



Date 29/09/2021 09:43

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File 16153 - All Networks_RECOVER...

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Innovyze

Network 2018.1

1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153 NET
3 SWS.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 4 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.405 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status OFF
 Inertia Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water
									Level (m)
S1.000	S21	15 Winter	1	+0%	100/15 Summer				86.034
S1.001	S22	15 Winter	1	+0%	30/15 Winter				85.968
S1.002	S23	15 Winter	1	+0%	30/15 Summer				85.840
S2.000	S1	15 Winter	1	+0%	100/15 Summer				87.063
S2.001	S2	15 Winter	1	+0%	100/15 Summer				86.839
S2.002	S3	15 Winter	1	+0%	30/15 Summer	100/15 Summer			86.575
S2.003	S4	15 Winter	1	+0%	30/15 Summer	100/15 Summer			86.550
S2.004	S5	15 Winter	1	+0%	30/15 Summer				86.510
S3.000	S7	15 Winter	1	+0%	100/15 Summer				87.720
S3.001	S8	15 Winter	1	+0%	100/15 Summer				87.339
S3.002	S9	15 Winter	1	+0%	30/15 Winter				86.662
S3.003	S8	15 Winter	1	+0%	30/15 Winter	100/15 Summer			86.566
S2.005	S13	15 Winter	1	+0%	30/15 Summer	100/15 Winter			86.278
S2.006	S14	15 Winter	1	+0%	30/15 Summer				86.242
S4.000	SSwale 1	15 Winter	1	+0%					88.340
S4.001	S10	15 Winter	1	+0%	1/15 Summer				87.679
S4.002	S9	15 Winter	1	+0%	30/15 Summer	100/15 Summer			87.373
S2.007	S10	15 Winter	1	+0%	30/15 Summer				86.220
S5.000	S16	15 Winter	1	+0%	30/15 Summer	100/15 Winter			87.253
S5.001	S17	15 Winter	1	+0%	30/15 Summer	100/15 Winter			87.059
S5.002	S18	240 Winter	1	+0%	30/15 Summer				86.992
S5.003	S19	240 Winter	1	+0%	1/30 Summer				86.991
S5.004	SSwale 2	240 Winter	1	+0%					86.989
S5.005	S13	240 Winter	1	+0%	1/15 Summer				86.989
S2.008	S14	15 Winter	1	+0%	30/15 Summer				86.187
S2.009	S15	15 Winter	1	+0%	30/15 Summer				86.070
S6.000	S24	30 Winter	1	+0%	30/15 Summer				85.970
S2.010	SBasin	15 Winter	1	+0%	30/15 Summer				85.960
S2.011	S17	1440 Winter	1	+0%	1/30 Summer				85.871



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PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
S1.000	S21	-0.145	0.000	0.27		9.8	OK	
S1.001	S22	-0.134	0.000	0.34		14.8	OK	
S1.002	S23	-0.107	0.000	0.54		18.0	OK	
S2.000	S1	-0.188	0.000	0.29		17.3	OK	
S2.001	S2	-0.260	0.000	0.20		30.4	OK	
S2.002	S3	-0.175	0.000	0.45		39.3	OK	4
S2.003	S4	-0.163	0.000	0.61		46.9	OK	4
S2.004	S5	-0.187	0.000	0.49		52.0	OK	
S3.000	S7	-0.155	0.000	0.21		15.3	OK	
S3.001	S8	-0.136	0.000	0.32		22.0	OK	
S3.002	S9	-0.174	0.000	0.37		27.9	OK	
S3.003	S8	-0.170	0.000	0.39		32.2	OK	4
S2.005	S13	-0.268	0.000	0.33		87.6	OK	1
S2.006	S14	-0.218	0.000	0.43		89.2	OK	
S4.000	SSwale 1	-0.560	0.000	0.01		11.0	OK	
S4.001	S10	0.079	0.000	0.26		10.5	SURCHARGED	
S4.002	S9	-0.110	0.000	0.51		35.1	OK	3
S2.007	S10	-0.200	0.000	0.65		125.4	OK	
S5.000	S16	-0.142	0.000	0.29		13.5	OK	1
S5.001	S17	-0.128	0.000	0.38		18.8	OK	1
S5.002	S18	-0.023	0.000	0.13		4.7	OK	
S5.003	S19	0.110	0.000	0.14		4.8	SURCHARGED	
S5.004	SSwale 2	-1.311	0.000	0.00		6.6	OK	
S5.005	S13	0.376	0.000	0.02		1.0	SURCHARGED	
S2.008	S14	-0.199	0.000	0.78		127.6	OK	
S2.009	S15	-0.289	0.000	0.48		128.3	OK	
S6.000	S24	-0.152	0.000	0.30		22.8	OK	
S2.010	SBasin	-0.297	0.000	0.50		137.7	OK	
S2.011	S17	0.182	0.000	0.41		3.8	SURCHARGED	

