

Considine Limited		Page 1
25 Hollingworth Court	3474	
Kent	2 VALE ROAD	
ME14 5PP	NETWORK - P01	
Date 02/11/2021 11:29	Designed by MJF	
File 3474-Network-P01.MDX	Checked by JEM	
Innovyze	Network 2020.1.3	
<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u> <u>Simulation Criteria</u> Areal Reduction Factor 1.000 Manhole Headloss Coeff (Global) 0.500 MADD Factor * 10m³/ha Storage 2.000 Hot Start (mins) 0 Foul Sewage per hectare (l/s) 0.000 Inlet Coefficient 0.800 Hot Start Level (mm) 0 Additional Flow - % of Total Flow 0.000 Flow per Person per Day (l/per/day) 0.000 Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0 Number of Online Controls 1 Number of Storage Structures 1 Number of Real Time Controls 0 <u>Synthetic Rainfall Details</u> Rainfall Model FEH Data Type Point FEH Rainfall Version 2013 Cv (Summer) 0.750 Site Location GB 562797 173610 TQ 62797 73610 Cv (Winter) 0.840 Margin for Flood Risk Warning (mm) 300.0 DVD Status ON Analysis Timestep 2.5 Second Increment (Extended) Inertia Status ON DTS Status ON Profile(s) Summer and Winter Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440 Return Period(s) (years) 100 Climate Change (%) 40 WARNING: Half Drain Time has not been calculated as the structure is too full.		
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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm

								Water	Surcharged	Flooded	Half Drain			Pipe		
US/MH		Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Level	Depth	Volume	Flow /	Overflow	Time	Flow		
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)	(m³)	Cap.	(l/s)	(mins)	(l/s)	Status

