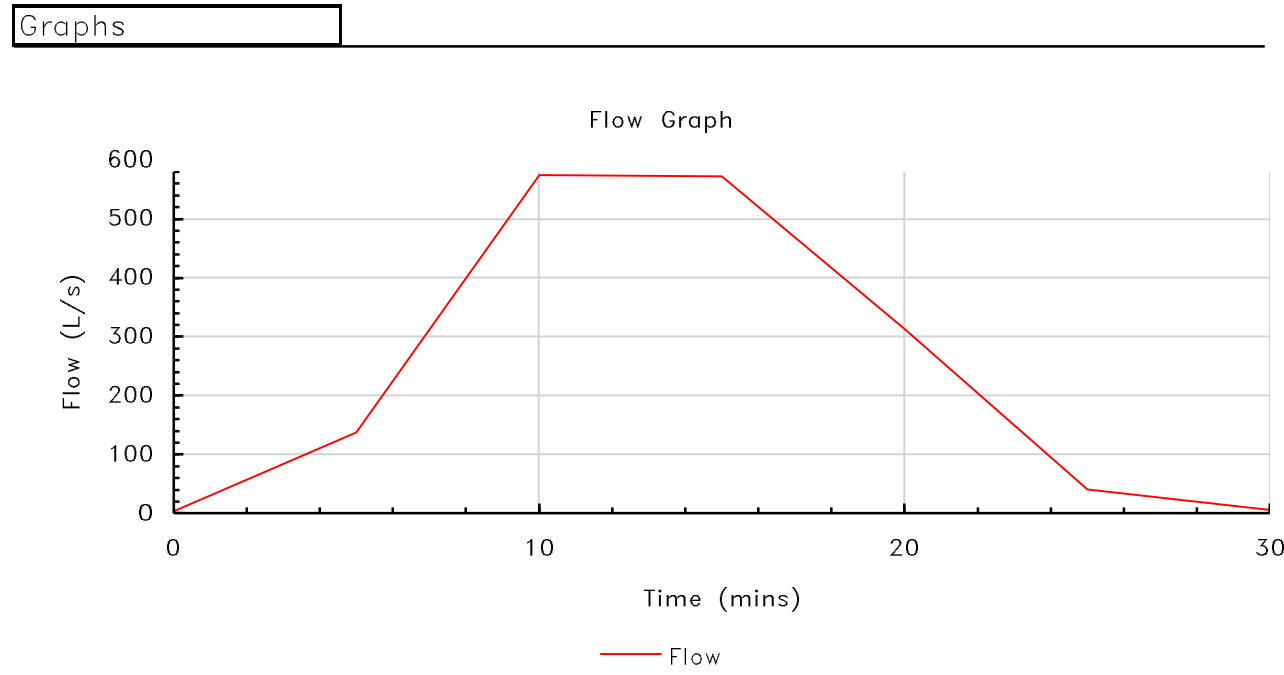


Created in InfoDrainage 2024.4

52/87

EW LINK STRATEGY Climate Change Allowance Results	Date 22/09/2023		Checked by: UKJXB042	Approved By:	I DRN
	Report Details: Type: Connection Results Storm Phase: Storm				
	Company Address:				

 1.008 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Winter Type : Pipe

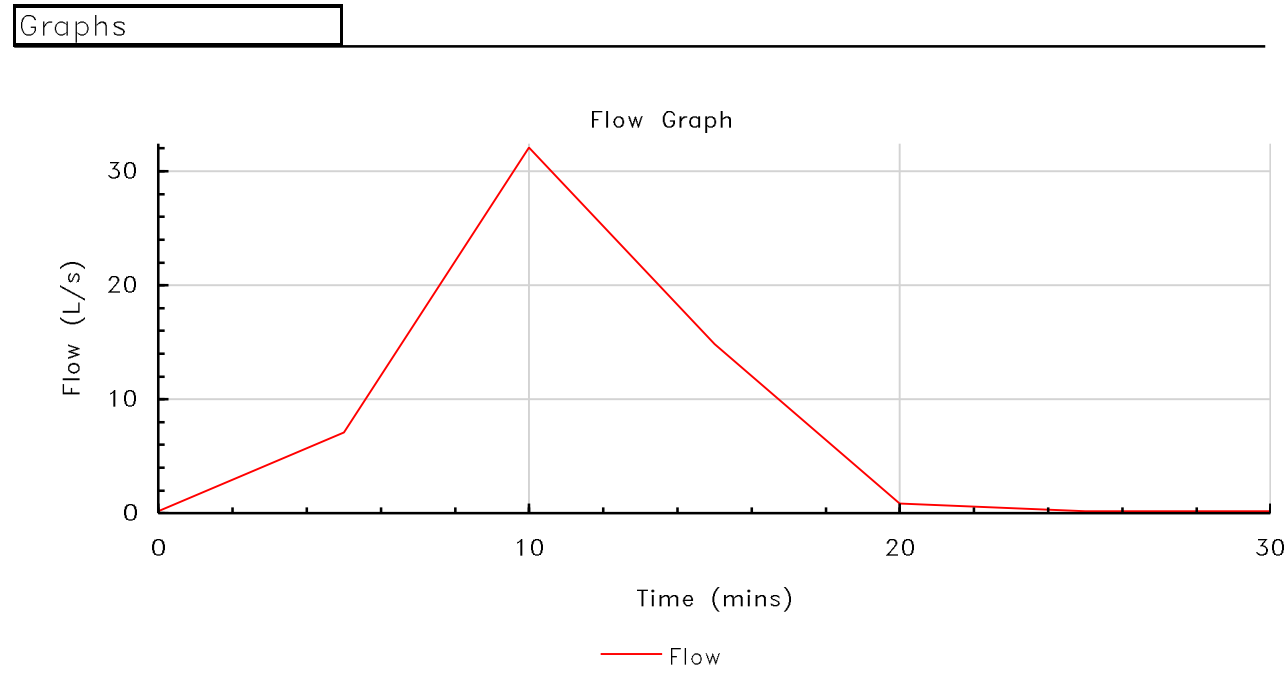


Created in InfoDrainage 2024.4

53/87

EW LINK STRATEGY Climate Change Allowance Results	Date 22/09/2023		Checked by:	Approved By:	I DRN
	Designed by: UKJXB042				
	Report Details: Type: Connection Results Storm Phase: Storm				
		Company Address:			

 2.000 Critical Storm: Sim Criteria FEH: 30 years: Increase Rainfall (%): +40: 15 mins: Summer Type : Pipe

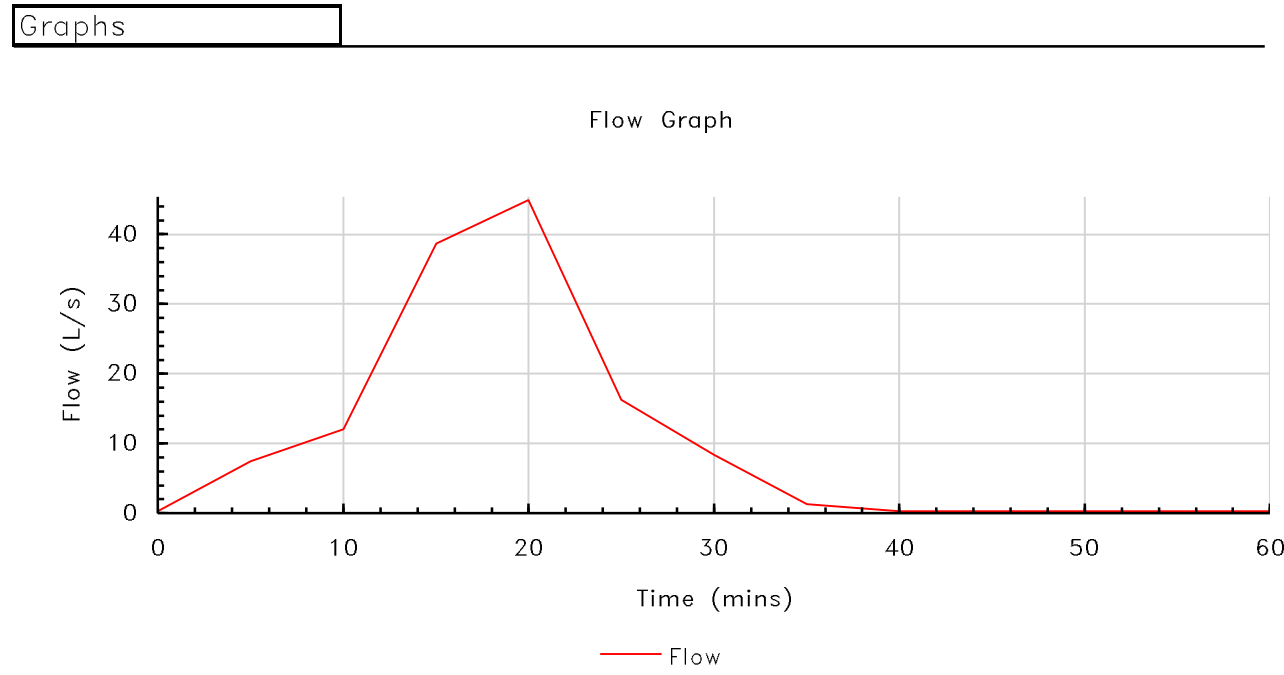


Created in InfoDrainage 2024.4

54/87

EW LINK STRATEGY Climate Change Allowance Results	Date 22/09/2023		Checked by: UKJXB042	Approved By:	I DRN
	Report Details: Type: Connection Results Storm Phase: Storm				
	Company Address:				

 2.001 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 30 mins: Summer Type : Pipe

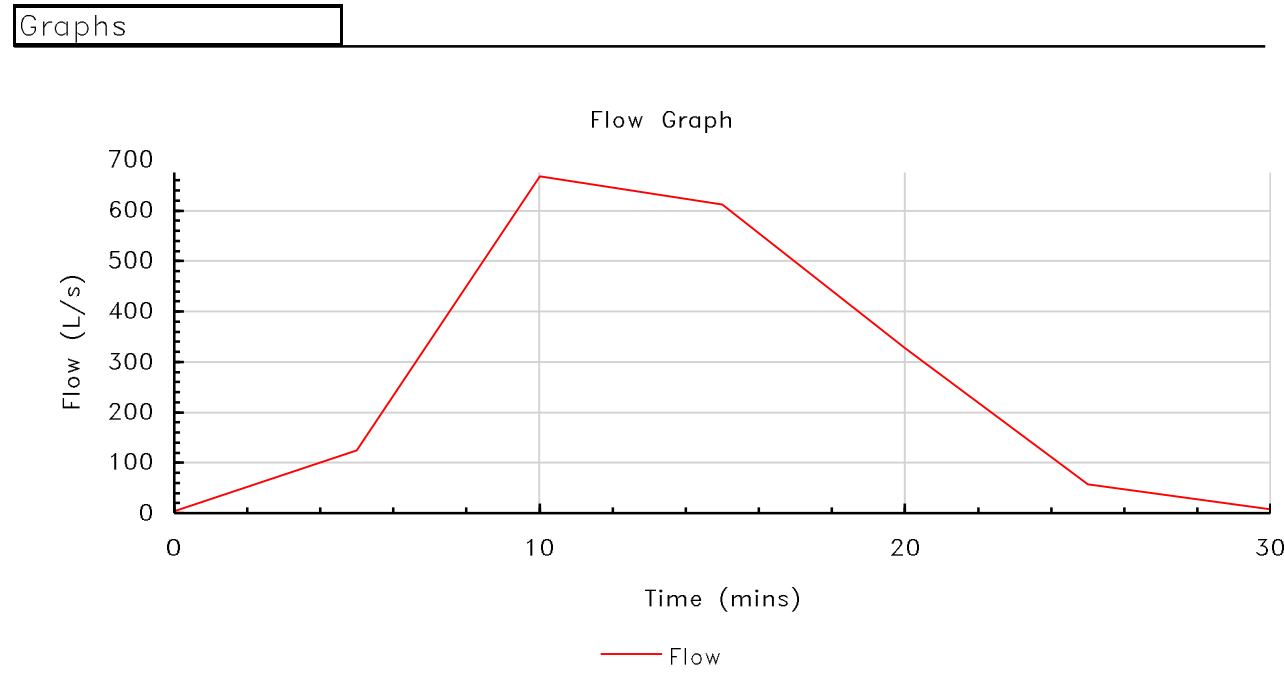


Created in InfoDrainage 2024.4

55/87

EW LINK STRATEGY Climate Change Allowance Results	Date 22/09/2023		Checked by:	Approved By:	I DRN
	Designed by: UKJXB042				
	Report Details: Type: Connection Results Storm Phase: Storm				
		Company Address:			

 1.009 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer Type : Pipe



Created in InfoDrainage 2024.4

56/87

Tables		
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.321	134.8
10	0.525	574.4
15	0.525	572.8
20	0.525	312.4
25	0.165	38.1
30	0.046	3.1

Tables		
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.055	6.9
10	0.175	32.1
15	0.131	14.8
20	0.018	0.7
25	0.003	0.0
30	0.001	0.0

