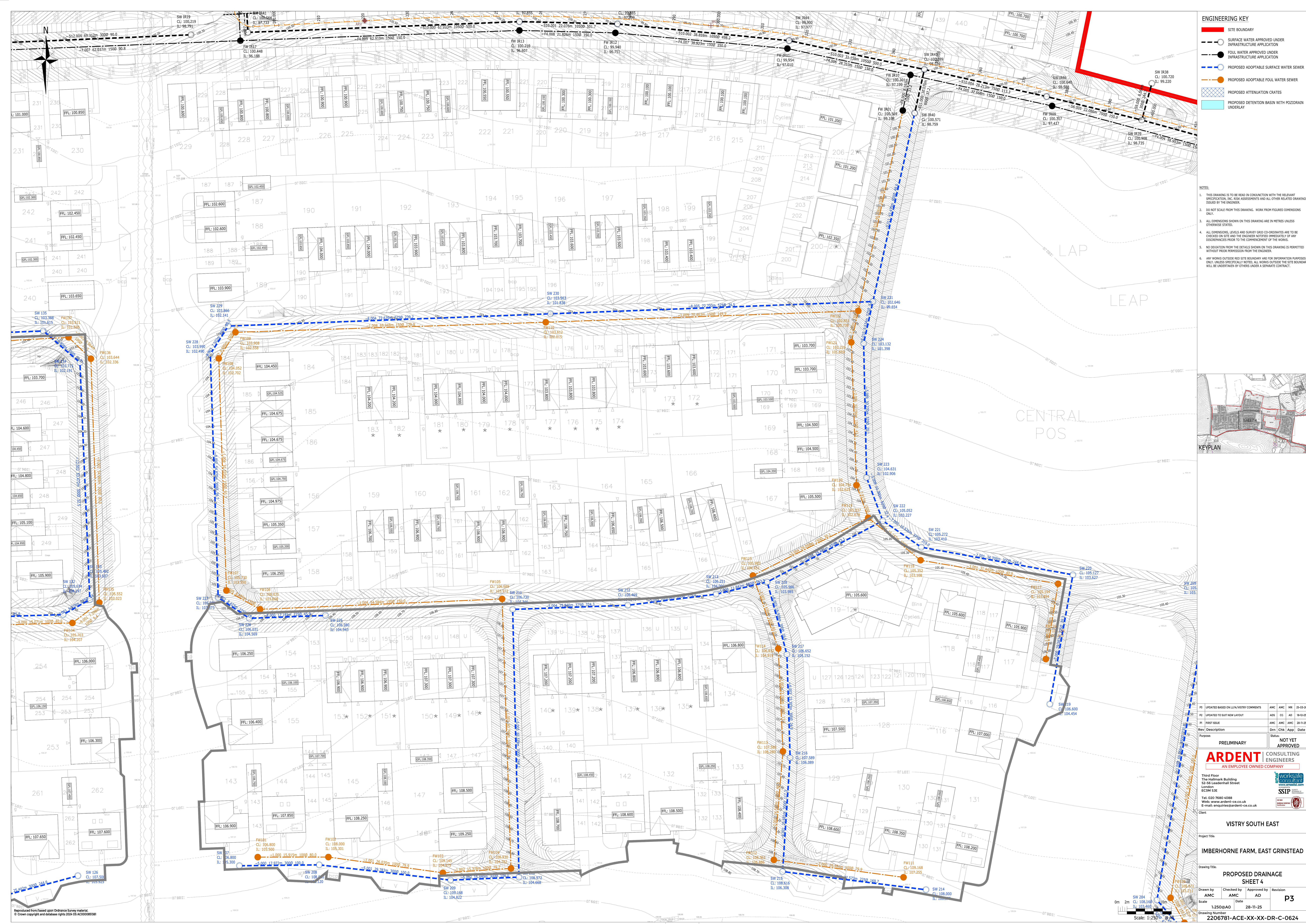
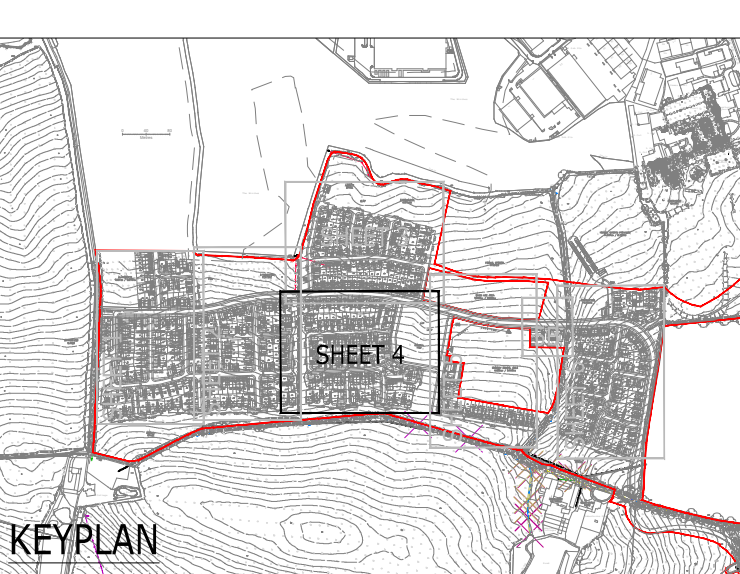




ENGINEERING KEY

- SITE BOUNDARY
- - - SURFACE WATER APPROVED UNDER INFRASTRUCTURE APPLICATION
- FOUL WATER APPROVED UNDER INFRASTRUCTURE APPLICATION
- - - PROPOSED ADOPTABLE SURFACE WATER SEWER
- PROPOSED ADOPTABLE FOUL WATER SEWER
- PROPOSED ATTENUATION CRATES
- PROPOSED DETENTION BASIN WITH POZZIDRAIN UNDERLAY

- NOTES:**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RELEVANT SPECIFICATION, INCLUDING RISK ASSESSMENTS AND ALL OTHER RELATED DRAWINGS ISSUED BY THE ENGINEER.
 - DO NOT SCALE FROM THIS DRAWING. WORK FROM FIGURED DIMENSIONS ONLY.
 - ALL DIMENSIONS SHOWN ON THIS DRAWING ARE IN METRES UNLESS OTHERWISE STATED.
 - ALL DIMENSIONS, LEVELS AND SURVEY GRID CO-ORDINATES ARE TO BE CHECKED ON SITE AND THE ENGINEER NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES PRIOR TO THE COMMENCEMENT OF THE WORKS.
 - NO OVIATION FROM THE DETAILS SHOWN ON THIS DRAWING IS PERMITTED WITHOUT PRIOR PERMISSION FROM THE ENGINEER.
 - ANY WORKS OUTSIDE RED SITE BOUNDARY ARE FOR INFORMATION PURPOSES ONLY. UNLESS SPECIFICALLY NOTED, ALL WORKS OUTSIDE THE SITE BOUNDARY WILL BE UNDERTAKEN BY OTHERS UNDER A SEPARATE CONTRACT.



PS	UPDATED BASED ON LUPA HISTORY COMMENTS	AMC	AMC	MR	25-03-25
PS	UPDATED TO DATE NEW LAYOUT	ADS	CC	AD	16-02-25
PI	FIRST ISSUE	AMC	AMC	AMC	28-11-25
Rev	Description	Drn	Chk	App	Date

Purpose:	PRELIMINARY	Status:	NOT YET APPROVED
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ARDENT CONSULTING ENGINEERS
AN EMPLOYEE OWNED COMPANY

Third Floor
The Halmark Building
52-56 Leadenhall Street
London
EC3M 5UE

Tel: 020 7680 4088
Web: www.ardent-ce.co.uk
E-mail: enquiries@ardent-ce.co.uk

Client: **VISTRY SOUTH EAST**

Project Title: **IMBERHORNE FARM, EAST GRINSTEAD**

Drawing Title: **PROPOSED DRAINAGE SHEET 4**

Drawn by	Checked by	Approved by	Revision
AMC	AMC	AD	P3
Scale	Date		
1:250@A0	28-11-25		

Drawing Number: **2206781-ACE-XX-XX-DR-C-0624**

Scale: 1:250 @ A0

EXISTING GROUND LEVEL

INTERCEPTION AREA

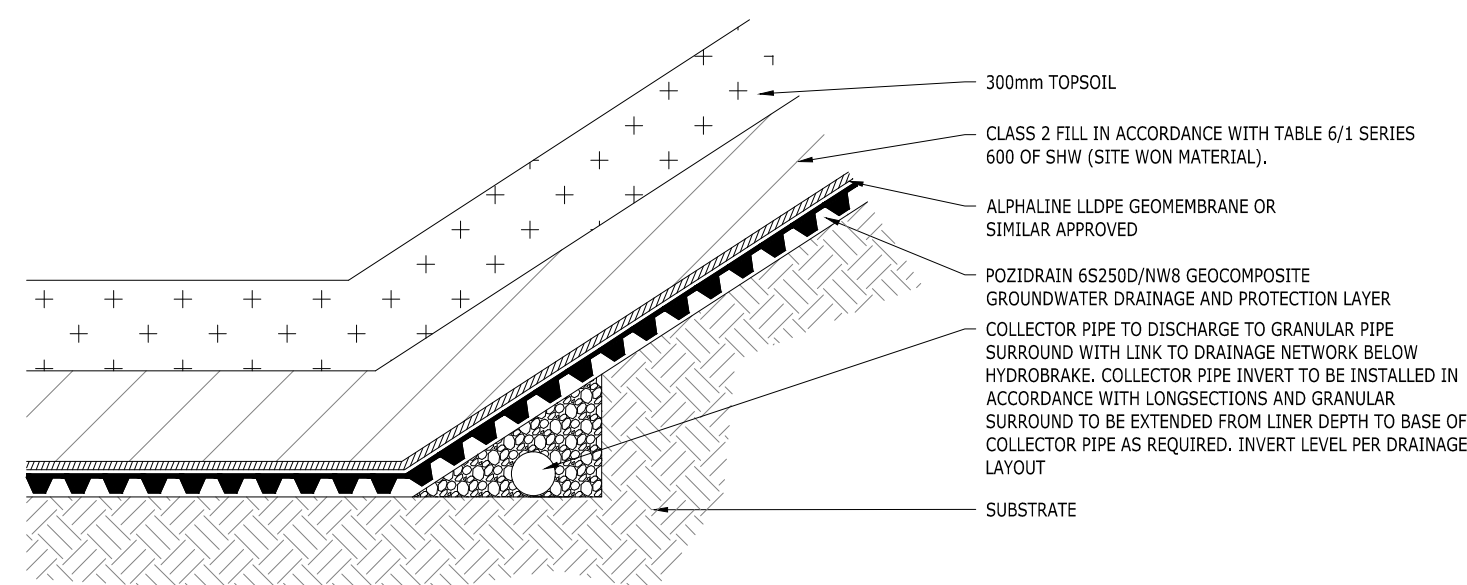
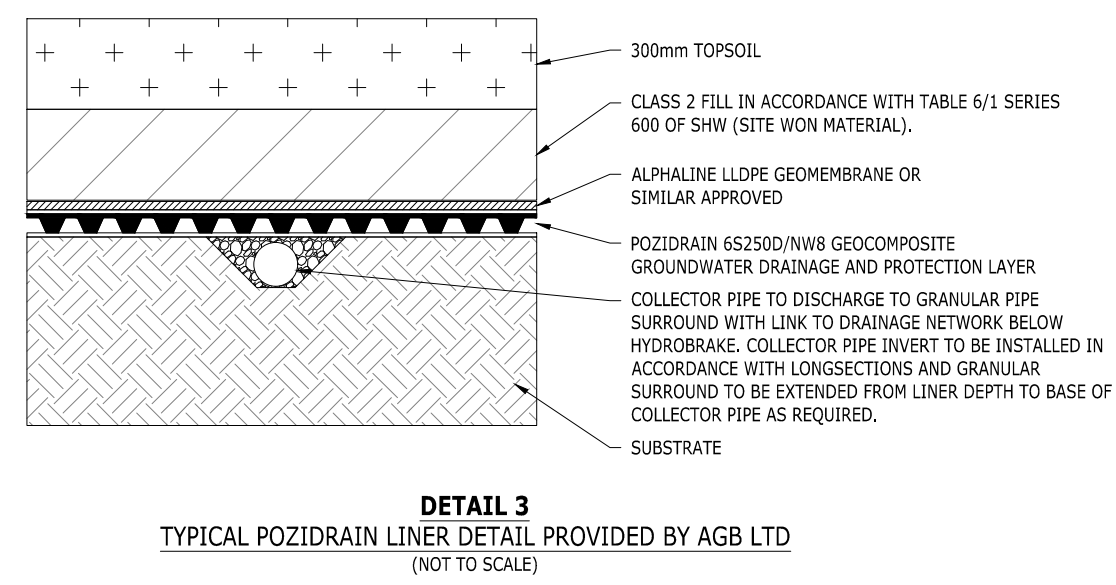
PROPOSED BASIN LEVELS

[illegible]

The diagram illustrates a cross-section of a drainage system. The vertical axis represents elevation, ranging from 90.00 to 100.00. The horizontal axis represents distance. A dashed green line represents the 'EXISTING GROUND LEVEL'. A solid red line represents the 'PROPOSED BASIN LEVELS'. A blue shaded area between the existing ground level and the proposed basin levels is labeled 'INTERCEPTION AREA'. The diagram shows a basin with a flat bottom and sloping sides, with the interception area located within the basin.

101,458	101,471
101,741	101,755
55,000	55,938

and from/based upon Ordnance Survey material.
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|------------------|-------------|------------------|-----|-----|----------|
| FIRST ISSUE | | AMC | AMC | MR | 25-03-26 |
| Rev | Description | Orn | Chk | App | Date |
| Purpose: | | Status: | | | |
| WORK IN PROGRESS | | NOT YET APPROVED | | | |
- # ARDENT

CONSULTING ENGINEERS

AN EMPLOYEE OWNED COMPANY
- Third Floor
The Hatfield Building
52-56 Leadenhall Street
EC3M 5JF
- Tel: 020 7690 4088
Web: www.ardent-ce.co.uk
E-mail: enquiries@ardent-ce.co.uk
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ORNE FARM, EAST GRINSTEAD

TYPICAL SuDS BASIN DETAILS

Drawn by AMC	Checked by AMC	Approved by MR	Revision P1
Scale NTS@A0	Date 25-03-26		
Drawing Number 2206781-ACE-XX-XX-DR-C-0628			



Drainage Strategy Addendum

Prepared on behalf of Vistry Homes Ltd.