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1 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153 NET
3 SWS.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged
									Level (m)	Depth (m)
S2.012	S30	1440 Winter	1	+0%	30/360 Winter				85.644	-0.185
S1.003	Sswale 3	1440 Winter	1	+0%					85.639	-1.206
S1.004	S31	1440 Winter	1	+0%	1/30 Winter				85.639	0.111

PN	US/MH Name	Flooded		Pipe		Status	Level Exceeded
		Volume (m ³)	Flow / Cap.	Flow (l/s)	Flow (l/s)		
S2.012	S30	0.000	0.07	3.8		OK	
S1.003	Sswale 3	0.000	0.00	5.5		OK	
S1.004	S31	0.000	0.13	4.0		SURCHARGED	



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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153
NET 3 SWS.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 4 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.405 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status OFF
 Inertia Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
S1.000	S21	15 Winter	30	+0%	100/15 Summer				86.144
S1.001	S22	15 Winter	30	+0%	30/15 Winter				86.109
S1.002	S23	15 Winter	30	+0%	30/15 Summer				85.989
S2.000	S1	15 Winter	30	+0%	100/15 Summer				87.144
S2.001	S2	15 Winter	30	+0%	100/15 Summer				86.980
S2.002	S3	15 Winter	30	+0%	30/15 Summer	100/15 Summer			86.908
S2.003	S4	15 Winter	30	+0%	30/15 Summer	100/15 Summer			86.871
S2.004	S5	15 Winter	30	+0%	30/15 Summer				86.831
S3.000	S7	15 Winter	30	+0%	100/15 Summer				87.765
S3.001	S8	15 Winter	30	+0%	100/15 Summer				87.413
S3.002	S9	15 Winter	30	+0%	30/15 Winter				86.839
S3.003	S8	15 Winter	30	+0%	30/15 Winter	100/15 Summer			86.763
S2.005	S13	15 Winter	30	+0%	30/15 Summer	100/15 Winter			86.652
S2.006	S14	15 Winter	30	+0%	30/15 Summer				86.603
S4.000	SSwale 1	15 Winter	30	+0%					88.366
S4.001	S10	15 Winter	30	+0%	1/15 Summer				87.988
S4.002	S9	15 Winter	30	+0%	30/15 Summer	100/15 Summer			87.827
S2.007	S10	15 Winter	30	+0%	30/15 Summer				86.562
S5.000	S16	15 Winter	30	+0%	30/15 Summer	100/15 Winter			87.505
S5.001	S17	15 Winter	30	+0%	30/15 Summer	100/15 Winter			87.426
S5.002	S18	15 Winter	30	+0%	30/15 Summer				87.311
S5.003	S19	480 Winter	30	+0%	1/30 Summer				87.303
S5.004	SSwale 2	480 Winter	30	+0%					87.302
S5.005	S13	480 Winter	30	+0%	1/15 Summer				87.301
S2.008	S14	15 Winter	30	+0%	30/15 Summer				86.509
S2.009	S15	15 Winter	30	+0%	30/15 Summer				86.451
S6.000	S24	15 Winter	30	+0%	30/15 Summer				86.375
S2.010	SBasin	15 Winter	30	+0%	30/15 Summer				86.313
S2.011	S17	1440 Winter	30	+0%	1/30 Summer				86.233



