

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)	0.200
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)	50.0		

Nodes

Name	Area (ha)	T of E (mins)	Cover Level (m)	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)
IC-0001-S	0.026	5.00	2.620	450	532504.443	320922.590	0.905
IC-0002-S	0.012	5.00	2.620	450	532502.108	320914.852	0.945
IC-0003-S			2.650	450	532479.894	320917.156	1.075
IC-0004-S	0.030	5.00	2.600	450	532480.618	320923.436	0.995
IC-0005-S	0.012	5.00	2.720	1200	532438.862	320922.207	1.350
IC-0006-S	0.012	5.00	2.720	1200	532438.654	320927.939	1.370
IC-0007-S	0.028	5.00	2.650	450	532445.496	320927.558	1.265
IC-0008-S	0.013	5.00	2.400	1200	532438.656	320960.594	1.185
IC-0009-S	0.032	5.00	2.400	450	532445.094	320960.575	1.150
IC-0010-S	0.025	5.00	2.300	1200	532418.672	320960.587	1.200
IC-0011-S	0.028	5.00	2.250	1200	532412.518	320960.607	1.185
IC-0021-S			2.200	450	532418.469	321016.209	1.100
IC-0022-S	0.012	5.00	2.400	450	532446.120	321024.788	1.160
IC-0023-S	0.021	5.00	2.400	450	532449.654	321029.142	1.130
IC-0024-S	0.012	5.00	2.400	450	532442.762	321037.569	1.095
IC-0025-S	0.022	5.00	2.400	450	532445.852	321039.953	1.075
IC-0026-S	0.012	5.00	2.400	450	532436.455	321063.185	0.965
IC-0027-S	0.022	5.00	2.500	450	532442.445	321066.402	1.030
IC-0032-S	0.012	5.00	2.350	600	532438.882	320973.235	1.085
IC-0033-S	0.012	5.00	2.410	600	532454.359	320992.855	1.035
IC-0034-S	0.012	5.00	2.700	450	532394.964	320927.497	0.600
IC-0035-S	0.013	5.00	2.700	450	532370.534	320941.915	0.785
IC-0036-S	0.012	5.00	2.700	450	532355.774	320958.479	0.900
IC-0037-S	0.012	5.00	2.700	450	532348.812	320995.778	1.100
IC-0038-S	0.013	5.00	2.700	450	532343.010	321027.462	1.275
IC-0039-S	0.012	5.00	2.550	450	532340.453	321041.435	1.225
IC-0040-S	0.012	5.00	2.400	450	532337.851	321056.924	0.975
IC-0041-S	0.012	5.00	2.575	450	532360.108	321074.065	0.975
IC-0042-S	0.012	5.00	2.500	450	532402.648	321073.294	0.625
Lagoon outlet	0.309	5.00	2.140	1200	532375.531	321072.019	1.115
Outlet			2.430	1200	532375.403	321088.918	1.810

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
PN-0001-S	IC-0001-S	IC-0002-S	8.083	0.600	1.715	1.675	0.040	202.1	225	5.15	50.0
PN-0002-S	IC-0002-S	IC-0003-S	22.333	0.600	1.675	1.575	0.100	223.3	225	5.57	50.0
PN-0003-S	IC-0003-S	IC-0005-S	41.342	0.600	1.575	1.370	0.205	201.7	225	6.33	50.0
PN-0004-S	IC-0004-S	IC-0003-S	6.322	0.600	1.605	1.575	0.030	210.7	225	5.12	50.0
PN-0005-S	IC-0005-S	IC-0006-S	5.736	0.600	1.370	1.350	0.020	286.8	300	6.43	50.0
PN-0006-S	IC-0006-S	IC-0008-S	32.655	0.600	1.350	1.215	0.135	241.9	300	6.97	50.0
PN-0007-S	IC-0007-S	IC-0006-S	6.853	0.600	1.385	1.350	0.035	195.8	225	5.12	50.0
PN-0008-S	IC-0008-S	IC-0010-S	19.984	0.600	1.215	1.100	0.115	173.8	300	7.25	50.0
PN-0009-S	IC-0009-S	IC-0008-S	6.438	0.600	1.250	1.215	0.035	183.9	225	5.11	50.0
PN-0010-S	IC-0010-S	IC-0011-S	6.154	0.600	1.100	1.065	0.035	175.8	450	7.32	50.0
PN-0011-S	IC-0011-S	Lagoon outlet	117.391	0.600	1.065	1.025	0.040	2934.8	450	12.67	50.0
PN-0021-S	IC-0021-S	Lagoon outlet	70.416	0.600	1.100	1.025	0.075	938.9	225	9.18	50.0
PN-0022-S	IC-0022-S	IC-0021-S	28.951	0.600	1.240	1.100	0.140	206.8	225	6.38	50.0
PN-0023-S	IC-0023-S	IC-0022-S	5.608	0.600	1.270	1.240	0.030	186.9	225	5.10	50.0
PN-0024-S	IC-0024-S	IC-0022-S	13.215	0.600	1.305	1.240	0.065	203.3	225	5.84	50.0
PN-0025-S	IC-0025-S	IC-0024-S	3.903	0.600	1.325	1.305	0.020	195.1	225	5.07	50.0
PN-0026-S	IC-0026-S	IC-0024-S	26.381	0.600	1.435	1.305	0.130	202.9	225	5.60	50.0
PN-0027-S	IC-0027-S	IC-0026-S	6.799	0.600	1.470	1.435	0.035	194.3	225	5.12	50.0
Lagoon Pipe	Lagoon outlet	Outlet	16.899	0.600	1.025	0.620	0.405	41.7	150	12.85	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
PN-0001-S	0.916	36.4	4.7	0.680	0.720	0.026	0.0	54	0.632
PN-0002-S	0.871	34.6	6.9	0.720	0.850	0.038	0.0	68	0.683
PN-0003-S	0.917	36.5	12.3	0.850	1.125	0.068	0.0	90	0.830
PN-0004-S	0.897	35.7	5.4	0.770	0.850	0.030	0.0	59	0.652
PN-0005-S	0.923	65.3	14.5	1.050	1.070	0.080	0.0	96	0.746
PN-0006-S	1.006	71.1	21.7	1.070	0.885	0.120	0.0	113	0.887
PN-0007-S	0.931	37.0	5.1	1.040	1.145	0.028	0.0	56	0.654
PN-0008-S	1.189	84.1	34.2	0.885	0.900	0.189	0.0	133	1.129
PN-0009-S	0.961	38.2	5.8	0.925	0.960	0.032	0.0	59	0.698
PN-0010-S	1.530	243.3	38.7	0.750	0.735	0.214	0.0	120	1.128
PN-0011-S	0.366	58.2	43.7	0.735	0.665	0.242	0.0	292	0.401
PN-0021-S	0.419	16.6	18.3	0.875	0.890	0.101	0.0	225	0.427
PN-0022-S	0.905	36.0	18.3	0.935	0.875	0.101	0.0	114	0.910
PN-0023-S	0.953	37.9	3.8	0.905	0.935	0.021	0.0	48	0.613
PN-0024-S	0.913	36.3	12.3	0.870	0.935	0.068	0.0	90	0.826
PN-0025-S	0.932	37.1	4.0	0.850	0.870	0.022	0.0	50	0.612
PN-0026-S	0.914	36.3	6.1	0.740	0.870	0.034	0.0	62	0.681
PN-0027-S	0.934	37.2	4.0	0.805	0.740	0.022	0.0	50	0.614
Lagoon Pipe	1.562	27.6	137.7	0.965	1.660	0.762	0.0	150	1.591

Links

Name	US Node	DS Node	Length (m)	ks (mm) / n	US IL (m)	DS IL (m)	Fall (m)	Slope (1:X)	Dia (mm)	T of C (mins)	Rain (mm/hr)
PN-0032-S	IC-0032-S	IC-0008-S	12.643	0.600	1.265	1.215	0.050	252.9	300	5.62	50.0
PN-0033-S	IC-0033-S	IC-0032-S	24.990	0.600	1.375	1.265	0.110	227.2	300	5.40	50.0
PN-0034-S	IC-0034-S	IC-0035-S	28.367	0.600	2.100	1.915	0.185	153.3	225	5.45	50.0
PN-0035-S	IC-0035-S	IC-0036-S	22.186	0.600	1.915	1.800	0.115	192.9	225	5.84	50.0
PN-0036-S	IC-0036-S	IC-0037-S	37.943	0.600	1.800	1.600	0.200	189.7	225	6.51	50.0
PN-0037-S	IC-0037-S	IC-0038-S	32.211	0.600	1.600	1.425	0.175	184.1	225	7.07	50.0
PN-0038-S	IC-0038-S	IC-0039-S	14.205	0.600	1.425	1.325	0.100	142.1	225	7.29	50.0
PN-0039-S	IC-0039-S	Lagoon outlet	46.539	0.600	1.325	1.100	0.225	206.8	225	8.14	50.0
PN-0040-S	IC-0040-S	IC-0039-S	15.706	0.600	1.425	1.325	0.100	157.1	225	6.38	50.0
PN-0041-S	IC-0041-S	IC-0040-S	28.092	0.600	1.600	1.425	0.175	160.5	225	6.13	50.0
PN-0042-S	IC-0042-S	IC-0041-S	42.547	0.600	1.875	1.600	0.275	154.7	225	5.68	50.0