Appendix D

Supporting Hydraulic Calculations

Design Settings

Rainfall Methodology	FEH-22	Minimum Velocity (m/s)	1.00
Return Period (years)	100	Connection Type	Level Soffits
Additional Flow (%)	0	Minimum Backdrop Height (m)	0.600
CV	1.000	Preferred Cover Depth (m)	1.200
Time of Entry (mins)	5.00	Include Intermediate Ground	✓
Maximum Time of Concentration (mins)	30.00	Enforce best practice design rules	x
Maximum Rainfall (mm/hr)	150.0		

Nodes

Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
101	0.113	5.00		109.000	1200	536707.937	138551.117	1.500	107.500
102				108.500	1200	536684.681	138551.483	1.500	107.000
103				109.170	1200	536634.612	138542.123	2.378	106.792
104	0.063	5.00		109.100	1200	536589.042	138537.552	1.500	107.600
105				109.100	1200	536609.759	138539.140	1.623	107.477
106	0.040	5.00		109.112	1350	536625.939	138544.369	2.357	106.755
107				108.851	1200	536624.526	138549.678	2.355	106.496
108	0.088	5.00		106.874	1500	536620.979	138595.791	1.833	105.041
109	0.136	5.00		106.729	1350	536687.824	138606.120	1.774	104.955
110				106.487	1350	536653.904	138598.280	1.640	104.847
111	0.247	5.00		106.557	1350	536646.950	138598.258	1.807	104.750
112				104.490	1350	536646.768	138654.295	1.650	102.840
IR01				101.953		536646.585	138710.333	1.774	100.179
113	0.051	5.00		107.100	1200	536565.015	138570.278	1.500	105.600
114				107.100	1200	536567.203	138585.847	1.593	105.507
115				107.100	1200	536577.614	138597.750	1.925	105.175
116	0.150	5.00		106.422	1200	536582.965	138600.129	1.516	104.906
IR02				104.905		536585.867	138635.871	1.650	103.255
IR03	0.166	5.00		104.125	1350	536586.896	138654.373	2.884	101.241
IR04	0.100	5.00		103.148	1350	536571.814	138673.396	2.338	100.810
IR05	0.012	5.00		101.612	1350	536571.879	138721.668	1.575	100.037
IR06	0.056	5.00		101.451	1500	536587.028	138721.504	1.967	99.484
IR07	0.109	5.00		101.582	1500	536646.550	138721.076	2.200	99.382
117	0.115	5.00		108.832	1200	536729.986	138562.161	1.678	107.154
118	0.088	5.00		107.253	1350	536728.262	138611.780	1.677	105.576
119	0.105	5.00		106.970	1350	536706.583	138610.703	1.575	105.395
120	0.143	5.00		104.949	1350	536705.482	138661.273	1.575	103.374
IR08				102.488		536704.380	138711.843	1.654	100.834
IR09	0.052	5.00		102.447	1200	536733.624	138724.502	1.937	100.510
IR10	0.142	5.00		102.167	1350	536703.967	138722.258	2.058	100.109
IR11	0.090	5.00		101.716	1950	536660.972	138721.343	2.862	98.854
IR12	0.112	5.00		101.663		536660.650	138729.502	2.824	98.839
121	0.110	5.00		99.200	1200	536655.168	138810.924	1.136	98.064
122	0.209	5.00		99.831	2175	536658.593	138781.630	2.863	96.968
123				99.500	2175	536726.849	138786.567	2.600	96.900
124				99.250		536797.514	138781.738	2.425	96.825
125	0.146	5.00		109.000	1350	536749.751	138551.024	1.650	107.350
126	0.091	5.00		107.500	1200	536882.484	138560.679	1.575	105.925
127				107.700	1200	536857.917	138554.064	1.879	105.821
128	0.125	5.00		108.915	1350	536831.621	138553.618	3.277	105.638
129	0.058	5.00		106.869	1200	536804.660	138614.482	1.425	105.444
130	0.134	5.00		106.507	1350	536829.559	138615.315	1.575	104.932
131	0.091	5.00		106.051	1200	536848.889	138618.561	1.500	104.551
132				105.674	1200	536879.162	138619.524	1.477	104.197
133	0.142	5.00		105.492	1200	536885.157	138622.896	1.655	103.837
134				103.715	1200	536882.937	138676.295	1.524	102.191
135	0.085	5.00		103.388	1500	536874.679	138683.416	1.773	101.615
136	0.145	5.00		103.933	1500	536827.044	138681.604	2.415	101.518
137				102.283	1500	536825.617	138716.966	1.955	100.328

Nodes

Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
IR13				101.700		536823.446	138733.452	1.887	99.813
138	0.130	5.00		106.689	1350	536782.063	138613.970	1.575	105.114
139	0.227	5.00		106.882	1350	536767.999	138613.398	1.825	105.057
140				103.949	1350	536764.782	138692.503	2.001	101.948
IR14				102.873		536759.434	138717.852	1.723	101.150
IR15	0.082	5.00		102.553	1350	536757.060	138728.367	1.666	100.887
IR16	0.044	5.00		101.945	1350	536790.781	138737.959	1.902	100.043
IR17	0.056	5.00		101.371	1800	536822.067	138743.924	1.950	99.421
IR18	0.146	5.00		100.821	1800	536850.951	138747.740	3.114	97.707
IR19	0.200	5.00		100.291	1200	536907.967	138750.143	1.500	98.791
142				99.250		536848.873	138772.022	2.400	96.850
143		5.00		99.250		536873.443	138787.431	2.412	96.838
144				99.250	2100	536882.010	138789.367	2.448	96.802
145				97.855	1200	536892.999	138792.196	1.100	96.755
*201	0.162	5.00		106.000	1350	537282.965	138522.107	1.575	104.425
*202	0.137	5.00		108.195	1500	537207.408	138535.203	4.559	103.636
*203				108.310	1500	537131.793	138548.070	4.830	103.480
*204	0.119	5.00		108.168	1500	537125.586	138555.197	4.708	103.460
*205	0.181	5.00		105.410	1350	537137.193	138623.382	2.250	103.160
*206				102.055	1350	537150.920	138700.611	1.957	100.098
*IR31				101.690		537154.083	138711.634	1.883	99.807
*IR32	0.400	5.00		103.059		537251.771	138692.712	1.723	101.336
*IR33	0.006	5.00		102.746	1350	537252.057	138702.445	1.862	100.884
*IR34	0.035	5.00		102.061	1350	537210.651	138707.370	1.800	100.261
*IR35	0.155	5.00		101.380		537174.959	138725.732	1.500	99.880
*IR36	0.045	5.00		101.559	1500	537172.739	138717.554	2.014	99.545
*IR37	0.023	5.00		101.370	1500	537156.881	138721.385	2.009	99.361
*IR38	0.155	5.00		100.720		537124.429	138739.198	1.500	99.220
*IR39	0.050	5.00		100.908	1800	537122.172	138730.937	2.173	98.735
*207	0.083	5.00		106.800	1200	536918.882	138562.933	1.500	105.300
*208				108.000	1200	536936.853	138563.139	2.880	105.120
*209				109.168	1200	536966.436	138559.695	4.346	104.822
*210	0.110	5.00		108.972	1200	536981.861	138560.373	4.304	104.668
*211	0.122	5.00		106.730	1350	536980.434	138620.684	2.384	104.346
*212	0.097	5.00		106.469	1500	537006.363	138621.629	2.428	104.041
*213				106.251	1500	537026.262	138624.120	2.245	104.006
*214	0.069	5.00		108.000	1200	537073.549	138557.524	1.425	106.575
*215	0.055	5.00		108.616	1200	537041.236	138561.630	2.308	106.308
*216	0.027	5.00		107.589	1200	537042.933	138587.255	1.500	106.089
*217	0.027	5.00		106.652	1200	537042.212	138610.547	1.500	105.152
*218	0.052	5.00		105.966	1500	537037.782	138626.864	1.981	103.985
*219	0.051	5.00		106.600	1200	537101.446	138599.356	2.146	104.454
*220	0.074	5.00		105.127	1200	537106.639	138628.480	1.500	103.627
*221	0.061	5.00		105.272	1350	537072.492	138634.701	1.862	103.410
*222				105.052	1500	537063.814	138640.658	1.825	103.227
*223	0.049	5.00		104.631	1500	537060.159	138650.384	1.725	102.906
*224				103.132	1500	537059.508	138680.647	1.734	101.398
*225	0.111	5.00		106.380	1200	536938.265	138619.324	1.437	104.943
*226				106.031	1200	536921.086	138618.687	1.462	104.569
*227	0.145	5.00		105.809	1200	536914.083	138623.367	1.936	103.873
*228				103.990	1200	536912.313	138678.208	1.500	102.490
*229	0.182	5.00		103.866	1500	536916.360	138684.525	1.725	102.141
*230	0.157	5.00		103.563	1500	536988.946	138687.288	1.725	101.838
*231	0.140	5.00		102.646	1500	537061.593	138690.053	2.992	99.654
*IR40				100.571		537071.004	138732.501	1.812	98.759
*IR41	0.106	5.00		100.564	1950	536920.779	138750.690	2.831	97.733
*IR42	0.100	5.00		100.162	1950	536981.964	138753.109	2.307	97.855

Nodes

Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
*IR43	0.128	5.00		99.885	1200	537004.034	138752.589	1.986	97.899
*IR44	0.097	5.00		99.900	1950	537042.710	138748.825	1.923	97.977
*IR45	0.052	5.00		100.289	1950	537073.184	138742.332	2.250	98.039
*IR46	0.063	5.00		100.640	1800	537100.728	138736.225	2.052	98.588
*IR52				94.164	2100	536935.678	138908.455	2.189	91.975
*232	0.103	5.00		100.156	1200	537105.147	138756.168	1.474	98.682
*233	0.222	5.00		98.591	1350	537113.687	138798.749	1.663	96.928
*234	0.184	5.00		97.711	1350	537044.356	138812.473	1.675	96.036
*235				96.856	1350	537048.657	138841.782	1.698	95.158
*IR48	0.187	5.00		98.813	1950	536918.097	138800.197	2.445	96.368
*IR49	0.015	5.00		97.504	1950	536917.314	138818.579	2.418	95.086
*IR50	0.133	5.00		96.613	1950	536919.673	138835.557	2.341	94.272
*IR51	0.032	5.00		94.365	1950	536933.500	138902.539	2.377	91.988
*240b	0.065	5.00		94.400	1200	536947.531	138899.869	0.826	93.574
*236	0.154	5.00		97.790	1200	536948.811	138810.460	1.511	96.279
*237	0.121	5.00		97.473	1200	537023.131	138813.121	1.648	95.825
*238	0.083	5.00		97.284	1350	536987.753	138812.921	1.679	95.605
*239	0.105	5.00		96.207	1350	536986.128	138847.327	1.595	94.612
*240	0.073	5.00		94.830	1500	536994.761	138890.878	1.998	92.832
*241				95.829	1800	537055.496	138876.991	3.315	92.514
*242				94.300		537061.354	138898.606	2.700	91.600
*243		5.00		94.300		537041.682	138913.641	2.700	91.600
*245				92.200	1200	536975.712	138978.138	1.029	91.171
*246				92.050	1200	536977.285	138982.924	0.900	91.150
*247	0.102	5.00		97.500	1200	537119.544	138826.121	1.425	96.075
*248				96.650	1200	537126.432	138864.064	1.425	95.225
*249				94.300		537115.178	138896.228	2.700	91.600
*244				94.300	2100	537033.738	138919.007	2.740	91.560
*IR53				94.200	2100	536993.332	138901.233	2.341	91.859
*IR54				95.850	2100	537057.926	138885.957	4.124	91.726
**IR51	0.014	5.00		102.588	1200	537289.487	138701.247	1.464	101.124
**IR52	0.120	5.00		101.790		537316.315	138689.996	1.030	100.760
**IR53	0.029	5.00		101.757	1200	537316.538	138700.025	1.425	100.332
**IR54	0.036	5.00		101.365	1200	537336.196	138700.085	1.135	100.230
**IR55	0.029	5.00		101.588	1200	537322.503	138700.244	1.449	100.139
**301				100.600		537322.423	138717.230	1.000	99.600
**302		5.00		100.600		537340.677	138721.235	1.000	99.600
**303				100.600	1200	537345.258	138721.833	2.131	98.469
**304				99.300		537354.917	138722.527	1.000	98.300
***S278 01	0.087	5.00		124.433	1200	537656.783	138268.547	1.678	122.755
***S279 02	0.003	5.00		123.809	1200	537636.223	138290.038	1.425	122.384
***S278 03		5.00		124.256	1200	537663.984	138310.984	1.678	122.578
***S278 04				123.910	1200	537650.063	138305.811	2.207	121.703
***S278 05				123.644	1200	537637.305	138322.044	2.026	121.618
***IR61	0.042	5.00		122.230	1200	537611.046	138343.916	1.736	120.494
***IR62	0.016	5.00		120.666	1200	537562.418	138354.607	1.425	119.241
***IR63	0.032	5.00		119.386	1200	537532.845	138354.950	1.448	117.938
***IR64	0.016	5.00		118.268	1200	537510.229	138350.900	1.454	116.814
***IR65				117.487	1200	537493.502	138346.965	1.533	115.954
***IR66	0.018	5.00		116.896	1200	537472.950	138353.944	1.600	115.296
***IR67		5.00	1.5	116.620	1200	537455.157	138365.104	2.150	114.470
***IR68	0.020	5.00		116.545	1200	537462.687	138371.287	2.215	114.330
***IR69	0.070	5.00		114.272	1200	537461.974	138446.105	1.606	112.666
***IR70	0.020	5.00		113.598	1200	537467.173	138469.608	1.525	112.073
***IR71	0.062	5.00		112.801	1350	537473.247	138489.251	1.600	111.201
***IR72	0.335	5.00		111.241	1350	537479.596	138527.641	1.600	109.641
***IR73	0.105	5.00		108.091	1500	537493.206	138610.240	1.675	106.416

