Appendix 11.4

DRAINAGE STRATEGY



BURO HAPPOLD

The People's Project

Drainage Strategy

BMD01-BHE-ZX-XX-RP-C-0300

0040026

18 December 2020

Revision P08

Revision	Description	Issued by	Date	Checked
P01	Draft Planning	MR	03/10/19	NJH
P02	Final Planning	MR	04/11/19	NJH
P03	Final Planning Update	MR	18/11/19	NJH
P04	Final Planning Update	MR	20/11/19	NJH
P05	Revised Planning	MR	10/06/20	MD
P06	Planning Update	MR	18/08/20	NJH
P07	Final Planning Update	MR	21/08/20	NJH
P08	Planning Update – Outfall to Nelson Dock & updated dock water levels.	MR	18/12/20	NJH

https://burohappold.sharepoint.com/sites/040026Everton/05_Discipline Specific/C - Civil Infrastructure/03 Reports/BMD01-BHE-ZX-XX-RP-C-0300 - Drainage Strategy/BMD01-BHE-ZX-XX-RP-C-0300 - Drainage Strategy P08.docx

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author	Matt Redfern		
date	18.12.20		
approved	Nick Hall		
signature	Digitally Signed by Nick Hall		
date	18.12.20		

The People's Project

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1 Introduction

This report has been prepared on behalf of Everton Stadium Development Ltd (hereafter 'Everton') to support a full planning application for a proposed new stadium with associated facilities and infrastructure at Bramley-Moore Dock, Liverpool. A planning application (LPA ref. 20F/0001) was submitted to Liverpool City Council ('LCC') in December 2019 and has been subject to formal statutory consultation. Following the consultation feedback a number of design-based changes have been made to the scheme as summarised below.

This report therefore describes the drainage strategy for the proposed new development in terms of dealing with foul flows and surface water flows generated.

1.1 2020 Environmental Statement Update

This Environmental Statement technical appendix relating to the drainage strategy, has been reviewed against the following aspects and for each it has been confirmed that there are no amendments required to the content of the appendix:

- Baseline data validity: there have been no relevant changes to the baseline data;
- Legislation/policy revisions: there have been no related updates to legislation/policy that have affected either the methodology or findings of this assessment;

There were limited statutory consultee comments received in relation to the information presented in this appendix that required a response. Where relevant, clarification responses have been agreed with the relevant consultees and details are provided in Table 11.2 within ES Volume II, Chapter 11. Formal consultee comments relating to drainage were received from United Utilities and the Environment Agency. Comments and queries were received from LCC as LLFA. All responses are discussed in section 1.3 below.

Due to the relevance and scale of the proposed development amendments limited technical assessment has been undertaken to the drainage strategy to confirm the validity of the previous conclusions. Specifically, the proposed development amendments impacting the assessment are:

- Removal of the multi-storey car park (MSCP) and consequent redesign of the western elevation (including a stepped terrace area with covered access to west stand turnstiles and hospitality entrances below)
- Removal of surface car park canopy (PV relocated to the stadium roof); and
- Relocation of Outside Broadcasting (OB) compound and sub-station to the northern extent of the west quay (surface car parking relocated to the south of these structures).

The relevant assessment information is discussed within this appendix and therefore this report has been revised to reflect these updates.

The sections that have been updated are detailed below:

- Section 1.3
- Section 3.4
- Section 3.5

- Section 4.6
- Section 4.8
- Section 4.10
- Section 4.11
- Section 4.12

1.2 Key Local Stakeholders

There are four key local stakeholders and/or approving authorities associated with drainage of the application site. They are as follows:

- The Environment Agency (EA) are responsible for management of 'Main Rivers' throughout England and advise on flood risk from fluvial and tidal sources.
- Liverpool City Council (LCC) are the Lead Local Flood Authority (LLFA). LLFA's hold a responsibility for managing local flood risk in their area and are a consultee for planning applications that impact on surface water, including approval of proposed drainage and Sustainable Drainage System (SuDS) strategies. LCC have powers to maintain and operate local watercourses, 'Ordinary Watercourses' and highways.
- United Utilities (UU) are the local sewerage undertaker and potable water supplier with powers under The Water Industry Act 1991. Consultation has been undertaken and will continue with UU with respect to existing sewerage infrastructure and disposal of foul water from the site.
- Peel Ports (and The Mersey Docks & Harbour Company) are the landowner of Bramley-Moore and the
 adjacent dock networks (Peel Land & Property submitted the outline Liverpool Waters planning application).
 The docks are hydraulically interconnected and provide the surface water drainage discharge route for the
 quayside areas. They have therefore been consulted on the proposed surface water discharge strategy for the
 site.

