Design Settings

Rainfall Methodology	FEH-22	Maximum Time of Concentration (mins)	30.00	Preferred Cover Depth (m)	1.200
Return Period (years)	2	Maximum Rainfall (mm/hr)	550.0	Include Intermediate Ground	✓
Additional Flow (%)	0	Minimum Velocity (m/s)	1.00	Enforce best practice design rules	✓
CV	0.950	Connection Type	Level Soffits		
Time of Entry (mins)	5.00	Minimum Backdrop Height (m)	0.200		

Nodes

	Name	Area (ha)	T of E (mins)	Cover Level (m)	Node Type	Manhole Type	Diameter (mm)	Easting (m)	Northing (m)	Depth (m)	Notes
✓	S1	0.091	5.00	93.961	Manhole	Adoptable	1350	566518.617	246891.942	1.425	
✓	S2	0.043	5.00	95.433	Manhole	Adoptable	1350	566519.615	246925.690	3.174	
✓	S3	0.066	5.00	94.768	Manhole	Adoptable	1350	566468.219	246926.706	1.425	
✓	S4	0.049	5.00	95.188	Manhole	Adoptable	1500	566478.598	246930.421	1.911	
✓	S5	0.028	5.00	95.675	Manhole	Adoptable	1500	566518.601	246938.745	3.644	
✓	S6	0.101	5.00	95.391	Manhole	Adoptable	1500	566549.396	246941.137	3.462	
✓	S7	0.049	5.00	93.436	Manhole	Adoptable	1500	566605.326	246944.194	1.691	
✓	S8	0.000		93.393	Manhole	Adoptable	1500	566613.641	246947.644	1.678	
✓	PS1	0.077	5.00	95.030	Manhole	Adoptable	1500	566667.031	247023.636	1.575	
✓	PS2-FC	0.000		95.675	Manhole	Adoptable	150	566625.564	247009.137	2.365	Auto-design is off
✓	S9	0.019	5.00	95.611	Manhole	Adoptable	1350	566612.842	247000.642	2.483	
✓	S10	0.042	5.00	95.733	Manhole	Adoptable	1350	566600.204	246992.203	2.696	
✓	S11	0.048	5.00	94.139	Manhole	Adoptable	1350	566618.169	246965.299	1.425	
✓	S12	0.008	5.00	93.666	Manhole	Adoptable	1500	566618.573	246955.179	1.981	
✓	HW1	0.000	5.00	92.500	Manhole	Adoptable	1200	566639.838	246956.028	1.850	Auto-design is off
✓	HW2	0.000	5.00	92.500	Manhole	Adoptable	1200	566646.851	246955.931	2.000	Auto-design is off
✓	S13	0.000	5.00	92.500	Manhole	Adoptable	1200	566648.076	246947.925	2.054	Auto-design is off
✓	S14-HB	0.000	5.00	92.950	Manhole	Adoptable	2100	566631.732	246944.297	2.616	Auto-design is off
✓	EX SW MH	0.000	5.00	91.550	Manhole	Adoptable	1200	566633.482	246929.847	1.750	

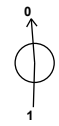
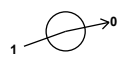
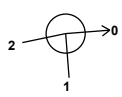
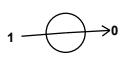
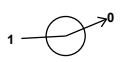
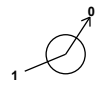
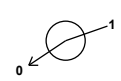
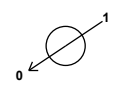
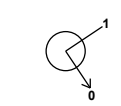
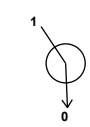
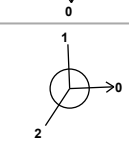
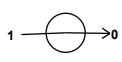
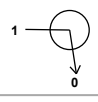
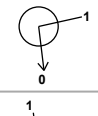
Pipeline Schedule