Name	Vel (m/s)	Cap (l/s)	Flow (l/s)	US Depth (m)	DS Depth (m)	Σ Area (ha)	Σ Add Inflow (l/s)	Pro Depth (mm)	Pro Velocity (m/s)
PN-0032-S	0.984	69.5	4.3	0.785	0.885	0.024	0.0	51	0.554
PN-0033-S	1.039	73.4	2.2	0.735	0.785	0.012	0.0	35	0.469
PN-0034-S	1.053	41.9	2.2	0.375	0.560	0.012	0.0	35	0.558
PN-0035-S	0.938	37.3	4.5	0.560	0.675	0.025	0.0	52	0.635
PN-0036-S	0.946	37.6	6.7	0.675	0.875	0.037	0.0	64	0.715
PN-0037-S	0.960	38.2	8.9	0.875	1.050	0.049	0.0	73	0.784
PN-0038-S	1.095	43.5	11.2	1.050	1.000	0.062	0.0	78	0.921
PN-0039-S	0.905	36.0	19.9	1.000	0.815	0.110	0.0	119	0.926
PN-0040-S	1.041	41.4	6.5	0.750	1.000	0.036	0.0	60	0.763
PN-0041-S	1.029	40.9	4.3	0.750	0.750	0.024	0.0	50	0.676
PN-0042-S	1.048	41.7	2.2	0.400	0.750	0.012	0.0	35	0.555

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
PN-0001-S	8.083	202.1	225	Circular	2.620	1.715	0.680	2.620	1.675	0.720
PN-0002-S	22.333	223.3	225	Circular	2.620	1.675	0.720	2.650	1.575	0.850
PN-0003-S	41.342	201.7	225	Circular	2.650	1.575	0.850	2.720	1.370	1.125
PN-0004-S	6.322	210.7	225	Circular	2.600	1.605	0.770	2.650	1.575	0.850
PN-0005-S	5.736	286.8	300	Circular	2.720	1.370	1.050	2.720	1.350	1.070
PN-0006-S	32.655	241.9	300	Circular	2.720	1.350	1.070	2.400	1.215	0.885

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
PN-0001-S	IC-0001-S	450	Manhole	Adoptable	IC-0002-S	450	Manhole	Adoptable
PN-0002-S	IC-0002-S	450	Manhole	Adoptable	IC-0003-S	450	Manhole	Adoptable
PN-0003-S	IC-0003-S	450	Manhole	Adoptable	IC-0005-S	1200	Manhole	Adoptable
PN-0004-S	IC-0004-S	450	Manhole	Adoptable	IC-0003-S	450	Manhole	Adoptable
PN-0005-S	IC-0005-S	1200	Manhole	Adoptable	IC-0006-S	1200	Manhole	Adoptable
PN-0006-S	IC-0006-S	1200	Manhole	Adoptable	IC-0008-S	1200	Manhole	Adoptable

Pipeline Schedule

Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
PN-0007-S	6.853	195.8	225	Circular	2.650	1.385	1.040	2.720	1.350	1.145
PN-0008-S	19.984	173.8	300	Circular	2.400	1.215	0.885	2.300	1.100	0.900
PN-0009-S	6.438	183.9	225	Circular	2.400	1.250	0.925	2.400	1.215	0.960
PN-0010-S	6.154	175.8	450	Circular	2.300	1.100	0.750	2.250	1.065	0.735
PN-0011-S	117.391	2934.8	450	Circular	2.250	1.065	0.735	2.140	1.025	0.665
PN-0021-S	70.416	938.9	225	Circular	2.200	1.100	0.875	2.140	1.025	0.890
PN-0022-S	28.951	206.8	225	Circular	2.400	1.240	0.935	2.200	1.100	0.875
PN-0023-S	5.608	186.9	225	Circular	2.400	1.270	0.905	2.400	1.240	0.935
PN-0024-S	13.215	203.3	225	Circular	2.400	1.305	0.870	2.400	1.240	0.935
PN-0025-S	3.903	195.1	225	Circular	2.400	1.325	0.850	2.400	1.305	0.870
PN-0026-S	26.381	202.9	225	Circular	2.400	1.435	0.740	2.400	1.305	0.870
PN-0027-S	6.799	194.3	225	Circular	2.500	1.470	0.805	2.400	1.435	0.740
Lagoon Pipe	16.899	41.7	150	Circular	2.140	1.025	0.965	2.430	0.620	1.660
PN-0032-S	12.643	252.9	300	Circular	2.350	1.265	0.785	2.400	1.215	0.885
PN-0033-S	24.990	227.2	300	Circular	2.410	1.375	0.735	2.350	1.265	0.785
PN-0034-S	28.367	153.3	225	Circular	2.700	2.100	0.375	2.700	1.915	0.560
PN-0035-S	22.186	192.9	225	Circular	2.700	1.915	0.560	2.700	1.800	0.675
PN-0036-S	37.943	189.7	225	Circular	2.700	1.800	0.675	2.700	1.600	0.875
PN-0037-S	32.211	184.1	225	Circular	2.700	1.600	0.875	2.700	1.425	1.050
PN-0038-S	14.205	142.1	225	Circular	2.700	1.425	1.050	2.550	1.325	1.000
Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type		
PN-0007-S	IC-0007-S	450	Manhole	Adoptable	IC-0006-S	1200	Manhole	Adoptable		
PN-0008-S	IC-0008-S	1200	Manhole	Adoptable	IC-0010-S	1200	Manhole	Adoptable		
PN-0009-S	IC-0009-S	450	Manhole	Adoptable	IC-0008-S	1200	Manhole	Adoptable		
PN-0010-S	IC-0010-S	1200	Manhole	Adoptable	IC-0011-S	1200	Manhole	Adoptable		
PN-0011-S	IC-0011-S	1200	Manhole	Adoptable	Lagoon outlet	1200	Manhole	Adoptable		
PN-0021-S	IC-0021-S	450	Manhole	Adoptable	Lagoon outlet	1200	Manhole	Adoptable		
PN-0022-S	IC-0022-S	450	Manhole	Adoptable	IC-0021-S	450	Manhole	Adoptable		
PN-0023-S	IC-0023-S	450	Manhole	Adoptable	IC-0022-S	450	Manhole	Adoptable		
PN-0024-S	IC-0024-S	450	Manhole	Adoptable	IC-0022-S	450	Manhole	Adoptable		
PN-0025-S	IC-0025-S	450	Manhole	Adoptable	IC-0024-S	450	Manhole	Adoptable		
PN-0026-S	IC-0026-S	450	Manhole	Adoptable	IC-0024-S	450	Manhole	Adoptable		
PN-0027-S	IC-0027-S	450	Manhole	Adoptable	IC-0026-S	450	Manhole	Adoptable		
Lagoon Pipe	Lagoon outlet	1200	Manhole	Adoptable	Outlet	1200	Manhole	Adoptable		
PN-0032-S	IC-0032-S	600	Manhole	Adoptable	IC-0008-S	1200	Manhole	Adoptable		
PN-0033-S	IC-0033-S	600	Manhole	Adoptable	IC-0032-S	600	Manhole	Adoptable		
PN-0034-S	IC-0034-S	450	Manhole	Adoptable	IC-0035-S	450	Manhole	Adoptable		
PN-0035-S	IC-0035-S	450	Manhole	Adoptable	IC-0036-S	450	Manhole	Adoptable		
PN-0036-S	IC-0036-S	450	Manhole	Adoptable	IC-0037-S	450	Manhole	Adoptable		
PN-0037-S	IC-0037-S	450	Manhole	Adoptable	IC-0038-S	450	Manhole	Adoptable		
PN-0038-S	IC-0038-S	450	Manhole	Adoptable	IC-0039-S	450	Manhole	Adoptable		

Pipeline Schedule

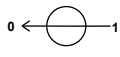
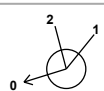
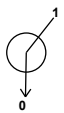
Link	Length (m)	Slope (1:X)	Dia (mm)	Link Type	US CL (m)	US IL (m)	US Depth (m)	DS CL (m)	DS IL (m)	DS Depth (m)
PN-0039-S	46.539	206.8	225	Circular	2.550	1.325	1.000	2.140	1.100	0.815
PN-0040-S	15.706	157.1	225	Circular	2.400	1.425	0.750	2.550	1.325	1.000
PN-0041-S	28.092	160.5	225	Circular	2.575	1.600	0.750	2.400	1.425	0.750
PN-0042-S	42.547	154.7	225	Circular	2.500	1.875	0.400	2.575	1.600	0.750

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
PN-0039-S	IC-0039-S	450	Manhole	Adoptable	Lagoon outlet	1200	Manhole	Adoptable
PN-0040-S	IC-0040-S	450	Manhole	Adoptable	IC-0039-S	450	Manhole	Adoptable
PN-0041-S	IC-0041-S	450	Manhole	Adoptable	IC-0040-S	450	Manhole	Adoptable
PN-0042-S	IC-0042-S	450	Manhole	Adoptable	IC-0041-S	450	Manhole	Adoptable