1.3 Agreements Reached with Stakeholders

1.3.1 Foul Water Drainage – United Utilities

The foul water drainage strategy has been discussed with UU at a meeting on 30th June 2017. They have no objection to the principle of the new stadium being connected into the existing foul water system to the north-east of the site. Further details of the existing infrastructure and proposed point of connection is included later in this report.

United Utilities were approached as a statutory consultee to the original planning application (LPA ref. 20F/0001) and provided to following formal response relating to drainage:

In accordance with the National Planning Policy Framework (NPPF) and the National Planning Practice Guidance (NPPG), the site should be drained on a separate system with foul water draining to the public sewer and surface water draining in the most sustainable way. Following our review of the submitted Drainage Strategy, we can confirm we have no in principle objection to the proposed approach and therefore should planning permission be granted we request the following condition is attached to any subsequent Decision Notice.

Recommended Drainage Condition

Prior to the commencement of development, details of a sustainable surface water drainage scheme and a foul water drainage scheme shall be submitted to and approved in writing by the Local Planning Authority. The details of the drainage schemes shall be in accordance with the principles set out in the submitted Drainage Strategy of Appendix 11.4 of the Environmental Statement (Ref: BMD01-BHE-ZX-XX-RP-C-0300 - Drainage Strategy 0040026 Dated 18 November 2019 Revision P04). The drainage schemes must include:

(i) Levels of the proposed drainage systems including proposed ground and finished floor levels in AOD;

(ii) Foul and surface water shall drain on separate systems; and

(iii) A timetable for its implementation.

The approved schemes shall also be in accordance with the Non-Statutory Technical Standards for Sustainable Drainage Systems (March 2015) or any subsequent replacement national standards and no surface water shall discharge to the public sewer either directly or indirectly.

The development hereby permitted shall be carried out only in accordance with the approved drainage schemes and retained thereafter for the lifetime of the development.

Reason: To promote sustainable development, secure proper drainage and to manage the risk of flooding and pollution.

Please note, United Utilities are not responsible for determining an acceptable rate of discharge to the dock. This is a matter for discussion with the Lead Local Flood Authority, the Environment Agency and Peel.

Our understanding is that the applicant is not proposing to adopt the on-site drainage system. If the applicant intends to offer wastewater assets forward for adoption by United Utilities, the proposed detailed design will be subject to a technical appraisal by an Adoptions Engineer as we need to be sure that the proposal meets the requirements of Sewers for Adoption and United Utilities' Asset Standards. The detailed layout should be prepared with consideration of what is necessary to secure a development to an adoptable standard. This is important as drainage design can be a key determining factor of site levels and layout. The proposed design should give consideration to long term operability and give United Utilities a cost-effective proposal for the life of the assets. Therefore, should this application be approved, and the applicant wishes to progress a Section 104 agreement, we strongly recommend that no construction commences until the detailed drainage design, submitted as part of the Section 104 agreement, has been assessed and accepted in writing by United Utilities. Any work carried out prior to the technical assessment being approved is done entirely at the developer's own risk and could be subject to change.

Management and Maintenance of Sustainable Drainage Systems

Without effective management and maintenance, sustainable drainage systems can fail or become ineffective. As a provider of wastewater services, we believe we have a duty to advise the Local Planning Authority of this potential risk to ensure the longevity of the surface water drainage system and the service it provides to people. We also wish to minimise the risk of a sustainable drainage system having a detrimental impact on the public sewer network should the two systems interact. We therefore recommend the Local Planning Authority include a condition in their Decision Notice regarding a management and maintenance regime for any sustainable drainage system that is included as part of the proposed development. We recommend the Local Planning Authority consults with the Lead Local Flood Authority regarding the exact wording of any condition. You may find the below a useful example:

Recommended Management and Maintenance Condition

Prior to occupation of the development a sustainable drainage management and maintenance plan for the lifetime of the development shall be submitted to the local planning authority and agreed in writing. The sustainable drainage management and maintenance plan shall include as a minimum:

a. Arrangements for adoption by an appropriate public body or statutory undertaker, or, management and maintenance by a management company; and

b. Arrangements for inspection and ongoing maintenance of all elements of the sustainable drainage system to secure the operation of the surface water drainage scheme throughout its lifetime.

The development shall subsequently be completed, maintained and managed in accordance with the approved plan.

Reason: To ensure that management arrangements are in place for the drainage system in order to manage the risk of flooding and pollution during the lifetime of the development.