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)
1.000	33.763	167.0	225	Circular	93.961	92.536	1.200	95.433	92.334	2.874
1.001	13.094	167.0	300	Circular	95.433	92.259	2.874	95.675	92.181	3.194
2.000	11.024	167.0	225	Circular	94.768	93.343	1.200	95.188	93.277	1.686
2.001	40.860	40.0	225	Circular	95.188	93.277	1.686	95.675	92.256	3.194
1.002	30.888	302.8	450	Circular	95.675	92.031	3.194	95.391	91.929	3.012
1.003	56.013	305.0	450	Circular	95.391	91.929	3.012	93.436	91.745	1.241
1.004	9.002	305.0	450	Circular	93.436	91.745	1.241	93.393	91.715	1.228
1.005	9.006	305.0	450	Circular	93.393	91.715	1.228	93.666	91.685	1.531
3.000	43.929	303.0	375	Circular	95.030	93.455	1.200	95.675	93.310	1.990
3.001	15.298	143.0	150	Circular	95.675	93.310	2.215	95.611	93.203	2.258
3.002	15.197	167.0	225	Circular	95.611	93.128	2.258	95.733	93.037	2.471
3.003	32.351	100.2	225	Circular	95.733	93.037	2.471	94.139	92.714	1.200
3.004	10.128	12.6	225	Circular	94.139	92.714	1.200	93.666	91.910	1.531
1.006	21.282	20.6	450	Circular	93.666	91.685	1.531	92.500	90.650	1.400
1.007	7.014	46.8	900	Circular	92.500	90.650	0.950	92.500	90.500	1.100
1.008	8.099	150.0	150	Circular	92.500	90.500	1.850	92.500	90.446	1.904
1.009	16.742	149.5	150	Circular	92.500	90.446	1.904	92.950	90.334	2.466
1.010	14.556	27.3	150	Circular	92.950	90.334	2.466	91.550	89.800	1.600

Link	US Node	Dia (mm)	Node Type	MH Type	DS Node	Dia (mm)	Node Type	MH Type
1.000	S1	1350	Manhole	Adoptable	S2	1350	Manhole	Adoptable
1.001	S2	1350	Manhole	Adoptable	S5	1500	Manhole	Adoptable
2.000	S3	1350	Manhole	Adoptable	S4	1500	Manhole	Adoptable
2.001	S4	1500	Manhole	Adoptable	S5	1500	Manhole	Adoptable
1.002	S5	1500	Manhole	Adoptable	S6	1500	Manhole	Adoptable
1.003	S6	1500	Manhole	Adoptable	S7	1500	Manhole	Adoptable
1.004	S7	1500	Manhole	Adoptable	S8	1500	Manhole	Adoptable
1.005	S8	1500	Manhole	Adoptable	S12	1500	Manhole	Adoptable
3.000	PS1	1500	Manhole	Adoptable	PS2-FC	150	Manhole	Adoptable
3.001	PS2-FC	150	Manhole	Adoptable	S9	1350	Manhole	Adoptable
3.002	S9	1350	Manhole	Adoptable	S10	1350	Manhole	Adoptable
3.003	S10	1350	Manhole	Adoptable	S11	1350	Manhole	Adoptable
3.004	S11	1350	Manhole	Adoptable	S12	1500	Manhole	Adoptable
1.006	S12	1500	Manhole	Adoptable	HW1	1200	Manhole	Adoptable
1.007	HW1	1200	Manhole	Adoptable	HW2	1200	Manhole	Adoptable
1.008	HW2	1200	Manhole	Adoptable	S13	1200	Manhole	Adoptable
1.009	S13	1200	Manhole	Adoptable	S14-HB	2100	Manhole	Adoptable
1.010	S14-HB	2100	Manhole	Adoptable	EX SW MH	1200	Manhole	Adoptable