PN	US/MH	Level	Name	Exceeded
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US/MH			Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Water	Surcharged	Flooded			Half Drain	
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	Level (m)	Depth (m)	Volume (m³)	Flow / Cap.	Overflow (l/s)	Time (mins)	
S1.000	SRE1.1	15 Winter	100	+40%	100/15 Summer				22.652	0.602	0.000	0.56			
S1.001	SS1	15 Winter	100	+40%	100/15 Summer				22.582	0.762	0.000	1.43			
S2.000	SRE1.2	15 Winter	100	+40%	100/15 Summer				22.429	0.379	0.000	0.21			
S1.002	SJUNCT	15 Summer	100	+40%					21.725	0.000	0.000	1.41			
S1.003	SS2	15 Winter	100	+40%	100/15 Summer				22.246	0.467	0.000	0.32			
S3.000	SRE2.1	360 Winter	100	+40%	100/15 Summer				22.244	0.194	0.000	0.01			
S1.004	SJUNCT	15 Summer	100	+40%					21.583	0.000	0.000	0.36			
S1.005	SS3	360 Winter	100	+40%	100/15 Summer				22.243	1.079	0.000	0.16			
S4.000	SRE3.1	360 Winter	100	+40%	100/15 Summer				22.243	0.472	0.000	0.04			
S1.006	SJUNCT	15 Summer	100	+40%					21.154	0.000	0.000	0.66			
S5.000	SRE4.1	360 Winter	100	+40%	100/15 Winter				22.242	0.287	0.000	0.04			
S1.007	SS4	360 Winter	100	+40%	100/15 Summer				22.242	1.181	0.000	0.12			
S6.000	SRE5.1	15 Winter	100	+40%	100/15 Summer				22.301	0.147	0.000	0.93			
S6.001	SS5	360 Winter	100	+40%	100/15 Summer				22.243	0.195	0.000	0.09			
S7.000	SRE6.1	360 Winter	100	+40%	100/15 Winter				22.242	0.386	0.000	0.01			
S6.002	SS6	360 Winter	100	+40%	100/15 Summer				22.242	1.274	0.000	0.14			
S1.008	SJUNCT	15 Summer	100	+40%					20.928	0.000	0.000	2.00			
S8.000	SRE7.1	15 Winter	100	+40%	100/15 Summer				22.543	0.743	0.000	1.64			
S9.000	SRE7.2	15 Winter	100	+40%	100/15 Summer				22.463	0.708	0.000	0.53			
S8.001	SS7	15 Winter	100	+40%	100/15 Summer				22.432	0.838	0.000	1.58			
S10.000	SRE8.1	360 Winter	100	+40%	100/15 Summer				22.243	0.452	0.000	0.05			
S8.002	SS8	360 Winter	100	+40%	100/15 Summer				22.242	0.778	0.000	0.16			
S11.000	SRE9.1	15 Winter	100	+40%	100/15 Summer				23.076	0.496	0.000	1.20			
S12.000	SRE9.2	360 Winter	100	+40%	100/15 Summer				22.241	0.248	0.000	0.00			
S11.001	SS9	360 Winter	100	+40%	100/15 Summer				22.241	0.346	0.000	0.33			
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PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S1.000	SRE1.1	4.9	FLOOD RISK	
S1.001	SS1	8.8	FLOOD RISK	
S2.000	SRE1.2	2.5	FLOOD RISK	
S1.002	SJUNCT	11.1	SURCHARGED*	
S1.003	SS2	18.9	SURCHARGED	
S3.000	SRE2.1	0.2	SURCHARGED	
S1.004	SJUNCT	25.1	SURCHARGED*	
S1.005	SS3	4.9	SURCHARGED	
S4.000	SRE3.1	0.7	SURCHARGED	
S1.006	SJUNCT	28.4	SURCHARGED*	
S5.000	SRE4.1	0.9	SURCHARGED	
S1.007	SS4	6.3	SURCHARGED	
S6.000	SRE5.1	6.8	SURCHARGED	
S6.001	SS5	3.7	SURCHARGED	
S7.000	SRE6.1	0.2	FLOOD RISK	
S6.002	SS6	4.2	SURCHARGED	
S1.008	SJUNCT	59.8	SURCHARGED*	
S8.000	SRE7.1	10.6	FLOOD RISK	
S9.000	SRE7.2	4.3	FLOOD RISK	
S8.001	SS7	12.6	FLOOD RISK	
S10.000	SRE8.1	0.6	FLOOD RISK	
S8.002	SS8	5.0	SURCHARGED	
S11.000	SRE9.1	14.4	FLOOD RISK	
S12.000	SRE9.2	0.0	SURCHARGED	
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<u>100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for Storm</u>													
<table><thead><tr><th>PN</th><th>US/MH Name</th><th>Pipe Flow (l/s)</th><th>Status</th><th>Level Exceeded</th></tr></thead><tbody><tr><td>S11.001</td><td>SS9</td><td>2.4</td><td>SURCHARGED</td><td></td></tr></tbody></table>				PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded	S11.001	SS9	2.4	SURCHARGED	
PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded									
S11.001	SS9	2.4	SURCHARGED										
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PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged	Flooded	Half Drain	
									Level (m)	Depth (m)	Volume (m³)	Flow / Cap. (l/s)	Time (mins)
S13.000	SRE10.1	15	Winter	100	+40%				22.537	-0.035	0.000	0.75	
S13.001	SS10	360	Winter	100	+40%	100/240	Winter		22.241	0.127	0.000	0.10	
S1.009	SS11-CP	360	Winter	100	+40%	100/15	Summer		22.241	1.355	0.000	0.90	
S1.010	SATT1	360	Winter	100	+40%	100/15	Summer		22.239	1.363	0.000	0.14	
S1.011	SSWP12	240	Winter	100	+40%	100/15	Summer		22.308	1.582	0.000	0.97	
S1.012	SS13-CP	15	Summer	100	+40%				22.512	-0.062	0.000	0.31	

PN	US/MH Name	Pipe Flow (l/s)	Status	Level Exceeded
S13.000	SRE10.1	7.7		OK
S13.001	SS10	2.7	SURCHARGED	
S1.009	SS11-CP	21.0	SURCHARGED	
S1.010	SATT1	3.2	SURCHARGED*	
S1.011	SSWP12	2.0	SURCHARGED	
S1.012	SS13-CP	2.0		OK