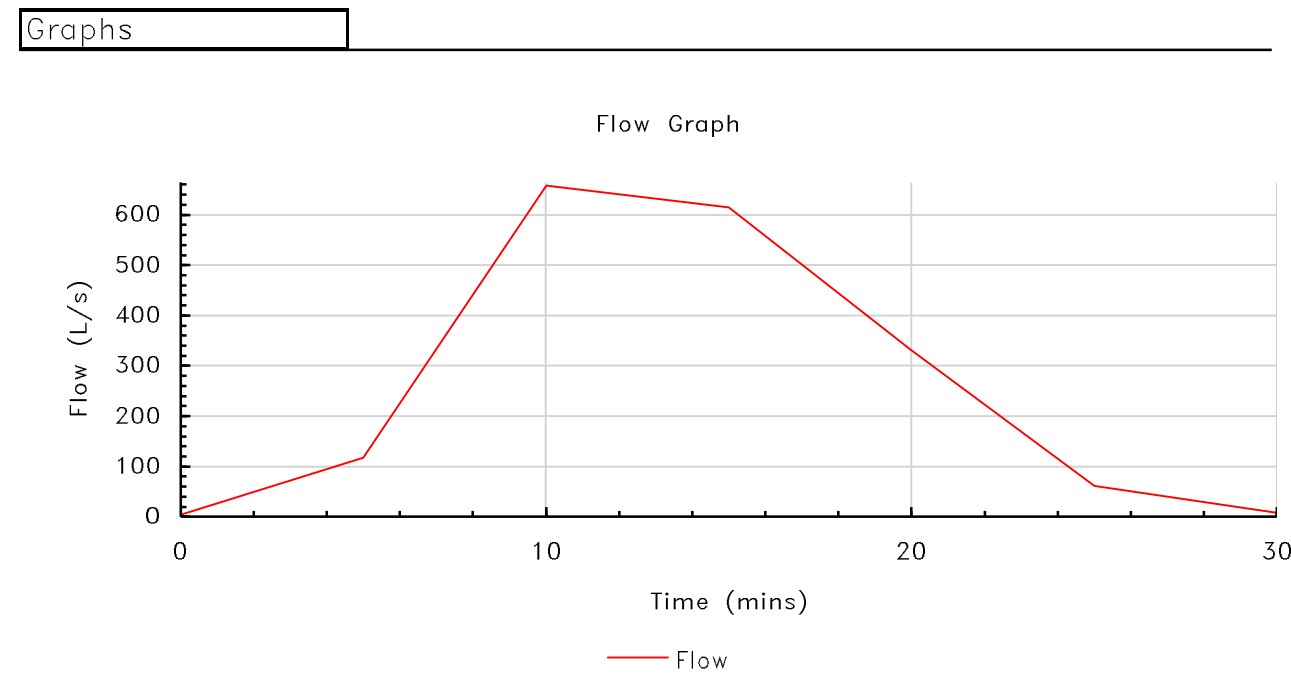
Tables		
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.036	7.2
10	0.069	11.9
15	0.225	38.7
20	0.225	44.9
25	0.225	16.1
30	0.184	8.2
35	0.014	1.0
40	0.003	0.0
45	0.001	0.0
50	0.000	0.0
55	0.000	0.0
60	0.000	0.0

Tables		
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.288	121.1
10	0.525	668.4
15	0.525	611.5
20	0.525	325.2
25	0.195	54.3
30	0.053	4.4

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		
	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Connection Results Storm Phase: Storm	Company Address:		



1.010 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.257	114.4
10	0.525	658.4
15	0.525	613.9
20	0.525	329.7
25	0.182	58.1
30	0.054	4.8

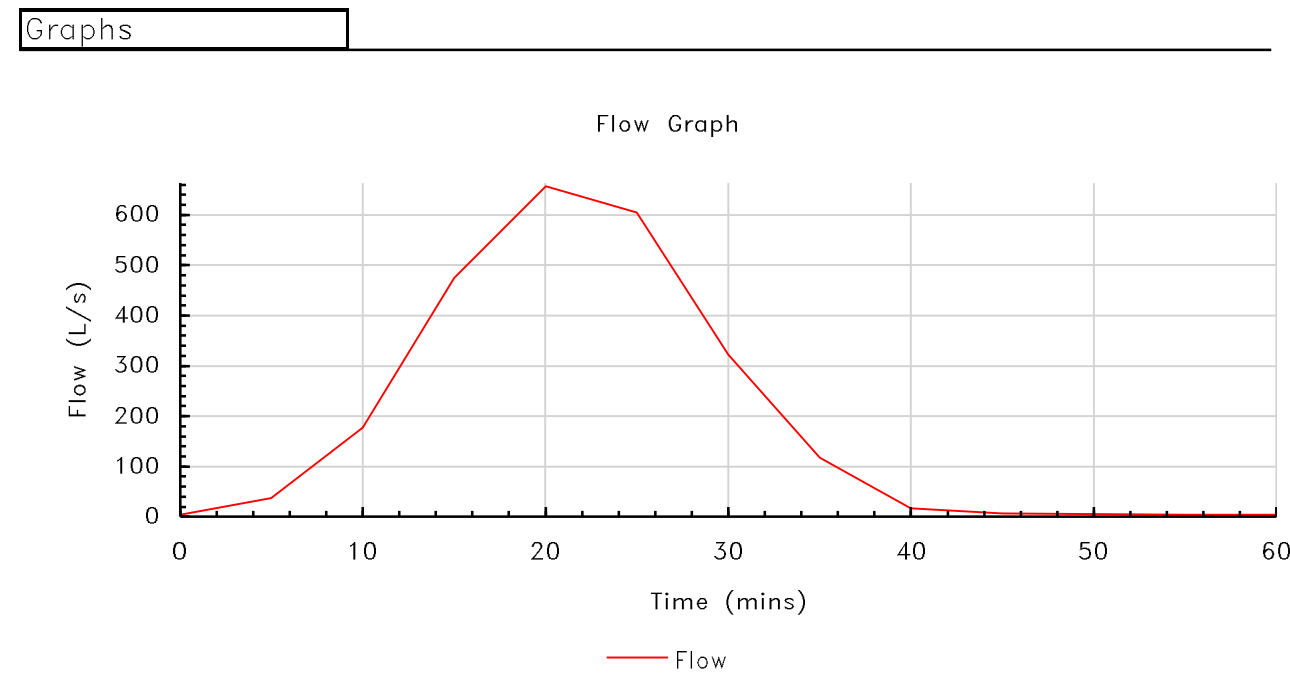
Created in InfoDrainage 2024.4

57/87

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		
	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Connection Results Storm Phase: Storm	Company Address:		



1.011 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 30 mins: Summer Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.119	33.7
10	0.283	175.0
15	0.525	473.8
20	0.525	656.8
25	0.525	603.9
30	0.446	320.6
35	0.220	113.7
40	0.076	13.4
45	0.040	3.3
50	0.026	1.3
55	0.019	0.6
60	0.015	0.4

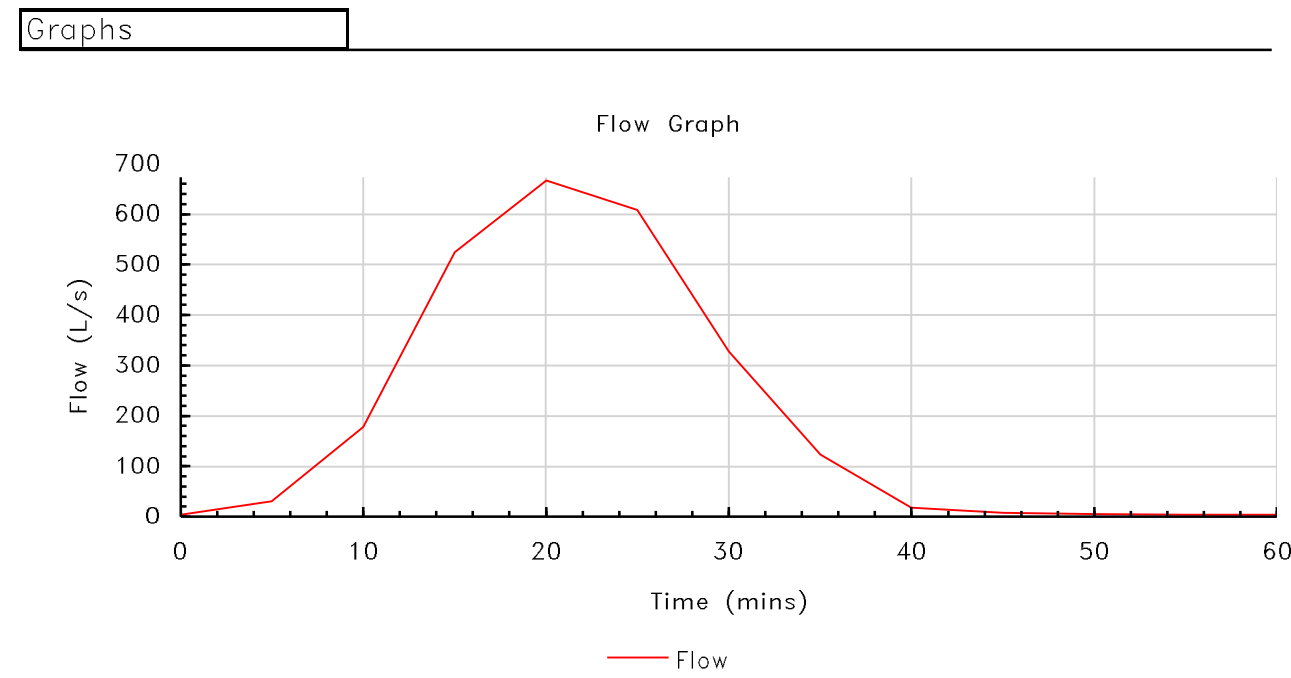
Created in InfoDrainage 2024.4

58/87

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		
	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Connection Results Storm Phase: Storm	Company Address:		



1.012 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 30 mins: Summer Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.074	27.6
10	0.184	175.0
15	0.347	523.5
20	0.414	666.8
25	0.379	607.6
30	0.269	325.8
35	0.147	120.9
40	0.052	14.9
45	0.027	3.7
50	0.018	1.4
55	0.013	0.7
60	0.010	0.4

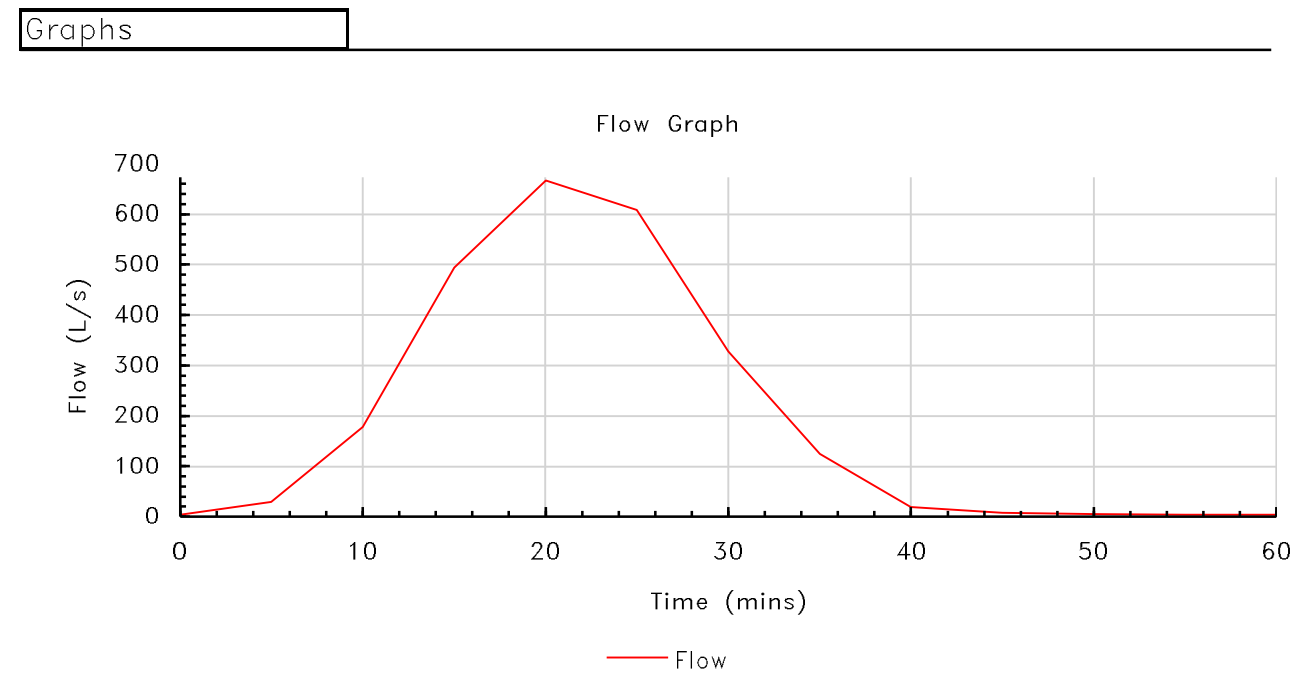
Created in InfoDrainage 2024.4

59/87

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		
	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Connection Results Storm Phase: Storm	Company Address:		