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Manhole Schedule

Node	Easting (m)	Northing (m)	CL (m)	Depth (m)	Dia (mm)	Node Type	MH Type	Connections	Link	IL (m)	Dia (mm)	Link Type
S1	566518.617	246891.942	93.961	1.425	1350	Manhole	Adoptable		0	1.000	92.536	225	Circular
S2	566519.615	246925.690	95.433	3.174	1350	Manhole	Adoptable		1	1.000	92.334	225	Circular
									0	1.001	92.259	300	Circular
S3	566468.219	246926.706	94.768	1.425	1350	Manhole	Adoptable		0	2.000	93.343	225	Circular
S4	566478.598	246930.421	95.188	1.911	1500	Manhole	Adoptable		1	2.000	93.277	225	Circular
									0	2.001	93.277	225	Circular
S5	566518.601	246938.745	95.675	3.644	1500	Manhole	Adoptable		1	1.001	92.181	300	Circular
									2	2.001	92.256	225	Circular
									0	1.002	92.031	450	Circular
S6	566549.396	246941.137	95.391	3.462	1500	Manhole	Adoptable		1	1.002	91.929	450	Circular
									0	1.003	91.929	450	Circular
S7	566605.326	246944.194	93.436	1.691	1500	Manhole	Adoptable		1	1.003	91.745	450	Circular
									0	1.004	91.745	450	Circular
S8	566613.641	246947.644	93.393	1.678	1500	Manhole	Adoptable		1	1.004	91.715	450	Circular
									0	1.005	91.715	450	Circular
PS1	566667.031	247023.636	95.030	1.575	1500	Manhole	Adoptable		0	3.000	93.455	375	Circular
PS2-FC	566625.564	247009.137	95.675	2.365	150	Manhole	Adoptable		1	3.000	93.310	375	Circular
									0	3.001	93.310	150	Circular
S9	566612.842	247000.642	95.611	2.483	1350	Manhole	Adoptable		1	3.001	93.203	150	Circular
									0	3.002	93.128	225	Circular
S10	566600.204	246992.203	95.733	2.696	1350	Manhole	Adoptable		1	3.002	93.037	225	Circular
									0	3.003	93.037	225	Circular
S11	566618.169	246965.299	94.139	1.425	1350	Manhole	Adoptable		1	3.003	92.714	225	Circular
									0	3.004	92.714	225	Circular
S12	566618.573	246955.179	93.666	1.981	1500	Manhole	Adoptable		1	3.004	91.910	225	Circular
									2	1.005	91.685	450	Circular
									0	1.006	91.685	450	Circular
HW1	566639.838	246956.028	92.500	1.850	1200	Manhole	Adoptable		1	1.006	90.650	450	Circular
									0	1.007	90.650	900	Circular
HW2	566646.851	246955.931	92.500	2.000	1200	Manhole	Adoptable		1	1.007	90.500	900	Circular
									0	1.008	90.500	150	Circular
S13	566648.076	246947.925	92.500	2.054	1200	Manhole	Adoptable		1	1.008	90.446	150	Circular
									0	1.009	90.446	150	Circular
S14-HB	566631.732	246944.297	92.950	2.616	2100	Manhole	Adoptable		1	1.009	90.334	150	Circular
									0	1.010	90.334	150	Circular
EX SW MH	566633.482	246929.847	91.550	1.750	1200	Manhole	Adoptable		1	1.010	89.800	150	Circular

Simulation Settings

Rainfall Methodology	FEH-22	Winter CV	0.950	Drain Down Time (mins)	240	Check Discharge Rate(s)	x
Rainfall Events	Singular	Analysis Speed	Detailed	Additional Storage (m³/ha)	20.0	Check Discharge Volume	x
Summer CV	0.950	Skip Steady State	x	Starting Level (m)			

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Storm Durations

60	120	180	240	360	480	600	720	960	1440

Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)	Return Period (years)	Climate Change (CC %)	Additional Area (A %)	Additional Flow (Q %)
2	0	0	0	100	0	0	0
30	0	0	0	100	45	0	0

Node S14-HB Online Hydro-Brake® Control

Flap Valve	x	Objective	(HE) Minimise upstream storage
Replaces Downstream Link	x	Sump Available	✓
Invert Level (m)	90.334	Product Number	CTL-SHE-0093-5000-1875-5000
Design Depth (m)	1.875	Min Outlet Diameter (m)	0.150
Design Flow (l/s)	5.0	Min Node Diameter (mm)	1200