Please note United Utilities cannot provide comment on the management and maintenance of an asset that is owned by a third-party management and maintenance company. We would not be involved in the discharge of the management and maintenance condition in these circumstances.

1.3.2 Surface Water Drainage

1.3.2.1 Environment Agency

The EA have been consulted at a pre-application meeting on 19th February 2019 and confirmed agreement to the proposals described within this report; to discharge un-restricted flow into the water channel that is to be provided to the west of the stadium. This channel is to remain in hydraulic connectivity with the dock networks to the north and south, which are under the ownership and control of Peel. This connectivity ensures the water level in the channel matches the adjacent docks and is not affected by the tide level changes in the adjacent River Mersey.

The EA consultation response to the original planning application was:

No infiltration of surface water drainage into the ground where land contamination is known or suspected to be present is permitted other than with the express written consent of the local planning authority, which may be given for those parts of the site where it has been demonstrated that there is no resultant unacceptable risk to controlled waters. The development shall be carried out in accordance with the approval details.

<u>Reason</u>

For the ongoing protection of the Water Environment from risks arising from land contamination.

No infiltration to the ground is proposed as part of the drainage strategy.

1.3.2.2 Lead Local Flood Authority (Liverpool City Council)

The LLFA were also consulted at the pre-application meeting on 19th February 2019 and confirmed agreement with the discharge proposals as described within this report. The LLFA also agreed to the principles of water quality management described within this report.

The LLFA provided comments and raised queries on the submitted drainage strategy, and a meeting was held on 7th May to discuss these. The queries raised and the agreed changes are summarised below:

• The pollution mitigation index for the Downstream Defender is less than the pollution hazard index for TTS and Metals. It should be equal to or greater than.

The pollution risk assessment and mitigation index for the Downstream Defender units were agreed to be correct as written in the submitted report. The text in section 4.6 below has been colour coded to clarify the different risk areas.

• The above ground storage of flooding at the south east corner of the stadium is considered excessive in relation to its location outside the entrance gates to the ground which could prevent their use. The drainage design should be amended to remove this ponding.

It was agreed that ponding during very extreme events is acceptable to the LLFA. Additional text has been added to section 4.10 within this report, and calculations provided in Appendix D to expand on the likelihood, frequency and duration of ponding.

• Require more detail regarding the frequency and maintenance of the drainage system. It would be normal practice for a detailed maintenance and operation. Plan to be produced as a separate document, which remove the requirement for any condition in a planning approval.

It was agreed with the LLFA that a maintenance strategy could be provided post-construction and be secured by an appropriate planning condition. This will allow the strategy to accurately reflect the chosen products used within the as-built system.

• Micro drainage calculations are required for a submerged outfalls situation

Submerged outfall scenario is now discussed in section 4.11 of this report and MicroDrainage results contained in Appendix B.

1.3.2.3 Peel Land & Property

The landowners Peel Land & Property have been consulted at a meeting on 16th May 2019 and have confirmed agreement to the proposed surface water discharge strategy for the site.

2 Site Context

2.1 Site Boundary and Area

The extent of the proposed development is important to the drainage design as it informs the extent of drainage catchment areas to be included in assessments of run-off rates and any temporary attenuation volumes, if required. The site extent used for drainage calculations is shown on Figure 4—5, within the drainage design section. The total site area within the red line boundary is 8.67ha.

The scheme includes the stadium, access roads, surface level car parking and large areas of public realm. Due to the current nature of the site and proposed use, there is minimal opportunities for soft landscaping or permeable surfacing. The landscape plan incorporates tree planting within the public realm to the north-east, east, and south of the site, and some grassed areas within the western quay area adjacent to the proposed sub-station building.

2.2 Geology

The geology of a site influences the selection of SuDS features that can be utilised on the site, in particular the viability of infiltration for drainage of surface water (in-line with the SuDS hierarchy). The site has been historically formed by land reclamation of the River Mersey, to provide the existing quayside areas. These are constructed as a series of stone retaining walls with fill placed between. The fill material is a mixture of made ground with variable geotechnical properties. It is assumed that infiltration cannot be relied upon as a means of surface water disposal due to uncertainty of this fill material and potential for historic contamination.

2.3 Existing Drainage Infrastructure

2.3.1 Private Foul Water Drainage

A Ground Penetration Radar (GPR) and drainage camera survey were completed on site in June 2019 to trace existing services and drainage within the site. Very little existing foul water drainage is present on site and pipework that was identified is no longer functioning and completely blocked. No connections off site were identified during the survey. Disused toilets within the Hydraulic Tower were noted to discharge directly into the dock waters via an outfall in the listed dock wall.