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
IC-0001-S	532504.443	320922.590	2.620	0.905	450				
IC-0002-S	532502.108	320914.852	2.620	0.945	450		0 PN-0001-S 1.715 225 1 PN-0001-S 1.675 225		
IC-0003-S	532479.894	320917.156	2.650	1.075	450		0 PN-0002-S 1.675 225 1 PN-0004-S 1.575 225 2 PN-0002-S 1.575 225		
IC-0004-S	532480.618	320923.436	2.600	0.995	450		0 PN-0003-S 1.575 225		
IC-0005-S	532438.862	320922.207	2.720	1.350	1200		0 PN-0004-S 1.605 225 1 PN-0003-S 1.370 225		
IC-0006-S	532438.654	320927.939	2.720	1.370	1200		0 PN-0005-S 1.370 300		
IC-0007-S	532445.496	320927.558	2.650	1.265	450		1 PN-0007-S 1.350 225 2 PN-0005-S 1.350 300 0 PN-0006-S 1.350 300		
IC-0008-S	532438.656	320960.594	2.400	1.185	1200		0 PN-0007-S 1.385 225		
							1 PN-0009-S 1.215 225 2 PN-0032-S 1.215 300 3 PN-0006-S 1.215 300 0 PN-0008-S 1.215 300		

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
IC-0009-S	532445.094	320960.575	2.400	1.150	450				
						0	PN-0009-S	1.250	225
IC-0010-S	532418.672	320960.587	2.300	1.200	1200		1	PN-0008-S	1.100
						0	PN-0010-S	1.100	450
IC-0011-S	532412.518	320960.607	2.250	1.185	1200		1	PN-0010-S	1.065
						0	PN-0011-S	1.065	450
IC-0021-S	532418.469	321016.209	2.200	1.100	450		1	PN-0022-S	1.100
						0	PN-0021-S	1.100	225
IC-0022-S	532446.120	321024.788	2.400	1.160	450		1	PN-0023-S	1.240
						2	PN-0024-S	1.240	225
						0	PN-0022-S	1.240	225
IC-0023-S	532449.654	321029.142	2.400	1.130	450		0	PN-0023-S	1.270
IC-0024-S	532442.762	321037.569	2.400	1.095	450		1	PN-0025-S	1.305
						2	PN-0026-S	1.305	225
						0	PN-0024-S	1.305	225
IC-0025-S	532445.852	321039.953	2.400	1.075	450		0	PN-0025-S	1.325
IC-0026-S	532436.455	321063.185	2.400	0.965	450		1	PN-0027-S	1.435
						0	PN-0026-S	1.435	225
IC-0027-S	532442.445	321066.402	2.500	1.030	450		0	PN-0027-S	1.470
IC-0032-S	532438.882	320973.235	2.350	1.085	600		1	PN-0033-S	1.265
						0	PN-0032-S	1.265	300
IC-0033-S	532454.359	320992.855	2.410	1.035	600		0	PN-0033-S	1.375
IC-0034-S	532394.964	320927.497	2.700	0.600	450		0	PN-0034-S	2.100
						0	PN-0034-S	2.100	225

Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Connections	Link	IL (m)	Dia (mm)
IC-0035-S	532370.534	320941.915	2.700	0.785	450		1 PN-0034-S	1.915	225
							0 PN-0035-S	1.915	225
IC-0036-S	532355.774	320958.479	2.700	0.900	450		1 PN-0035-S	1.800	225
							0 PN-0036-S	1.800	225
IC-0037-S	532348.812	320995.778	2.700	1.100	450		1 PN-0036-S	1.600	225
							0 PN-0037-S	1.600	225
IC-0038-S	532343.010	321027.462	2.700	1.275	450		1 PN-0037-S	1.425	225
							0 PN-0038-S	1.425	225
IC-0039-S	532340.453	321041.435	2.550	1.225	450		1 PN-0040-S	1.325	225
							2 PN-0038-S	1.325	225
							0 PN-0039-S	1.325	225
IC-0040-S	532337.851	321056.924	2.400	0.975	450		1 PN-0041-S	1.425	225
							0 PN-0040-S	1.425	225
IC-0041-S	532360.108	321074.065	2.575	0.975	450		1 PN-0042-S	1.600	225
							0 PN-0041-S	1.600	225
IC-0042-S	532402.648	321073.294	2.500	0.625	450				
							0 PN-0042-S	1.875	225
Lagoon outlet	532375.531	321072.019	2.140	1.115	1200		1 PN-0021-S	1.025	225
							2 PN-0039-S	1.100	225
							3 PN-0011-S	1.025	450
							0 Lagoon Pipe	1.025	150
Outlet	532375.403	321088.918	2.430	1.810	1200		1 Lagoon Pipe	0.620	150

Simulation Settings

Rainfall Methodology FEH-22
Rainfall Events Singular
Summer CV 1.000
Winter CV 1.000

Analysis Speed Normal
Skip Steady State x
Drain Down Time (mins) 1440
Additional Storage (m³/ha) 0.0

Starting Level (m)
Check Discharge Rate(s) x
Check Discharge Volume x

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 %)
2	0	0	0
5	0	0	0
10	0	0	0
30	0	0	0
30	35	0	0
100	0	0	0
100	40	0	0

Node Lagoon outlet Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	1.025	Product Number	CTL-SHE-0064-1900-1115-1900
Design Depth (m)	1.115	Min Outlet Diameter (m)	0.100
Design Flow (l/s)	1.9	Min Node Diameter (mm)	1200

Node Lagoon outlet Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	1.025
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	Time to half empty (mins)	1020

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	897.0	0.0	0.125	1952.0	0.0	1.116	0.0	0.0
0.124	1398.0	0.0	1.115	3120.0	0.0			

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0001-S	10	1.772	0.057	4.6	0.0090	0.0000	OK
15 minute summer	IC-0002-S	10	1.741	0.066	6.7	0.0104	0.0000	OK
15 minute summer	IC-0003-S	11	1.661	0.086	11.7	0.0137	0.0000	OK
15 minute summer	IC-0004-S	10	1.671	0.066	5.3	0.0105	0.0000	OK
15 minute summer	IC-0005-S	11	1.478	0.108	13.6	0.1220	0.0000	OK
15 minute summer	IC-0006-S	11	1.459	0.109	20.0	0.1234	0.0000	OK
15 minute summer	IC-0007-S	11	1.461	0.076	4.9	0.0122	0.0000	OK
15 minute summer	IC-0008-S	12	1.343	0.128	30.5	0.1453	0.0000	OK
15 minute summer	IC-0009-S	12	1.344	0.094	5.6	0.0150	0.0000	OK
15 minute summer	IC-0010-S	12	1.302	0.202	33.8	0.2288	0.0000	OK
15 minute summer	IC-0011-S	12	1.298	0.233	38.4	0.2630	0.0000	OK
15 minute summer	IC-0021-S	12	1.265	0.165	17.1	0.0263	0.0000	OK
15 minute summer	IC-0022-S	11	1.348	0.108	17.1	0.0172	0.0000	OK
15 minute summer	IC-0023-S	11	1.349	0.079	3.7	0.0125	0.0000	OK
15 minute summer	IC-0024-S	11	1.398	0.093	11.7	0.0148	0.0000	OK
15 minute summer	IC-0025-S	11	1.400	0.075	3.9	0.0119	0.0000	OK
15 minute summer	IC-0026-S	11	1.495	0.060	6.0	0.0096	0.0000	OK
15 minute summer	IC-0027-S	10	1.522	0.052	3.9	0.0083	0.0000	OK
15 minute summer	IC-0032-S	12	1.344	0.079	4.1	0.0224	0.0000	OK
15 minute summer	IC-0033-S	10	1.409	0.034	2.1	0.0097	0.0000	OK
15 minute summer	IC-0034-S	10	2.134	0.034	2.1	0.0053	0.0000	OK
15 minute summer	IC-0035-S	11	1.966	0.051	4.3	0.0081	0.0000	OK
15 minute summer	IC-0036-S	11	1.861	0.061	6.3	0.0098	0.0000	OK
15 minute summer	IC-0037-S	11	1.671	0.071	8.2	0.0112	0.0000	OK
15 minute summer	IC-0038-S	11	1.498	0.073	10.1	0.0116	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0001-S	PN-0001-S	IC-0002-S	4.6	0.523	0.125	0.0706	
15 minute summer	IC-0002-S	PN-0002-S	IC-0003-S	6.5	0.564	0.189	0.2640	
15 minute summer	IC-0003-S	PN-0003-S	IC-0005-S	11.6	0.717	0.319	0.6786	
15 minute summer	IC-0004-S	PN-0004-S	IC-0003-S	5.2	0.481	0.146	0.0745	
15 minute summer	IC-0005-S	PN-0005-S	IC-0006-S	13.4	0.589	0.205	0.1317	
15 minute summer	IC-0006-S	PN-0006-S	IC-0008-S	19.7	0.765	0.277	0.8411	
15 minute summer	IC-0007-S	PN-0007-S	IC-0006-S	4.6	0.419	0.125	0.1060	
15 minute summer	IC-0008-S	PN-0008-S	IC-0010-S	30.0	0.808	0.357	0.7928	
15 minute summer	IC-0009-S	PN-0009-S	IC-0008-S	5.4	0.420	0.140	0.1261	
15 minute summer	IC-0010-S	PN-0010-S	IC-0011-S	34.6	0.546	0.142	0.4667	
15 minute summer	IC-0011-S	PN-0011-S	Lagoon outlet	43.6	1.166	0.749	5.0884	
15 minute summer	IC-0021-S	PN-0021-S	Lagoon outlet	16.5	1.013	0.993	1.2019	
15 minute summer	IC-0022-S	PN-0022-S	IC-0021-S	17.1	0.719	0.474	0.7137	
15 minute summer	IC-0023-S	PN-0023-S	IC-0022-S	3.5	0.319	0.093	0.0874	
15 minute summer	IC-0024-S	PN-0024-S	IC-0022-S	11.7	0.680	0.321	0.2267	
15 minute summer	IC-0025-S	PN-0025-S	IC-0024-S	3.8	0.330	0.102	0.0529	
15 minute summer	IC-0026-S	PN-0026-S	IC-0024-S	5.8	0.495	0.161	0.3176	
15 minute summer	IC-0027-S	PN-0027-S	IC-0026-S	3.9	0.499	0.104	0.0527	
15 minute summer	IC-0032-S	PN-0032-S	IC-0008-S	3.8	0.223	0.054	0.2756	
15 minute summer	IC-0033-S	PN-0033-S	IC-0032-S	2.0	0.320	0.028	0.2367	
15 minute summer	IC-0034-S	PN-0034-S	IC-0035-S	2.0	0.401	0.049	0.1478	
15 minute summer	IC-0035-S	PN-0035-S	IC-0036-S	4.3	0.552	0.114	0.1721	
15 minute summer	IC-0036-S	PN-0036-S	IC-0037-S	6.2	0.643	0.166	0.3686	
15 minute summer	IC-0037-S	PN-0037-S	IC-0038-S	7.9	0.735	0.208	0.3508	
15 minute summer	IC-0038-S	PN-0038-S	IC-0039-S	10.0	0.670	0.229	0.2175	