Node PS2-FC Online Orifice Control

Flap Valve	x	Invert Level (m)	93.310	Discharge Coefficient	0.600
Replaces Downstream Link	x	Diameter (m)	0.030		

Node HW2 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	90.500
Side Inf Coefficient (m/hr)	0.00000	Porosity	1.00	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)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	22.6	22.6	0.950	195.5	198.4	1.000	269.4	272.3	1.700	547.3	554.6	2.000	681.6	691.4

Node PS1 Depth/Area Storage Structure

Base Inf Coefficient (m/hr)	0.00000	Safety Factor	2.0	Invert Level (m)	94.400
Side Inf Coefficient (m/hr)	0.00000	Porosity	0.30	Time to half empty (mins)	148

Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)	Depth (m)	Area (m²)	Inf Area (m²)
0.000	300.0	0.0	0.400	300.0	0.0	0.401	0.0	0.0

Rainfall

Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)	Event	Peak Intensity (mm/hr)	Average Intensity (mm/hr)
2 year 60 minute summer	40.806	10.784	100 year 60 minute summer	154.066	40.715
2 year 60 minute winter	27.111	10.784	100 year 60 minute winter	102.358	40.715
2 year 120 minute summer	30.399	8.034	100 year 120 minute summer	94.651	25.014
2 year 120 minute winter	20.197	8.034	100 year 120 minute winter	62.884	25.014
2 year 180 minute summer	24.981	6.428	100 year 180 minute summer	72.178	18.574
2 year 180 minute winter	16.238	6.428	100 year 180 minute winter	46.917	18.574
2 year 240 minute summer	20.353	5.379	100 year 240 minute summer	56.425	14.912
2 year 240 minute winter	13.522	5.379	100 year 240 minute winter	37.488	14.912
2 year 360 minute summer	15.813	4.069	100 year 360 minute summer	41.890	10.780
2 year 360 minute winter	10.279	4.069	100 year 360 minute winter	27.229	10.780
2 year 480 minute summer	12.420	3.282	100 year 480 minute summer	32.143	8.495
2 year 480 minute winter	8.252	3.282	100 year 480 minute winter	21.355	8.495
2 year 600 minute summer	10.097	2.762	100 year 600 minute summer	25.733	7.039
2 year 600 minute winter	6.899	2.762	100 year 600 minute winter	17.582	7.039
2 year 720 minute summer	8.923	2.392	100 year 720 minute summer	22.483	6.026
2 year 720 minute winter	5.997	2.392	100 year 720 minute winter	15.110	6.026
2 year 960 minute summer	7.212	1.899	100 year 960 minute summer	17.870	4.706
2 year 960 minute winter	4.777	1.899	100 year 960 minute winter	11.837	4.706
2 year 1440 minute summer	5.112	1.370	100 year 1440 minute summer	12.327	3.304
2 year 1440 minute winter	3.436	1.370	100 year 1440 minute winter	8.285	3.304
30 year 60 minute summer	119.852	31.673	100 year +45% CC 60 minute summer	223.396	59.037
30 year 60 minute winter	79.627	31.673	100 year +45% CC 60 minute winter	148.419	59.037
30 year 120 minute summer	75.955	20.073	100 year +45% CC 120 minute summer	137.244	36.270
30 year 120 minute winter	50.463	20.073	100 year +45% CC 120 minute winter	91.182	36.270
30 year 180 minute summer	58.349	15.015	100 year +45% CC 180 minute summer	104.658	26.932
30 year 180 minute winter	37.928	15.015	100 year +45% CC 180 minute winter	68.030	26.932
30 year 240 minute summer	45.755	12.092	100 year +45% CC 240 minute summer	81.817	21.622
30 year 240 minute winter	30.399	12.092	100 year +45% CC 240 minute winter	54.357	21.622
30 year 360 minute summer	34.098	8.775	100 year +45% CC 360 minute summer	60.740	15.631
30 year 360 minute winter	22.165	8.775	100 year +45% CC 360 minute winter	39.483	15.631
30 year 480 minute summer	26.208	6.926	100 year +45% CC 480 minute summer	46.608	12.317
30 year 480 minute winter	17.412	6.926	100 year +45% CC 480 minute winter	30.965	12.317
30 year 600 minute summer	20.997	5.743	100 year +45% CC 600 minute summer	37.313	10.206
30 year 600 minute winter	14.347	5.743	100 year +45% CC 600 minute winter	25.494	10.206
30 year 720 minute summer	18.352	4.918	100 year +45% CC 720 minute summer	32.601	8.737
30 year 720 minute winter	12.334	4.918	100 year +45% CC 720 minute winter	21.910	8.737
30 year 960 minute summer	14.579	3.839	100 year +45% CC 960 minute summer	25.911	6.823
30 year 960 minute winter	9.658	3.839	100 year +45% CC 960 minute winter	17.164	6.823
30 year 1440 minute summer	10.097	2.706	100 year +45% CC 1440 minute summer	17.875	4.791
30 year 1440 minute winter	6.786	2.706	100 year +45% CC 1440 minute winter	12.013	4.791