2.3.2 Public Foul Water Drainage

A UU Waste Water Treatment Works (WWTW) is located immediately north of the site at Wellington Dock. The works serve the majority of the city, including the existing Goodison Park stadium. Two existing combined public sewers run down Regent Road, adjacent to the site, and discharge to the WWTW:

- The Mersey Estuary Pollution Alleviation Scheme (MEPAS) tunnel. This was constructed in the 1990's to intercept combined outfalls to the Mersey and direct flows to the treatment works. It is c2.5m in diameter and approximately 10m below ground next to the site. The system is used for storage of effluent generated during heavy rainfall and flows are controlled by a series of gates along its run.
- A Combined sewer serving a more local catchment, c5m deep to invert and 675/920mm in dia.

UU have advised that a new connection to the MEPAS tunnel would not be permitted and the site should discharge to the local combined sewer. The preferred point of connection is UU chamber reference 6501, within Regent Road

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immediately east of the site as indicated on Figure 2—1. Consultation with UU on 30/06/2017 confirmed they had no immediate concern with the capacity of this sewer and therefore an unrestricted flow would be appropriate.

Figure 2—1 United Utilities Sewers Adjacent to Site

2.3.3 Private Surface Water Drainage

The June 2019 survey shows there to be very little in the way of formal surface water drainage infrastructure within the site. The majority of rainwater falling onto the site flows across the paved areas to drop directly over dock edge and into the dock waters.

A number of historic gullies have been observed and surveyed on the western boundary of the site alongside the River Mersey. These gullies provide drainage to the rear of the existing crown (sea) wall and connect back to Nelson Dock via a large culvert opening in the dock wall, identified during a dive survey of the wall. The line of this connection is defined by the line of historic gullies leading from the crown (sea) wall to the Nelson Dock.

It is understood from assessment of the site levels and the existing drainage infrastructure that all surface water either drains directly over edge into Bramley Moore Dock or Nelson Dock, or indirectly via the existing historic gullies noted above. All flows will ultimately connect through to the River Mersey via the wider dock water system under the control of Peel Land & Property / Peel Ports. All existing drainage is privately owned, with maintenance responsibility falling to the landowner.



Figure 2—2 Existing Historic Gullies on Western Side of Site

2.3.4 Public Surface Water Drainage

There is no dedicated public surface water network in proximity to the site. As discussed in the foul water section above, there is a large combined deep culvert (the MEPAS sewer) and a secondary combined large diameter sewer pipe in Regent Road that take combined flows.

3 Proposed Foul Water Drainage Strategy

3.1 Objectives

The proposed below ground foul water network will be designed to:

- Take the anticipated peak foul flows without surcharging or flooding,
- Collect and convey foul water away from the stadium in a safe and controlled manner,
- Provide measures to improve the quality of run-off, where contamination could occur, prior to discharge, such as the service/delivery area beneath the stands in the north-west corner of the site,
- Be sustainable and maintainable,
- Be appropriate for and compliment a developed, landmark urban space, and
- Ensure structural integrity over the duration of the development design life.

3.2 Basis of Design & Assumptions

- The on-site foul drainage infrastructure will be maintained by Everton as the landowner and operator, and have a design life of 60 years as a minimum.
- All covered areas of the site will drain to the foul water network, this includes the proposed service area and waste storage areas,
- The field of play will have a specialist drainage system. The system will have a discharge to the foul water network. This is due to the presence of fertilisers in the discharge making it unsuitable for discharge to the adjacent docks,
- The site will discharge into the existing foul water chamber located at the Regent Road / Blackstone Street junction, United Utilities chamber reference: 6501,
- There are no concerns with capacity of the receiving United Utilities sewer network, and
- Pumping stations will be designed to allow for 1-hour duration of emergency storage (during peak flows) in the event of failure.

3.3 Design Codes and Standards Applied

The foul water system network will be designed in accordance with the following Codes and Standards, as appropriate:

- BS EN 12056-2:2000, Gravity drainage systems inside buildings Part 2: Sanitary pipework, layout and calculation,
- BS EN 752 (2017), Drains and Sewer Systems Outside of Buildings Sewer system management,
- Building Regulations Part H (2010): Drainage and Waste Disposal (Approved Document H), and
- Sewers for Adoption (7th Edition) A design and construction guide for developers.

3.4 Description of Foul Water Drainage

The intent for dealing with foul water flows from the stadium is to:

- Drain the area of stadium within the infilled dock area to the south by modifying existing penetrations in the existing southern dock wall.
- Drain the area of stadium to the north and south of the infilled dock area to the north and south respectively.