Results for 2 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0039-S	12	1.436	0.111	17.7	0.0177	0.0000	OK
15 minute summer	IC-0040-S	11	1.482	0.057	6.0	0.0091	0.0000	OK
15 minute summer	IC-0041-S	11	1.647	0.047	4.1	0.0075	0.0000	OK
15 minute summer	IC-0042-S	11	1.909	0.034	2.1	0.0053	0.0000	OK
960 minute winter	Lagoon outlet	825	1.165	0.140	10.8	173.8695	0.0000	OK
960 minute winter	Outlet	825	0.644	0.024	1.5	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0039-S	PN-0039-S	Lagoon outlet	17.0	0.889	0.473	0.8913	
15 minute summer	IC-0040-S	PN-0040-S	IC-0039-S	5.9	0.490	0.143	0.2134	
15 minute summer	IC-0041-S	PN-0041-S	IC-0040-S	4.0	0.574	0.097	0.1955	
15 minute summer	IC-0042-S	PN-0042-S	IC-0041-S	2.0	0.429	0.049	0.2066	
960 minute winter	Lagoon outlet	Lagoon Pipe	Outlet	1.5	0.835	0.055	0.0309	156.5

Results for 5 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0001-S	10	1.795	0.080	8.2	0.0126	0.0000	OK
15 minute summer	IC-0002-S	10	1.765	0.090	11.9	0.0143	0.0000	OK
15 minute summer	IC-0003-S	11	1.696	0.121	21.0	0.0192	0.0000	OK
15 minute summer	IC-0004-S	11	1.704	0.099	9.4	0.0157	0.0000	OK
15 minute summer	IC-0005-S	11	1.526	0.156	24.4	0.1764	0.0000	OK
15 minute summer	IC-0006-S	11	1.505	0.155	36.3	0.1755	0.0000	OK
15 minute summer	IC-0007-S	11	1.508	0.123	8.8	0.0196	0.0000	OK
15 minute summer	IC-0008-S	12	1.419	0.204	54.9	0.2306	0.0000	OK
15 minute summer	IC-0009-S	12	1.421	0.171	10.1	0.0271	0.0000	OK
15 minute summer	IC-0010-S	11	1.358	0.258	60.7	0.2916	0.0000	OK
15 minute summer	IC-0011-S	11	1.348	0.283	68.1	0.3198	0.0000	OK
15 minute summer	IC-0021-S	12	1.378	0.278	28.4	0.0442	0.0000	SURCHARGED
15 minute summer	IC-0022-S	12	1.445	0.205	29.9	0.0325	0.0000	OK
15 minute summer	IC-0023-S	12	1.445	0.175	6.6	0.0279	0.0000	OK
15 minute summer	IC-0024-S	12	1.458	0.153	20.9	0.0244	0.0000	OK
15 minute summer	IC-0025-S	12	1.459	0.134	6.9	0.0213	0.0000	OK
15 minute summer	IC-0026-S	10	1.517	0.082	10.6	0.0130	0.0000	OK
15 minute summer	IC-0027-S	10	1.542	0.072	6.9	0.0115	0.0000	OK
15 minute summer	IC-0032-S	12	1.420	0.155	7.5	0.0440	0.0000	OK
15 minute summer	IC-0033-S	12	1.421	0.046	3.8	0.0131	0.0000	OK
15 minute summer	IC-0034-S	10	2.145	0.045	3.8	0.0072	0.0000	OK
15 minute summer	IC-0035-S	11	1.984	0.069	7.8	0.0110	0.0000	OK
15 minute summer	IC-0036-S	11	1.884	0.084	11.4	0.0134	0.0000	OK
15 minute summer	IC-0037-S	11	1.699	0.099	15.0	0.0158	0.0000	OK
15 minute summer	IC-0038-S	11	1.532	0.107	18.7	0.0170	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0001-S	PN-0001-S	IC-0002-S	8.1	0.595	0.223	0.1105	
15 minute summer	IC-0002-S	PN-0002-S	IC-0003-S	11.8	0.655	0.340	0.4046	
15 minute summer	IC-0003-S	PN-0003-S	IC-0005-S	20.9	0.822	0.572	1.0545	
15 minute summer	IC-0004-S	PN-0004-S	IC-0003-S	9.3	0.531	0.260	0.1214	
15 minute summer	IC-0005-S	PN-0005-S	IC-0006-S	24.4	0.665	0.373	0.2115	
15 minute summer	IC-0006-S	PN-0006-S	IC-0008-S	36.3	0.839	0.510	1.4207	
15 minute summer	IC-0007-S	PN-0007-S	IC-0006-S	8.4	0.439	0.227	0.1764	
15 minute summer	IC-0008-S	PN-0008-S	IC-0010-S	54.5	0.940	0.648	1.1498	
15 minute summer	IC-0009-S	PN-0009-S	IC-0008-S	9.2	0.467	0.241	0.2258	
15 minute summer	IC-0010-S	PN-0010-S	IC-0011-S	61.2	0.620	0.252	0.6117	
15 minute summer	IC-0011-S	PN-0011-S	Lagoon outlet	70.8	1.325	1.217	6.7194	
15 minute summer	IC-0021-S	PN-0021-S	Lagoon outlet	24.5	1.005	1.474	1.8021	
15 minute summer	IC-0022-S	PN-0022-S	IC-0021-S	28.4	0.817	0.789	1.1249	
15 minute summer	IC-0023-S	PN-0023-S	IC-0022-S	6.1	0.316	0.162	0.1994	
15 minute summer	IC-0024-S	PN-0024-S	IC-0022-S	20.2	0.730	0.556	0.4411	
15 minute summer	IC-0025-S	PN-0025-S	IC-0024-S	6.7	0.348	0.180	0.1044	
15 minute summer	IC-0026-S	PN-0026-S	IC-0024-S	10.5	0.556	0.288	0.5363	
15 minute summer	IC-0027-S	PN-0027-S	IC-0026-S	6.8	0.569	0.184	0.0819	
15 minute summer	IC-0032-S	PN-0032-S	IC-0008-S	7.5	0.227	0.108	0.5551	
15 minute summer	IC-0033-S	PN-0033-S	IC-0032-S	3.7	0.328	0.050	0.5459	
15 minute summer	IC-0034-S	PN-0034-S	IC-0035-S	3.7	0.472	0.089	0.2260	
15 minute summer	IC-0035-S	PN-0035-S	IC-0036-S	7.7	0.646	0.207	0.2652	
15 minute summer	IC-0036-S	PN-0036-S	IC-0037-S	11.4	0.751	0.304	0.5783	
15 minute summer	IC-0037-S	PN-0037-S	IC-0038-S	14.8	0.835	0.387	0.5709	
15 minute summer	IC-0038-S	PN-0038-S	IC-0039-S	18.3	0.740	0.420	0.3589	