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NET 3 SWS.SWS

PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
S1.000	S21	-0.035	0.000	0.65		23.6	OK	
S1.001	S22	0.007	0.000	0.87		37.8	SURCHARGED	
S1.002	S23	0.042	0.000	1.38		46.3	SURCHARGED	
S2.000	S1	-0.107	0.000	0.71		42.2	OK	
S2.001	S2	-0.119	0.000	0.51		76.8	OK	
S2.002	S3	0.158	0.000	1.04		90.7	SURCHARGED	4
S2.003	S4	0.158	0.000	1.41		109.0	SURCHARGED	4
S2.004	S5	0.134	0.000	1.15		121.9	SURCHARGED	
S3.000	S7	-0.110	0.000	0.51		37.6	OK	
S3.001	S8	-0.062	0.000	0.85		58.1	OK	
S3.002	S9	0.003	0.000	0.95		72.1	SURCHARGED	
S3.003	S8	0.027	0.000	1.01		82.4	SURCHARGED	4
S2.005	S13	0.106	0.000	0.79		208.6	SURCHARGED	1
S2.006	S14	0.143	0.000	1.05		217.9	SURCHARGED	
S4.000	SSwale 1	-0.534	0.000	0.01		26.0	OK	
S4.001	S10	0.388	0.000	0.38		15.6	SURCHARGED	
S4.002	S9	0.344	0.000	1.13		78.0	SURCHARGED	3
S2.007	S10	0.142	0.000	1.61		309.9	SURCHARGED	
S5.000	S16	0.110	0.000	0.63		29.7	SURCHARGED	1
S5.001	S17	0.239	0.000	0.81		40.0	SURCHARGED	1
S5.002	S18	0.296	0.000	1.27		46.6	SURCHARGED	
S5.003	S19	0.422	0.000	0.19		6.5	SURCHARGED	
S5.004	SSwale 2	-0.999	0.000	0.00		9.0	OK	
S5.005	S13	0.688	0.000	0.02		1.1	SURCHARGED	
S2.008	S14	0.122	0.000	1.88		308.6	SURCHARGED	
S2.009	S15	0.093	0.000	1.15		308.1	SURCHARGED	
S6.000	S24	0.253	0.000	0.87		66.9	SURCHARGED	
S2.010	SBasin	0.056	0.000	1.26		342.8	SURCHARGED	
S2.011	S17	0.544	0.000	0.43		3.9	SURCHARGED	

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30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153
NET 3 SWS.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged
									Level (m)	Depth (m)
S2.012	S30	1440 Winter	30	+0%	30/360 Winter				85.993	0.164
S1.003	Sswale 3	1440 Winter	30	+0%					85.988	-0.857
S1.004	S31	1440 Winter	30	+0%	1/30 Winter				85.988	0.460

PN	US/MH Name	Flooded		Pipe		Level Exceeded
		Volume (m ³)	Flow / Cap. (l/s)	Flow (l/s)	Status	
S2.012	S30	0.000	0.07	4.0	SURCHARGED	
S1.003	Sswale 3	0.000	0.00	7.7	OK	
S1.004	S31	0.000	0.13	4.0	SURCHARGED	



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100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for 16153
NET 3 SWS.SWS

Simulation Criteria

Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000
 Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000
 Hot Start Level (mm) 0 Inlet Coefficient 0.800
 Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000
 Foul Sewage per hectare (l/s) 0.000

Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Time/Area Diagrams 0
 Number of Online Controls 4 Number of Storage Structures 1 Number of Real Time Controls 0

Synthetic Rainfall Details

Rainfall Model FSR M5-60 (mm) 20.000 Cv (Summer) 0.750
 Region England and Wales Ratio R 0.405 Cv (Winter) 0.840

Margin for Flood Risk Warning (mm) 300.0
 Analysis Timestep 2.5 Second Increment (Extended)
 DTS Status ON
 DVD Status OFF
 Inertia Status OFF

Profile(s) Summer and Winter
 Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440
 Return Period(s) (years) 1, 30, 100
 Climate Change (%) 0, 0, 40

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surchage	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water Level (m)
S1.000	S21	15 Winter	100	+40%	100/15 Summer				86.670
S1.001	S22	15 Winter	100	+40%	30/15 Winter				86.569
S1.002	S23	1440 Winter	100	+40%	30/15 Summer				86.230
S2.000	S1	15 Winter	100	+40%	100/15 Summer				88.505
S2.001	S2	15 Winter	100	+40%	100/15 Summer				88.277
S2.002	S3	15 Winter	100	+40%	30/15 Summer	100/15 Summer			88.018
S2.003	S4	15 Winter	100	+40%	30/15 Summer	100/15 Summer			87.909
S2.004	S5	15 Summer	100	+40%	30/15 Summer				87.801
S3.000	S7	15 Winter	100	+40%	100/15 Summer				88.908
S3.001	S8	15 Winter	100	+40%	100/15 Summer				88.696
S3.002	S9	15 Winter	100	+40%	30/15 Winter				87.851
S3.003	S8	15 Winter	100	+40%	30/15 Winter	100/15 Summer			87.671
S2.005	S13	15 Winter	100	+40%	30/15 Summer	100/15 Winter			87.451
S2.006	S14	15 Winter	100	+40%	30/15 Summer				87.404
S4.000	SSwale 1	15 Winter	100	+40%					88.391
S4.001	S10	15 Winter	100	+40%	1/15 Summer				88.217
S4.002	S9	15 Winter	100	+40%	30/15 Summer	100/15 Summer			88.650
S2.007	S10	15 Winter	100	+40%	30/15 Summer				87.332
S5.000	S16	15 Winter	100	+40%	30/15 Summer	100/15 Winter			88.596
S5.001	S17	15 Winter	100	+40%	30/15 Summer	100/15 Winter			88.387
S5.002	S18	15 Winter	100	+40%	30/15 Summer				88.115
S5.003	S19	960 Winter	100	+40%	1/30 Summer				87.646
S5.004	SSwale 2	960 Winter	100	+40%					87.644
S5.005	S13	960 Winter	100	+40%	1/15 Summer				87.644
S2.008	S14	15 Winter	100	+40%	30/15 Summer				87.130
S2.009	S15	15 Winter	100	+40%	30/15 Summer				86.942
S6.000	S24	15 Winter	100	+40%	30/15 Summer				87.008
S2.010	SBasin	1440 Winter	100	+40%	30/15 Summer				86.714
S2.011	S17	1440 Winter	100	+40%	1/30 Summer				86.713