1.013 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 30 mins: Summer Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.044	26.4
10	0.119	174.6
15	0.224	492.8
20	0.313	666.8
25	0.389	607.8
30	0.398	326.3
35	0.382	122.1
40	0.355	15.1
45	0.346	3.8
50	0.343	1.5
55	0.340	0.7
60	0.338	0.4

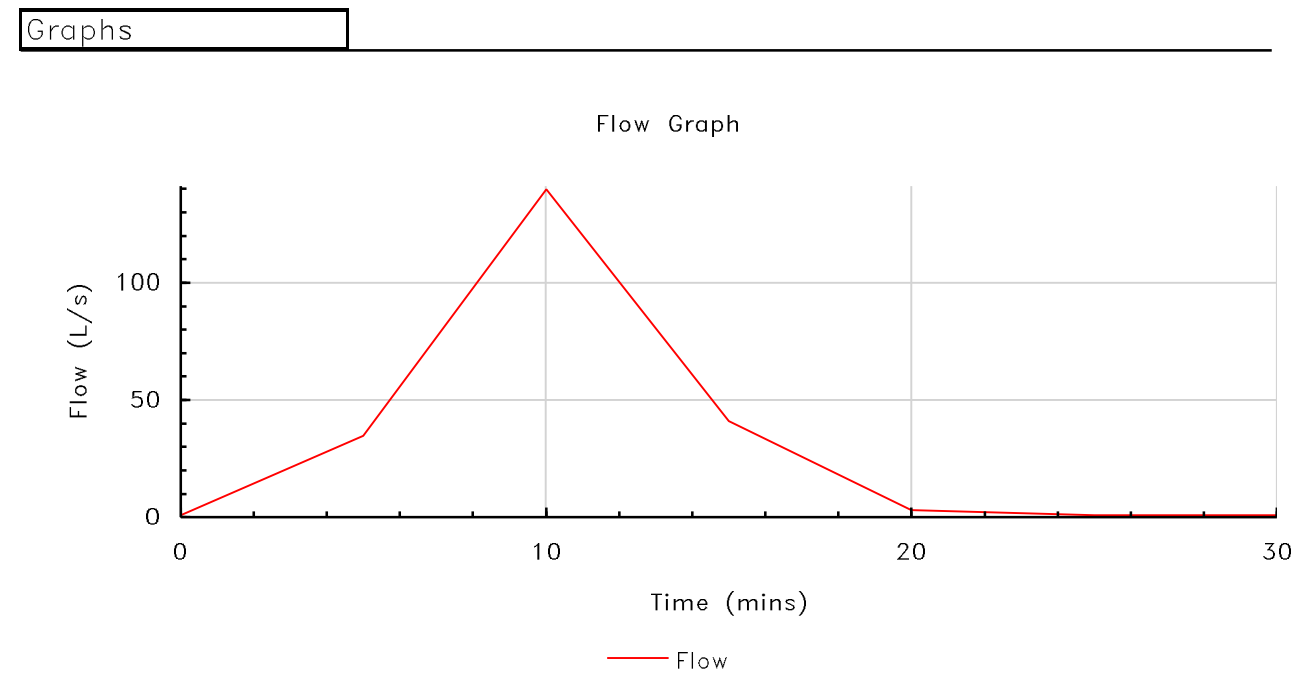
Created in InfoDrainage 2024.4

60/87

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		
	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Connection Results Storm Phase: Storm	Company Address:		



3.000 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +0: 15 mins: Winter Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.096	34.1
10	0.359	139.9
15	0.255	40.3
20	0.033	2.2
25	0.005	0.0
30	0.003	0.0

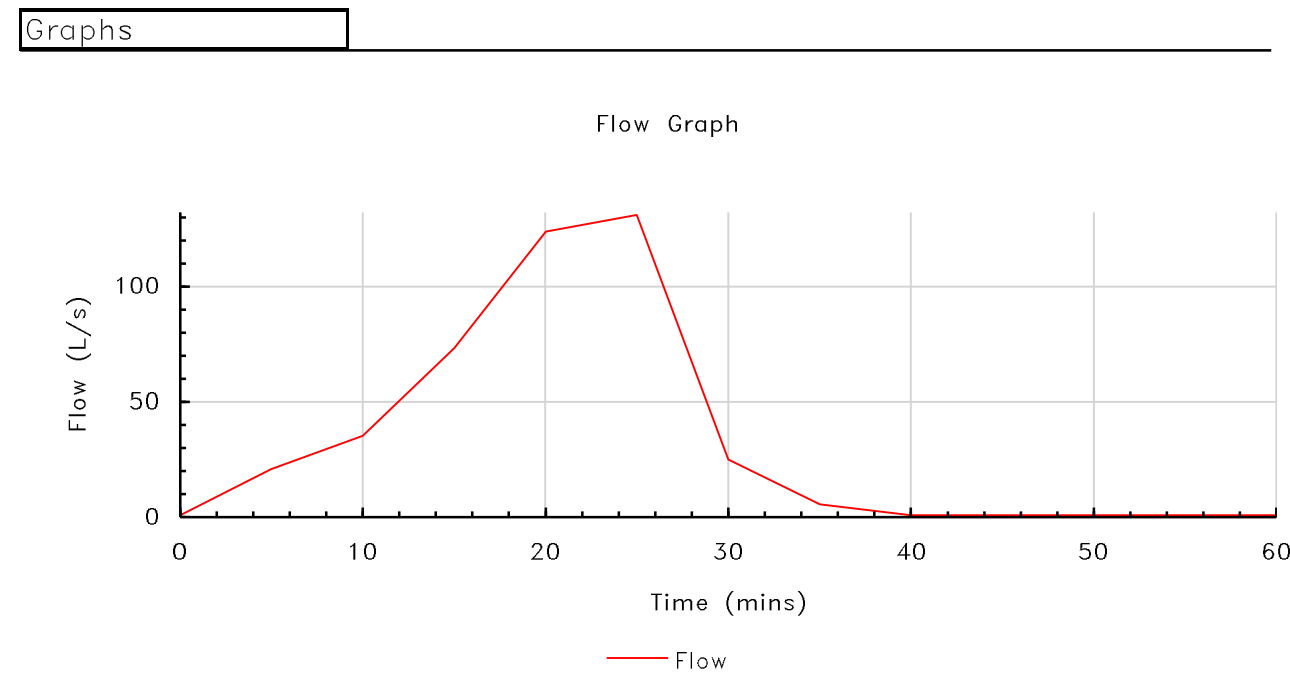
Created in InfoDrainage 2024.4

61/87

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		
	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Connection Results Storm Phase: Storm	Company Address:		



3.001 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 30 mins: Summer Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.074	20.1
10	0.098	34.8
15	0.375	73.0
20	0.375	123.8
25	0.375	131.1
30	0.120	24.4
35	0.036	4.7
40	0.007	0.2
45	0.003	0.0
50	0.001	0.0
55	0.000	0.0
60	0.000	0.0

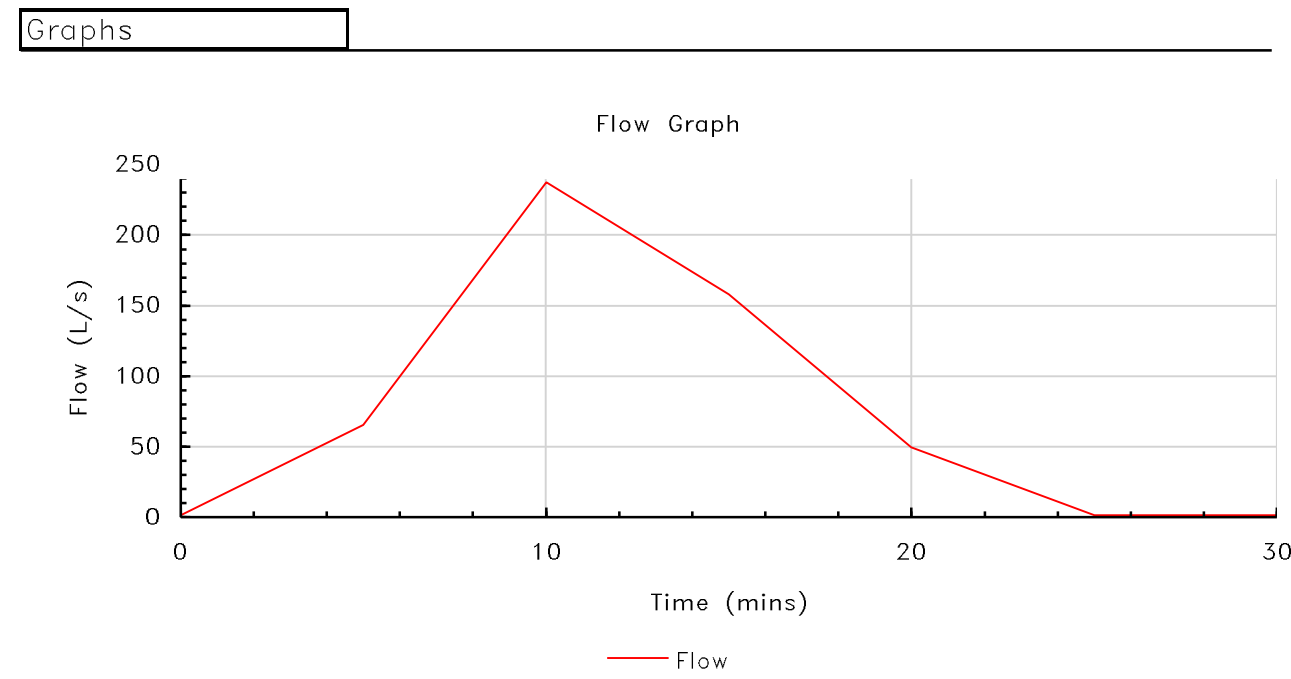
Created in InfoDrainage 2024.4

62/87

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		
	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Connection Results Storm Phase: Storm	Company Address:		



3.002 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.177	64.6
10	0.450	237.2
15	0.450	157.6
20	0.450	48.6
25	0.021	0.3
30	0.009	0.1

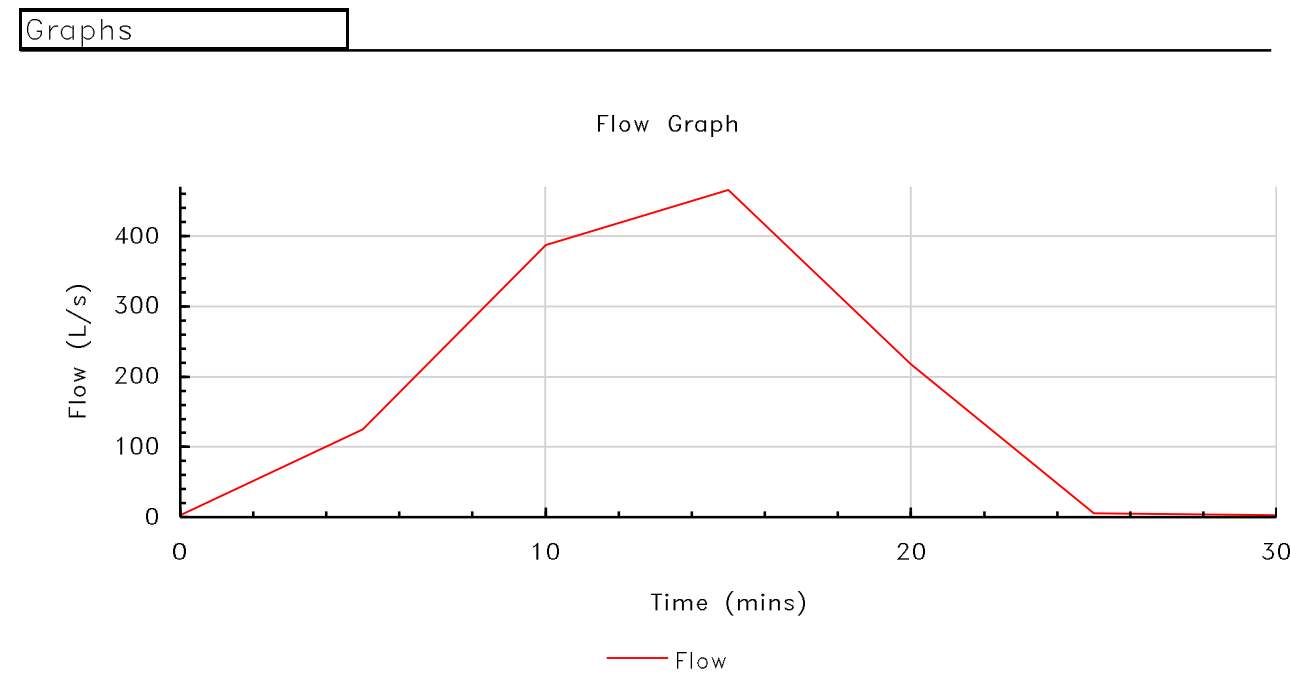
Created in InfoDrainage 2024.4

63/87

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		
	Designed by: UKJXB042	Checked by:	Approved By:
Report Details: Type: Connection Results Storm Phase: Storm	Company Address:		