Results for 5 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0039-S	12	1.495	0.170	32.8	0.0270	0.0000	OK
15 minute summer	IC-0040-S	11	1.503	0.078	10.9	0.0125	0.0000	OK
15 minute summer	IC-0041-S	11	1.664	0.064	7.5	0.0102	0.0000	OK
15 minute summer	IC-0042-S	10	1.920	0.045	3.8	0.0071	0.0000	OK
720 minute winter	Lagoon outlet	705	1.217	0.192	18.4	277.5705	0.0000	SURCHARGED
720 minute winter	Outlet	705	0.645	0.025	1.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0039-S	PN-0039-S	Lagoon outlet	31.5	1.048	0.876	1.3977	
15 minute summer	IC-0040-S	PN-0040-S	IC-0039-S	10.9	0.559	0.264	0.3447	
15 minute summer	IC-0041-S	PN-0041-S	IC-0040-S	7.3	0.683	0.180	0.3029	
15 minute summer	IC-0042-S	PN-0042-S	IC-0041-S	3.7	0.504	0.088	0.3167	
720 minute winter	Lagoon outlet	Lagoon Pipe	Outlet	1.7	0.854	0.060	0.0327	180.1

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0001-S	10	1.809	0.094	10.7	0.0149	0.0000	OK
15 minute summer	IC-0002-S	10	1.781	0.106	15.5	0.0168	0.0000	OK
15 minute summer	IC-0003-S	11	1.718	0.143	27.4	0.0228	0.0000	OK
15 minute summer	IC-0004-S	11	1.727	0.122	12.3	0.0194	0.0000	OK
15 minute summer	IC-0005-S	11	1.559	0.189	32.0	0.2142	0.0000	OK
15 minute summer	IC-0006-S	11	1.539	0.189	47.2	0.2143	0.0000	OK
15 minute summer	IC-0007-S	11	1.543	0.158	11.5	0.0252	0.0000	OK
15 minute summer	IC-0008-S	12	1.478	0.263	68.6	0.2979	0.0000	OK
15 minute summer	IC-0009-S	12	1.482	0.232	13.2	0.0370	0.0000	SURCHARGED
15 minute summer	IC-0010-S	12	1.392	0.292	77.9	0.3301	0.0000	OK
15 minute summer	IC-0011-S	12	1.378	0.313	87.1	0.3543	0.0000	OK
15 minute summer	IC-0021-S	13	1.458	0.358	30.7	0.0570	0.0000	SURCHARGED
15 minute summer	IC-0022-S	12	1.575	0.335	34.0	0.0532	0.0000	SURCHARGED
15 minute summer	IC-0023-S	12	1.576	0.306	8.6	0.0487	0.0000	SURCHARGED
15 minute summer	IC-0024-S	12	1.603	0.298	25.8	0.0474	0.0000	SURCHARGED
15 minute summer	IC-0025-S	12	1.605	0.280	9.0	0.0445	0.0000	SURCHARGED
15 minute summer	IC-0026-S	12	1.608	0.173	13.8	0.0276	0.0000	OK
15 minute summer	IC-0027-S	12	1.613	0.143	9.0	0.0228	0.0000	OK
15 minute summer	IC-0032-S	12	1.479	0.214	9.1	0.0607	0.0000	OK
15 minute summer	IC-0033-S	11	1.479	0.104	4.9	0.0294	0.0000	OK
15 minute summer	IC-0034-S	10	2.151	0.051	4.9	0.0081	0.0000	OK
15 minute summer	IC-0035-S	11	1.995	0.080	10.1	0.0127	0.0000	OK
15 minute summer	IC-0036-S	11	1.898	0.098	14.8	0.0155	0.0000	OK
15 minute summer	IC-0037-S	11	1.716	0.116	19.5	0.0184	0.0000	OK
15 minute summer	IC-0038-S	12	1.563	0.138	24.6	0.0220	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0001-S	PN-0001-S	IC-0002-S	10.6	0.624	0.291	0.1376	
15 minute summer	IC-0002-S	PN-0002-S	IC-0003-S	15.3	0.686	0.442	0.4999	
15 minute summer	IC-0003-S	PN-0003-S	IC-0005-S	27.3	0.873	0.749	1.2894	
15 minute summer	IC-0004-S	PN-0004-S	IC-0003-S	12.1	0.557	0.340	0.1539	
15 minute summer	IC-0005-S	PN-0005-S	IC-0006-S	31.6	0.677	0.485	0.2688	
15 minute summer	IC-0006-S	PN-0006-S	IC-0008-S	46.6	0.859	0.656	1.8158	
15 minute summer	IC-0007-S	PN-0007-S	IC-0006-S	11.0	0.448	0.297	0.2246	
15 minute summer	IC-0008-S	PN-0008-S	IC-0010-S	70.0	1.028	0.832	1.3534	
15 minute summer	IC-0009-S	PN-0009-S	IC-0008-S	12.2	0.497	0.320	0.2560	
15 minute summer	IC-0010-S	PN-0010-S	IC-0011-S	78.2	0.690	0.321	0.6972	
15 minute summer	IC-0011-S	PN-0011-S	Lagoon outlet	88.1	1.384	1.515	7.7846	
15 minute summer	IC-0021-S	PN-0021-S	Lagoon outlet	29.5	0.992	1.774	2.0106	
15 minute summer	IC-0022-S	PN-0022-S	IC-0021-S	30.7	0.858	0.854	1.1514	
15 minute summer	IC-0023-S	PN-0023-S	IC-0022-S	8.6	0.368	0.227	0.2230	
15 minute summer	IC-0024-S	PN-0024-S	IC-0022-S	22.2	0.741	0.611	0.5256	
15 minute summer	IC-0025-S	PN-0025-S	IC-0024-S	8.0	0.385	0.216	0.1552	
15 minute summer	IC-0026-S	PN-0026-S	IC-0024-S	13.6	0.581	0.375	0.9577	
15 minute summer	IC-0027-S	PN-0027-S	IC-0026-S	8.9	0.605	0.240	0.2022	
15 minute summer	IC-0032-S	PN-0032-S	IC-0008-S	11.2	0.249	0.161	0.7549	
15 minute summer	IC-0033-S	PN-0033-S	IC-0032-S	5.4	0.316	0.074	0.9250	
15 minute summer	IC-0034-S	PN-0034-S	IC-0035-S	4.8	0.503	0.115	0.2747	
15 minute summer	IC-0035-S	PN-0035-S	IC-0036-S	10.0	0.688	0.268	0.3230	
15 minute summer	IC-0036-S	PN-0036-S	IC-0037-S	14.8	0.801	0.395	0.7040	
15 minute summer	IC-0037-S	PN-0037-S	IC-0038-S	19.5	0.861	0.511	0.7288	
15 minute summer	IC-0038-S	PN-0038-S	IC-0039-S	23.5	0.761	0.539	0.4602	

Results for 10 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0039-S	12	1.541	0.216	39.6	0.0344	0.0000	OK
15 minute summer	IC-0040-S	12	1.546	0.121	14.3	0.0192	0.0000	OK
15 minute summer	IC-0041-S	11	1.674	0.074	9.7	0.0117	0.0000	OK
15 minute summer	IC-0042-S	10	1.926	0.051	4.9	0.0081	0.0000	OK
960 minute winter	Lagoon outlet	930	1.252	0.227	18.1	348.5264	0.0000	SURCHARGED
960 minute winter	Outlet	930	0.645	0.025	1.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0039-S	PN-0039-S	Lagoon outlet	38.4	1.083	1.068	1.6357	
15 minute summer	IC-0040-S	PN-0040-S	IC-0039-S	13.6	0.586	0.328	0.4779	
15 minute summer	IC-0041-S	PN-0041-S	IC-0040-S	9.6	0.723	0.234	0.4526	
15 minute summer	IC-0042-S	PN-0042-S	IC-0041-S	4.8	0.538	0.115	0.3827	
960 minute winter	Lagoon outlet	Lagoon Pipe	Outlet	1.7	0.860	0.061	0.0333	205.6