Nodes

Name	Area (ha)	T of E (mins)	Add Inflow (l/s)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Invert Level (m)
***IR74	0.057	5.00		106.944	1500	537497.908	138642.619	1.777	105.167
***IR75	0.062	5.00		106.127	1500	537492.585	138664.773	1.854	104.273
***IR76	0.044	5.00		105.175	1500	537477.627	138688.230	1.748	103.427
***IR77	0.054	5.00		104.452	1500	537461.048	138698.052	1.725	102.727
***401	0.120	5.00		112.743	1200	537437.568	138479.095	2.350	110.393
***402	0.102	5.00		109.420	1200	537355.921	138505.230	2.270	107.150
***403				110.314	1350	537390.718	138494.092	3.389	106.925
***404	0.024	5.00		109.691	1350	537398.674	138517.987	2.844	106.847
***405	0.069	5.00		108.997	1350	537406.333	138540.513	2.224	106.773
***406	0.126	5.00		110.526	1200	537454.249	138531.484	1.718	108.808
***407				109.019	1200	537418.996	138542.846	1.526	107.493
***408	0.026	5.00		108.651	1350	537411.833	138549.714	1.912	106.739
***409	0.152	5.00		108.348	1350	537416.780	138557.990	2.550	105.798
***410				106.669	1500	537426.252	138614.151	1.650	105.019
***411	0.130	5.00		107.851	1200	537472.036	138612.780	2.351	105.500
***412				106.669	1350	537432.885	138619.091	2.135	104.534
***413	0.083	5.00		107.211	1200	537404.169	138579.850	2.723	104.488
***414	0.068	5.00		106.700	1200	537352.770	138552.947	1.844	104.856
***415	0.104	5.00		104.662	1350	537358.200	138587.588	2.942	101.720
***416				103.161	1350	537367.169	138641.118	1.684	101.477
***417	0.128	5.00		103.369	1500	537375.044	138646.460	2.201	101.168
***418				105.797	1500	537427.027	138637.823	5.507	100.290
***419	0.107	5.00		105.819	1500	537430.830	138640.426	5.781	100.038
***IR78				104.065	1500	537439.458	138693.367	5.212	98.853
***IR79	0.015	5.00		103.686	1800	537440.224	138703.650	5.212	98.474
***IR80	0.123	5.00		103.076	1800	537423.948	138704.877	4.635	98.441
***IR81				101.634	1800	537376.143	138701.013	3.782	97.852
***420				100.750		537374.060	138726.780	2.950	97.800
***421	0.160	5.00		105.029	1200	537488.915	138699.678	1.425	103.604
***422				104.459	1200	537502.301	138709.100	1.425	103.034
***423				104.144	1200	537504.958	138717.183	1.500	102.644
***424				102.200	1200	537504.472	138761.899	1.500	100.700
***425				101.750	1200	537490.368	138761.746	1.500	100.250
***426	0.053	5.00		102.200	1350	537476.957	138757.508	2.158	100.042
***IR82	0.057	5.00		102.066	1350	537433.553	138756.248	2.131	99.935
***IR83	0.083	5.00		102.817	1200	537423.994	138725.648	2.245	100.572
***IR84	0.040	5.00		101.611	1200	537422.414	138764.717	1.425	100.186
***IR85				101.916	1350	537422.862	138753.616	2.329	99.587
***IR86				100.750		537409.380	138753.163	2.950	97.800
***427		5.00		100.650		537373.301	138751.542	2.850	97.800
***428				100.650	2100	537365.023	138753.474	2.887	97.763
***429				98.800		537352.402	138756.420	1.100	97.700

Simulation Settings

Rainfall Methodology	FEH-22	Analysis Speed	Detailed	Starting Level (m)
Rainfall Events	Singular	Skip Steady State	x	Check Discharge Rate(s) x
Summer CV	1.000	Drain Down Time (mins)	240	Check Discharge Volume x
Winter CV	1.000	Additional Storage (m³/ha)	20.0	

Storm Durations

15	60	180	360	600	960	2160	4320	7200	10080
30	120	240	480	720	1440	2880	5760	8640	

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
1	0	0	0	100	45	0	0
30	0	0	0				

Node 144 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Downstream Link	15.001	Sump Available	✓
Replaces Downstream Link	x	Product Number	CTL-SHE-0202-2600-2400-2600
Invert Level (m)	96.802	Min Outlet Diameter (m)	0.225
Design Depth (m)	2.400	Min Node Diameter (mm)	2100
Design Flow (l/s)	26.0		

Node *244 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Downstream Link	*13.001	Sump Available	✓
Replaces Downstream Link	x	Product Number	CTL-SHE-0207-2730-2400-2730
Invert Level (m)	91.560	Min Outlet Diameter (m)	0.225
Design Depth (m)	2.400	Min Node Diameter (mm)	2100
Design Flow (l/s)	27.3		

Node **303 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Downstream Link	**1.005	Sump Available	✓
Replaces Downstream Link	x	Product Number	CTL-SHE-0041-1000-1771-1000
Invert Level (m)	98.469	Min Outlet Diameter (m)	0.075
Design Depth (m)	1.771	Min Node Diameter (mm)	1200
Design Flow (l/s)	1.0		

Node **IR52 Online Orifice Control

Flap Valve	x	Invert Level (m)	100.760	Diameter (m)	0.015
Downstream Link	**S5.000	Design Depth (m)	1.030	Discharge Coefficient	0.600
Replaces Downstream Link	x	Design Flow (l/s)	0.5		

Node ***428 Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Downstream Link	***45.001	Sump Available	✓
Replaces Downstream Link	x	Product Number	CTL-SHE-0151-1520-2700-1520
Invert Level (m)	97.763	Min Outlet Diameter (m)	0.225
Design Depth (m)	2.700	Min Node Diameter (mm)	1800
Design Flow (l/s)	15.2		

Node 143 Pond Storage Structure

Invert Level (m)	96.850	Time to half empty (mins)	Analyse flow through structure	x
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Inlets

124 | 142

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	1648.4	2.400	3122.6

Node *243 Pond Storage Structure

Invert Level (m)	91.600	Time to half empty (mins)	Analyse flow through structure	x
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Inlets

*249 | *242

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	1763.0	2.400	3294.4

Node **IR52 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	100.760
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.95	Time to half empty (mins)	

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	254.4	254.4	0.800	254.4	299.6	0.801	0.0	299.6	1.030	0.0	299.6

Node **302 Pond Storage Structure

Invert Level (m)	99.600	Time to half empty (mins)	0	Analyse flow through structure	x
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Inlets

****301**

Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	258.8	1.000	485.1

Node ***427 Pond Storage Structure

Invert Level (m)	97.800	Time to half empty (mins)		Analyse flow through structure	x
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Inlets

***IR86	***420
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Depth (m)	Area (m²)	Depth (m)	Area (m²)
0.000	755.2	2.950	1924.7

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	101	10	107.568	0.068	13.4	0.1792	0.0000	OK
15 minute summer	102	11	107.088	0.088	13.2	0.1000	0.0000	OK
15 minute summer	103	11	106.881	0.089	13.2	0.1009	0.0000	OK
15 minute summer	104	10	107.670	0.070	7.5	0.1370	0.0000	OK
15 minute summer	105	11	107.519	0.042	7.4	0.0473	0.0000	OK
15 minute summer	106	11	106.827	0.072	24.9	0.1275	0.0000	OK
15 minute summer	107	11	106.569	0.073	24.9	0.0830	0.0000	OK
15 minute summer	108	11	105.156	0.114	34.5	0.3123	0.0000	OK
15 minute summer	109	10	105.053	0.098	16.2	0.2899	0.0000	OK
15 minute summer	110	11	104.948	0.101	15.9	0.1441	0.0000	OK
15 minute summer	111	11	104.863	0.113	77.9	0.4697	0.0000	OK
15 minute summer	112	11	102.941	0.100	77.7	0.1438	0.0000	OK
15 minute summer	IR01	11	100.278	0.099	77.1	0.0000	0.0000	OK
15 minute summer	113	10	105.662	0.062	6.1	0.1118	0.0000	OK
15 minute summer	114	10	105.551	0.044	6.0	0.0500	0.0000	OK
15 minute summer	115	11	105.216	0.041	6.0	0.0461	0.0000	OK
15 minute summer	116	10	104.971	0.065	23.6	0.2021	0.0000	OK
15 minute summer	IR02	11	103.302	0.047	23.2	0.0000	0.0000	OK
15 minute summer	IR03	11	101.320	0.079	42.7	0.2030	0.0000	OK
15 minute summer	IR04	10	100.865	0.055	11.9	0.1260	0.0000	OK
15 minute summer	IR05	11	100.092	0.055	13.1	0.0877	0.0000	OK
15 minute summer	IR06	12	99.672	0.188	61.8	0.4389	0.0000	OK
15 minute summer	IR07	12	99.624	0.243	145.1	0.6694	0.0000	OK
15 minute summer	117	10	107.214	0.060	13.7	0.1491	0.0000	OK
15 minute summer	118	10	105.672	0.096	23.8	0.2374	0.0000	OK
15 minute summer	119	11	105.470	0.075	36.0	0.2067	0.0000	OK
15 minute summer	120	11	103.460	0.086	52.3	0.2804	0.0000	OK
15 minute summer	IR08	11	100.920	0.085	52.3	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	101	1.000	102	13.2	1.339	0.187	0.2289	
15 minute summer	102	1.001	103	13.2	0.763	0.187	0.8873	
15 minute summer	103	1.002	106	13.0	0.880	0.184	0.1366	
15 minute summer	104	2.000	105	7.4	0.969	0.185	0.1604	
15 minute summer	105	2.001	106	7.3	1.474	0.072	0.0846	
15 minute summer	106	1.003	107	24.9	1.894	0.103	0.0722	
15 minute summer	107	1.004	108	24.5	1.870	0.127	0.6067	
15 minute summer	108	1.005	111	34.0	1.245	0.187	0.7142	
15 minute summer	109	3.000	110	15.9	0.695	0.143	0.8028	
15 minute summer	110	3.001	111	15.9	0.726	0.142	0.1524	
15 minute summer	111	1.006	112	77.7	2.713	0.130	1.6072	
15 minute summer	112	1.007	IR01	77.1	2.963	0.109	1.4586	
15 minute summer	IR01	S18.00	IR07	76.4	3.108	0.096	0.2647	
15 minute summer	113	4.000	114	6.0	0.846	0.151	0.1125	
15 minute summer	114	4.001	115	6.0	1.154	0.079	0.0819	
15 minute summer	115	4.002	116	6.0	1.287	0.063	0.0274	
15 minute summer	116	4.003	IR02	23.2	2.093	0.102	0.3984	
15 minute summer	IR02	4.004	IR03	23.3	2.693	0.023	0.1604	
15 minute summer	IR03	4.005	IR06	42.4	1.056	0.038	3.2041	
15 minute summer	IR04	5.000	IR05	11.7	1.175	0.046	0.4815	
15 minute summer	IR05	S16.001	IR06	13.1	1.332	0.044	0.1487	
15 minute summer	IR06	S16.002	IR07	57.7	0.635	0.204	5.4209	
15 minute summer	IR07	S16.003	IR11	145.8	1.476	0.289	1.4257	
15 minute summer	117	6.000	118	13.3	1.602	0.150	0.4122	
15 minute summer	118	6.001	119	23.5	1.257	0.129	0.4080	
15 minute summer	119	6.002	120	35.7	2.060	0.089	0.8777	
15 minute summer	120	6.003	IR08	52.3	2.758	0.116	0.9598	
15 minute summer	IR08	S15.000	IR10	52.5	2.895	0.105	0.1891	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IR09	11	100.570	0.060	6.2	0.0998	0.0000	OK
15 minute summer	IR10	11	100.245	0.136	74.6	0.3816	0.0000	OK
15 minute summer	IR11	12	99.129	0.275	224.8	0.9928	0.0000	OK
15 minute summer	IR12	12	98.989	0.150	235.6	0.1191	0.0000	OK
15 minute summer	121	11	98.152	0.088	13.1	0.2697	0.0000	OK
15 minute summer	122	12	97.319	0.351	269.3	1.8156	0.0000	OK
960 minute summer	123	630	97.247	0.347	47.7	1.2904	0.0000	OK
960 minute summer	124	630	97.247	0.422	45.4	0.0000	0.0000	OK
15 minute summer	125	11	107.446	0.096	17.3	0.3057	0.0000	OK
15 minute summer	126	10	106.006	0.081	10.8	0.1842	0.0000	OK
15 minute summer	127	11	105.901	0.080	10.6	0.0901	0.0000	OK
15 minute summer	128	11	105.750	0.112	39.9	0.2457	0.0000	OK
15 minute summer	129	10	105.495	0.051	6.9	0.0988	0.0000	OK
15 minute summer	130	11	105.032	0.100	61.4	0.3130	0.0000	OK
15 minute summer	131	10	104.621	0.070	10.8	0.1649	0.0000	OK
15 minute summer	132	11	104.248	0.051	10.6	0.0581	0.0000	OK
15 minute summer	133	10	103.912	0.076	27.4	0.2150	0.0000	OK
15 minute summer	134	11	102.271	0.080	27.1	0.0908	0.0000	OK
15 minute summer	135	11	101.765	0.150	36.8	0.4083	0.0000	OK
15 minute summer	136	11	101.651	0.133	113.6	0.3938	0.0000	OK
15 minute summer	137	11	100.453	0.125	112.1	0.2211	0.0000	OK
15 minute summer	IR13	11	99.954	0.141	111.7	0.0000	0.0000	OK
15 minute summer	138	10	105.205	0.091	15.4	0.2799	0.0000	OK
15 minute summer	139	11	105.139	0.082	42.2	0.3224	0.0000	OK
15 minute summer	140	11	102.030	0.081	41.3	0.1166	0.0000	OK
15 minute summer	IR14	11	101.239	0.089	41.4	0.0000	0.0000	OK
15 minute summer	IR15	11	100.982	0.095	50.8	0.2304	0.0000	OK
15 minute summer	IR16	11	100.174	0.131	55.9	0.2473	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IR09	S14.000	IR10	6.0	0.723	0.151	0.2478	
15 minute summer	IR10	S14.001	IR11	74.9	1.917	0.187	1.6794	
15 minute summer	IR11	S14.002	IR12	225.2	1.808	0.177	1.0409	
15 minute summer	IR12	1.011	122	238.1	3.204	0.045	3.8778	
15 minute summer	121	8.000	122	12.8	0.760	0.180	0.4958	
15 minute summer	122	1.012	123	272.4	1.087	0.176	17.1930	
15 minute summer	123	1.013	124	269.6	2.339	0.130	9.1649	
15 minute summer	125	9.000	128	15.4	0.742	0.139	1.6991	
15 minute summer	126	10.000	127	10.6	0.730	0.150	0.3803	
15 minute summer	127	10.001	128	10.5	0.716	0.148	0.3842	
15 minute summer	128	9.001	130	39.5	1.548	0.185	1.5766	
15 minute summer	129	11.000	130	6.7	1.027	0.107	0.1639	
15 minute summer	130	9.002	136	60.0	2.596	0.152	1.5345	
15 minute summer	131	12.000	132	10.6	1.232	0.189	0.2632	
15 minute summer	132	12.001	133	10.6	1.636	0.099	0.0445	
15 minute summer	133	12.002	134	27.1	1.884	0.138	0.7712	
15 minute summer	134	12.003	135	27.2	1.898	0.136	0.1563	
15 minute summer	135	12.004	136	37.1	0.795	0.171	2.2278	
15 minute summer	136	9.003	137	112.1	2.726	0.130	1.4569	
15 minute summer	137	9.004	IR13	111.7	2.411	0.092	0.7734	
15 minute summer	IR13	S13.000	IR17	112.0	2.350	0.107	0.5036	
15 minute summer	138	13.000	139	15.2	0.794	0.120	0.2692	
15 minute summer	139	13.001	140	41.3	2.335	0.105	1.3999	
15 minute summer	140	13.002	IR14	41.4	1.988	0.073	0.5396	
15 minute summer	IR14	S12.000	IR15	41.5	1.782	0.082	0.2512	
15 minute summer	IR15	S12.001	IR16	50.9	1.644	0.101	1.0969	
15 minute summer	IR16	S12.002	IR17	55.4	1.508	0.170	1.1698	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IR17	12	99.588	0.167	172.7	0.5195	0.0000	OK
15 minute summer	IR18	11	97.883	0.176	210.3	0.6119	0.0000	OK
15 minute summer	IR19	11	98.882	0.091	23.8	0.3468	0.0000	OK
960 minute summer	142	630	97.246	0.396	37.0	0.0000	0.0000	OK
960 minute summer	143	630	97.240	0.402	40.2	698.9294	0.0000	SURCHARGED
960 minute summer	144	630	97.235	0.433	23.2	1.4996	0.0000	SURCHARGED
960 minute summer	145	630	96.871	0.116	23.2	0.0000	0.0000	OK
15 minute summer	*201	11	104.505	0.080	19.3	0.2806	0.0000	OK
15 minute summer	*202	11	103.777	0.140	33.9	0.3327	0.0000	OK
15 minute summer	*203	12	103.631	0.151	34.1	0.2667	0.0000	OK
15 minute summer	*204	12	103.605	0.145	44.0	0.3287	0.0000	OK
15 minute summer	*205	12	103.255	0.095	60.7	0.2874	0.0000	OK
15 minute summer	*206	12	100.197	0.099	59.9	0.1411	0.0000	OK
15 minute summer	*IR31	12	99.898	0.090	59.9	0.0000	0.0000	OK
15 minute summer	*IR32	10	101.414	0.078	47.5	0.3637	0.0000	OK
15 minute summer	*IR33	10	100.999	0.115	48.0	0.1722	0.0000	OK
15 minute summer	*IR34	11	100.355	0.094	51.2	0.1710	0.0000	OK
15 minute summer	*IR35	10	99.987	0.107	18.4	0.2217	0.0000	OK
15 minute summer	*IR36	11	99.704	0.159	74.3	0.3517	0.0000	OK
15 minute summer	*IR37	12	99.521	0.160	132.0	0.3202	0.0000	OK
15 minute summer	*IR38	10	99.327	0.107	18.4	0.2221	0.0000	OK
15 minute summer	*IR39	12	98.949	0.214	153.3	0.6429	0.0000	OK
15 minute summer	*207	10	105.362	0.062	9.9	0.1384	0.0000	OK
15 minute summer	*208	10	105.181	0.061	9.8	0.0688	0.0000	OK
15 minute summer	*209	11	104.882	0.060	9.7	0.0674	0.0000	OK
15 minute summer	*210	11	104.783	0.114	22.3	0.1879	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IR17	S12.003	IR18	173.1	2.516	0.097	2.0058	
15 minute summer	IR18	9.007	142	210.0	5.544	0.090	1.0844	
15 minute summer	IR19	S12.004	IR18	23.1	1.295	0.197	1.0196	
960 minute summer	143	15.000	144	23.2	0.330	0.328	0.6185	
960 minute summer	144	15.001	145	23.2	0.871	0.105	0.3027	990.4