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PN	US/MH Name	Surcharged		Flooded		Pipe Flow (l/s)	Status	Level Exceeded
		Depth (m)	Volume (m ³)	Flow / Cap.	Overflow (l/s)			
S1.000	S21	0.491	0.000	1.15		41.5	SURCHARGED	
S1.001	S22	0.467	0.000	1.51		65.9	SURCHARGED	
S1.002	S23	0.283	0.000	0.11		3.9	SURCHARGED	
S2.000	S1	1.254	0.000	1.12		67.3	SURCHARGED	
S2.001	S2	1.178	0.000	0.80		121.0	FLOOD RISK	
S2.002	S3	1.268	3.634	1.50		130.1	FLOOD	4
S2.003	S4	1.196	4.070	2.14		165.1	FLOOD	4
S2.004	S5	1.104	0.000	1.58		167.2	FLOOD RISK	
S3.000	S7	1.033	0.000	0.74		54.1	FLOOD RISK	
S3.001	S8	1.221	0.000	1.15		78.0	FLOOD RISK	
S3.002	S9	1.015	0.000	1.30		98.9	FLOOD RISK	
S3.003	S8	0.935	3.797	1.31		107.5	FLOOD	4
S2.005	S13	0.905	4.781	1.18		310.4	FLOOD	1
S2.006	S14	0.944	0.000	1.58		327.8	SURCHARGED	
S4.000	SSwale 1	-0.509	0.000	0.02		47.0	OK	
S4.001	S10	0.617	0.000	0.45		18.4	SURCHARGED	
S4.002	S9	1.167	4.641	1.31		90.5	FLOOD	3
S2.007	S10	0.912	0.000	2.26		433.3	SURCHARGED	
S5.000	S16	1.201	0.404	1.01		47.1	FLOOD	1
S5.001	S17	1.200	0.215	1.32		65.8	FLOOD	1
S5.002	S18	1.100	0.000	2.11		77.2	FLOOD RISK	
S5.003	S19	0.765	0.000	0.20		6.9	SURCHARGED	
S5.004	SSwale 2	-0.656	0.000	0.00		9.6	OK	
S5.005	S13	1.031	0.000	0.02		1.2	SURCHARGED	
S2.008	S14	0.744	0.000	2.72		447.4	SURCHARGED	
S2.009	S15	0.584	0.000	1.67		449.4	SURCHARGED	
S6.000	S24	0.886	0.000	1.52		117.3	FLOOD RISK	
S2.010	SBasin	0.457	0.000	0.17		46.6	SURCHARGED	
S2.011	S17	1.024	0.000	0.43		4.0	SURCHARGED	

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NET 3 SWS.SWS

PN	US/MH Name	Storm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Water	Surcharged
									Level (m)	Depth (m)
S2.012	S30	1440 Winter	100	+40%	30/360 Winter				86.236	0.407
S1.003	Sswale 3	1440 Winter	100	+40%					86.231	-0.614
S1.004	S31	1440 Winter	100	+40%	1/30 Winter				86.231	0.703

PN	US/MH Name	Flooded		Pipe		Level Exceeded
		Volume (m ³)	Flow / Cap. (l/s)	Flow (l/s)	Status	
S2.012	S30	0.000	0.07	4.0	SURCHARGED	
S1.003	Sswale 3	0.000	0.00	10.9	OK	
S1.004	S31	0.000	0.13	4.0	FLOOD RISK	