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Bank House 105-109 New St, Blackrod Bolton BL6 5AG	PRESCOT POLICE STATION DERBY STREET PRIMA GROUP	
Date 28/11/2022 10:57 File Stotage calc's.MDX	Designed by SMJ Checked by	
Micro Drainage		Network 2018.1.1

Conduit Sections for Storm

NOTE: Diameters less than 66 refer to section numbers of hydraulic conduits. These conduits are marked by the symbols:- [] box culvert, \ / open channel, oo dual pipe, ooo triple pipe, O egg.

Section numbers < 0 are taken from user conduit table

Section Number	Conduit Type	Major Dimn. (mm)	Minor Dimn. (mm)	Side Slope (Deg)	Corner Splay (mm)	4*Hyd Radius (m)	XSect Area (m ²)
-4	[]	6000	1200	90.0		1.733	6.500

Simulation Criteria for Storm

Volumetric Runoff Coeff	0.840	Foul Sewage per hectare (l/s)	0.000
Areal Reduction Factor	1.000	Additional Flow - % of Total Flow	10.000
Hot Start (mins)	0	MADD Factor * 10m ³ /ha Storage	2.000
Hot Start Level (mm)	0	Run Time (mins)	60
Manhole Headloss Coeff (Global)	0.500	Output Interval (mins)	1

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

Synthetic Rainfall Details

Rainfall Model	FSR	Profile Type	Winter
Return Period (years)	1	Cv (Summer)	0.750
Region	England and Wales	Cv (Winter)	0.840
M5-60 (mm)	17.700	Storm Duration (mins)	15
Ratio R	0.394		

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Summary of Results for 15 minute 1 year Winter (Storm)

Margin for Flood Risk Warning (mm) 300.0 DVD Status ON
 Analysis Timestep Fine Inertia Status ON
 DTS Status ON

		Water	Surcharged	Flooded		Pipe	
PN	US/MH Name	Level (m)	Depth (m)	Volume (m³)	Flow / Cap. (l/s)	Overflow Flow (l/s)	Status
1.000	1	70.651	-0.049	0.000	0.51	2.9	OK
2.000	2	71.043	-0.057	0.000	0.39	2.9	OK
1.001	3	70.179	-0.071	0.000	0.54	8.6	OK
3.000	4	69.581	-1.069	0.000	0.00	0.9	OK
4.000	5	69.583	-0.067	0.000	0.45	9.4	OK
1.002	6	69.581	0.102	0.000	0.20	9.5	SURCHARGED
1.003	7	69.606	0.347	0.000	0.17	5.0	SURCHARGED
1.004	8	69.052	-0.172	0.000	0.13	5.0	OK