3.004 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.228	123.1
10	0.525	387.1
15	0.525	465.2
20	0.525	216.5
25	0.038	3.4
30	0.016	0.6

Created in InfoDrainage 2024.4

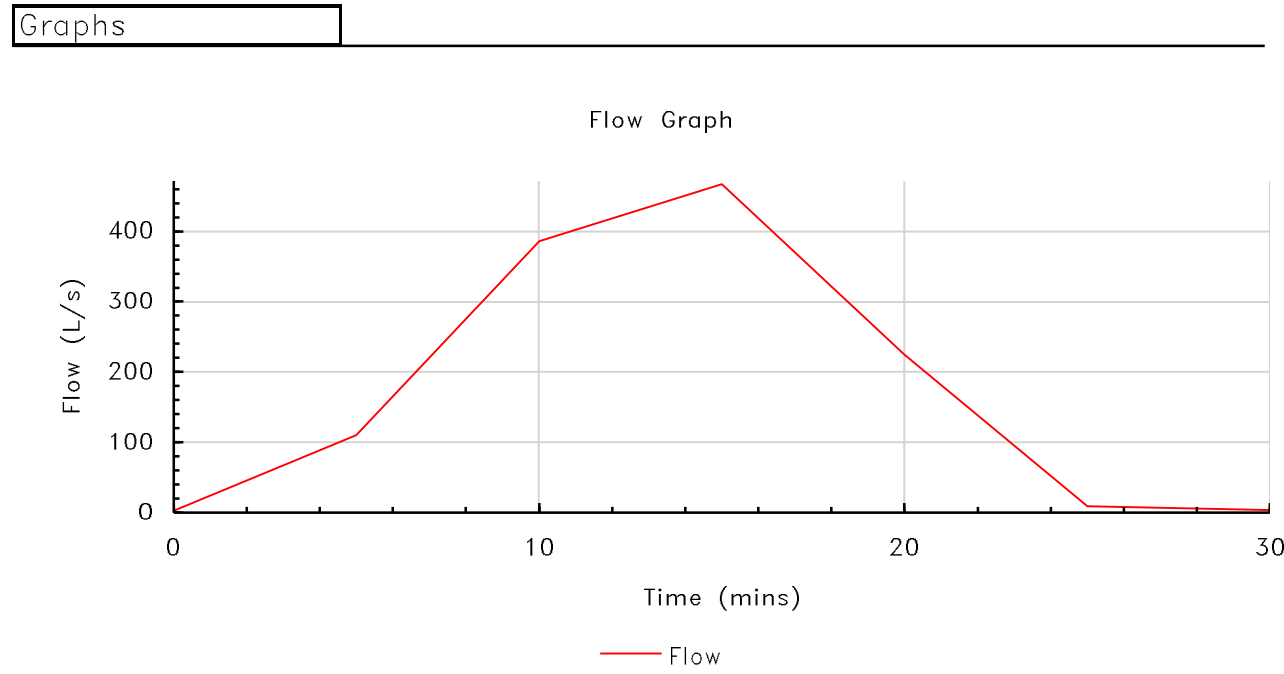
64/87

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by:	UKJXB042	Checked by:	Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm		Company Address:	

 3.005

Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer

Type : Pipe



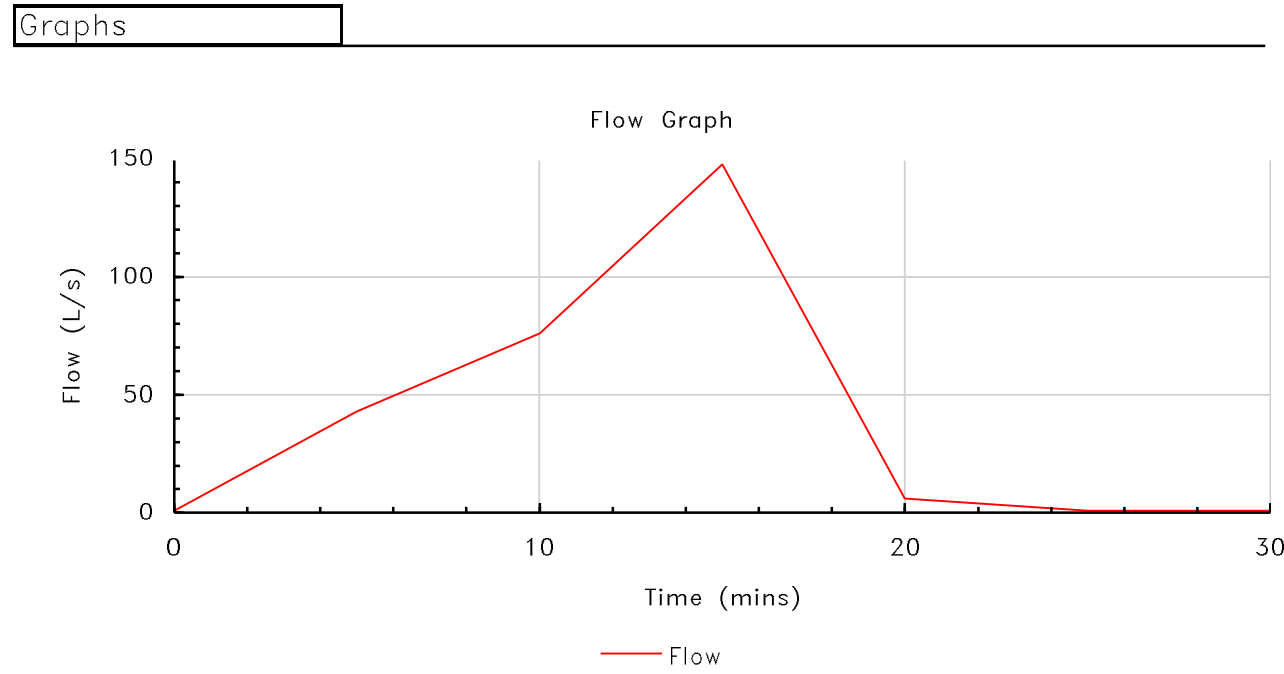
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.275	108.1
10	0.525	385.5
15	0.525	456.5
20	0.525	223.9
25	0.079	6.6
30	0.025	0.8

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by:	UKJXB042	Checked by:	Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm		Company Address:	

 3.006

Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer

Type : Pipe



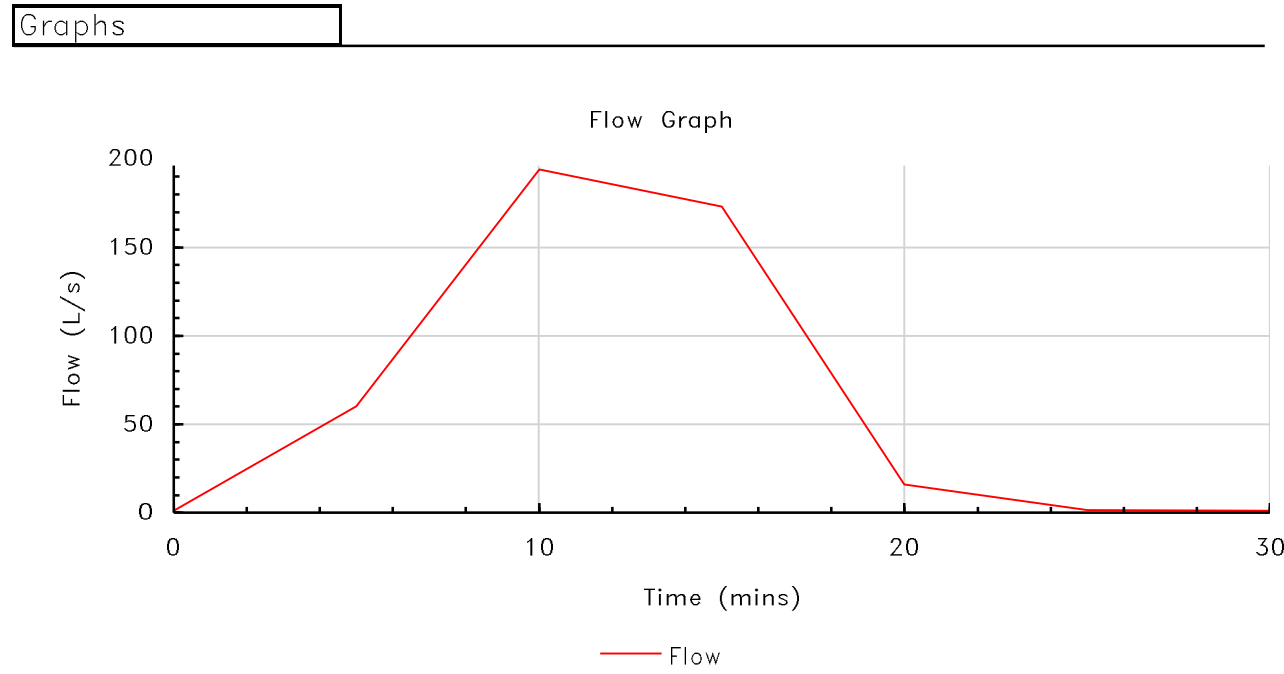
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.136	42.5
10	0.375	75.5
15	0.375	147.7
20	0.054	5.2
25	0.010	0.1
30	0.005	0.0

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by:	UKJXB042	Checked by:	Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm		Company Address:	

 3.007

Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer

Type : Pipe



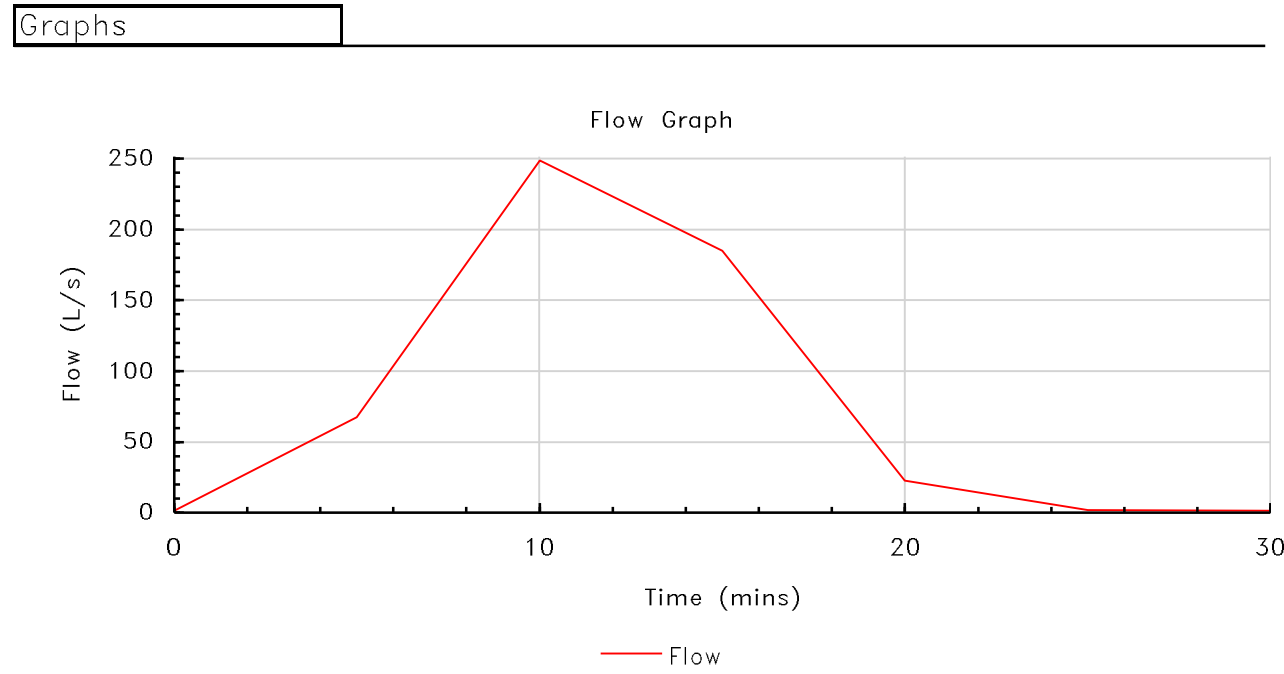
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.138	59.5
10	0.375	194.2
15	0.375	173.1
20	0.065	14.9
25	0.012	0.4
30	0.005	0.1

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by:	UKJXB042	Checked by:	Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm		Company Address:	