The approach outlined above seeks to reduce the depth of excavation adjacent to the existing hydraulic tower building. The existing dock walls are listed structures and therefore need to be preserved. The number of penetrations through the wall has been kept to a minimum. Two penetrations are proposed, both of which will re-use existing penetrations, with slight increases in the existing pipe diameter to provide sufficient capacity for the stadium foul water flows.

Once the flows have been conveyed from the stadium, the separate flows from the north and south are conveyed east and combined, prior to the proposed connection to UU manhole 6501 within Regent Road. The details of this manhole and downstream pipe are included below, based on information supplied by UU (via email received on 21/03/2019), along with the proposed connection level and size of the proposed new connection.

Table 3—1 UU FW Manhole Connection Details

UU Manhole	Cover Level	Existing Invert	Existing Downstream	Proposed Invert	Proposed Pipe
Reference	(mAOD)	Level (mAOD)	Pipe Size (mm)	Level (mAOD)	Size (mm)
6501	7.12	2.22	920	2.79	300

A separate, small packaged pumping station is proposed within the grow-light storage compound to take the flows from the welfare facilities for the Outdoor Broadcast compound. This will be a sub-surface chamber with duty and standby pump arrangement and will be sized to accommodate 1 hour of peak inflow in case of mechanical or electrical failure. The station should also be fitted with a high-level alarm, which could be linked back to the Building Management System (BMS). The rising main from this unit will run north and over the new isolation structure to connect into the northern foul network.

Rainwater falling onto the playing pitch of the stadium will be collected separately to other catchments. Fertiliser will be present in the water and therefore any discharge from this system will need to be directed to the foul water system.

3.5 Calculation of Foul Flow Rates

3.5.1 Sanitary Fittings

In the case of a football stadium, there will be extreme peaks in the foul flows, particularly at half time and straight after the match. At these times all toilet facilities can assumed to be in use simultaneously. Therefore, a calculation based on Discharge Units (DU's) is deemed appropriate to give a conservative peak discharge figure.

Based on the latest Architect layouts, the number of sanitary appliances has been calculated and associated DU values applied to them, as shown below. This includes for areas open to spectators and showers and sinks within team changing, physio areas and other back of house facilities.

An allowance for catering facilities has also been made based on GA plans provided by the architect, areas include: small kitchenettes, cold prep room, prep kitchen, main kitchen and a laundry facility. It should be noted that peak flows from these areas is unlikely to coincide with the peak flows from public facilities.

Total number of discharge units, εDU = 2684

Therefore Qww = $k\sqrt{\epsilon}DU$ = 1.0 $\sqrt{2768}$ = **51.8 l/s**

Where;

- Qww = Wastewater flow rate (I/s)
- k = Frequency factor taken as 1.0 (congested use e.g. toilets open to the public)
- εDU = Sum of discharge units

3.5.2 Pitch Drainage

It is proposed for flows from the pitch to be directed to the foul sewers. The pitch will generate run-off at periods of high rainfall, estimated in the table below. The pitch has an underground drainage system below the playing surface. Water will percolate through the pitch before entering the pipework, which then drains by gravity to a collection point in the south-east corner. This arrangement will behave in a similar manner to an intensive green roof.

Table 3—2 Pitch Runoff Estimates

Rainfall event	Peak flow
1 in 1yr (no climate change)	2.9 l/s
1 in 5yr (no climate change	8.1 l/s
1 in 100yr (30% climate change)	36.6 l/s

It is not considered practicable or economic to design the downstream foul water network to accommodate an unrestricted flow from the pitch, as this will require long lengths of large pipework to cater for potential large pitch flows coinciding with a peak foul water flow. It is therefore proposed to attenuate the peak pitch run-off within a culvert located between the pitch and the pitch plant room. This will allow pitch flows entering the downstream network to be controlled and prevent overloading of the system.

Limiting flows from the pitch to a maximum of 20l/sec would require 250m³ of attenuation to be provided.

The total potential peak flow discharging off site is therefore 52.6 l/sec + 20 l/sec = **71.8 l/sec.** This is still considered to be a conservative figure. In reality the chance of a very large rainfall event coinciding with the peak foul water flow from the stadium is very low.

4 **Proposed Surface Water Drainage Strategy**

4.1 Objectives

The proposed surface water network will be designed to:

- Protect against flooding on the site for the following critical storms, in accordance with the 'Non-statutory technical standards for sustainable drainage systems' (DEFRA, 2015);
 - 1 in 30yr = no surface flooding of the system,
 - 1 in 100yr (+Climate Change) = temporary ponding in non-critical areas,
- Collect and convey surface water away from developed areas in a safe and controlled manner,
- Provide measures to improve the quality of run-off, where contamination could occur, prior to discharge,
- Be sustainable and maintainable,
- Be appropriate for and compliment a developed, landmark urban space, and
- Ensure structural integrity over the duration of the development design life.