15 minute summer	*201	*1.000	*202	18.3	1.072	0.100	1.3118	
15 minute summer	*202	*1.001	*203	34.1	0.724	0.157	3.6475	
15 minute summer	*203	*1.002	*204	32.9	0.665	0.148	0.4703	
15 minute summer	*204	*1.003	*205	43.8	1.301	0.206	2.3550	
15 minute summer	*205	*1.004	*206	59.9	2.513	0.096	1.8711	
15 minute summer	*206	*1.005	*IR31	59.9	2.113	0.055	0.3253	
15 minute summer	*IR31	*S8.000	*IR37	59.7	2.337	0.045	0.2590	
15 minute summer	*IR32	*S6.000	*IR33	47.3	1.901	0.068	0.2452	
15 minute summer	*IR33	*S6.001	*IR34	47.1	1.521	0.137	1.2951	
15 minute summer	*IR34	*S6.002	*IR36	51.4	1.196	0.055	1.7213	
15 minute summer	*IR35	*S7.000	*IR36	18.2	0.832	0.256	0.1855	
15 minute summer	*IR36	*S6.003	*IR37	74.9	1.339	0.133	0.9127	
15 minute summer	*IR37	*S6.004	*IR39	133.3	2.147	0.115	2.2353	
15 minute summer	*IR38	*S9.000	*IR39	18.2	0.830	0.257	0.1878	
15 minute summer	*IR39	*S6.005	*IR46	154.2	1.559	0.153	2.1855	
15 minute summer	*207	*5.000	*208	9.8	0.947	0.088	0.1856	
15 minute summer	*208	*5.001	*209	9.7	0.974	0.087	0.2989	
15 minute summer	*209	*5.002	*210	9.7	0.585	0.088	0.2670	
15 minute summer	*210	*5.003	*211	21.2	0.886	0.300	1.4545	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	*211	11	104.495	0.149	34.9	0.3656	0.0000	OK
15 minute summer	*212	11	104.207	0.166	45.2	0.4261	0.0000	OK
15 minute summer	*213	11	104.155	0.149	44.7	0.2632	0.0000	OK
15 minute summer	*214	11	106.644	0.069	8.2	0.1453	0.0000	OK
15 minute summer	*215	11	106.388	0.080	14.2	0.1280	0.0000	OK
15 minute summer	*216	11	106.147	0.058	17.4	0.0860	0.0000	OK
15 minute summer	*217	11	105.210	0.057	20.5	0.0857	0.0000	OK
15 minute summer	*218	11	104.104	0.119	70.5	0.2726	0.0000	OK
15 minute summer	*219	10	104.495	0.041	6.1	0.0664	0.0000	OK
15 minute summer	*220	11	103.721	0.094	14.8	0.1988	0.0000	OK
15 minute summer	*221	11	103.527	0.117	21.4	0.2443	0.0000	OK
15 minute summer	*222	11	103.357	0.130	90.8	0.2303	0.0000	OK
15 minute summer	*223	11	103.020	0.114	96.1	0.2670	0.0000	OK
15 minute summer	*224	12	101.478	0.081	95.8	0.1425	0.0000	OK
15 minute summer	*225	10	105.011	0.068	13.2	0.1816	0.0000	OK
15 minute summer	*226	10	104.617	0.049	13.1	0.0551	0.0000	OK
15 minute summer	*227	10	103.955	0.083	30.2	0.2173	0.0000	OK
15 minute summer	*228	11	102.594	0.104	29.8	0.1179	0.0000	OK
15 minute summer	*229	11	102.289	0.148	50.5	0.5743	0.0000	OK
15 minute summer	*230	11	101.940	0.102	68.8	0.3641	0.0000	OK
15 minute summer	*231	11	99.827	0.173	177.9	0.4678	0.0000	OK
15 minute summer	*IR40	12	98.935	0.176	176.9	0.0000	0.0000	OK
15 minute summer	*IR41	13	97.940	0.207	376.0	0.7727	0.0000	OK
15 minute summer	*IR42	13	98.209	0.354	363.8	1.3655	0.0000	OK
15 minute summer	*IR43	12	98.295	0.396	359.3	0.9572	0.0000	OK
15 minute summer	*IR44	12	98.381	0.404	353.1	1.6124	0.0000	OK
15 minute summer	*IR45	12	98.449	0.410	344.3	1.4136	0.0000	OK
15 minute summer	*IR46	12	98.789	0.201	160.1	0.6339	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	*211	*5.004	*212	34.1	0.911	0.309	0.9811	
15 minute summer	*212	*5.005	*213	44.7	0.761	0.156	1.1820	
15 minute summer	*213	*5.006	*218	44.9	0.966	0.156	0.5561	
15 minute summer	*214	*6.000	*215	8.0	0.781	0.200	0.3321	
15 minute summer	*215	*6.001	*216	14.3	1.177	0.139	0.3134	
15 minute summer	*216	*6.002	*217	17.4	1.849	0.078	0.2198	
15 minute summer	*217	*6.003	*218	20.6	2.247	0.075	0.1548	
15 minute summer	*218	*5.007	*222	70.1	2.173	0.142	0.9498	
15 minute summer	*219	*7.000	*220	6.0	1.210	0.072	0.1458	
15 minute summer	*220	*7.001	*221	14.5	0.788	0.205	0.6399	
15 minute summer	*221	*7.002	*222	21.5	0.791	0.193	0.2860	
15 minute summer	*222	*5.008	*223	90.5	2.388	0.106	0.3964	
15 minute summer	*223	*5.009	*224	95.8	3.487	0.088	0.8380	
15 minute summer	*224	*5.010	*231	96.1	4.156	0.047	0.2334	
15 minute summer	*225	*8.000	*226	13.1	1.607	0.170	0.1407	
15 minute summer	*226	*8.001	*227	13.0	2.149	0.091	0.0509	
15 minute summer	*227	*8.002	*228	29.8	1.611	0.168	1.0257	
15 minute summer	*228	*8.003	*229	29.8	1.490	0.208	0.1503	
15 minute summer	*229	*8.004	*230	51.0	1.300	0.163	2.8740	
15 minute summer	*230	*8.005	*231	67.0	2.329	0.081	2.0904	
15 minute summer	*231	*5.011	*IR40	176.9	2.617	0.179	2.9426	
15 minute summer	*IR40	*S11.000	*IR45	178.4	2.791	0.158	0.6440	
15 minute summer	*IR41	*1.014	*IR48	376.6	3.631	0.076	5.1592	
15 minute summer	*IR42	*S10.000	*IR41	369.8	1.999	0.278	11.5066	
15 minute summer	*IR43	*S10.001	*IR42	358.0	1.296	0.270	6.0998	
15 minute summer	*IR44	*S10.002	*IR43	347.4	1.153	0.261	11.7088	
15 minute summer	*IR45	*S10.003	*IR44	344.1	1.119	0.259	9.6154	
15 minute summer	*IR46	*S10.004	*IR45	161.1	1.810	0.139	2.5124	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	*IR52	14	92.365	0.390	387.3	1.3514	0.0000	OK
15 minute summer	*232	10	98.735	0.054	12.2	0.1357	0.0000	OK
15 minute summer	*233	10	97.026	0.098	38.3	0.4006	0.0000	OK
15 minute summer	*234	11	96.137	0.101	59.4	0.3663	0.0000	OK
15 minute summer	*235	11	95.262	0.104	59.3	0.1485	0.0000	OK
15 minute summer	*IR48	13	96.535	0.167	387.5	0.7552	0.0000	OK
15 minute summer	*IR49	13	95.279	0.193	388.6	0.5999	0.0000	OK
15 minute summer	*IR50	13	94.458	0.185	396.2	0.7641	0.0000	OK
15 minute summer	*IR51	14	92.423	0.435	396.8	1.4177	0.0000	OK
15 minute summer	*240b	11	93.640	0.066	7.7	0.1775	0.0000	OK
15 minute summer	*236	10	96.353	0.074	18.3	0.2350	0.0000	OK
15 minute summer	*237	11	95.917	0.092	14.4	0.2390	0.0000	OK
15 minute summer	*238	11	95.694	0.088	41.3	0.2134	0.0000	OK
15 minute summer	*239	11	94.711	0.099	53.4	0.2715	0.0000	OK
15 minute summer	*240	12	93.031	0.199	69.4	0.4966	0.0000	OK
15 minute summer	*241	12	92.754	0.240	123.6	0.6119	0.0000	OK
960 minute summer	*242	630	92.065	0.465	98.3	0.0000	0.0000	OK
960 minute summer	*243	630	92.054	0.454	72.0	873.5798	0.0000	SURCHARGED
960 minute summer	*245	645	91.308	0.137	25.5	0.1553	0.0000	OK
960 minute summer	*246	645	91.272	0.122	25.5	0.0000	0.0000	OK
15 minute summer	*247	10	96.139	0.064	12.1	0.1638	0.0000	OK
15 minute summer	*248	11	95.270	0.045	12.0	0.0508	0.0000	OK
960 minute summer	*249	660	92.054	0.454	25.4	0.0000	0.0000	OK
960 minute summer	*244	630	92.048	0.488	25.5	1.6888	0.0000	SURCHARGED
15 minute summer	*IR53	14	92.246	0.387	387.2	1.3416	0.0000	OK
15 minute summer	*IR54	15	92.117	0.391	455.9	1.3535	0.0000	OK
15 minute summer	**IR51	10	101.145	0.021	1.7	0.0282	0.0000	OK
Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	*IR52	*1.019	*IR53	387.2	1.251	0.206	18.3540	
15 minute summer	*232	*12.000	*233	11.9	1.667	0.122	0.3111	
15 minute summer	*233	*12.001	*234	37.7	1.460	0.104	1.8276	
15 minute summer	*234	*12.002	*235	59.3	2.193	0.106	0.8015	
15 minute summer	*235	*12.003	*241	59.5	2.215	0.111	0.9629	
15 minute summer	*IR48	*1.015	*IR49	387.7	3.950	0.049	1.8091	
15 minute summer	*IR49	*1.016	*IR50	388.5	3.687	0.060	1.8062	
15 minute summer	*IR50	*1.017	*IR51	395.0	1.966	0.072	14.9832	
15 minute summer	*IR51	*1.018	*IR52	387.3	1.251	0.287	1.9850	
15 minute summer	*240b	*11.000	*240	7.4	0.775	0.182	0.4567	
15 minute summer	*236	*9.000	*238	17.8	1.346	0.129	0.5181	
15 minute summer	*237	*10.000	*238	14.0	0.781	0.198	0.6345	
15 minute summer	*238	*9.001	*239	41.5	1.938	0.122	0.7377	
15 minute summer	*239	*9.002	*240	53.7	2.369	0.146	1.0063	
15 minute summer	*240	*9.003	*241	67.4	0.892	0.187	4.7186	
15 minute summer	*241	*9.004	*IR54	124.7	1.035	0.192	1.1212	
960 minute summer	*243	*13.000	*244	25.5	0.362	0.357	0.6751	
960 minute summer	*245	*13.002	*246	25.5	0.875	0.133	0.1469	1138.8
15 minute summer	*247	*14.000	*248	12.0	1.626	0.155	0.2861	
15 minute summer	*248	*14.001	*249	11.9	2.126	0.087	0.1906	
960 minute summer	*244	*13.001	*245	25.5	0.892	0.225	2.3709	
15 minute summer	*IR53	*1.020	*IR54	386.1	1.222	0.205	20.9727	
15 minute summer	*IR54	*1.021	*242	455.6	1.512	0.243	3.9517	
15 minute summer	**IR51	**S4.000	**IR53	1.7	0.578	0.019	0.0793	

**Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%**

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
10080 minute summer	**IR52	6480	100.933	0.173	0.6	42.1155	0.0000	OK
15 minute summer	**IR53	10	100.367	0.035	5.1	0.0542	0.0000	OK
15 minute summer	**IR54	10	100.278	0.048	4.3	0.0854	0.0000	OK
15 minute summer	**IR55	11	100.200	0.061	12.6	0.0932	0.0000	OK
600 minute summer	**301	405	99.654	0.054	3.0	0.0000	0.0000	OK
600 minute summer	**302	405	99.652	0.052	5.3	13.9776	0.0000	OK
720 minute summer	**303	465	99.696	1.227	6.8	1.3876	0.0000	SURCHARGED
720 minute summer	**304	480	98.321	0.021	0.8	0.0000	0.0000	OK
15 minute summer	***S278 01	10	122.808	0.053	10.3	0.1158	0.0000	OK
15 minute summer	***S279 02	10	122.394	0.010	0.4	0.0121	0.0000	OK
15 minute summer	***S278 03	1	122.578	0.000	0.0	0.0000	0.0000	OK
15 minute summer	***S278 04	11	121.783	0.080	10.4	0.0907	0.0000	OK
15 minute summer	***S278 05	11	121.668	0.050	10.5	0.0570	0.0000	OK
15 minute summer	***IR61	11	120.562	0.067	15.3	0.1087	0.0000	OK
15 minute summer	***IR62	11	119.301	0.060	17.0	0.0813	0.0000	OK
15 minute summer	***IR63	11	118.003	0.065	20.5	0.1015	0.0000	OK
15 minute summer	***IR64	11	116.885	0.071	22.2	0.0956	0.0000	OK
15 minute summer	***IR65	11	116.025	0.071	22.0	0.0805	0.0000	OK
15 minute summer	***IR66	12	115.359	0.063	23.8	0.0850	0.0000	OK
15 minute summer	***IR67	7	114.500	0.030	1.5	0.0335	0.0000	OK
15 minute summer	***IR68	12	114.412	0.082	27.4	0.1072	0.0000	OK
15 minute summer	***IR69	12	112.760	0.094	34.3	0.1887	0.0000	OK
15 minute summer	***IR70	12	112.159	0.086	36.2	0.1201	0.0000	OK
15 minute summer	***IR71	12	111.286	0.085	42.2	0.1867	0.0000	OK
15 minute summer	***IR72	11	109.747	0.106	78.0	0.5973	0.0000	OK
15 minute summer	***IR73	11	106.526	0.110	87.8	0.3311	0.0000	OK
15 minute summer	***IR74	11	105.280	0.113	93.8	0.2721	0.0000	OK
Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
10080 minute summer	**IR52	**S5.000	**IR53	0.2	0.273	0.004	0.0070	
15 minute summer	**IR53	**S4.001	**IR55	5.0	0.811	0.053	0.0376	
15 minute summer	**IR54	**S3.000	**IR55	4.2	0.572	0.100	0.1019	
15 minute summer	**IR55	**S3.001	**301	12.6	1.474	0.101	0.1449	
600 minute summer	**302	**4.000	**303	8.7	0.725	0.055	0.0976	
720 minute summer	**303	**1.005	**304	0.8	0.359	0.012	0.0138	33.6
15 minute summer	***S278 01	***S278_1.000	***S278 04	10.1	1.420	0.120	0.2691	
15 minute summer	***S279 02	***S278_2.000	***S278 04	0.3	0.539	0.004	0.0133	
15 minute summer	***S278 03	***S278_3.000	***S278 04	0.0	0.000	0.000	0.0016	
15 minute summer	***S278 04	***S278_1.001	***S278 05	10.5	0.930	0.148	0.2362	
15 minute summer	***S278 05	***S278_1.002	***IR61	10.5	1.272	0.111	0.2832	
15 minute summer	***IR61	***S1.000	***IR62	15.2	1.657	0.184	0.4586	
15 minute summer	***IR62	***S1.001	***IR63	16.9	1.892	0.154	0.2641	
15 minute summer	***IR63	***S1.002	***IR64	20.4	2.033	0.176	0.2305	
15 minute summer	***IR64	***S1.003	***IR65	22.0	2.129	0.197	0.1774	
15 minute summer	***IR65	***S1.004	***IR66	21.8	1.872	0.113	0.2539	
15 minute summer	***IR66	***S1.005	***IR68	23.7	1.841	0.097	0.2636	
15 minute summer	***IR67	***4.000	***IR68	1.5	0.498	0.035	0.0293	
15 minute summer	***IR68	***S1.006	***IR69	27.4	1.592	0.165	1.2879	
15 minute summer	***IR69	***S1.007	***IR70	34.3	1.927	0.196	0.4288	
15 minute summer	***IR70	***S1.008	***IR71	36.3	2.252	0.165	0.3318	
15 minute summer	***IR71	***S1.009	***IR72	42.3	2.323	0.106	0.7089	
15 minute summer	***IR72	***S1.010	***IR73	75.9	2.708	0.121	2.3541	
15 minute summer	***IR73	***S1.011	***IR74	87.3	2.624	0.092	1.0899	
15 minute summer	***IR74	***S1.012	***IR75	93.1	2.530	0.097	0.8414	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	***IR75	11	104.399	0.126	100.1	0.3074	0.0000	OK
15 minute summer	***IR76	12	103.552	0.125	104.3	0.2834	0.0000	OK
15 minute summer	***IR77	12	102.858	0.131	109.5	0.3130	0.0000	OK
15 minute summer	***401	10	110.453	0.060	14.3	0.1294	0.0000	OK
15 minute summer	***402	11	107.234	0.084	12.1	0.1704	0.0000	OK
15 minute summer	***403	11	107.053	0.128	25.7	0.1836	0.0000	OK
15 minute summer	***404	11	106.983	0.136	28.5	0.2177	0.0000	OK
15 minute summer	***405	11	106.912	0.139	36.2	0.2844	0.0000	OK
15 minute summer	***406	10	108.869	0.061	15.0	0.1577	0.0000	OK
15 minute summer	***407	10	107.541	0.048	14.7	0.0541	0.0000	OK
15 minute summer	***408	11	106.821	0.082	53.4	0.1400	0.0000	OK
15 minute summer	***409	11	105.938	0.140	70.5	0.3684	0.0000	OK
15 minute summer	***410	11	105.115	0.096	70.4	0.1690	0.0000	OK
15 minute summer	***411	10	105.572	0.071	15.4	0.1599	0.0000	OK
15 minute summer	***412	11	104.675	0.142	85.0	0.2028	0.0000	OK
15 minute summer	***413	10	104.539	0.051	9.9	0.0895	0.0000	OK
15 minute summer	***414	10	104.891	0.035	8.1	0.0660	0.0000	OK
15 minute summer	***415	11	101.854	0.134	30.0	0.2867	0.0000	OK
15 minute summer	***416	11	101.564	0.087	29.2	0.1245	0.0000	OK
15 minute summer	***417	11	101.256	0.088	43.6	0.2588	0.0000	OK
15 minute summer	***418	11	100.470	0.180	127.8	0.3175	0.0000	OK
15 minute summer	***419	11	100.185	0.147	137.9	0.3147	0.0000	OK
15 minute summer	***IR78	12	99.032	0.179	138.0	0.3163	0.0000	OK
15 minute summer	***IR79	12	98.870	0.396	250.7	1.0304	0.0000	OK
15 minute summer	***IR80	12	98.809	0.368	262.3	1.1310	0.0000	OK
960 minute summer	***IR81	645	98.352	0.500	48.7	1.2737	0.0000	OK
960 minute summer	***420	645	98.352	0.552	48.1	0.0000	0.0000	OK
15 minute summer	***421	10	103.673	0.069	19.0	0.2341	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	***IR75	***S1.013	***IR76	99.5	2.525	0.117	1.0991	
15 minute summer	***IR76	***S1.014	***IR77	104.5	2.577	0.113	0.7816	
15 minute summer	***IR77	***S1.015	***IR79	110.4	2.782	0.120	0.8563	
15 minute summer	***401	***5.000	***403	13.9	1.658	0.152	0.4134	
15 minute summer	***402	***6.000	***403	11.8	0.746	0.167	0.5783	
15 minute summer	***403	***5.001	***404	25.8	0.746	0.233	0.8733	
15 minute summer	***404	***5.002	***405	28.4	0.781	0.256	0.8689	
15 minute summer	***405	***5.003	***408	35.9	1.336	0.320	0.2937	
15 minute summer	***406	***7.000	***407	14.7	1.732	0.154	0.3146	
15 minute summer	***407	***7.001	***408	14.6	2.108	0.050	0.0690	
15 minute summer	***408	***5.004	***409	53.3	3.199	0.088	0.1607	
15 minute summer	***409	***5.005	***410	70.4	2.129	0.186	1.9009	
15 minute summer	***410	***5.006	***412	70.0	2.101	0.089	0.2782	
15 minute summer	***411	***8.000	***412	15.0	1.414	0.211	0.4220	
15 minute summer	***412	***5.007	***418	84.5	2.105	0.186	0.7887	
15 minute summer	***413	***9.000	***415	9.6	1.424	0.112	0.3145	
15 minute summer	***414	***10.000	***415	8.0	2.029	0.052	0.1379	
15 minute summer	***415	***9.001	***416	29.2	0.878	0.263	1.8050	
15 minute summer	***416	***9.002	***417	29.1	1.446	0.069	0.1912	
15 minute summer	***417	***9.003	***418	43.2	0.929	0.049	2.5437	
15 minute summer	***418	***5.008	***419	126.4	2.110	0.123	0.2773	
15 minute summer	***419	***5.009	***IR78	138.0	2.263	0.135	3.3069	
15 minute summer	***IR78	***S2.000	***IR79	138.9	1.800	0.135	0.9237	
15 minute summer	***IR79	***S1.016	***IR80	250.7	1.116	0.454	3.6765	
15 minute summer	***IR80	***S1.017	***IR81	258.6	1.356	0.470	9.2470	
15 minute summer	***IR81	***S1.018	***420	266.9	2.763	0.486	2.8941	
15 minute summer	***421	***11.000	***422	18.8	1.778	0.193	0.1734	

Results for 1 year Critical Storm Duration. Lowest mass balance: 99.87%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	***422	10	103.105	0.071	18.8	0.0808	0.0000	OK
15 minute summer	***423	10	102.701	0.057	18.7	0.0646	0.0000	OK
15 minute summer	***424	11	100.762	0.062	18.6	0.0698	0.0000	OK
15 minute summer	***425	11	100.361	0.111	18.7	0.1257	0.0000	OK
15 minute summer	***426	11	100.162	0.120	24.7	0.2312	0.0000	OK
15 minute summer	***IR82	11	100.008	0.073	31.1	0.1441	0.0000	OK
15 minute summer	***IR83	10	100.624	0.052	9.9	0.0973	0.0000	OK
15 minute summer	***IR84	10	100.221	0.035	4.8	0.0593	0.0000	OK
15 minute summer	***IR85	11	99.671	0.084	45.0	0.1207	0.0000	OK
960 minute summer	***IR86	660	98.347	0.547	14.0	0.0000	0.0000	OK
960 minute summer	***427	660	98.344	0.544	33.4	473.3213	0.0000	SURCHARGED
960 minute summer	***428	660	98.343	0.580	13.6	2.0074	0.0000	SURCHARGED
960 minute summer	***429	660	97.784	0.084	13.6	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	***422	***11.001	***423	18.7	1.834	0.186	0.0867	
15 minute summer	***423	***11.002	***424	18.6	1.900	0.080	0.4403	
15 minute summer	***424	***11.003	***425	18.7	1.128	0.094	0.2407	
15 minute summer	***425	***11.004	***426	18.7	0.827	0.264	0.3190	
15 minute summer	***426	***11.005	***IR82	24.6	0.988	0.154	1.1009	
15 minute summer	***IR82	***11.006	***IR85	30.8	1.665	0.054	0.2051	
15 minute summer	***IR83	***12.000	***IR85	9.7	1.424	0.113	0.1910	
15 minute summer	***IR84	***13.000	***IR85	4.7	1.234	0.049	0.0426	
15 minute summer	***IR85	***11.007	***IR86	44.9	2.250	0.073	0.2692	
960 minute summer	***427	***45.000	***428	13.6	0.203	0.187	0.5986	
960 minute summer	***428	***45.001	***429	13.6	0.823	0.177	0.2149	699.0