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Results for 2 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
60 minute summer	S1	33	92.608	0.072	8.8	0.1964	0.0000	OK
60 minute summer	S2	33	92.341	0.082	12.9	0.1404	0.0000	OK
60 minute summer	S3	33	93.406	0.063	6.4	0.1491	0.0000	OK
60 minute summer	S4	33	93.333	0.056	11.1	0.1284	0.0000	OK
60 minute summer	S5	33	92.148	0.117	26.6	0.2248	0.0000	OK
60 minute summer	S6	34	92.063	0.134	36.3	0.3149	0.0000	OK
60 minute summer	S7	34	91.899	0.154	40.7	0.3609	0.0000	OK
60 minute summer	S8	35	91.853	0.138	40.3	0.2444	0.0000	OK
180 minute summer	PS1	116	94.006	0.551	4.7	1.5133	0.0000	SURCHARGED
180 minute summer	PS2-FC	116	94.006	0.696	2.9	0.0125	0.0000	SURCHARGED
60 minute summer	S9	33	93.168	0.040	2.8	0.0627	0.0000	OK
60 minute summer	S10	33	93.095	0.058	6.8	0.1004	0.0000	OK
60 minute summer	S11	33	92.758	0.044	11.4	0.0929	0.0000	OK
60 minute summer	S12	34	91.766	0.081	52.1	0.1497	0.0000	OK
240 minute summer	HW1	244	91.216	0.566	80.5	0.6398	0.0000	OK
240 minute summer	HW2	240	91.214	0.714	68.8	63.3572	0.0000	SURCHARGED
240 minute summer	S13	236	91.210	0.764	5.6	0.8639	0.0000	SURCHARGED
240 minute summer	S14-HB	236	91.202	0.868	5.4	3.0068	0.0000	SURCHARGED
60 minute summer	EX SW MH	34	89.836	0.036	4.3	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)
60 minute summer	S1	1.000	S2	8.7	0.804	0.217	0.3663	
60 minute summer	S2	1.001	S5	12.9	0.852	0.150	0.1977	
60 minute summer	S3	2.000	S4	6.4	0.759	0.160	0.0931	
60 minute summer	S4	2.001	S5	11.1	1.441	0.134	0.3133	
60 minute summer	S5	1.002	S6	26.5	0.736	0.143	1.1116	
60 minute summer	S6	1.003	S7	36.2	0.830	0.197	2.4456	
60 minute summer	S7	1.004	S8	40.3	0.905	0.219	0.4010	
60 minute summer	S8	1.005	S12	40.2	1.348	0.218	0.2730	
180 minute summer	PS1	3.000	PS2-FC	2.9	0.242	0.026	4.8452	
180 minute summer	PS2-FC	3.001	S9	1.5	0.539	0.103	0.0434	
60 minute summer	S9	3.002	S10	2.7	0.451	0.068	0.0964	
60 minute summer	S10	3.003	S11	6.8	1.013	0.131	0.2180	
60 minute summer	S11	3.004	S12	11.4	2.144	0.077	0.0537	
60 minute summer	S12	1.006	HW1	51.9	2.388	0.073	1.5707	
240 minute summer	HW1	1.007	HW2	68.8	0.770	0.024	3.3631	
240 minute summer	HW2	1.008	S13	5.6	0.665	0.385	0.1426	
240 minute summer	S13	1.009	S14-HB	5.4	0.452	0.374	0.2947	
240 minute summer	S14-HB	1.010	EX SW MH	4.3	1.306	0.126	0.0481	104.4