4.2 Basis of Design & Assumptions

- Surface level drainage features will be adopted and maintained by Everton as landowner,
- Below ground surface water drainage systems (manholes, pipework, Outfalls and any proprietary treatment units) will be maintained by Everton, and have a design life of 60 years as a minimum.
- New penetrations of the listed dock wall should be avoided if possible. Where penetration cannot be avoided, the re-use of existing penetrations of the dock wall should be made if possible. Existing penetrations should be modified to suit pipe gradients and sizes and then new penetrations made if required as a last resort.
- Only areas of the site open the elements will drain to the surface water network, all entirely covered/enclosed areas of the site will drain to the foul water network, such as the service area,
- The field of play will have a specialist drainage system. The system will discharge to the foul water network. This is due to the presence of fertilisers making it unsuitable for discharge to the adjacent docks, and
- The River Mersey is tidal adjacent to the site and the local dock system overflows directly to the river. An uncontrolled discharge to the dock system therefore presents no risk of flooding, hence no attenuation is required within the application site.

4.3 Planning Policy, Design Codes and Standards Applied

The following national and local planning documents are relevant to the design of surface water drainage and SuDS:

• Statutory Development Plan (Liverpool UDP, 2002)

PROTECTION OF WATER RESOURCES EP12 1. Planning permission will not be granted for development which, in the opinion of the City Council following consultation with the Environment Agency, would adversely affect the quality or supply of surface water or groundwater as a result of:

- i. the nature of the surface or wastewater discharge; or
- ii. unsatisfactory arrangements for the disposal of foul sewage, trade effluent or surface water; or
- iii. the disturbance of contaminated land; or
- iv. the spillage or leakage of stored oil or chemicals.

2. Planning permission will not be granted for developments involving local abstraction of surface or ground water which in the opinion of the City Council following consultation with the Environment Agency would:

i. increase requirements for water, unless an adequate water supply already exists or would be provided in time to serve the development; or

ii. pose an unacceptable risk to the current supply of water users.

FLOOD PREVENTION EP13 1. Unless appropriate alleviation or mitigation measures are carried out, planning permission will not be granted for development which would:

- *i. be at direct unacceptable risk from flooding;*
- *ii. be likely to increase the risk of flooding elsewhere;*
- iii. cause loss of access to watercourses for future maintenance;
- iv. result in an adverse impact on the water environment due to additional surface water run off; or
- iv. have adverse effects upon the integrity of tidal and fluvial defences.

2. All works in, under, over or adjacent to water courses, waterbodies and the coast will need to be approved by the Environment Agency's Environmental Appraisal Procedure. Culverting and diversion will not be permitted except to enable reasonable access over a watercourse.

National Planning Policy Framework (NPPF, Feb 2019). Paragraph 163 is relevant to drainage and details:

When determining any planning applications, local planning authorities should ensure that flood risk is not increased elsewhere. Where appropriate, applications should be supported by a site-specific flood-risk assessment

Development should only be allowed in areas at risk of flooding where, in the light of this assessment (and the sequential and exception tests, as applicable) it can be demonstrated that:

a) within the site, the most vulnerable development is located in areas of lowest flood risk, unless there are overriding reasons to prefer a different location;

b) the development is appropriately flood resistant and resilient;

c) it incorporates sustainable drainage systems, unless there is clear evidence that this would be inappropriate;

d) any residual risk can be safely managed; and

e) safe access and escape routes are included where appropriate, as part of an agreed emergency plan

• Liverpool Local Plan, Submission Draft (May 2018) 'Policy R3 (Flood Risk and Water Management) states

...development proposals should protect and enhance water quality, reduce flood risk and include water efficiency measures. All proposals for development must follow the sequential approach to determining the suitability of land for development, directing new development to areas at the lowest risk of flooding and where necessary apply the exception test, as outlined in national planning policy. Developers will be required to demonstrate, where necessary, through an appropriate Flood Risk Assessment (FRA) at the planning application stage, that development proposals will not increase flood risk on site or elsewhere and should seek to reduce the risk of flooding. New development will be required to include or contribute to flood mitigation, compensation and/or protection measures, where necessary, to manage flood risk associated with or caused by the development. Unless appropriate alleviation or mitigation measures are carried out, planning permission will not be granted for development which would:

- A. be at direct unacceptable risk from flooding from all sources, including flooding due to, or exacerbated by, rising groundwater;
- B. be likely to increase the risk of flooding;
- C. cause loss of access to watercourses for future maintenance;
- D. result in an adverse impact on the water environment due to additional surface water run-off; or
- E. have adverse effects upon the integrity of tidal and fluvial defences

Development proposals should comply with the Water Framework Directive by contributing to the North West River Basin Management Plan and Mersey Estuary Management Plan objectives, by not adversely affecting water quality and should, where possible, seek to improve water quality unless it can be demonstrated that this would not be technically feasible.