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0001-S	12	1.879	0.164	14.6	0.0261	0.0000	OK
15 minute summer	IC-0002-S	12	1.879	0.204	21.3	0.0324	0.0000	OK
15 minute summer	IC-0003-S	12	1.850	0.275	37.1	0.0438	0.0000	SURCHARGED
15 minute summer	IC-0004-S	12	1.857	0.252	16.9	0.0401	0.0000	SURCHARGED
15 minute summer	IC-0005-S	11	1.704	0.334	41.1	0.3779	0.0000	SURCHARGED
15 minute summer	IC-0006-S	11	1.693	0.343	60.3	0.3880	0.0000	SURCHARGED
15 minute summer	IC-0007-S	11	1.704	0.319	15.8	0.0507	0.0000	SURCHARGED
15 minute summer	IC-0008-S	12	1.601	0.386	85.7	0.4364	0.0000	SURCHARGED
15 minute summer	IC-0009-S	11	1.612	0.362	18.0	0.0575	0.0000	SURCHARGED
15 minute summer	IC-0010-S	12	1.439	0.339	98.1	0.3833	0.0000	OK
15 minute summer	IC-0011-S	12	1.422	0.357	112.3	0.4039	0.0000	OK
15 minute summer	IC-0021-S	13	1.671	0.571	41.8	0.0907	0.0000	SURCHARGED
15 minute summer	IC-0022-S	12	1.874	0.634	43.4	0.1009	0.0000	SURCHARGED
15 minute summer	IC-0023-S	12	1.877	0.607	11.8	0.0965	0.0000	SURCHARGED
15 minute summer	IC-0024-S	12	1.927	0.622	30.3	0.0989	0.0000	SURCHARGED
15 minute summer	IC-0025-S	12	1.929	0.604	12.4	0.0961	0.0000	SURCHARGED
15 minute summer	IC-0026-S	12	1.950	0.515	17.9	0.0818	0.0000	SURCHARGED
15 minute summer	IC-0027-S	12	1.953	0.483	12.4	0.0769	0.0000	SURCHARGED
15 minute summer	IC-0032-S	12	1.603	0.338	12.5	0.0958	0.0000	SURCHARGED
15 minute summer	IC-0033-S	12	1.606	0.231	9.7	0.0652	0.0000	OK
15 minute summer	IC-0034-S	10	2.160	0.060	6.8	0.0096	0.0000	OK
15 minute summer	IC-0035-S	10	2.011	0.096	14.0	0.0153	0.0000	OK
15 minute summer	IC-0036-S	11	1.919	0.119	20.4	0.0189	0.0000	OK
15 minute summer	IC-0037-S	12	1.773	0.173	26.9	0.0275	0.0000	OK
15 minute summer	IC-0038-S	12	1.724	0.299	32.2	0.0476	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0001-S	PN-0001-S	IC-0002-S	14.5	0.650	0.397	0.2785	
15 minute summer	IC-0002-S	PN-0002-S	IC-0003-S	20.8	0.717	0.601	0.8669	
15 minute summer	IC-0003-S	PN-0003-S	IC-0005-S	34.3	0.899	0.942	1.6442	
15 minute summer	IC-0004-S	PN-0004-S	IC-0003-S	16.3	0.602	0.457	0.2514	
15 minute summer	IC-0005-S	PN-0005-S	IC-0006-S	39.0	0.677	0.598	0.4039	
15 minute summer	IC-0006-S	PN-0006-S	IC-0008-S	55.2	0.872	0.776	2.2995	
15 minute summer	IC-0007-S	PN-0007-S	IC-0006-S	14.7	0.492	0.396	0.2726	
15 minute summer	IC-0008-S	PN-0008-S	IC-0010-S	85.9	1.221	1.022	1.4073	
15 minute summer	IC-0009-S	PN-0009-S	IC-0008-S	16.4	0.570	0.430	0.2560	
15 minute summer	IC-0010-S	PN-0010-S	IC-0011-S	97.3	0.749	0.400	0.8092	
15 minute summer	IC-0011-S	PN-0011-S	Lagoon outlet	112.4	1.436	1.932	9.2123	
15 minute summer	IC-0021-S	PN-0021-S	Lagoon outlet	39.3	1.185	2.362	2.2807	
15 minute summer	IC-0022-S	PN-0022-S	IC-0021-S	41.8	1.050	1.160	1.1514	
15 minute summer	IC-0023-S	PN-0023-S	IC-0022-S	10.7	0.402	0.283	0.2230	
15 minute summer	IC-0024-S	PN-0024-S	IC-0022-S	28.1	0.745	0.774	0.5256	
15 minute summer	IC-0025-S	PN-0025-S	IC-0024-S	9.7	0.418	0.261	0.1552	
15 minute summer	IC-0026-S	PN-0026-S	IC-0024-S	16.9	0.601	0.465	1.0492	
15 minute summer	IC-0027-S	PN-0027-S	IC-0026-S	11.5	0.646	0.309	0.2704	
15 minute summer	IC-0032-S	PN-0032-S	IC-0008-S	14.2	0.282	0.204	0.8903	
15 minute summer	IC-0033-S	PN-0033-S	IC-0032-S	7.6	0.320	0.104	1.6059	
15 minute summer	IC-0034-S	PN-0034-S	IC-0035-S	6.7	0.546	0.159	0.3500	
15 minute summer	IC-0035-S	PN-0035-S	IC-0036-S	13.8	0.739	0.370	0.4140	
15 minute summer	IC-0036-S	PN-0036-S	IC-0037-S	20.5	0.866	0.545	0.9923	
15 minute summer	IC-0037-S	PN-0037-S	IC-0038-S	24.9	0.877	0.652	1.1673	
15 minute summer	IC-0038-S	PN-0038-S	IC-0039-S	29.6	0.779	0.681	0.5649	

Results for 30 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0039-S	12	1.672	0.347	49.0	0.0551	0.0000	SURCHARGED
15 minute summer	IC-0040-S	12	1.688	0.263	19.7	0.0418	0.0000	SURCHARGED
15 minute summer	IC-0041-S	12	1.694	0.094	13.4	0.0150	0.0000	OK
15 minute summer	IC-0042-S	10	1.935	0.060	6.8	0.0096	0.0000	OK
960 minute summer	Lagoon outlet	960	1.310	0.285	35.8	471.9183	0.0000	SURCHARGED
960 minute summer	Outlet	960	0.645	0.025	1.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0039-S	PN-0039-S	Lagoon outlet	47.2	1.207	1.310	1.7228	
15 minute summer	IC-0040-S	PN-0040-S	IC-0039-S	15.4	0.604	0.371	0.6246	
15 minute summer	IC-0041-S	PN-0041-S	IC-0040-S	13.1	0.747	0.321	0.7803	
15 minute summer	IC-0042-S	PN-0042-S	IC-0041-S	6.6	0.592	0.159	0.4990	
960 minute summer	Lagoon outlet	Lagoon Pipe	Outlet	1.7	0.865	0.063	0.0337	215.5

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0001-S	12	2.419	0.704	19.8	0.1119	0.0000	FLOOD RISK
15 minute summer	IC-0002-S	12	2.407	0.732	26.9	0.1164	0.0000	FLOOD RISK
15 minute summer	IC-0003-S	12	2.354	0.779	42.5	0.1238	0.0000	FLOOD RISK
15 minute summer	IC-0004-S	12	2.367	0.762	22.8	0.1211	0.0000	FLOOD RISK
15 minute summer	IC-0005-S	12	2.057	0.687	48.0	0.7769	0.0000	SURCHARGED
15 minute summer	IC-0006-S	12	2.035	0.685	72.0	0.7743	0.0000	SURCHARGED
15 minute summer	IC-0007-S	12	2.045	0.660	21.3	0.1050	0.0000	SURCHARGED
15 minute summer	IC-0008-S	12	1.866	0.651	116.4	0.7357	0.0000	SURCHARGED
15 minute summer	IC-0009-S	12	1.880	0.630	24.3	0.1002	0.0000	SURCHARGED
15 minute summer	IC-0010-S	12	1.592	0.492	133.1	0.5562	0.0000	SURCHARGED
15 minute summer	IC-0011-S	12	1.566	0.501	152.2	0.5666	0.0000	SURCHARGED
15 minute summer	IC-0021-S	13	1.962	0.862	54.0	0.1371	0.0000	FLOOD RISK
15 minute summer	IC-0022-S	12	2.300	1.060	57.0	0.1685	0.0000	FLOOD RISK
15 minute summer	IC-0023-S	12	2.305	1.035	16.0	0.1646	0.0000	FLOOD RISK
15 minute summer	IC-0024-S	12	2.381	1.076	39.4	0.1711	0.0000	FLOOD RISK
15 minute summer	IC-0025-S	12	2.386	1.061	16.7	0.1687	0.0000	FLOOD RISK
15 minute summer	IC-0026-S	12	2.400	0.965	21.2	0.1534	0.2631	FLOOD
15 minute summer	IC-0027-S	12	2.404	0.934	16.7	0.1485	0.0000	FLOOD RISK
15 minute summer	IC-0032-S	12	1.869	0.604	22.0	0.1711	0.0000	SURCHARGED
15 minute summer	IC-0033-S	12	1.871	0.496	20.8	0.1402	0.0000	SURCHARGED
15 minute summer	IC-0034-S	10	2.170	0.070	9.1	0.0112	0.0000	OK
15 minute summer	IC-0035-S	13	2.067	0.152	18.9	0.0241	0.0000	OK
15 minute summer	IC-0036-S	13	2.048	0.248	27.7	0.0395	0.0000	SURCHARGED
15 minute summer	IC-0037-S	12	1.993	0.393	36.4	0.0624	0.0000	SURCHARGED
15 minute summer	IC-0038-S	12	1.923	0.498	35.9	0.0791	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0001-S	PN-0001-S	IC-0002-S	18.2	0.666	0.499	0.3215	
15 minute summer	IC-0002-S	PN-0002-S	IC-0003-S	24.6	0.729	0.711	0.8882	
15 minute summer	IC-0003-S	PN-0003-S	IC-0005-S	40.9	1.029	1.123	1.6442	
15 minute summer	IC-0004-S	PN-0004-S	IC-0003-S	18.9	0.689	0.531	0.2514	
15 minute summer	IC-0005-S	PN-0005-S	IC-0006-S	47.7	0.678	0.732	0.4039	
15 minute summer	IC-0006-S	PN-0006-S	IC-0008-S	72.1	1.024	1.013	2.2995	
15 minute summer	IC-0007-S	PN-0007-S	IC-0006-S	18.6	0.533	0.501	0.2726	
15 minute summer	IC-0008-S	PN-0008-S	IC-0010-S	115.0	1.633	1.368	1.4073	
15 minute summer	IC-0009-S	PN-0009-S	IC-0008-S	24.2	0.627	0.634	0.2560	
15 minute summer	IC-0010-S	PN-0010-S	IC-0011-S	131.9	0.841	0.542	0.9751	
15 minute summer	IC-0011-S	PN-0011-S	Lagoon outlet	138.1	1.433	2.374	11.5609	
15 minute summer	IC-0021-S	PN-0021-S	Lagoon outlet	49.8	1.405	2.994	2.5115	
15 minute summer	IC-0022-S	PN-0022-S	IC-0021-S	54.0	1.357	1.499	1.1514	
15 minute summer	IC-0023-S	PN-0023-S	IC-0022-S	13.8	0.440	0.365	0.2230	
15 minute summer	IC-0024-S	PN-0024-S	IC-0022-S	36.2	0.910	0.997	0.5256	
15 minute summer	IC-0025-S	PN-0025-S	IC-0024-S	13.0	0.456	0.350	0.1552	
15 minute summer	IC-0026-S	PN-0026-S	IC-0024-S	18.0	0.620	0.495	1.0492	
15 minute summer	IC-0027-S	PN-0027-S	IC-0026-S	12.7	0.669	0.343	0.2704	
15 minute summer	IC-0032-S	PN-0032-S	IC-0008-S	15.2	0.275	0.219	0.8903	
15 minute summer	IC-0033-S	PN-0033-S	IC-0032-S	-12.1	0.340	-0.164	1.7598	
15 minute summer	IC-0034-S	PN-0034-S	IC-0035-S	9.0	0.585	0.215	0.5300	
15 minute summer	IC-0035-S	PN-0035-S	IC-0036-S	19.0	0.787	0.509	0.7570	
15 minute summer	IC-0036-S	PN-0036-S	IC-0037-S	27.3	0.878	0.726	1.5090	
15 minute summer	IC-0037-S	PN-0037-S	IC-0038-S	26.5	0.887	0.693	1.2811	
15 minute summer	IC-0038-S	PN-0038-S	IC-0039-S	34.5	0.868	0.793	0.5649	