 3.009

Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer

Type : Pipe



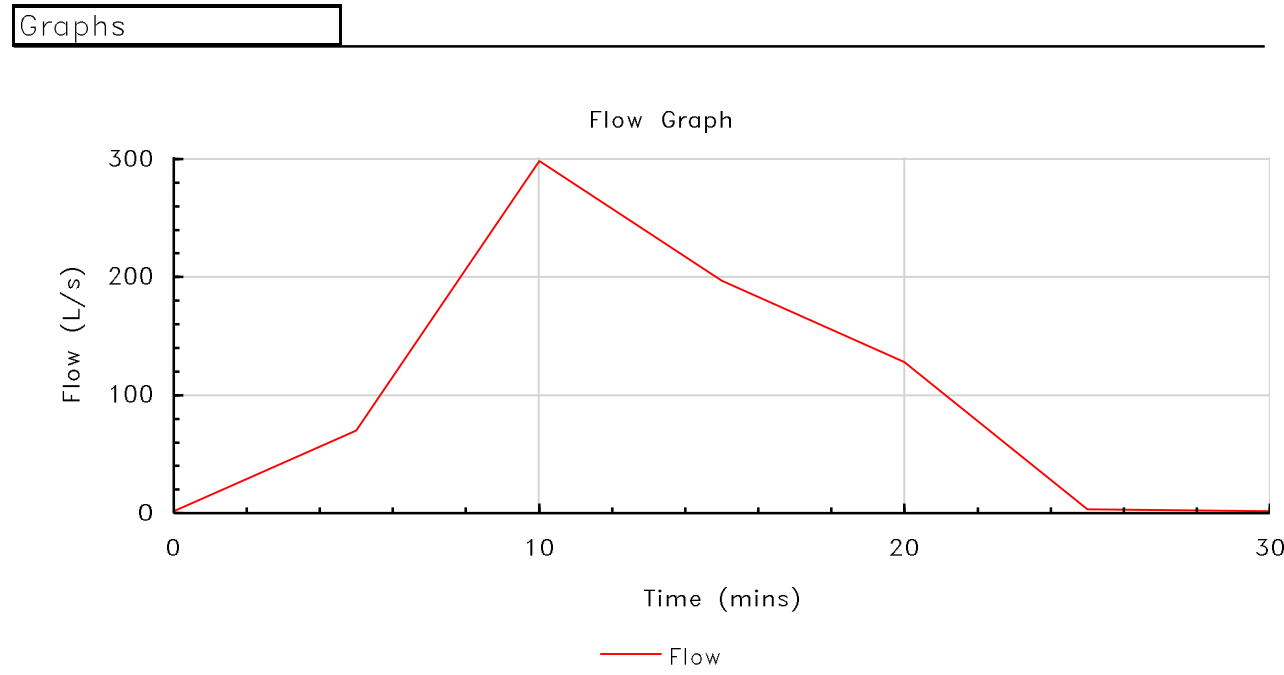
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.141	66.3
10	0.450	248.7
15	0.450	184.7
20	0.158	21.7
25	0.019	0.7
30	0.009	0.1

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by:	UKJXB042	Checked by:	Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm		Company Address:	

 3.010

Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer

Type : Pipe



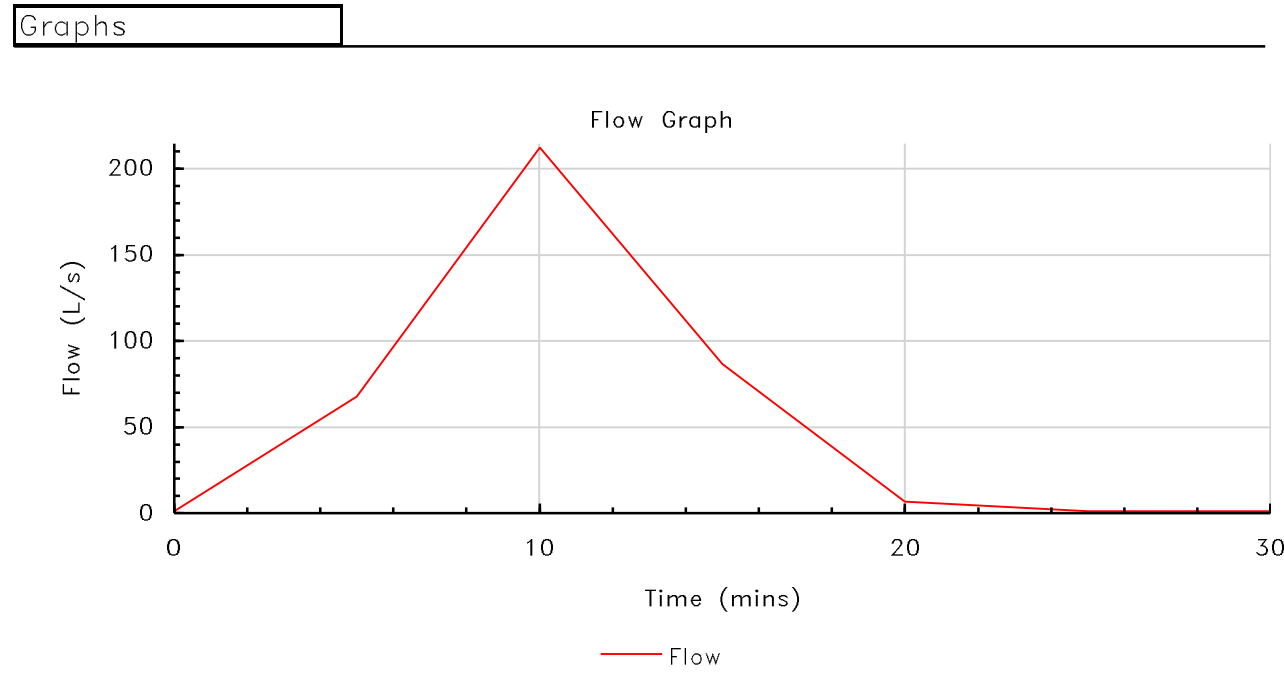
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.180	69.0
10	0.525	298.5
15	0.525	196.3
20	0.417	127.4
25	0.028	1.5
30	0.013	0.3

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by:	UKJXB042	Checked by:	Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm		Company Address:	

 3.011

Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Winter

Type : Pipe



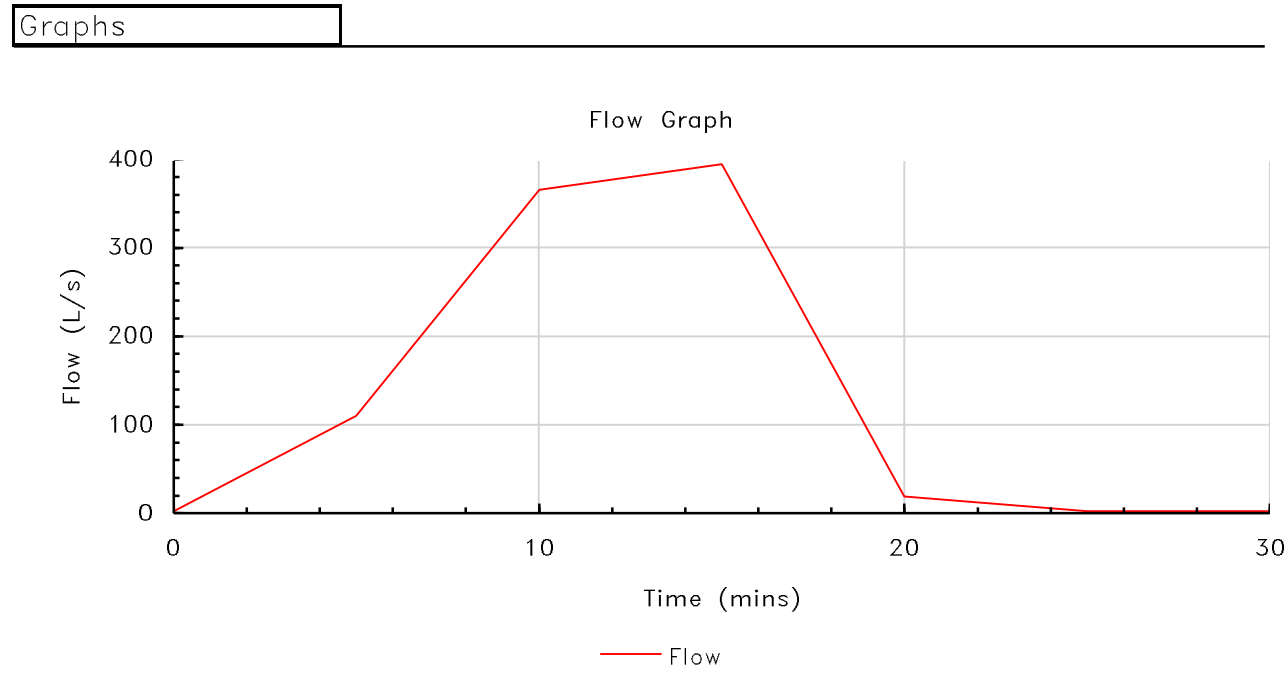
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.176	67.0
10	0.375	212.3
15	0.276	86.2
20	0.054	5.6
25	0.007	0.1
30	0.003	0.0

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by:	UKJXB042	Checked by:	Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm		Company Address:	

 3.012

Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer

Type : Pipe



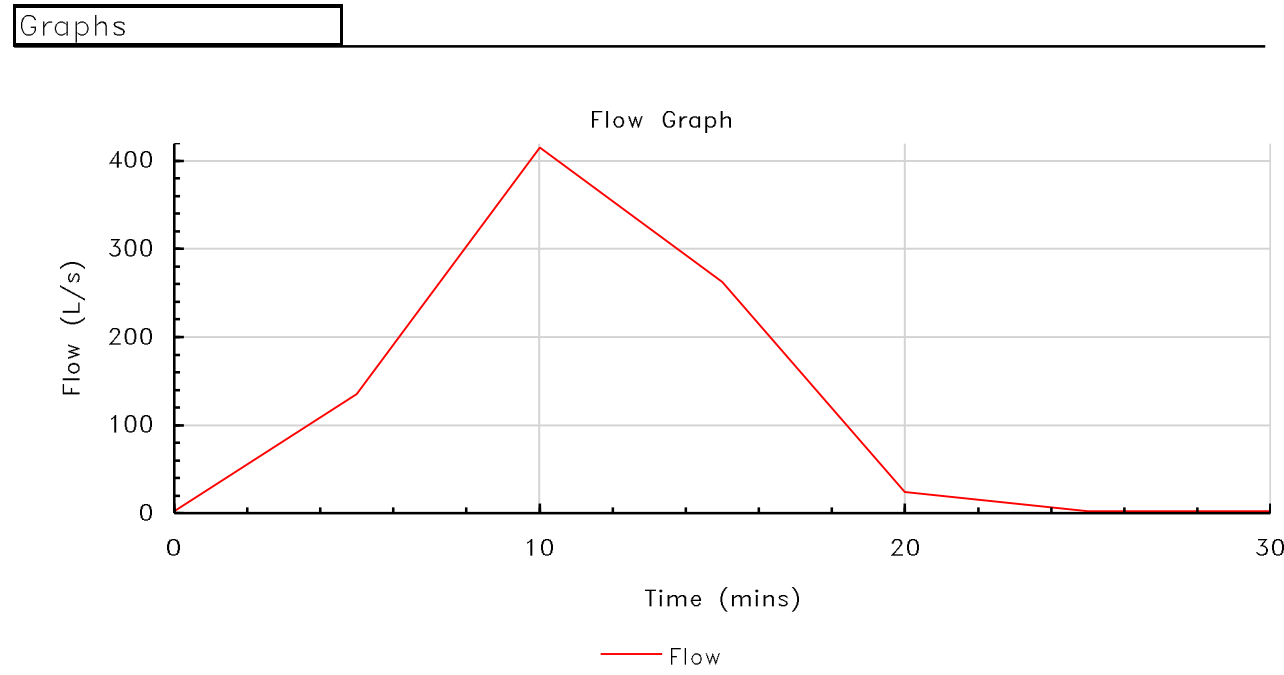
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.189	108.3
10	0.375	385.7
15	0.375	394.1
20	0.068	17.1
25	0.010	0.3
30	0.004	0.1

EW LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by:	UKJXB042	Checked by:	Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm		Company Address:	