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	101	10	107.659	0.159	54.2	0.4188	0.0000	OK
15 minute summer	102	10	107.201	0.201	53.5	0.2269	0.0000	OK
15 minute summer	103	11	106.998	0.206	53.4	0.2333	0.0000	OK
15 minute summer	104	10	107.751	0.151	30.2	0.2969	0.0000	OK
15 minute summer	105	10	107.563	0.086	29.9	0.0975	0.0000	OK
15 minute summer	106	11	106.928	0.173	101.5	0.3066	0.0000	OK
15 minute summer	107	11	106.650	0.154	101.6	0.1738	0.0000	OK
15 minute summer	108	11	105.315	0.273	142.2	0.7455	0.0000	OK
15 minute summer	109	10	105.172	0.217	65.2	0.6443	0.0000	OK
15 minute summer	110	11	105.062	0.215	64.1	0.3082	0.0000	OK
15 minute summer	111	11	105.000	0.250	319.4	1.0402	0.0000	OK
15 minute summer	112	11	103.054	0.214	320.1	0.3068	0.0000	OK
15 minute summer	IR01	11	100.398	0.219	321.5	0.0000	0.0000	OK
15 minute summer	113	10	105.732	0.132	24.5	0.2382	0.0000	OK
15 minute summer	114	10	105.600	0.093	24.3	0.1048	0.0000	OK
15 minute summer	115	10	105.263	0.088	24.1	0.0994	0.0000	OK
15 minute summer	116	10	105.044	0.138	95.8	0.4280	0.0000	OK
15 minute summer	IR02	10	103.349	0.094	94.9	0.0000	0.0000	OK
15 minute summer	IR03	10	101.397	0.156	174.2	0.4038	0.0000	OK
15 minute summer	IR04	10	100.922	0.112	48.0	0.2570	0.0000	OK
15 minute summer	IR05	12	100.144	0.107	53.0	0.1694	0.0000	OK
15 minute summer	IR06	11	100.168	0.684	252.6	1.5981	0.0000	SURCHARGED
15 minute summer	IR07	11	100.057	0.675	593.8	1.8617	0.0000	SURCHARGED
15 minute summer	117	10	107.285	0.131	55.2	0.3289	0.0000	OK
15 minute summer	118	10	105.784	0.208	96.4	0.5160	0.0000	OK
15 minute summer	119	10	105.551	0.156	146.1	0.4306	0.0000	OK
15 minute summer	120	10	103.558	0.184	213.5	0.5981	0.0000	OK
15 minute summer	IR08	10	101.011	0.176	211.4	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	101	1.000	102	53.5	1.875	0.759	0.6634	
15 minute summer	102	1.001	103	53.4	1.050	0.755	2.5905	
15 minute summer	103	1.002	106	53.8	1.199	0.756	0.4201	
15 minute summer	104	2.000	105	29.9	1.414	0.749	0.4386	
15 minute summer	105	2.001	106	29.8	2.083	0.293	0.2570	
15 minute summer	106	1.003	107	101.6	2.592	0.419	0.2155	
15 minute summer	107	1.004	108	101.8	2.402	0.529	1.9824	
15 minute summer	108	1.005	111	142.3	1.754	0.781	2.1145	
15 minute summer	109	3.000	110	64.1	0.979	0.579	2.2813	
15 minute summer	110	3.001	111	64.1	1.073	0.572	0.4150	
15 minute summer	111	1.006	112	320.1	3.885	0.535	4.6169	
15 minute summer	112	1.007	IR01	321.5	4.327	0.455	4.2306	
15 minute summer	IR01	S18.00	IR07	315.6	3.193	0.396	1.2621	
15 minute summer	113	4.000	114	24.3	1.229	0.608	0.3104	
15 minute summer	114	4.001	115	24.1	1.618	0.318	0.2352	
15 minute summer	115	4.002	116	24.0	1.827	0.252	0.0769	
15 minute summer	116	4.003	IR02	94.9	3.069	0.416	1.1087	
15 minute summer	IR02	4.004	IR03	94.6	4.035	0.092	0.4345	
15 minute summer	IR03	4.005	IR06	172.6	1.340	0.155	11.3952	
15 minute summer	IR04	5.000	IR05	47.2	1.769	0.186	1.2888	
15 minute summer	IR05	S16.001	IR06	53.8	1.684	0.182	1.0314	
15 minute summer	IR06	S16.002	IR07	241.5	0.857	0.853	16.7666	
15 minute summer	IR07	S16.003	IR11	591.1	2.119	1.172	3.8422	
15 minute summer	117	6.000	118	54.2	2.306	0.612	1.1672	
15 minute summer	118	6.001	119	95.7	1.814	0.524	1.1499	
15 minute summer	119	6.002	120	144.9	2.992	0.361	2.4548	
15 minute summer	120	6.003	IR08	211.4	4.046	0.470	2.6499	
15 minute summer	IR08	S15.000	IR10	211.8	3.349	0.422	0.6617	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IR09	10	100.642	0.132	24.9	0.2206	0.0000	OK
15 minute summer	IR10	11	100.429	0.320	302.7	0.8984	0.0000	OK
15 minute summer	IR11	11	99.442	0.588	931.7	2.1268	0.0000	OK
15 minute summer	IR12	11	99.133	0.294	1077.7	0.2334	0.0000	OK
15 minute summer	121	10	98.264	0.200	52.8	0.6136	0.0000	OK
600 minute winter	122	585	97.868	0.900	111.2	4.6581	0.0000	OK
600 minute winter	123	585	97.868	0.968	105.8	3.5965	0.0000	OK
600 minute winter	124	585	97.868	1.043	98.9	0.0000	0.0000	OK
15 minute summer	125	11	107.565	0.215	70.0	0.6894	0.0000	OK
15 minute summer	126	10	106.106	0.181	43.6	0.4138	0.0000	OK
15 minute summer	127	11	106.001	0.180	43.0	0.2031	0.0000	OK
15 minute summer	128	11	105.900	0.262	166.5	0.5750	0.0000	OK
15 minute summer	129	10	105.553	0.109	27.8	0.2120	0.0000	OK
15 minute summer	130	11	105.160	0.228	254.9	0.7136	0.0000	OK
15 minute summer	131	10	104.710	0.159	43.6	0.3735	0.0000	OK
15 minute summer	132	10	104.313	0.116	43.1	0.1314	0.0000	OK
15 minute summer	133	10	103.999	0.162	110.8	0.4618	0.0000	OK
15 minute summer	134	11	102.378	0.187	110.1	0.2115	0.0000	OK
15 minute summer	135	11	101.948	0.333	149.4	0.9071	0.0000	OK
15 minute summer	136	11	101.825	0.307	470.2	0.9110	0.0000	OK
15 minute summer	137	11	100.613	0.285	469.7	0.5030	0.0000	OK
15 minute summer	IR13	11	100.139	0.326	469.5	0.0000	0.0000	OK
15 minute summer	138	10	105.312	0.198	62.3	0.6100	0.0000	OK
15 minute summer	139	10	105.232	0.175	170.5	0.6853	0.0000	OK
15 minute summer	140	10	102.118	0.169	167.3	0.2424	0.0000	OK
15 minute summer	IR14	11	101.344	0.194	167.1	0.0000	0.0000	OK
15 minute summer	IR15	10	101.091	0.204	205.4	0.4934	0.0000	OK
15 minute summer	IR16	11	100.348	0.305	227.0	0.5774	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IR09	S14.000	IR10	24.3	1.039	0.610	0.6989	
15 minute summer	IR10	S14.001	IR11	304.4	2.676	0.762	4.8877	
15 minute summer	IR11	S14.002	IR12	1026.4	2.983	0.807	2.8380	
15 minute summer	IR12	1.011	122	968.0	3.405	0.182	15.9136	
15 minute summer	121	8.000	122	51.5	1.115	0.727	1.3688	
15 minute summer	122	1.012	123	1112.6	1.695	0.717	46.4789	
15 minute summer	123	1.013	124	1091.7	3.399	0.527	30.4209	
15 minute summer	125	9.000	128	66.4	1.105	0.601	4.9403	
15 minute summer	126	10.000	127	43.0	0.978	0.608	1.1181	
15 minute summer	127	10.001	128	42.8	0.984	0.604	1.1860	
15 minute summer	128	9.001	130	166.6	2.186	0.778	4.7002	
15 minute summer	129	11.000	130	27.4	1.489	0.437	0.4585	
15 minute summer	130	9.002	136	254.2	3.754	0.643	4.4915	
15 minute summer	131	12.000	132	43.1	1.692	0.766	0.7682	
15 minute summer	132	12.001	133	42.8	2.289	0.402	0.1286	
15 minute summer	133	12.002	134	110.1	2.591	0.563	2.2710	
15 minute summer	134	12.003	135	109.6	2.625	0.548	0.4548	
15 minute summer	135	12.004	136	149.7	1.089	0.689	6.5633	
15 minute summer	136	9.003	137	469.7	3.866	0.544	4.2987	
15 minute summer	137	9.004	IR13	469.5	3.257	0.386	2.3971	
15 minute summer	IR13	S13.000	IR17	468.9	3.319	0.449	1.4923	
15 minute summer	138	13.000	139	61.6	1.128	0.486	0.7694	
15 minute summer	139	13.001	140	167.3	3.413	0.426	3.8909	
15 minute summer	140	13.002	IR14	167.1	2.796	0.294	1.5518	
15 minute summer	IR14	S12.000	IR15	167.9	2.483	0.332	0.7289	
15 minute summer	IR15	S12.001	IR16	206.9	2.245	0.412	3.2277	
15 minute summer	IR16	S12.002	IR17	228.3	2.128	0.702	3.4152	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IR17	11	99.805	0.384	722.8	1.1967	0.0000	OK
15 minute summer	IR18	11	98.060	0.353	881.9	1.2275	0.0000	OK
15 minute summer	IR19	10	99.002	0.211	95.8	0.8027	0.0000	OK
600 minute winter	142	585	97.867	1.017	84.7	0.0000	0.0000	OK
600 minute winter	143	585	97.859	1.021	76.8	1989.5870	0.0000	SURCHARGED
600 minute winter	144	585	97.853	1.051	26.2	3.6396	0.0000	SURCHARGED
120 minute summer	145	202	96.878	0.123	26.0	0.0000	0.0000	OK
15 minute summer	*201	11	104.596	0.171	77.7	0.5962	0.0000	OK
15 minute summer	*202	11	103.951	0.315	139.4	0.7469	0.0000	OK
15 minute summer	*203	11	103.829	0.349	138.7	0.6164	0.0000	OK
15 minute summer	*204	11	103.791	0.331	188.3	0.7530	0.0000	OK
15 minute summer	*205	11	103.369	0.209	267.4	0.6345	0.0000	OK
15 minute summer	*206	11	100.315	0.217	261.4	0.3100	0.0000	OK
15 minute summer	*IR31	11	100.002	0.195	262.0	0.0000	0.0000	OK
15 minute summer	*IR32	10	101.504	0.168	191.7	0.7781	0.0000	OK
15 minute summer	*IR33	10	101.140	0.257	194.0	0.3838	0.0000	OK
15 minute summer	*IR34	10	100.453	0.192	208.3	0.3493	0.0000	OK
15 minute summer	*IR35	10	100.125	0.245	74.3	0.5063	0.0000	OK
15 minute summer	*IR36	11	99.899	0.354	302.9	0.7840	0.0000	OK
15 minute summer	*IR37	11	99.745	0.384	570.9	0.7657	0.0000	OK
15 minute summer	*IR38	10	99.465	0.245	74.3	0.5072	0.0000	OK
15 minute summer	*IR39	12	99.338	0.603	663.1	1.8124	0.0000	OK
15 minute summer	*207	10	105.433	0.132	39.8	0.2965	0.0000	OK
15 minute summer	*208	10	105.247	0.127	39.5	0.1433	0.0000	OK
15 minute summer	*209	12	105.103	0.281	39.4	0.3176	0.0000	OK
15 minute summer	*210	11	105.077	0.409	83.1	0.6713	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IR17	S12.003	IR18	721.4	3.539	0.406	5.9427	
15 minute summer	IR18	9.007	142	882.7	6.927	0.380	4.0575	
15 minute summer	IR19	S12.004	IR18	93.6	1.824	0.799	2.9294	
60 minute summer	143	15.000	144	26.6	0.377	0.375	0.6185	
120 minute summer	144	15.001	145	26.0	0.898	0.117	0.3280	486.1