Results for 30 year +35% CC Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0039-S	12	1.857	0.532	57.5	0.0846	0.0000	SURCHARGED
15 minute summer	IC-0040-S	12	1.886	0.461	23.9	0.0733	0.0000	SURCHARGED
15 minute summer	IC-0041-S	12	1.903	0.303	18.0	0.0482	0.0000	SURCHARGED
15 minute summer	IC-0042-S	10	1.945	0.070	9.1	0.0112	0.0000	OK
1440 minute winter	Lagoon outlet	1410	1.396	0.371	23.0	660.9715	0.0000	SURCHARGED
180 minute summer	Outlet	176	0.645	0.025	1.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0039-S	PN-0039-S	Lagoon outlet	56.5	1.425	1.569	1.7786	
15 minute summer	IC-0040-S	PN-0040-S	IC-0039-S	19.2	0.627	0.464	0.6246	
15 minute summer	IC-0041-S	PN-0041-S	IC-0040-S	15.2	0.727	0.372	1.1172	
15 minute summer	IC-0042-S	PN-0042-S	IC-0041-S	8.9	0.631	0.214	1.0462	
1440 minute winter	Lagoon outlet	Lagoon Pipe	Outlet	1.7	0.865	0.063	0.0338	259.1

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0001-S	12	2.359	0.644	19.2	0.1025	0.0000	FLOOD RISK
15 minute summer	IC-0002-S	12	2.349	0.674	26.1	0.1072	0.0000	FLOOD RISK
15 minute summer	IC-0003-S	12	2.297	0.722	43.1	0.1149	0.0000	SURCHARGED
15 minute summer	IC-0004-S	12	2.310	0.705	22.2	0.1120	0.0000	FLOOD RISK
15 minute summer	IC-0005-S	12	2.011	0.641	47.0	0.7246	0.0000	SURCHARGED
15 minute summer	IC-0006-S	12	1.988	0.638	70.8	0.7217	0.0000	SURCHARGED
15 minute summer	IC-0007-S	12	1.999	0.614	20.7	0.0976	0.0000	SURCHARGED
15 minute summer	IC-0008-S	12	1.824	0.609	113.6	0.6884	0.0000	SURCHARGED
15 minute summer	IC-0009-S	12	1.837	0.587	23.6	0.0933	0.0000	SURCHARGED
15 minute summer	IC-0010-S	12	1.556	0.456	129.7	0.5157	0.0000	SURCHARGED
15 minute summer	IC-0011-S	13	1.535	0.470	148.4	0.5318	0.0000	SURCHARGED
15 minute summer	IC-0021-S	13	1.943	0.843	52.9	0.1341	0.0000	FLOOD RISK
15 minute summer	IC-0022-S	12	2.258	1.018	55.7	0.1619	0.0000	FLOOD RISK
15 minute summer	IC-0023-S	12	2.263	0.993	15.5	0.1579	0.0000	FLOOD RISK
15 minute summer	IC-0024-S	12	2.344	1.039	38.5	0.1652	0.0000	FLOOD RISK
15 minute summer	IC-0025-S	12	2.348	1.023	16.3	0.1627	0.0000	FLOOD RISK
15 minute summer	IC-0026-S	12	2.381	0.946	20.8	0.1505	0.0000	FLOOD RISK
15 minute summer	IC-0027-S	12	2.387	0.917	16.3	0.1458	0.0000	FLOOD RISK
15 minute summer	IC-0032-S	12	1.826	0.561	22.6	0.1588	0.0000	SURCHARGED
15 minute summer	IC-0033-S	12	1.827	0.452	18.5	0.1279	0.0000	SURCHARGED
15 minute summer	IC-0034-S	10	2.169	0.069	8.9	0.0110	0.0000	OK
15 minute summer	IC-0035-S	12	2.042	0.127	18.4	0.0202	0.0000	OK
15 minute summer	IC-0036-S	12	2.026	0.226	27.2	0.0359	0.0000	SURCHARGED
15 minute summer	IC-0037-S	12	1.986	0.386	35.7	0.0613	0.0000	SURCHARGED
15 minute summer	IC-0038-S	12	1.903	0.478	35.4	0.0761	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0001-S	PN-0001-S	IC-0002-S	17.6	0.662	0.484	0.3215	
15 minute summer	IC-0002-S	PN-0002-S	IC-0003-S	24.2	0.725	0.700	0.8882	
15 minute summer	IC-0003-S	PN-0003-S	IC-0005-S	40.1	1.010	1.101	1.6442	
15 minute summer	IC-0004-S	PN-0004-S	IC-0003-S	18.9	0.677	0.530	0.2514	
15 minute summer	IC-0005-S	PN-0005-S	IC-0006-S	47.4	0.673	0.726	0.4039	
15 minute summer	IC-0006-S	PN-0006-S	IC-0008-S	71.2	1.011	1.001	2.2995	
15 minute summer	IC-0007-S	PN-0007-S	IC-0006-S	18.1	0.533	0.489	0.2726	
15 minute summer	IC-0008-S	PN-0008-S	IC-0010-S	112.1	1.592	1.333	1.4073	
15 minute summer	IC-0009-S	PN-0009-S	IC-0008-S	23.2	0.613	0.607	0.2560	
15 minute summer	IC-0010-S	PN-0010-S	IC-0011-S	128.7	0.839	0.529	0.9750	
15 minute summer	IC-0011-S	PN-0011-S	Lagoon outlet	137.2	1.446	2.359	11.4389	
15 minute summer	IC-0021-S	PN-0021-S	Lagoon outlet	49.2	1.392	2.953	2.4921	
15 minute summer	IC-0022-S	PN-0022-S	IC-0021-S	52.9	1.330	1.470	1.1514	
15 minute summer	IC-0023-S	PN-0023-S	IC-0022-S	13.3	0.440	0.352	0.2230	
15 minute summer	IC-0024-S	PN-0024-S	IC-0022-S	35.8	0.900	0.986	0.5256	
15 minute summer	IC-0025-S	PN-0025-S	IC-0024-S	12.4	0.456	0.335	0.1552	
15 minute summer	IC-0026-S	PN-0026-S	IC-0024-S	18.0	0.620	0.494	1.0492	
15 minute summer	IC-0027-S	PN-0027-S	IC-0026-S	12.3	0.665	0.332	0.2704	
15 minute summer	IC-0032-S	PN-0032-S	IC-0008-S	15.0	0.277	0.215	0.8903	
15 minute summer	IC-0033-S	PN-0033-S	IC-0032-S	-10.0	0.341	-0.137	1.7598	
15 minute summer	IC-0034-S	PN-0034-S	IC-0035-S	8.8	0.580	0.210	0.4580	
15 minute summer	IC-0035-S	PN-0035-S	IC-0036-S	18.7	0.782	0.503	0.6979	
15 minute summer	IC-0036-S	PN-0036-S	IC-0037-S	26.8	0.872	0.713	1.5083	
15 minute summer	IC-0037-S	PN-0037-S	IC-0038-S	26.3	0.887	0.688	1.2811	
15 minute summer	IC-0038-S	PN-0038-S	IC-0039-S	34.9	0.876	0.801	0.5649	