 3.013

Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Winter

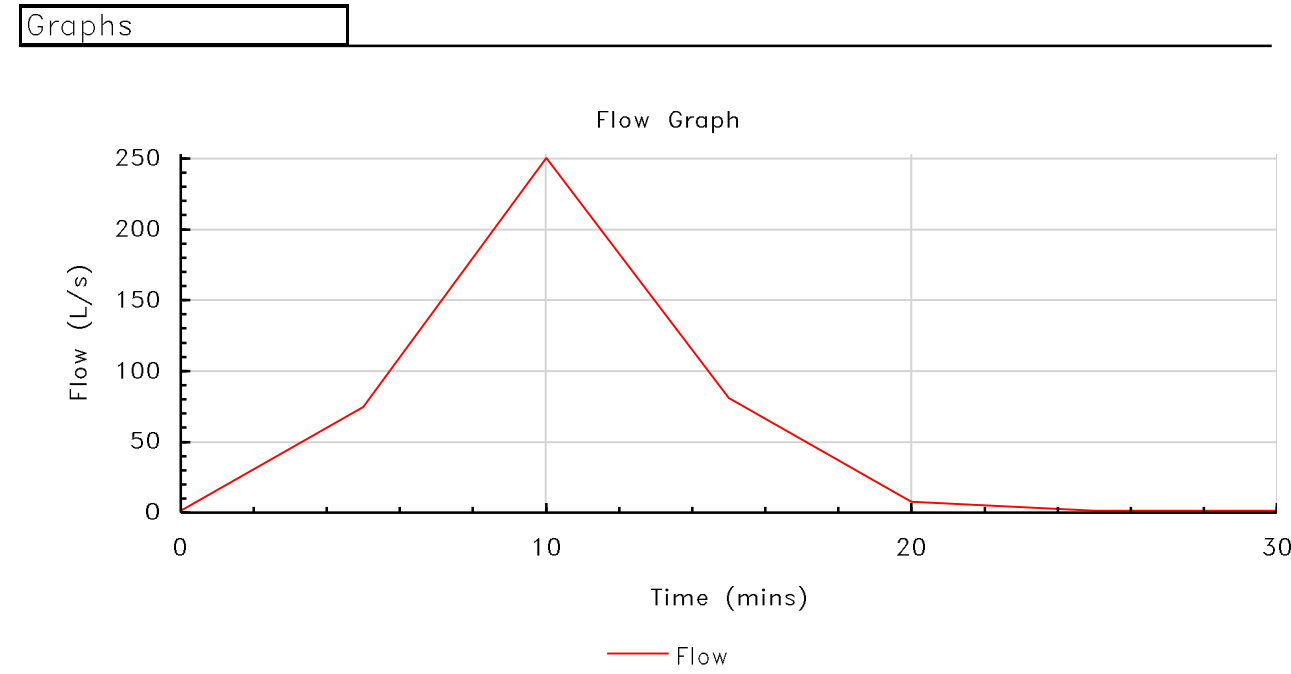
Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.196	134.1
10	0.450	415.1
15	0.349	261.9
20	0.078	21.9
25	0.013	0.4
30	0.006	0.1

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by: UKJXB042	Checked by:		Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm			Company Address:

 3.016 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Winter Type : Pipe



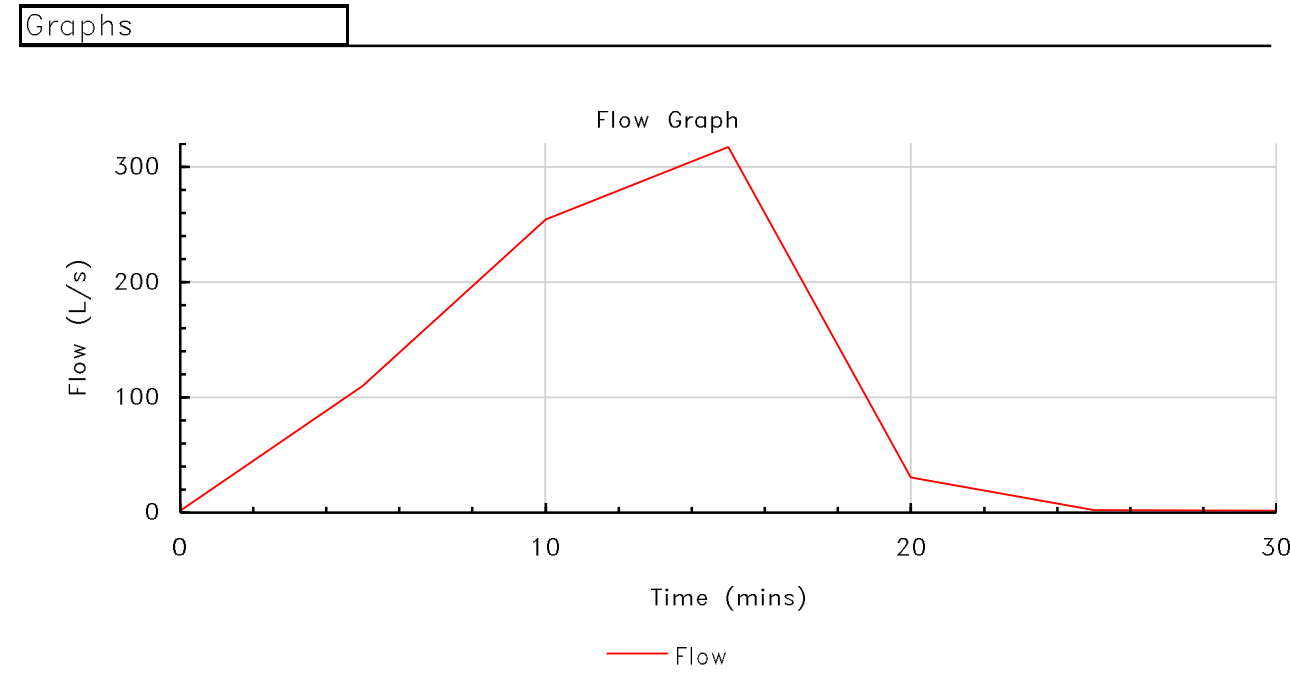
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.202	73.8
10	0.375	250.6
15	0.375	80.2
20	0.066	6.6
25	0.010	0.1
30	0.005	0.0

Created in InfoDrainage 2024.4

73/87

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by: UKJXB042	Checked by:		Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm			Company Address:

 3.017 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer Type : Pipe



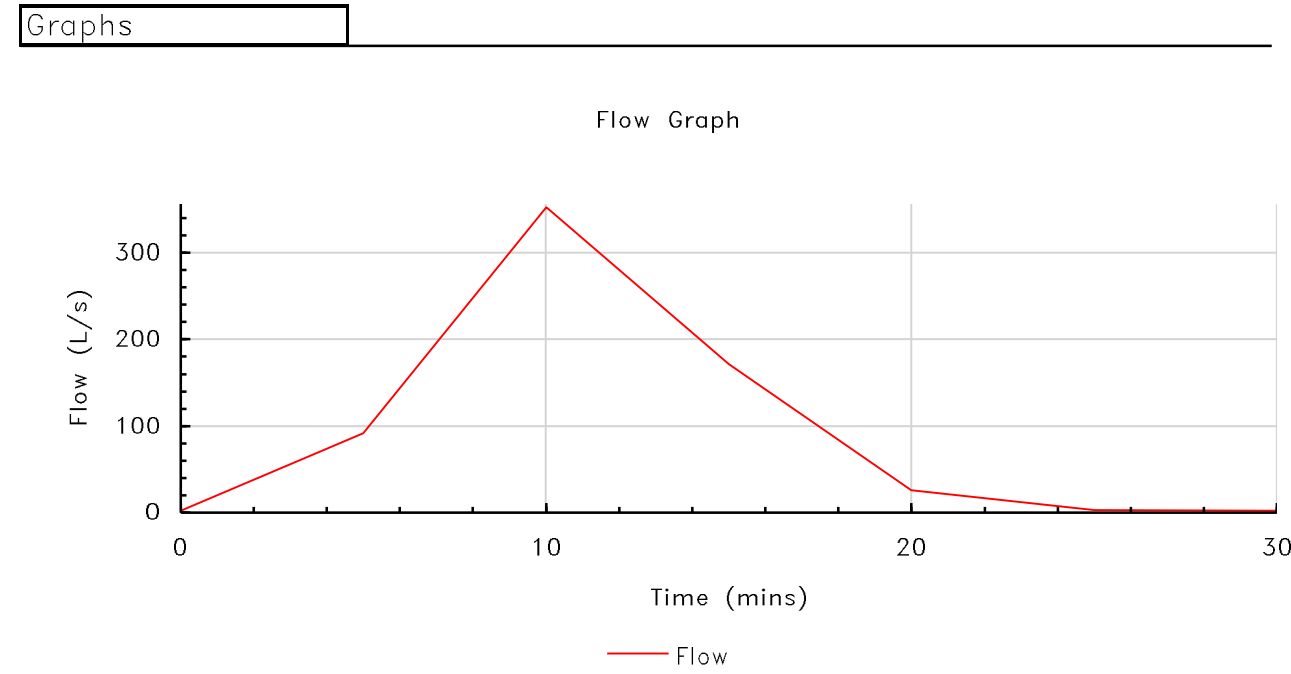
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.211	108.9
10	0.375	253.9
15	0.375	317.2
20	0.095	29.1
25	0.014	0.5
30	0.005	0.1

Created in InfoDrainage 2024.4

74/87

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by: UKJXB042	Checked by:		Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm			Company Address:

 3.018 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +0: 15 mins: Winter Type : Pipe



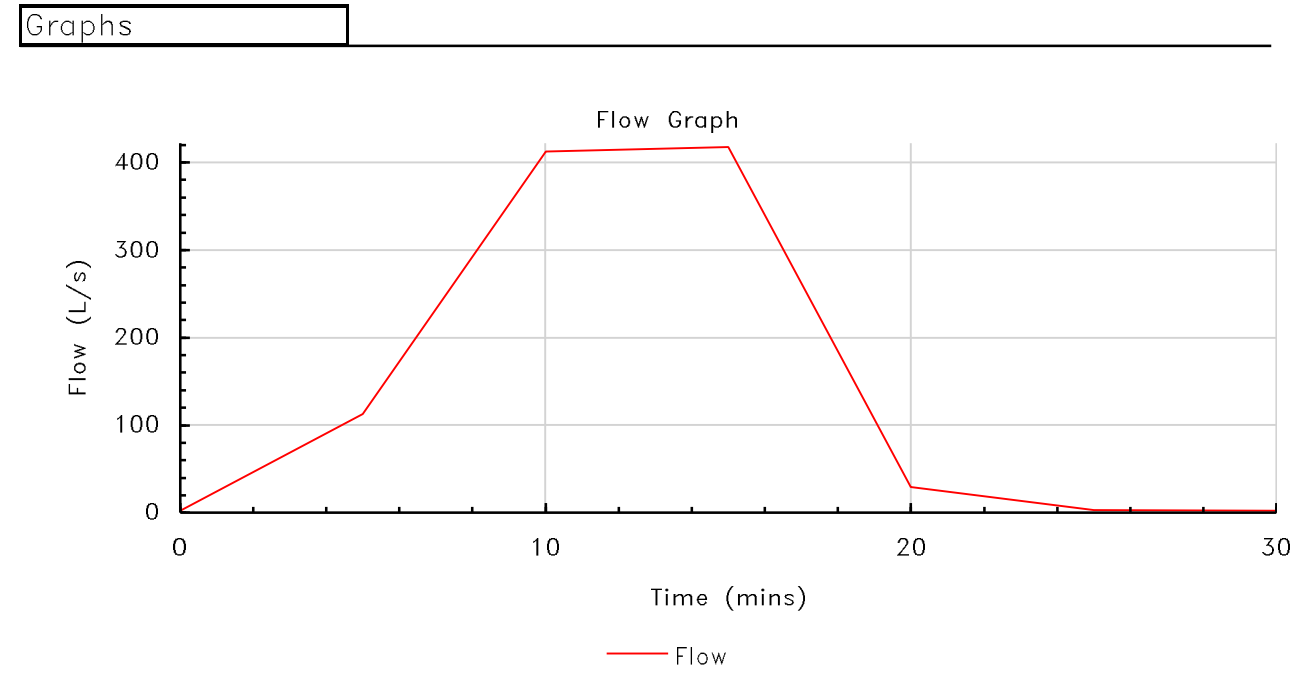
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.185	90.3
10	0.450	352.8
15	0.285	170.5
20	0.163	23.8
25	0.140	1.0
30	0.134	0.2

Created in InfoDrainage 2024.4

75/87

E-W LINK STRATEGY: Climate Change Allowance Results	Date: 22/09/2023		I DRN
	Designed by: UKJXB042	Checked by: Approved By:	
	Report Details: Type: Connection Results Storm Phase: Storm		

 3.020 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer Type : Pipe



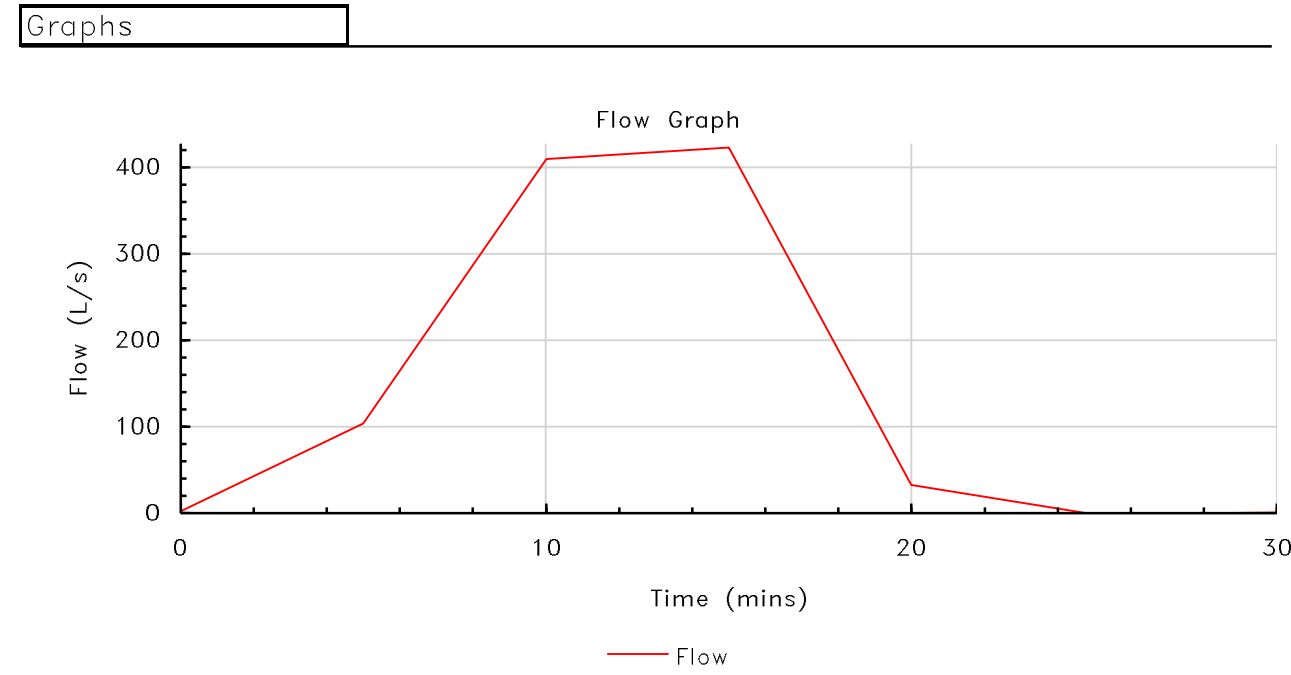
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.239	111.1
10	0.450	412.3
15	0.450	417.6
20	0.178	27.6
25	0.158	0.9
30	0.155	0.2