15 minute summer	*201	*1.000	*202	75.8	1.583	0.415	3.6741	
15 minute summer	*202	*1.001	*203	138.7	0.982	0.638	11.0363	
15 minute summer	*203	*1.002	*204	136.5	0.945	0.616	1.3981	
15 minute summer	*204	*1.003	*205	186.3	1.896	0.878	6.8137	
15 minute summer	*205	*1.004	*206	261.4	3.754	0.418	5.4724	
15 minute summer	*206	*1.005	*IR31	262.0	3.073	0.239	0.9796	
15 minute summer	*IR31	*S8.000	*IR37	262.9	2.815	0.199	1.1423	
15 minute summer	*IR32	*S6.000	*IR33	191.1	2.603	0.273	0.7161	
15 minute summer	*IR33	*S6.001	*IR34	191.5	2.172	0.556	3.6920	
15 minute summer	*IR34	*S6.002	*IR36	207.6	1.670	0.223	4.9086	
15 minute summer	*IR35	*S7.000	*IR36	73.7	1.280	1.037	0.4864	
15 minute summer	*IR36	*S6.003	*IR37	301.9	1.894	0.538	2.6026	
15 minute summer	*IR37	*S6.004	*IR39	568.7	2.423	0.490	9.0672	
15 minute summer	*IR38	*S9.000	*IR39	73.7	1.279	1.042	0.4920	
15 minute summer	*IR39	*S6.005	*IR46	646.6	1.874	0.641	8.5838	
15 minute summer	*207	*5.000	*208	39.5	1.377	0.355	0.5235	
15 minute summer	*208	*5.001	*209	39.4	1.380	0.355	1.4158	
15 minute summer	*209	*5.002	*210	42.7	0.723	0.384	1.0728	
15 minute summer	*210	*5.003	*211	83.1	1.205	1.174	4.2444	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	*211	11	104.718	0.372	136.9	0.9123	0.0000	OK
15 minute summer	*212	11	104.404	0.363	179.3	0.9312	0.0000	OK
15 minute summer	*213	11	104.335	0.329	178.9	0.5811	0.0000	OK
15 minute summer	*214	10	106.736	0.161	33.1	0.3380	0.0000	OK
15 minute summer	*215	10	106.481	0.173	58.4	0.2783	0.0000	OK
15 minute summer	*216	11	106.211	0.122	70.7	0.1813	0.0000	OK
15 minute summer	*217	10	105.274	0.122	83.0	0.1822	0.0000	OK
15 minute summer	*218	11	104.259	0.274	285.9	0.6276	0.0000	OK
15 minute summer	*219	10	104.537	0.083	24.5	0.1331	0.0000	OK
15 minute summer	*220	11	103.845	0.217	59.8	0.4606	0.0000	OK
15 minute summer	*221	11	103.668	0.258	86.5	0.5382	0.0000	OK
15 minute summer	*222	11	103.538	0.311	373.4	0.5487	0.0000	OK
15 minute summer	*223	11	103.159	0.253	396.0	0.5908	0.0000	OK
15 minute summer	*224	11	101.566	0.168	396.5	0.2973	0.0000	OK
15 minute summer	*225	10	105.098	0.155	53.2	0.4145	0.0000	OK
15 minute summer	*226	10	104.675	0.106	52.8	0.1201	0.0000	OK
15 minute summer	*227	10	104.053	0.180	122.1	0.4736	0.0000	OK
15 minute summer	*228	11	102.754	0.263	121.1	0.2980	0.0000	OK
15 minute summer	*229	10	102.458	0.317	206.1	1.2282	0.0000	OK
15 minute summer	*230	11	102.044	0.206	278.3	0.7387	0.0000	OK
15 minute summer	*231	11	100.063	0.409	740.1	1.1043	0.0000	OK
15 minute summer	*IR40	11	99.273	0.513	741.7	0.0000	0.0000	OK
15 minute summer	*IR41	12	98.191	0.458	1595.7	1.7112	0.0000	OK
15 minute summer	*IR42	12	98.622	0.767	1547.9	2.9561	0.0000	OK
15 minute summer	*IR43	12	98.819	0.920	1503.1	2.2268	0.0000	OK
15 minute summer	*IR44	12	98.986	1.009	1448.4	4.0315	0.0000	OK
15 minute summer	*IR45	12	99.113	1.074	1408.0	3.7052	0.0000	SURCHARGED
15 minute summer	*IR46	12	99.224	0.636	675.4	2.0076	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	*211	*5.004	*212	134.9	1.344	1.221	2.5355	
15 minute summer	*212	*5.005	*213	178.9	1.066	0.626	3.3720	
15 minute summer	*213	*5.006	*218	178.7	1.320	0.621	1.6774	
15 minute summer	*214	*6.000	*215	32.3	1.103	0.812	0.9537	
15 minute summer	*215	*6.001	*216	57.9	1.691	0.565	0.8824	
15 minute summer	*216	*6.002	*217	70.6	2.649	0.316	0.6243	
15 minute summer	*217	*6.003	*218	83.3	3.162	0.304	0.4565	
15 minute summer	*218	*5.007	*222	286.5	3.053	0.581	2.7637	
15 minute summer	*219	*7.000	*220	24.3	1.486	0.292	0.5833	
15 minute summer	*220	*7.001	*221	58.6	1.156	0.828	1.7576	
15 minute summer	*221	*7.002	*222	86.9	1.184	0.780	0.7716	
15 minute summer	*222	*5.008	*223	373.6	3.167	0.437	1.2253	
15 minute summer	*223	*5.009	*224	396.5	4.901	0.365	2.4597	
15 minute summer	*224	*5.010	*231	396.7	4.283	0.196	0.9840	
15 minute summer	*225	*8.000	*226	52.8	2.210	0.686	0.4089	
15 minute summer	*226	*8.001	*227	52.6	2.904	0.370	0.1542	
15 minute summer	*227	*8.002	*228	121.1	2.184	0.684	3.0020	
15 minute summer	*228	*8.003	*229	120.2	2.026	0.840	0.4410	
15 minute summer	*229	*8.004	*230	206.5	1.927	0.661	7.7850	
15 minute summer	*230	*8.005	*231	279.4	2.544	0.338	8.1127	
15 minute summer	*231	*5.011	*IR40	741.7	3.331	0.750	10.0226	
15 minute summer	*IR40	*S11.000	*IR45	739.0	3.429	0.654	2.7105	
15 minute summer	*IR41	*1.014	*IR48	1600.4	4.873	0.323	16.3491	
15 minute summer	*IR42	*S10.000	*IR41	1555.8	2.977	1.171	31.7595	
15 minute summer	*IR43	*S10.001	*IR42	1510.2	2.032	1.139	16.3085	
15 minute summer	*IR44	*S10.002	*IR43	1454.9	1.753	1.093	32.1265	
15 minute summer	*IR45	*S10.003	*IR44	1411.9	1.639	1.063	26.7084	
15 minute summer	*IR46	*S10.004	*IR45	677.3	1.981	0.583	11.8205	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	*IR52	13	92.997	1.022	1721.7	3.5410	0.0000	OK
15 minute summer	*232	10	98.798	0.116	49.4	0.2925	0.0000	OK
15 minute summer	*233	10	97.136	0.208	155.1	0.8513	0.0000	OK
15 minute summer	*234	10	96.258	0.222	241.6	0.8050	0.0000	OK
15 minute summer	*235	11	95.385	0.227	239.0	0.3254	0.0000	OK
15 minute summer	*IR48	12	96.764	0.396	1670.8	1.7894	0.0000	OK
15 minute summer	*IR49	12	95.556	0.470	1677.8	1.4625	0.0000	OK
15 minute summer	*IR50	12	94.667	0.395	1727.7	1.6277	0.0000	OK
15 minute summer	*IR51	13	93.113	1.125	1752.4	3.6614	0.0000	SURCHARGED
15 minute summer	*240b	11	93.723	0.149	31.2	0.4033	0.0000	OK
15 minute summer	*236	10	96.442	0.162	73.9	0.5149	0.0000	OK
15 minute summer	*237	10	96.038	0.213	58.0	0.5529	0.0000	OK
15 minute summer	*238	10	95.799	0.194	168.7	0.4691	0.0000	OK
15 minute summer	*239	11	94.833	0.220	218.1	0.6055	0.0000	OK
15 minute summer	*240	11	93.263	0.431	281.3	1.0770	0.0000	OK
15 minute summer	*241	11	93.022	0.508	522.1	1.2936	0.0000	OK
720 minute winter	*242	690	92.768	1.168	183.7	0.0000	0.0000	OK
720 minute winter	*243	705	92.755	1.155	129.2	2472.1180	0.0000	SURCHARGED
60 minute summer	*245	131	91.314	0.143	27.3	0.1612	0.0000	OK
60 minute summer	*246	130	91.276	0.126	27.3	0.0000	0.0000	OK
15 minute summer	*247	10	96.217	0.142	48.9	0.3639	0.0000	OK
15 minute summer	*248	10	95.318	0.093	48.4	0.1053	0.0000	OK
720 minute winter	*249	720	92.754	1.154	52.7	0.0000	0.0000	OK
720 minute winter	*244	705	92.748	1.188	27.5	4.1157	0.0000	SURCHARGED
15 minute summer	*IR53	13	92.841	0.982	1689.9	3.4018	0.0000	OK
720 minute winter	*IR54	690	92.768	1.042	187.4	3.6102	0.0000	OK