Results for 100 year Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0039-S	12	1.831	0.506	57.7	0.0805	0.0000	SURCHARGED
15 minute summer	IC-0040-S	12	1.858	0.433	23.4	0.0688	0.0000	SURCHARGED
15 minute summer	IC-0041-S	12	1.878	0.278	17.6	0.0442	0.0000	SURCHARGED
15 minute summer	IC-0042-S	10	1.944	0.069	8.9	0.0110	0.0000	OK
1440 minute winter	Lagoon outlet	1410	1.397	0.372	23.1	662.3253	0.0000	SURCHARGED
240 minute summer	Outlet	220	0.645	0.025	1.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0039-S	PN-0039-S	Lagoon outlet	55.1	1.393	1.531	1.7716	
15 minute summer	IC-0040-S	PN-0040-S	IC-0039-S	18.8	0.626	0.454	0.6246	
15 minute summer	IC-0041-S	PN-0041-S	IC-0040-S	14.9	0.744	0.363	1.1172	
15 minute summer	IC-0042-S	PN-0042-S	IC-0041-S	8.7	0.626	0.209	1.0431	
1440 minute winter	Lagoon outlet	Lagoon Pipe	Outlet	1.7	0.865	0.063	0.0338	259.1

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0001-S	10	2.620	0.905	26.9	0.1439	3.0266	FLOOD
15 minute summer	IC-0002-S	10	2.620	0.945	29.4	0.1503	0.2596	FLOOD
15 minute summer	IC-0003-S	11	2.594	1.019	47.1	0.1621	0.0000	FLOOD RISK
15 minute summer	IC-0004-S	10	2.600	0.995	30.9	0.1582	2.2305	FLOOD
15 minute summer	IC-0005-S	11	2.449	1.079	53.5	1.2206	0.0000	FLOOD RISK
15 minute summer	IC-0006-S	11	2.434	1.084	83.7	1.2261	0.0000	FLOOD RISK
15 minute summer	IC-0007-S	11	2.464	1.079	28.9	0.1715	0.0000	FLOOD RISK
15 minute summer	IC-0008-S	11	2.240	1.025	140.9	1.1595	0.0000	FLOOD RISK
15 minute summer	IC-0009-S	11	2.280	1.030	33.0	0.1637	0.0000	FLOOD RISK
15 minute summer	IC-0010-S	12	1.830	0.730	163.9	0.8258	0.0000	SURCHARGED
15 minute summer	IC-0011-S	12	1.791	0.726	190.0	0.8213	0.0000	SURCHARGED
15 minute summer	IC-0021-S	12	2.019	0.919	61.4	0.1461	0.0000	FLOOD RISK
15 minute summer	IC-0022-S	11	2.372	1.132	62.5	0.1799	0.0000	FLOOD RISK
15 minute summer	IC-0023-S	11	2.387	1.117	21.7	0.1777	0.0000	FLOOD RISK
15 minute summer	IC-0024-S	10	2.400	1.095	43.3	0.1741	0.1325	FLOOD
15 minute summer	IC-0025-S	10	2.400	1.075	22.8	0.1709	2.4240	FLOOD
15 minute summer	IC-0026-S	10	2.400	0.965	34.7	0.1534	4.8579	FLOOD
15 minute summer	IC-0027-S	11	2.420	0.950	22.8	0.1510	0.0000	FLOOD RISK
15 minute summer	IC-0032-S	11	2.250	0.985	22.6	0.2787	0.0000	FLOOD RISK
15 minute summer	IC-0033-S	11	2.253	0.878	14.2	0.2484	0.0000	FLOOD RISK
15 minute summer	IC-0034-S	13	2.634	0.534	12.4	0.0850	0.0000	FLOOD RISK
15 minute summer	IC-0035-S	13	2.627	0.712	25.6	0.1133	0.0000	FLOOD RISK
15 minute summer	IC-0036-S	13	2.601	0.801	33.7	0.1273	0.0000	FLOOD RISK
15 minute summer	IC-0037-S	12	2.506	0.906	43.7	0.1441	0.0000	FLOOD RISK
15 minute summer	IC-0038-S	12	2.377	0.952	42.0	0.1513	0.0000	SURCHARGED

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0001-S	PN-0001-S	IC-0002-S	19.6	0.687	0.539	0.3215	
15 minute summer	IC-0002-S	PN-0002-S	IC-0003-S	25.5	0.744	0.736	0.8882	
15 minute summer	IC-0003-S	PN-0003-S	IC-0005-S	41.5	1.045	1.140	1.6442	
15 minute summer	IC-0004-S	PN-0004-S	IC-0003-S	21.6	0.746	0.607	0.2514	
15 minute summer	IC-0005-S	PN-0005-S	IC-0006-S	50.3	0.715	0.771	0.4039	
15 minute summer	IC-0006-S	PN-0006-S	IC-0008-S	78.1	1.109	1.098	2.2995	
15 minute summer	IC-0007-S	PN-0007-S	IC-0006-S	26.3	0.661	0.710	0.2726	
15 minute summer	IC-0008-S	PN-0008-S	IC-0010-S	139.3	1.978	1.656	1.4073	
15 minute summer	IC-0009-S	PN-0009-S	IC-0008-S	32.1	0.806	0.839	0.2560	
15 minute summer	IC-0010-S	PN-0010-S	IC-0011-S	162.5	1.025	0.668	0.9751	
15 minute summer	IC-0011-S	PN-0011-S	Lagoon outlet	184.7	1.548	3.175	12.5816	
15 minute summer	IC-0021-S	PN-0021-S	Lagoon outlet	52.6	1.449	3.161	2.7349	
15 minute summer	IC-0022-S	PN-0022-S	IC-0021-S	61.4	1.545	1.707	1.1514	
15 minute summer	IC-0023-S	PN-0023-S	IC-0022-S	20.7	0.520	0.545	0.2230	
15 minute summer	IC-0024-S	PN-0024-S	IC-0022-S	36.0	0.904	0.990	0.5256	
15 minute summer	IC-0025-S	PN-0025-S	IC-0024-S	16.0	0.485	0.433	0.1552	
15 minute summer	IC-0026-S	PN-0026-S	IC-0024-S	17.4	0.608	0.480	1.0492	
15 minute summer	IC-0027-S	PN-0027-S	IC-0026-S	22.3	0.644	0.600	0.2704	
15 minute summer	IC-0032-S	PN-0032-S	IC-0008-S	21.9	0.311	0.315	0.8903	
15 minute summer	IC-0033-S	PN-0033-S	IC-0032-S	11.0	0.346	0.149	1.7598	
15 minute summer	IC-0034-S	PN-0034-S	IC-0035-S	12.3	0.617	0.293	1.1282	
15 minute summer	IC-0035-S	PN-0035-S	IC-0036-S	22.0	0.813	0.589	0.8824	
15 minute summer	IC-0036-S	PN-0036-S	IC-0037-S	31.9	0.885	0.849	1.5090	
15 minute summer	IC-0037-S	PN-0037-S	IC-0038-S	31.7	0.876	0.830	1.2811	
15 minute summer	IC-0038-S	PN-0038-S	IC-0039-S	39.6	0.997	0.911	0.5649	

Results for 100 year +40% CC Critical Storm Duration. Lowest mass balance: 99.42%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
15 minute summer	IC-0039-S	12	2.265	0.940	72.3	0.1495	0.0000	FLOOD RISK
15 minute summer	IC-0040-S	12	2.307	0.882	24.9	0.1403	0.0000	FLOOD RISK
15 minute summer	IC-0041-S	12	2.330	0.730	23.5	0.1161	0.0000	FLOOD RISK
15 minute summer	IC-0042-S	13	2.333	0.458	12.4	0.0729	0.0000	FLOOD RISK
2160 minute winter	Lagoon outlet	2100	1.533	0.508	22.4	978.0345	0.0000	SURCHARGED
60 minute summer	Outlet	55	0.645	0.025	1.7	0.0000	0.0000	OK

Link Event (Upstream Depth)	US Node	Link	DS Node	Outflow (l/s)	Velocity (m/s)	Flow/Cap	Link Vol (m³)	Discharge Vol (m³)
15 minute summer	IC-0039-S	PN-0039-S	Lagoon outlet	71.2	1.791	1.980	1.8234	
15 minute summer	IC-0040-S	PN-0040-S	IC-0039-S	24.1	0.606	0.582	0.6246	
15 minute summer	IC-0041-S	PN-0041-S	IC-0040-S	17.9	0.768	0.436	1.1172	
15 minute summer	IC-0042-S	PN-0042-S	IC-0041-S	11.1	0.653	0.267	1.6921	
2160 minute winter	Lagoon outlet	Lagoon Pipe	Outlet	1.7	0.865	0.063	0.0338	312.6