Where reasonably practicable development proposals should incorporate Sustainable Drainage Systems (SUDs) to manage surface water run-off. SUDs should be designed to provide effective drainage; to take account of the likely impacts of climate change and the likely changes in impermeable area; to ensure pollution is controlled; and to enhance water quality and existing habitats and create new habitats where practicable. Proposals for major developments should assess the incorporation of a sustainable drainage scheme into the development at the earliest site-planning stage.

Proposals should demonstrate that there is adequate wastewater infrastructure and water supply capacity to serve the development. Where it is likely to create a specific shortfall or exacerbate existing deficiencies, developers will be required to adequately mitigate or compensate for those deficiencies, in line with Policies STP4 and STP5.'

- Non-Statutory Technical Standards for Sustainable Drainage Systems (TSSuDS) (Department for Environment, Food and Rural Affairs, March 2015) provides guidance for the hydraulic performance of Sustainable Drainage Systems (SuDS) systems to reduce flood risk and improve water quality of water discharging from a development site. The document provides guidance on best practice and is not a statutory requirement for approval.
- Local Authority SuDS Officer Organisation (LASOO) Non-Statutory Technical Standards for Sustainable Drainage – Practice Guidance

 LCC Greenfield/ Brownfield sites surface water management guidance for planning applications: Version 3 – May 2018

The storm water system network will be designed in accordance with the following Codes and Standards, as appropriate:

- BS EN 752 (2017), Drains and Sewer Systems Outside of Buildings Sewer system management,
- Building Regulations Part H (2010): Drainage and Waste Disposal (Approved Document H),
- Sewers for Adoption (7th Edition) A design and construction guide for developers,
- CIRIA C753 (2015), 'The SuDS Manual', and
- CIRIA C635 (2006), 'Designing for Exceedance in Urban Drainage Good Practice'.

4.4 SuDS Philosophy

The incorporation of Sustainable Drainage Systems (SuDS) is a key requirement for all new developments and has therefore been carefully considered for this project and implemented where possible. The methodology behind SuDS is to mimic natural drainage processes and control the discharge of surface water run-off in a hierarchical manner (the SuDS Management train) starting at the source as indicated by Figure 4—1. Each site is different, and the selection of which SuDS measures may be suitable needs to be carefully considered.





4.5 Assessment of SuDS Viability

The detailed design for the proposed surface water drainage strategy for the application site will be designed with the CIRIA SuDS manual, particularly the hierarchy for surface water drainage discharge in mind. The hierarchy is as follows:

1. Discharge to the ground via infiltration

2. Discharge to a watercourse or the sea

3. Discharge to existing drainage infrastructure

4.5.1 Discharge via Infiltration

Due to the Historic nature of the application site and the need to retain the existing BMD dock walls, discharge via infiltration is not deemed feasible.

4.5.2 Discharge to a Watercourse or the Sea

Following discussion with the EA, it has been agreed that the surface water can be discharged, unrestricted, to the River Mersey via the wider dock network controlled by Peel Ports. This is common practice for developments adjacent to tidally influenced rivers, especially when located at the downstream end of the river catchment. Drainage through the wider dock network has been agreed with Peel during a meeting on 22nd October 2019.

As such this option for discharge can be utilised. Where water is clean, it can be discharged directly over the harbour wall edges (as per the existing situation), into the surrounding dock. Where treatment is required, water will pass through suitable cleansing systems (discussed in more detail later) prior to discharge to the new water channel.

4.5.3 Discharge to Existing Surface Water Infrastructure

As discussed above the nature and location of the application site allows for discharge to a watercourse to be utilised and only combined sewers are located within the vicinity of the site. For these reasons this option has been discounted.

Once the appropriate method of discharge has been selected the next step is to consider what SuDS features may be suitable for incorporation into the scheme.

The selection of SuDS features should be based on the SuDS Hierarchy and selection table shown below, although as discussed in this report the site conditions and constraints largely restrict the viability and choice of the solutions available.

