

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