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Results for 30 year Critical Storm Duration. Lowest mass balance: 99.53%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S1	33	92.672	0.136	25.8	0.3675	0.0000	OK
60 minute summer	S2	33	92.410	0.151	37.9	0.2572	0.0000	OK
60 minute summer	S3	33	93.458	0.115	18.7	0.2703	0.0000	OK
60 minute summer	S4	33	93.378	0.101	32.6	0.2299	0.0000	OK
60 minute summer	S5	33	92.254	0.223	78.3	0.4281	0.0000	OK
60 minute summer	S6	33	92.182	0.253	106.7	0.5959	0.0000	OK
60 minute summer	S7	34	92.032	0.287	119.2	0.6729	0.0000	OK
60 minute summer	S8	34	91.963	0.248	119.5	0.4386	0.0000	OK
120 minute summer	PS1	96	94.522	1.067	14.8	13.9711	0.0000	SURCHARGED
120 minute summer	PS2-FC	98	94.521	1.211	4.9	0.0218	0.0000	SURCHARGED
60 minute summer	S9	33	93.193	0.065	7.3	0.1025	0.0000	OK
60 minute summer	S10	33	93.137	0.100	19.2	0.1737	0.0000	OK
60 minute summer	S11	33	92.792	0.078	32.8	0.1647	0.0000	OK
60 minute summer	S12	34	91.824	0.139	154.2	0.2568	0.0000	OK
360 minute winter	HW1	360	91.764	1.114	50.0	1.2595	0.0000	SURCHARGED
360 minute winter	HW2	360	91.764	1.264	55.6	201.4556	0.0000	SURCHARGED
360 minute winter	S13	360	91.757	1.311	5.2	1.4826	0.0000	SURCHARGED
360 minute winter	S14-HB	360	91.745	1.411	4.9	4.8864	0.0000	SURCHARGED
360 minute winter	EX SW MH	360	89.836	0.036	4.3	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)
60 minute summer	S1	1.000	S2	25.7	1.057	0.641	0.8216	
60 minute summer	S2	1.001	S5	37.9	1.127	0.441	0.4398	
60 minute summer	S3	2.000	S4	18.7	0.996	0.466	0.2069	
60 minute summer	S4	2.001	S5	32.6	1.931	0.395	0.6891	
60 minute summer	S5	1.002	S6	78.0	0.917	0.422	2.6292	
60 minute summer	S6	1.003	S7	106.0	1.068	0.575	5.5592	
60 minute summer	S7	1.004	S8	119.5	1.217	0.648	0.8831	
60 minute summer	S8	1.005	S12	119.1	1.859	0.646	0.5908	
120 minute summer	PS1	3.000	PS2-FC	4.9	0.323	0.043	4.8452	
120 minute summer	PS2-FC	3.001	S9	2.0	0.584	0.137	0.0534	
60 minute summer	S9	3.002	S10	7.3	0.560	0.183	0.2004	
60 minute summer	S10	3.003	S11	19.2	1.319	0.370	0.4726	
60 minute summer	S11	3.004	S12	32.8	2.834	0.223	0.1173	
60 minute summer	S12	1.006	HW1	152.9	2.069	0.214	2.1283	
360 minute winter	HW1	1.007	HW2	55.6	0.783	0.019	4.4453	
360 minute winter	HW2	1.008	S13	5.2	0.707	0.362	0.1426	
360 minute winter	S13	1.009	S14-HB	4.9	0.465	0.341	0.2947	
360 minute winter	S14-HB	1.010	EX SW MH	4.3	1.307	0.127	0.0483	143.6