Created in InfoDrainage 2024.4

76/87

E-W LINK STRATEGY Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by: UKJXB042	Checked by:		Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm			Company Address:

 3.021 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer Type : Pipe



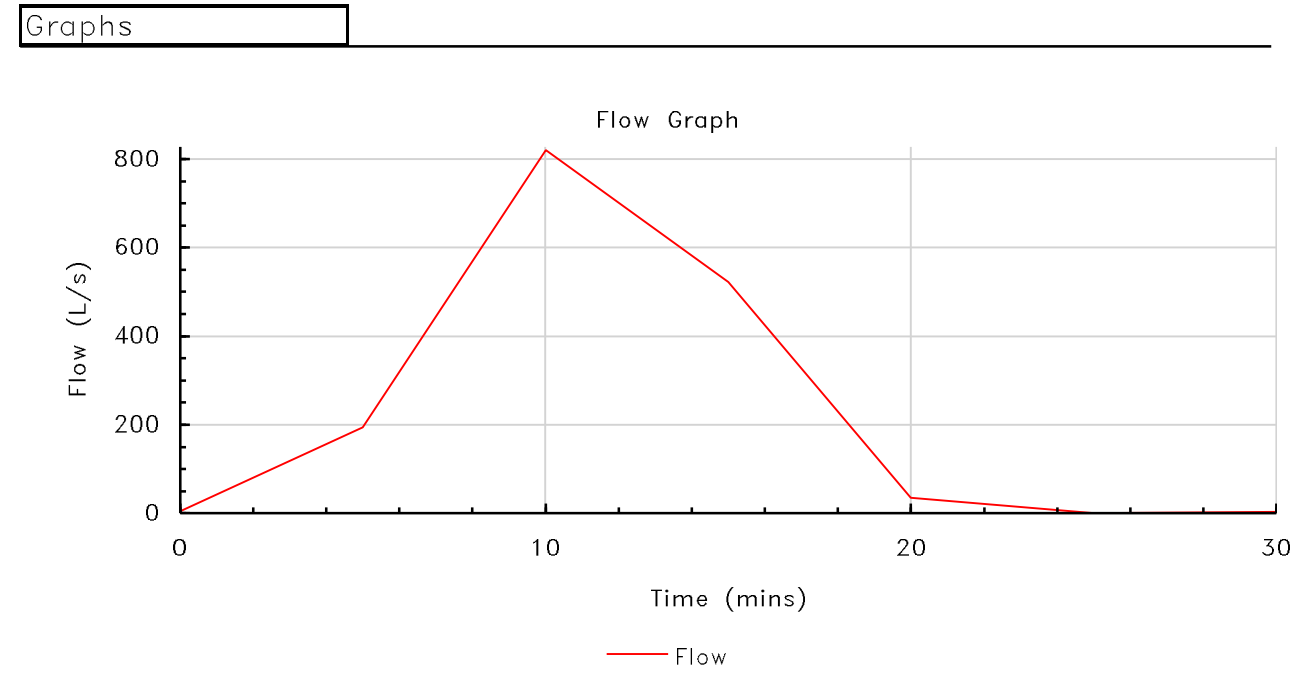
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.206	102.5
10	0.525	409.5
15	0.502	423.0
20	0.251	30.9
25	0.275	-3.3
30	0.277	-1.0

Created in InfoDrainage 2024.4

77/87

E-W LINK STRATEGY Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by: UKJXB042	Checked by:		Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm			Company Address:

 3.022 Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 15 mins: Summer Type : Pipe



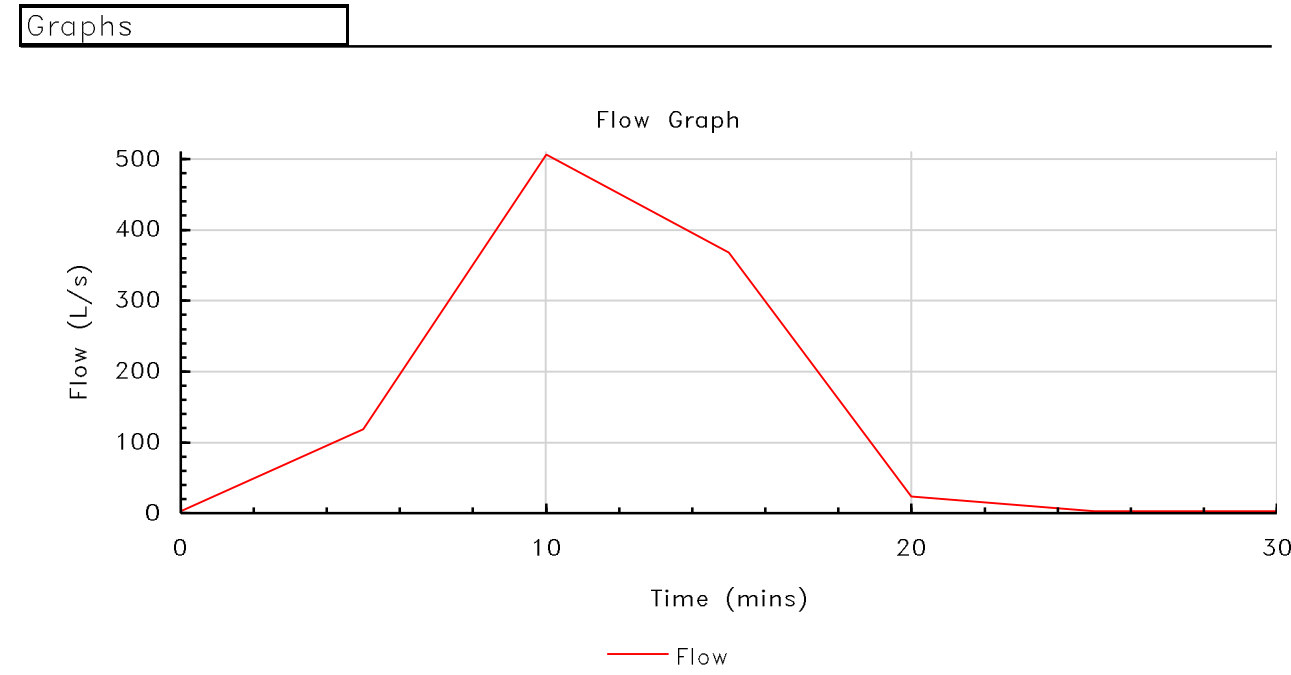
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.155	190.3
10	0.513	819.7
15	0.446	521.1
20	0.422	30.7
25	0.446	-4.3
30	0.448	-1.3

Created in InfoDrainage 2024.4

78/87

E-W LINK STRATEGY Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by: UKJXB042	Checked by:		Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm			Company Address:

 3.023 Critical Storm: Sim Criteria FEH: 30 years: Increase Rainfall (%): +40: 15 mins: Summer Type : Pipe



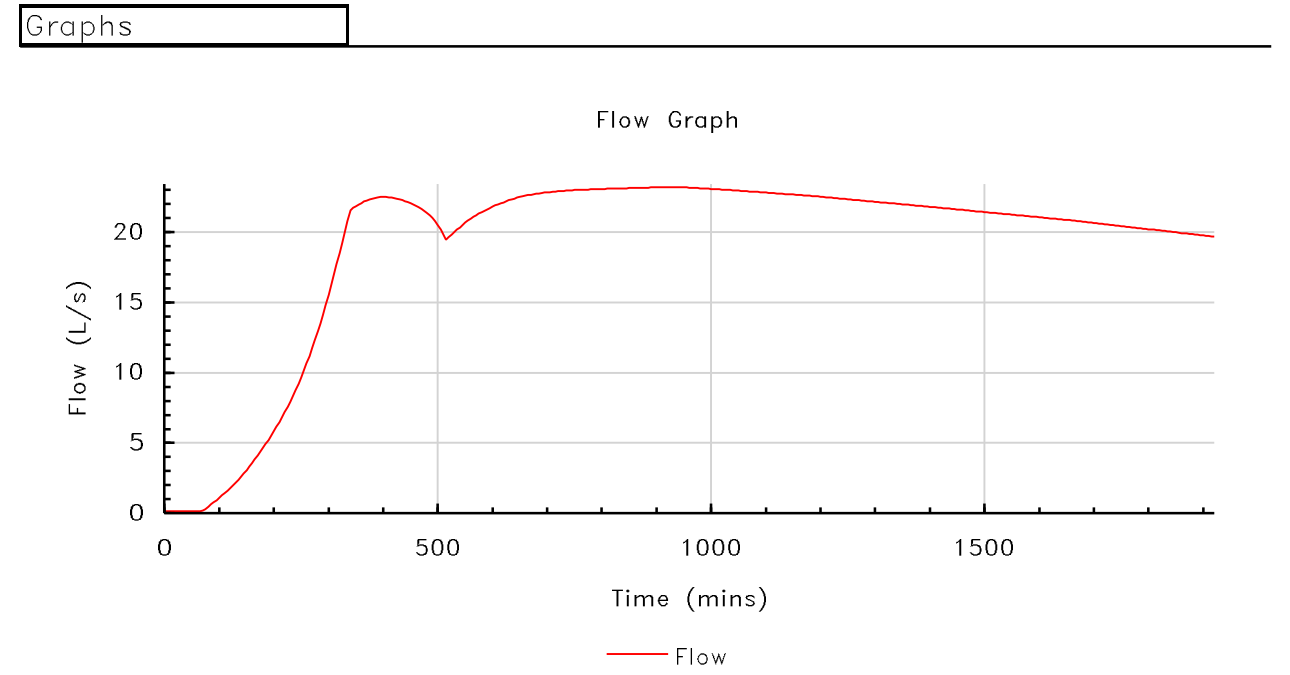
Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.130	116.2
10	0.435	505.8
15	0.450	367.4
20	0.340	21.2
25	0.352	0.0
30	0.351	0.0

Created in InfoDrainage 2024.4

79/87

E-W LINK STRATEGY Climate Change Allowance Results	Date: 22/09/2023		I DRN	
	Designed by: UKJXB042	Checked by:		Approved By:
	Report Details: Type: Connection Results Storm Phase: Storm			Company Address:

 Outlet Critical Storm: Sim Criteria FEH: 100 years: Increase Rainfall (%): +45: 960 mins: Winter Type : Pipe



Time (mins)	Depth (m)	Flow (L/s)
0	0.000	0.0
5	0.000	0.0
10	0.000	0.0
15	0.000	0.0
20	0.000	0.0
25	0.000	0.0
30	0.000	0.0
35	0.000	0.0
40	0.000	0.0
45	0.000	0.0
50	0.000	0.0
55	0.000	0.0
60	0.000	0.0
65	0.002	0.0
70	0.004	0.1
75	0.007	0.2
80	0.010	0.3
85	0.012	0.5
90	0.013	0.7
95	0.015	0.8
100	0.016	1.0
105	0.017	1.1
110	0.018	1.3

Created in InfoDrainage 2024.4

80/87

E/W LINK STRATEGY:
Climate Change Allowance
Results

Report Details
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

Time (mins)	Depth (m)	Flow (L/s)
115	0.020	1.5
120	0.021	1.7
125	0.022	1.9
130	0.023	2.0
135	0.024	2.3
140	0.025	2.5
145	0.026	2.7
150	0.027	3.0
155	0.028	3.2
160	0.029	3.5
165	0.030	3.7
170	0.031	4.0
175	0.032	4.3
180	0.033	4.5
185	0.034	4.8
190	0.035	5.1
195	0.036	5.4
200	0.037	5.7
205	0.038	6.1
210	0.039	6.4
215	0.040	6.7
220	0.041	7.1
225	0.043	7.5
230	0.044	7.9
235	0.045	8.3
240	0.046	8.7
245	0.047	9.1
250	0.048	9.5
255	0.049	10.1
260	0.051	10.6
265	0.052	11.1
270	0.053	11.7
275	0.054	12.3
280	0.056	12.9
285	0.057	13.5
290	0.058	14.1
295	0.060	14.8
300	0.061	15.5
305	0.063	16.2
310	0.064	17.0
315	0.066	17.7
320	0.067	18.5
325	0.068	19.2
330	0.070	20.0
335	0.071	20.8
340	0.073	21.5
345	0.073	21.7
350	0.073	21.8
355	0.073	22.0
360	0.073	22.1
365	0.074	22.2
370	0.074	22.2
375	0.074	22.3
380	0.074	22.4