15 minute summer **IR51 10 101.165 0.041 6.7 0.0547 0.0000 OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	*IR52	*1.019	*IR53	1689.9	1.706	0.898	58.4104	
15 minute summer	*232	*12.000	*233	48.7	2.425	0.497	0.8718	
15 minute summer	*233	*12.001	*234	153.5	2.063	0.422	5.2744	
15 minute summer	*234	*12.002	*235	239.0	3.037	0.428	2.3310	
15 minute summer	*235	*12.003	*241	240.9	3.173	0.450	2.7233	
15 minute summer	*IR48	*1.015	*IR49	1672.2	4.981	0.212	6.1815	
15 minute summer	*IR49	*1.016	*IR50	1677.6	5.016	0.257	5.7461	
15 minute summer	*IR50	*1.017	*IR51	1740.3	2.664	0.319	39.6365	
15 minute summer	*IR51	*1.018	*IR52	1721.7	1.996	1.276	5.4186	
15 minute summer	*240b	*11.000	*240	30.3	1.109	0.751	1.3144	
15 minute summer	*236	*9.000	*238	72.7	1.940	0.527	1.4648	
15 minute summer	*237	*10.000	*238	56.7	1.147	0.801	1.7480	
15 minute summer	*238	*9.001	*239	167.8	2.696	0.492	2.1432	
15 minute summer	*239	*9.002	*240	217.6	3.378	0.594	2.8602	
15 minute summer	*240	*9.003	*241	281.2	1.355	0.782	12.9669	
15 minute summer	*241	*9.004	*IR54	521.8	1.580	0.804	3.0680	
60 minute summer	*243	*13.000	*244	28.6	0.439	0.400	0.6751	
60 minute summer	*245	*13.002	*246	27.3	0.892	0.142	0.1539	439.7
15 minute summer	*247	*14.000	*248	48.4	2.309	0.625	0.8075	
15 minute summer	*248	*14.001	*249	47.9	3.135	0.349	0.5210	
60 minute summer	*244	*13.001	*245	27.3	0.908	0.241	2.4886	
15 minute summer	*IR53	*1.020	*IR54	1717.1	1.817	0.910	63.1248	
15 minute summer	*IR54	*1.021	*242	2155.7	2.498	1.149	11.2967	
15 minute summer	**IR51	**S4.000	**IR53	6.6	0.778	0.074	0.2363	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
8640 minute summer	**IR52	5700	101.110	0.350	1.2	85.4065	0.0000	SURCHARGED
15 minute summer	**IR53	10	100.411	0.079	20.6	0.1218	0.0000	OK
15 minute summer	**IR54	10	100.337	0.107	17.3	0.1891	0.0000	OK
15 minute summer	**IR55	10	100.274	0.135	51.4	0.2069	0.0000	OK
480 minute winter	**301	464	99.778	0.178	5.8	0.0000	0.0000	OK
480 minute winter	**302	472	99.776	0.176	7.7	49.2984	0.0000	OK
480 minute winter	**303	472	99.776	1.307	6.8	1.4779	0.0000	SURCHARGED
480 minute winter	**304	472	98.321	0.021	0.9	0.0000	0.0000	OK
15 minute summer	***S278 01	10	122.870	0.115	41.7	0.2499	0.0000	OK
15 minute summer	***S279 02	11	122.404	0.020	1.4	0.0232	0.0000	OK
15 minute summer	***S278 03	1	122.578	0.000	0.0	0.0000	0.0000	OK
15 minute summer	***S278 04	10	121.869	0.166	42.5	0.1876	0.0000	OK
15 minute summer	***S278 05	11	121.723	0.105	42.3	0.1188	0.0000	OK
15 minute summer	***IR61	11	120.647	0.153	61.7	0.2468	0.0000	OK
15 minute summer	***IR62	11	119.375	0.134	69.3	0.1811	0.0000	OK
15 minute summer	***IR63	11	118.087	0.148	83.9	0.2336	0.0000	OK
15 minute summer	***IR64	11	116.990	0.176	91.3	0.2375	0.0000	OK
15 minute summer	***IR65	11	116.112	0.158	91.1	0.1785	0.0000	OK
15 minute summer	***IR66	11	115.434	0.138	99.2	0.1865	0.0000	OK
15 minute summer	***IR67	11	114.503	0.033	1.5	0.0377	0.0000	OK
15 minute summer	***IR68	11	114.504	0.174	109.1	0.2286	0.0000	OK
15 minute summer	***IR69	11	112.891	0.225	140.0	0.4515	0.0000	OK
15 minute summer	***IR70	11	112.274	0.201	147.0	0.2802	0.0000	OK
15 minute summer	***IR71	11	111.385	0.184	174.0	0.4066	0.0000	OK
15 minute summer	***IR72	11	109.877	0.236	325.6	1.3253	0.0000	OK
15 minute summer	***IR73	11	106.659	0.243	371.3	0.7353	0.0000	OK
15 minute summer	***IR74	11	105.428	0.261	396.9	0.6280	0.0000	OK
Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
8640 minute summer	**IR52	**S5.000	**IR53	0.3	0.306	0.006	0.0089	
15 minute summer	**IR53	**S4.001	**IR55	20.4	1.095	0.217	0.1115	
15 minute summer	**IR54	**S3.000	**IR55	17.1	0.786	0.405	0.2981	
15 minute summer	**IR55	**S3.001	**301	50.9	2.111	0.409	0.4103	
30 minute summer	**302	**4.000	**303	10.4	1.216	0.066	0.1294	
480 minute winter	**303	**1.005	**304	0.9	0.362	0.012	0.0141	31.8
15 minute summer	***S278 01	***S278_1.000	***S278 04	41.1	2.063	0.490	0.7544	
15 minute summer	***S279 02	***S278_2.000	***S278 04	1.4	0.546	0.016	0.1751	
15 minute summer	***S278 03	***S278_3.000	***S278 04	0.0	0.000	0.000	0.1114	
15 minute summer	***S278 04	***S278_1.001	***S278 05	42.3	1.372	0.596	0.6391	
15 minute summer	***S278 05	***S278_1.002	***IR61	42.5	1.808	0.449	0.8009	
15 minute summer	***IR61	***S1.000	***IR62	62.0	2.328	0.749	1.3256	
15 minute summer	***IR62	***S1.001	***IR63	69.3	2.648	0.632	0.7739	
15 minute summer	***IR63	***S1.002	***IR64	84.0	2.741	0.727	0.7017	
15 minute summer	***IR64	***S1.003	***IR65	91.1	2.928	0.815	0.5333	
15 minute summer	***IR65	***S1.004	***IR66	91.0	2.635	0.469	0.7493	
15 minute summer	***IR66	***S1.005	***IR68	99.0	2.678	0.405	0.7447	
15 minute summer	***IR67	***4.000	***IR68	1.9	0.498	0.045	0.0999	
15 minute summer	***IR68	***S1.006	***IR69	108.0	2.177	0.650	3.7115	
15 minute summer	***IR69	***S1.007	***IR70	137.9	2.582	0.789	1.2879	
15 minute summer	***IR70	***S1.008	***IR71	145.7	3.130	0.663	0.9594	
15 minute summer	***IR71	***S1.009	***IR72	172.2	3.356	0.432	2.0028	
15 minute summer	***IR72	***S1.010	***IR73	323.3	3.963	0.514	6.8294	
15 minute summer	***IR73	***S1.011	***IR74	370.8	3.620	0.390	3.3518	
15 minute summer	***IR74	***S1.012	***IR75	395.9	3.435	0.411	2.6270	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	***IR75	11	104.566	0.293	424.4	0.7127	0.0000	OK
15 minute summer	***IR76	11	103.725	0.298	443.5	0.6768	0.0000	OK
15 minute summer	***IR77	11	103.039	0.312	467.2	0.7469	0.0000	OK
15 minute summer	***401	10	110.526	0.133	57.5	0.2852	0.0000	OK
15 minute summer	***402	11	107.338	0.188	48.9	0.3822	0.0000	OK
15 minute summer	***403	11	107.266	0.341	104.6	0.4882	0.0000	OK
15 minute summer	***404	11	107.186	0.339	114.2	0.5431	0.0000	OK
15 minute summer	***405	11	107.074	0.301	145.9	0.6176	0.0000	OK
15 minute summer	***406	10	108.943	0.135	60.4	0.3499	0.0000	OK
15 minute summer	***407	10	107.594	0.101	59.6	0.1143	0.0000	OK
15 minute summer	***408	11	106.916	0.177	216.3	0.3018	0.0000	OK
15 minute summer	***409	11	106.114	0.317	285.9	0.8302	0.0000	OK
15 minute summer	***410	11	105.262	0.243	287.1	0.4300	0.0000	OK
15 minute summer	***411	10	105.670	0.170	62.3	0.3800	0.0000	OK
15 minute summer	***412	11	104.886	0.353	348.0	0.5050	0.0000	OK
15 minute summer	***413	10	104.598	0.110	39.8	0.1912	0.0000	OK
15 minute summer	***414	10	104.926	0.070	32.6	0.1311	0.0000	OK
15 minute summer	***415	11	102.053	0.333	121.4	0.7119	0.0000	OK
15 minute summer	***416	11	101.669	0.192	117.8	0.2742	0.0000	OK
15 minute summer	***417	11	101.345	0.177	176.4	0.5195	0.0000	OK
15 minute summer	***418	11	100.717	0.427	524.6	0.7551	0.0000	OK
15 minute summer	***419	11	100.419	0.381	572.0	0.8147	0.0000	OK
15 minute summer	***IR78	12	99.921	1.068	562.5	1.8867	0.0000	SURCHARGED
15 minute summer	***IR79	12	99.748	1.274	1030.4	3.3137	0.0000	SURCHARGED
15 minute summer	***IR80	12	99.498	1.057	1080.1	3.2508	0.0000	SURCHARGED
960 minute winter	***IR81	930	99.219	1.367	75.6	3.4795	0.0000	SURCHARGED
960 minute winter	***420	930	99.214	1.414	77.7	0.0000	0.0000	OK
15 minute summer	***421	10	103.770	0.166	76.7	0.5601	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	***IR75	***S1.013	***IR76	423.4	3.390	0.499	3.4786	
15 minute summer	***IR76	***S1.014	***IR77	442.5	3.404	0.478	2.5072	
15 minute summer	***IR77	***S1.015	***IR79	465.4	3.883	0.508	2.5869	
15 minute summer	***401	***5.000	***403	56.6	2.383	0.620	1.1678	
15 minute summer	***402	***6.000	***403	48.0	0.923	0.678	2.0571	
15 minute summer	***403	***5.001	***404	103.2	0.982	0.932	2.6478	
15 minute summer	***404	***5.002	***405	114.2	1.143	1.029	2.3764	
15 minute summer	***405	***5.003	***408	145.9	1.972	1.301	0.7827	
15 minute summer	***406	***7.000	***407	59.6	2.480	0.624	0.8904	
15 minute summer	***407	***7.001	***408	59.6	2.953	0.204	0.2054	
15 minute summer	***408	***5.004	***409	216.4	3.567	0.359	0.6086	
15 minute summer	***409	***5.005	***410	287.1	2.771	0.759	5.8839	
15 minute summer	***410	***5.006	***412	287.4	2.590	0.366	0.9132	
15 minute summer	***411	***8.000	***412	61.1	1.973	0.857	1.2317	
15 minute summer	***412	***5.007	***418	348.2	2.881	0.766	2.3625	
15 minute summer	***413	***9.000	***415	39.1	2.078	0.458	0.8778	
15 minute summer	***414	***10.000	***415	32.4	2.570	0.212	0.7865	
15 minute summer	***415	***9.001	***416	117.8	1.275	1.064	4.9561	
15 minute summer	***416	***9.002	***417	117.8	2.049	0.281	0.5474	
15 minute summer	***417	***9.003	***418	176.4	1.256	0.198	7.4890	
15 minute summer	***418	***5.008	***419	523.1	2.948	0.510	0.8138	
15 minute summer	***419	***5.009	***IR78	562.5	2.554	0.549	12.6199	
15 minute summer	***IR78	***S2.000	***IR79	568.3	2.018	0.553	2.9044	
15 minute summer	***IR79	***S1.016	***IR80	1033.8	2.349	1.870	7.1837	
15 minute summer	***IR80	***S1.017	***IR81	1087.4	2.487	1.977	20.1328	
15 minute summer	***IR81	***S1.018	***420	1081.9	3.500	1.968	9.9363	
15 minute summer	***421	***11.000	***422	76.1	2.332	0.781	0.5339	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.94%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	***422	10	103.213	0.179	76.1	0.2023	0.0000	OK
15 minute summer	***423	10	102.761	0.117	75.6	0.1324	0.0000	OK
15 minute summer	***424	11	100.837	0.137	75.2	0.1551	0.0000	OK
15 minute summer	***425	11	100.522	0.272	75.6	0.3074	0.0000	OK
15 minute summer	***426	11	100.289	0.247	100.2	0.4745	0.0000	OK
15 minute summer	***IR82	11	100.098	0.163	126.6	0.3204	0.0000	OK
15 minute summer	***IR83	10	100.684	0.112	39.8	0.2093	0.0000	OK
15 minute summer	***IR84	10	100.259	0.073	19.2	0.1232	0.0000	OK
15 minute summer	***IR85	11	99.767	0.180	183.5	0.2576	0.0000	OK
960 minute winter	***IR86	945	99.208	1.408	24.0	0.0000	0.0000	OK
960 minute winter	***427	945	99.205	1.405	50.2	1457.4440	0.0000	SURCHARGED
960 minute winter	***428	945	99.204	1.441	14.1	4.9912	0.0000	SURCHARGED
120 minute summer	***429	68	97.785	0.085	13.9	0.0000	0.0000	OK

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	***422	***11.001	***423	75.6	2.475	0.753	0.2587	
15 minute summer	***423	***11.002	***424	75.2	2.663	0.323	1.2644	
15 minute summer	***424	***11.003	***425	75.6	1.496	0.379	0.6945	
15 minute summer	***425	***11.004	***426	76.0	1.241	1.070	0.8523	
15 minute summer	***426	***11.005	***IR82	100.5	1.433	0.630	3.0556	
15 minute summer	***IR82	***11.006	***IR85	126.6	2.288	0.220	0.6108	
15 minute summer	***IR83	***12.000	***IR85	39.4	2.065	0.458	0.5336	
15 minute summer	***IR84	***13.000	***IR85	19.1	1.803	0.199	0.1175	
15 minute summer	***IR85	***11.007	***IR86	183.8	3.278	0.298	0.7565	
15 minute winter	***427	***45.000	***428	20.7	0.715	0.284	0.5986	
120 minute summer	***428	***45.001	***429	13.9	0.827	0.179	0.2172	258.9

Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.83%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	101	11	108.454	0.954	99.5	2.5169	0.0000	SURCHARGED
15 minute summer	102	12	107.613	0.613	91.7	0.6930	0.0000	SURCHARGED
15 minute summer	103	12	107.247	0.455	90.2	0.5150	0.0000	SURCHARGED
15 minute summer	104	11	107.932	0.332	55.5	0.6539	0.0000	SURCHARGED
15 minute summer	105	11	107.594	0.117	54.0	0.1318	0.0000	OK
15 minute summer	106	12	107.148	0.393	174.5	0.6963	0.0000	SURCHARGED
15 minute summer	107	12	106.874	0.378	169.7	0.4273	0.0000	SURCHARGED
15 minute summer	108	11	105.663	0.622	242.4	1.6969	0.0000	SURCHARGED
15 minute summer	109	11	105.352	0.397	119.8	1.1780	0.0000	SURCHARGED
15 minute summer	110	11	105.213	0.366	115.7	0.5236	0.0000	OK
15 minute summer	111	11	105.154	0.404	565.9	1.6844	0.0000	OK
15 minute summer	112	11	103.163	0.323	572.3	0.4619	0.0000	OK
15 minute summer	IR01	11	101.125	0.946	569.1	0.0000	0.0000	SURCHARGED
15 minute summer	113	10	105.803	0.203	45.0	0.3677	0.0000	OK
15 minute summer	114	10	105.642	0.135	44.5	0.1525	0.0000	OK
15 minute summer	115	10	105.304	0.129	44.2	0.1457	0.0000	OK
15 minute summer	116	10	105.110	0.204	176.1	0.6334	0.0000	OK
15 minute summer	IR02	10	103.385	0.130	174.6	0.0000	0.0000	OK
15 minute summer	IR03	10	101.455	0.215	320.5	0.5541	0.0000	OK
15 minute summer	IR04	12	101.012	0.202	88.1	0.4614	0.0000	OK
15 minute summer	IR05	11	100.959	0.922	145.7	1.4602	0.0000	SURCHARGED
15 minute summer	IR06	11	100.925	1.441	459.3	3.3666	0.0000	SURCHARGED
15 minute summer	IR07	11	100.627	1.245	1090.7	3.4339	0.0000	SURCHARGED
15 minute summer	117	11	107.691	0.537	101.3	1.3430	0.0000	SURCHARGED
15 minute summer	118	11	105.880	0.303	167.0	0.7521	0.0000	OK
15 minute winter	119	10	105.614	0.219	250.4	0.6049	0.0000	OK
15 minute summer	120	11	103.665	0.291	380.4	0.9450	0.0000	OK
15 minute summer	IR08	11	101.846	1.012	376.3	0.0000	0.0000	SURCHARGED

Link Event (Outflow)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	101	1.000	102	91.7	2.305	1.301	0.9250	
15 minute summer	102	1.001	103	90.2	1.281	1.276	3.5869	
15 minute summer	103	1.002	106	88.2	1.430	1.241	0.6309	
15 minute summer	104	2.000	105	54.0	1.567	1.354	0.6288	
15 minute summer	105	2.001	106	54.3	2.115	0.533	0.5146	
15 minute summer	106	1.003	107	169.7	2.761	0.700	0.3869	
15 minute summer	107	1.004	108	177.1	2.560	0.920	3.2568	
15 minute summer	108	1.005	111	241.7	2.192	1.327	2.8248	
15 minute summer	109	3.000	110	115.7	1.074	1.044	3.8269	
15 minute summer	110	3.001	111	116.4	1.145	1.040	0.7377	
15 minute summer	111	1.006	112	572.3	4.235	0.956	7.6160	
15 minute summer	112	1.007	IR01	569.1	4.333	0.805	7.8495	
15 minute summer	IR01	S18.00	IR07	564.7	3.565	0.709	1.7022	
15 minute summer	113	4.000	114	44.5	1.392	1.115	0.4918	
15 minute summer	114	4.001	115	44.2	1.828	0.584	0.3820	
15 minute summer	115	4.002	116	44.1	1.995	0.464	0.1375	
15 minute summer	116	4.003	IR02	174.6	3.522	0.765	1.7784	
15 minute summer	IR02	4.004	IR03	174.2	4.762	0.169	0.6779	
15 minute summer	IR03	4.005	IR06	318.4	1.447	0.285	12.4894	
15 minute summer	IR04	5.000	IR05	87.5	1.845	0.345	4.1201	
15 minute summer	IR05	S16.001	IR06	96.0	1.620	0.325	1.6710	
15 minute summer	IR06	S16.002	IR07	434.2	1.542	1.535	16.7666	
15 minute summer	IR07	S16.003	IR11	1089.1	3.867	2.159	4.0218	
15 minute summer	117	6.000	118	93.0	2.572	1.051	1.9742	
15 minute summer	118	6.001	119	167.1	2.054	0.914	1.7521	
15 minute summer	119	6.002	120	256.4	3.324	0.639	3.9902	
15 minute summer	120	6.003	IR08	376.3	4.152	0.836	5.1111	
15 minute summer	IR08	S15.000	IR10	374.6	3.396	0.746	1.1496	