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Results for 100 year Critical Storm Duration. Lowest mass balance: 99.51%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S1	33	92.699	0.163	33.2	0.4417	0.0000	OK
60 minute summer	S2	33	92.436	0.177	48.8	0.3007	0.0000	OK
60 minute summer	S3	33	93.477	0.134	24.1	0.3162	0.0000	OK
60 minute summer	S4	33	93.394	0.117	42.0	0.2675	0.0000	OK
60 minute summer	S5	33	92.299	0.268	100.8	0.5142	0.0000	OK
60 minute summer	S6	34	92.234	0.305	137.2	0.7160	0.0000	OK
60 minute summer	S7	34	92.079	0.334	153.1	0.7834	0.0000	OK
60 minute summer	S8	34	91.997	0.282	151.9	0.4981	0.0000	OK
120 minute summer	PS1	104	94.588	1.133	18.4	20.0661	0.0000	SURCHARGED
120 minute winter	PS2-FC	114	94.588	1.278	4.3	0.0230	0.0000	SURCHARGED
60 minute summer	S9	33	93.199	0.071	8.9	0.1130	0.0000	OK
60 minute summer	S10	33	93.151	0.114	24.2	0.1980	0.0000	OK
60 minute summer	S11	33	92.804	0.090	41.7	0.1893	0.0000	OK
360 minute winter	S12	360	91.902	0.217	40.4	0.4018	0.0000	OK
360 minute winter	HW1	360	91.903	1.253	42.9	1.4166	0.0000	SURCHARGED
360 minute winter	HW2	360	91.903	1.403	54.3	257.4064	0.0000	SURCHARGED
360 minute winter	S13	360	91.895	1.449	5.5	1.6390	0.0000	SURCHARGED
360 minute winter	S14-HB	360	91.882	1.548	4.9	5.3615	0.0000	SURCHARGED
360 minute winter	EX SW MH	360	89.837	0.037	4.5	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)
60 minute summer	S1	1.000	S2	33.1	1.112	0.824	1.0031	
60 minute summer	S2	1.001	S5	48.7	1.197	0.567	0.5324	
60 minute summer	S3	2.000	S4	24.1	1.057	0.601	0.2512	
60 minute summer	S4	2.001	S5	42.0	2.054	0.509	0.8347	
60 minute summer	S5	1.002	S6	100.3	0.946	0.542	3.2767	
60 minute summer	S6	1.003	S7	136.1	1.132	0.739	6.7292	
60 minute summer	S7	1.004	S8	151.9	1.320	0.824	1.0370	
60 minute summer	S8	1.005	S12	150.8	2.004	0.818	0.6980	
120 minute summer	PS1	3.000	PS2-FC	4.1	0.339	0.036	4.8452	
120 minute winter	PS2-FC	3.001	S9	2.1	0.588	0.141	0.0544	
60 minute summer	S9	3.002	S10	8.9	0.578	0.221	0.2346	
60 minute summer	S10	3.003	S11	24.2	1.387	0.465	0.5642	
60 minute summer	S11	3.004	S12	41.7	3.004	0.283	0.1405	
360 minute winter	S12	1.006	HW1	40.8	1.449	0.057	2.4929	
360 minute winter	HW1	1.007	HW2	54.3	0.880	0.019	4.4453	
360 minute winter	HW2	1.008	S13	5.5	0.632	0.378	0.1426	
360 minute winter	S13	1.009	S14-HB	4.9	0.422	0.339	0.2947	
360 minute winter	S14-HB	1.010	EX SW MH	4.5	1.323	0.132	0.0498	149.3