Created in InfoDrainage 2024.4

81/87

E/W LINK STRATEGY:
Climate Change Allowance
Results

Report Details
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

Time (mins)	Depth (m)	Flow (L/s)
385	0.074	22.4
390	0.074	22.5
395	0.074	22.5
400	0.074	22.5
405	0.074	22.5
410	0.074	22.5
415	0.074	22.4
420	0.074	22.4
425	0.074	22.4
430	0.074	22.3
435	0.074	22.3
440	0.074	22.2
445	0.074	22.1
450	0.073	22.0
455	0.073	22.0
460	0.073	21.9
465	0.073	21.8
470	0.073	21.6
475	0.072	21.5
480	0.072	21.4
485	0.072	21.2
490	0.072	21.0
495	0.071	20.8
500	0.071	20.5
505	0.070	20.2
510	0.069	19.8
515	0.069	19.4
520	0.069	19.6
525	0.069	19.8
530	0.070	20.0
535	0.070	20.2
540	0.070	20.3
545	0.071	20.5
550	0.071	20.7
555	0.071	20.8
560	0.071	20.9
565	0.072	21.1
570	0.072	21.2
575	0.072	21.3
580	0.072	21.4
585	0.072	21.5
590	0.073	21.6
595	0.073	21.7
600	0.073	21.8
605	0.073	21.9
610	0.073	22.0
615	0.073	22.0
620	0.074	22.1
625	0.074	22.2
630	0.074	22.3
635	0.074	22.3
640	0.074	22.4
645	0.074	22.4
650	0.074	22.5

Created in InfoDrainage 2024.4

82/87

E/W LINK STRATEGY:
Climate Change Allowance
Results

Report Details
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

Time (mins)	Depth (m)	Flow (L/s)
655	0.074	22.5
660	0.074	22.6
665	0.074	22.6
670	0.074	22.7
675	0.074	22.7
680	0.075	22.7
685	0.075	22.7
690	0.075	22.8
695	0.075	22.8
700	0.075	22.8
705	0.075	22.8
710	0.075	22.9
715	0.075	22.9
720	0.075	22.9
725	0.075	22.9
730	0.075	22.9
735	0.075	22.9
740	0.075	23.0
745	0.075	23.0
750	0.075	23.0
755	0.075	23.0
760	0.075	23.0
765	0.075	23.0
770	0.075	23.0
775	0.075	23.0
780	0.075	23.0
785	0.075	23.0
790	0.075	23.0
795	0.075	23.1
800	0.075	23.1
805	0.075	23.1
810	0.075	23.1
815	0.075	23.1
820	0.075	23.1
825	0.075	23.1
830	0.075	23.1
835	0.075	23.1
840	0.075	23.1
845	0.075	23.1
850	0.075	23.1
855	0.075	23.1
860	0.075	23.1
865	0.075	23.1
870	0.075	23.1
875	0.075	23.2
880	0.075	23.2
885	0.075	23.2
890	0.075	23.2
895	0.075	23.2
900	0.075	23.2
905	0.075	23.2
910	0.075	23.2
915	0.075	23.2
920	0.075	23.2

Created in InfoDrainage 2024.4

83/87

E/W LINK STRATEGY:
Climate Change Allowance
Results

Report Details
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

Time (mins)	Depth (m)	Flow (L/s)
925	0.075	23.2
930	0.075	23.2
935	0.075	23.2
940	0.075	23.2
945	0.075	23.2
950	0.075	23.2
955	0.075	23.2
960	0.075	23.2
965	0.075	23.2
970	0.075	23.1
975	0.075	23.1
980	0.075	23.1
985	0.075	23.1
990	0.075	23.1
995	0.075	23.1
1000	0.075	23.1
1005	0.075	23.1
1010	0.075	23.0
1015	0.075	23.0
1020	0.075	23.0
1025	0.075	23.0
1030	0.075	23.0
1035	0.075	23.0
1040	0.075	23.0
1045	0.075	23.0
1050	0.075	22.9
1055	0.075	22.9
1060	0.075	22.9
1065	0.075	22.9
1070	0.075	22.9
1075	0.075	22.9
1080	0.075	22.9
1085	0.075	22.8
1090	0.075	22.8
1095	0.075	22.8
1100	0.075	22.8
1105	0.075	22.8
1110	0.075	22.8
1115	0.075	22.8
1120	0.075	22.7
1125	0.075	22.7
1130	0.075	22.7
1135	0.075	22.7
1140	0.075	22.7
1145	0.074	22.7
1150	0.074	22.7
1155	0.074	22.6
1160	0.074	22.6
1165	0.074	22.6
1170	0.074	22.6
1175	0.074	22.6
1180	0.074	22.6
1185	0.074	22.6
1190	0.074	22.5

Created in InfoDrainage 2024.4

84/87

E/W LINK STRATEGY:
Climate Change Allowance
Results

Report Details
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

Time (mins)	Depth (m)	Flow (L/s)
1195	0.074	22.5
1200	0.074	22.5
1205	0.074	22.5
1210	0.074	22.5
1215	0.074	22.5
1220	0.074	22.4
1225	0.074	22.4
1230	0.074	22.4
1235	0.074	22.4
1240	0.074	22.4
1245	0.074	22.3
1250	0.074	22.3
1255	0.074	22.3
1260	0.074	22.3
1265	0.074	22.3
1270	0.074	22.3
1275	0.074	22.2
1280	0.074	22.2
1285	0.074	22.2
1290	0.074	22.2
1295	0.074	22.2
1300	0.074	22.1
1305	0.074	22.1
1310	0.074	22.1
1315	0.073	22.1
1320	0.073	22.1
1325	0.073	22.1
1330	0.073	22.1
1335	0.073	22.0
1340	0.073	22.0
1345	0.073	22.0
1350	0.073	22.0
1355	0.073	22.0
1360	0.073	21.9
1365	0.073	21.9
1370	0.073	21.9
1375	0.073	21.9
1380	0.073	21.9
1385	0.073	21.8
1390	0.073	21.8
1395	0.073	21.8
1400	0.073	21.8
1405	0.073	21.8
1410	0.073	21.8
1415	0.073	21.7
1420	0.073	21.7
1425	0.073	21.7
1430	0.073	21.7
1435	0.073	21.7
1440	0.073	21.6
1445	0.073	21.6
1450	0.073	21.6
1455	0.073	21.6
1460	0.073	21.6

Created in InfoDrainage 2024.4

85/87

E/W LINK STRATEGY:
Climate Change Allowance
Results

Report Details
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

Time (mins)	Depth (m)	Flow (L/s)
1465	0.073	21.5
1470	0.072	21.5
1475	0.072	21.5
1480	0.072	21.5
1485	0.072	21.5
1490	0.072	21.4
1495	0.072	21.4
1500	0.072	21.4
1505	0.072	21.4
1510	0.072	21.4
1515	0.072	21.4
1520	0.072	21.3
1525	0.072	21.3
1530	0.072	21.3
1535	0.072	21.3
1540	0.072	21.3
1545	0.072	21.2
1550	0.072	21.2
1555	0.072	21.2
1560	0.072	21.2
1565	0.072	21.2
1570	0.072	21.2
1575	0.072	21.1
1580	0.072	21.1
1585	0.072	21.1
1590	0.072	21.1
1595	0.072	21.1
1600	0.072	21.0
1605	0.072	21.0
1610	0.072	21.0
1615	0.072	21.0
1620	0.072	21.0
1625	0.071	20.9
1630	0.071	20.9
1635	0.071	20.9
1640	0.071	20.9
1645	0.071	20.9
1650	0.071	20.9
1655	0.071	20.8
1660	0.071	20.8
1665	0.071	20.8
1670	0.071	20.8
1675	0.071	20.7
1680	0.071	20.7
1685	0.071	20.7
1690	0.071	20.7
1695	0.071	20.7
1700	0.071	20.6
1705	0.071	20.6
1710	0.071	20.6
1715	0.071	20.6
1720	0.071	20.5
1725	0.071	20.5
1730	0.071	20.5

Created in InfoDrainage 2024.4

86/87

E/W LINK STRATEGY:
Climate Change Allowance
Results

Report Details
Type: Connection Results
Storm Phase: Storm

Date:
22/09/2023

Designed by:
UKJXB042

Company Address:

Checked by:

Approved By:

I

DRN

Time (mins)	Depth (m)	Flow (L/s)
1735	0.071	20.5
1740	0.071	20.5
1745	0.071	20.4
1750	0.071	20.4
1755	0.071	20.4
1760	0.070	20.4
1765	0.070	20.3
1770	0.070	20.3
1775	0.070	20.3
1780	0.070	20.3
1785	0.070	20.3
1790	0.070	20.2
1795	0.070	20.2
1800	0.070	20.2
1805	0.070	20.2
1810	0.070	20.1
1815	0.070	20.1
1820	0.070	20.1
1825	0.070	20.1
1830	0.070	20.1
1835	0.070	20.0
1840	0.070	20.0
1845	0.070	20.0
1850	0.070	20.0
1855	0.070	19.9
1860	0.070	19.9
1865	0.070	19.9
1870	0.070	19.9
1875	0.070	19.8
1880	0.070	19.8
1885	0.069	19.8
1890	0.069	19.8
1895	0.069	19.8
1900	0.069	19.7
1905	0.069	19.7
1910	0.069	19.7
1915	0.069	19.7
1920	0.069	19.7

Analysis Criteria

Select from the following

Label Sim Criteria FEH

Parameters	Return Periods	Storm Durations
Return Periods		
Use	Return Period (years)	Increase Rainfall (%)
☒	100	45

Add
Delete
Clear All
Deselect All
Select All

☒ All
☐ Design Criteria FEH
☐ SRP Wizard FEH
☒ Sim Criteria FEH

Method FEH
Number of Storms 18
Max. Run Time (mins) 2880

Label Sim Criteria FEH

Parameters	Return Periods	Storm Durations
Parameters		
Version 2022	Point	
Site Location GB 494145 104717 SU 94145		
Storm Profile ☒ Summer ☒ Winter		

Label Sim Criteria FEH

Parameters	Return Periods	Storm Durations
Storm Durations		
Use	Duration (mins)	Run Time (mins)
☒	15	30
☒	30	60
☒	60	120
☒	120	240
☐	180	360
☒	240	480
☒	360	720
☒	480	960
☐	600	1200
☐	720	1440
☒	960	1920
☒	1440	2880
☐	2160	4320
☐	2880	5760
☐	4320	8640

Add
Delete
Clear All
Deselect All
Select All
Default

Top North Parcel QSE100yr+45%

Input	Results
Input Type User Input Area (ha) 1.19 Volumetric Runoff Coefficient 1.000 Discharge Rate (L/s) 7.27 Infiltration Rate (m/hr) 0.0 Safety Factor 2.0 Quick Calculate Create New ☒ From Library ☒ All ☐ Design Criteria FEH ☐ SRP Wizard FEH ☒ Sim Criteria FEH Method FEH Number of Storms 18 Max. Run Time (mins) 2880	Quick Storage Estimate variables require approximate storage of between 1020m³ - 1304m³. These values are estimates only and should not be used for final design purposes.

Central Parcel

QSE100yr+45%

Input		Results	
Input Type	User Input	Quick Storage Estimate variables require approximate storage of between 3341m³ - 4261m³. These values are estimates only and should not be used for final design purposes.	
Area (ha)	3.863		
Volumetric Runoff Coefficient	1.000		
Discharge Rate (L/s)	22.59		
Infiltration Rate (m/hr)	0.0		
Safety Factor	2.0		
	Quick		Calculate
☐ Create New ☒ From Library			
☒ All ☐ Design Criteria FEH ☐ SRP Wizard FEH ☒ Sim Criteria FEH			
Method	FEH		
Number of Storms	18		
Max. Run Time (mins)	2880		

Southern Parcel

QSE100yr+45%

Input		Results	
Input Type	User Input	Quick Storage Estimate variables require approximate storage of between 3035m³ - 3880m³. These values are estimates only and should not be used for final design purposes.	
Area (ha)	3.54		
Volumetric Runoff Coefficient	1.000		
Discharge Rate (L/s)	21.63		
Infiltration Rate (m/hr)	0.0		
Safety Factor	2.0		
	Quick		Calculate
☐ Create New ☒ From Library			
☒ All ☐ Design Criteria FEH ☐ SRP Wizard FEH ☒ Sim Criteria FEH			
Method	FEH		
Number of Storms	18		
Max. Run Time (mins)	2880		