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Results for 100 year +45% CC Critical Storm Duration. Lowest mass balance: 99.35%

Node Event	US Node	Peak (mins)	Level (m)	Depth (m)	Inflow (l/s)	Node Vol (m³)	Flood (m³)	Status
60 minute summer	S1	33	92.815	0.279	48.1	0.7557	0.0000	SURCHARGED
60 minute summer	S2	34	92.516	0.257	69.8	0.4367	0.0000	OK
60 minute summer	S3	33	93.518	0.175	34.9	0.4130	0.0000	OK
60 minute summer	S4	33	93.425	0.148	61.0	0.3368	0.0000	OK
60 minute summer	S5	34	92.449	0.418	145.3	0.8036	0.0000	OK
60 minute summer	S6	34	92.384	0.455	192.8	1.0707	0.0000	SURCHARGED
480 minute winter	S7	472	92.188	0.443	34.9	1.0408	0.0000	OK
480 minute winter	S8	472	92.188	0.473	34.9	0.8366	0.0000	SURCHARGED
180 minute winter	PS1	168	94.752	1.297	13.6	35.2948	0.0000	FLOOD RISK
180 minute winter	PS2-FC	168	94.752	1.442	3.3	0.0260	0.0000	SURCHARGED
60 minute summer	S9	33	93.212	0.084	12.1	0.1333	0.0000	OK
60 minute summer	S10	33	93.178	0.141	34.3	0.2463	0.0000	OK
60 minute summer	S11	33	92.826	0.112	59.7	0.2364	0.0000	OK
480 minute winter	S12	472	92.188	0.503	46.7	0.9304	0.0000	SURCHARGED
480 minute winter	HW1	472	92.188	1.538	46.3	1.7399	0.0000	SURCHARGED
480 minute winter	HW2	472	92.188	1.688	46.2	396.6611	0.0000	SURCHARGED
480 minute winter	S13	472	92.180	1.734	5.2	1.9609	0.0000	SURCHARGED
480 minute winter	S14-HB	480	92.164	1.830	4.9	6.3394	0.0000	SURCHARGED
480 minute winter	EX SW MH	480	89.838	0.038	4.9	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)
60 minute summer	S1	1.000	S2	47.1	1.205	1.174	1.2512	
60 minute summer	S2	1.001	S5	68.9	1.253	0.803	0.8553	
60 minute summer	S3	2.000	S4	35.1	1.171	0.874	0.3351	
60 minute summer	S4	2.001	S5	61.6	2.208	0.746	1.2712	
60 minute summer	S5	1.002	S6	140.0	0.966	0.757	4.8190	
60 minute summer	S6	1.003	S7	190.3	1.204	1.033	8.8254	
480 minute winter	S7	1.004	S8	34.9	0.872	0.190	1.4242	
480 minute winter	S8	1.005	S12	35.1	1.256	0.190	1.4269	
180 minute winter	PS1	3.000	PS2-FC	3.3	0.296	0.028	4.8452	
180 minute winter	PS2-FC	3.001	S9	2.2	0.599	0.150	0.0569	
60 minute summer	S9	3.002	S10	12.1	0.610	0.303	0.3022	
60 minute summer	S10	3.003	S11	34.3	1.490	0.661	0.7446	
60 minute summer	S11	3.004	S12	59.7	3.261	0.405	0.1855	
480 minute winter	S12	1.006	HW1	46.3	1.502	0.065	3.3720	
480 minute winter	HW1	1.007	HW2	46.2	0.815	0.016	4.4453	
480 minute winter	HW2	1.008	S13	5.2	0.619	0.357	0.1426	
480 minute winter	S13	1.009	S14-HB	4.9	0.446	0.340	0.2947	
480 minute winter	S14-HB	1.010	EX SW MH	4.9	1.353	0.143	0.0528	190.5

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