SuDS Device	Suitable on Site	Comments
Permeable Pavement	No	Infiltration not considered viable.
		Pavement type not to be compatible with proposals to retain existing cobbles and desire to match new pavements to these. Unsuitable for use in HGV routes due to heavy loading.
Infiltration Trench	No	Infiltration not considered viable.

Table 4—1 SuDS Assessment

Infiltration Basin	No	Infiltration not considered viable.	
Soakaway	No	Infiltration not considered viable.	
Bio-retention/filter strips	No	Non-infiltrating arrangements may be suitable for use in any landscape buffers within the site, e.g. propriety SuDS tree pits. However, their potential for implementation will be limited and localised, hence have not been considered as a wider SuDS feature within the drainage design.	
Filter Trench	No	Infiltration not considered viable.	
Enhanced Dry Swale	No	No suitable landscape corridors identified	
Enhanced Wet Swale	No	Insufficient green space available – retention (attenuation) of water not required.	
Shallow Wetland	No	Insufficient green space available – retention (attenuation) of water not required.	
Extended Detention Wetland	No	Insufficient green space available – retention (attenuation) of water not required.	
Pond/wetland	No	Insufficient green space available – retention (attenuation) of water not required.	
Pocket Wetland	No	Insufficient green space available – retention (attenuation) of water not required.	
Submerged Gravel Wetland	No	Insufficient green space available – retention (attenuation) of water not required.	
Wetland Channel	No	Insufficient green space available – retention (attenuation) of water not required.	
Retention Pond	Yes	Water channel on site does serve as a retention pond and deliver a benefit to water quality by settling out silt and trapping floating debris before discharge to the wider dock network. No attenuation is needed so the feature has uncontrolled discharge to adjacent docks.	
Conveyance Swale	No	No suitable landscape corridors identified	
Detention Basin	No	Insufficient space – retention (attenuation) of water not required.	
Sub-surface Storage	No	Retention (attenuation) of Surface Water discharge not required.	
Rainwater Harvesting	Yes	Rainwater harvesting proposed.	
Green/Brown Roof	No	Lightweight stadium roof construction not appropriate for green roof loads.	

4.6 Water Quality Treatment Assessment

A water quality assessment has been carried out using the Simple Index Method as set out in the CIRIA SuDS Manual. This states that the index of the mitigation measure/s selected must match or exceed the index of the pollution hazard, based on land use, (for each contaminant type).

There are a couple of areas that are deemed a medium pollution hazard level as defined by the CIRIA SuDS Manual (extract below, highlighted in **red box**). These areas are proposed to be discharged to the **foul water system**.

- The pitch This has its own pumped drainage system and will contain fertilisers in the run-off. As such this will be discharged to the foul water network, and
- Service/Delivery area This zone will accommodate manoeuvring and parked HGVs for unloading. The area is covered and therefore run-off will be limited to wash-down, spillages and small volumes of wind driven rain. This increases the possibility of run-off becoming contaminated and therefore it is intended this zone is drained to the foul water network.

The rest of the areas of site are considered low risk on the pollution hazard index (highlighted with **blue boxes**), these include:

- Car Parking surface car parking is provided on the west quay area. The car park provides a limited number of spaces and will be used infrequently, hence less than 300 traffic movements per day,
- Outside Broadcast Area an area of the car parking noted above will be segregated for use by OB vehicle parking during a televised match. The area will be used infrequently for parking a small number of outside broadcast vehicles, it will therefore hence generate far less than the 300 traffic movements per day threshold noted in the pollution hazard ratings.
- Vehicle access routes (less than 300 traffic movements per day average), and public realm, and
- Stadium Roof.

Treatment to these areas is provided by a proprietary system (a Downstream Defender) installed immediately upstream of the outfalls. The SuDS Manual states that 'These must demonstrate that they can address each of the contaminant types to acceptable levels for frequent events up to approximately the 1 in 1-year return period event, for inflow concentrations relevant to the contributing drainage area'. The pollution mitigation indices for this unit are highlighted in Figure 4—3.

20.2	Land use	Pollution hazard level	Total suspended solids (TSS)	Metals	Hydro- carbons
	Residential roofs	Very low	0.2	0.2	0.05
Passes through	Other roofs (typically commercial/ industrial roofs)	Low	0.3	0.2 (up to 0.8 where there is potential for metals to leach from the roof)	0.05
Downstream Defender	Individual property driveways, residential car parks, low traffic roads (eg cul de sacs, homezones and general access roads) and non- residential car parking with infrequent change (eg schools, offices) ie < 300 traffic movements/day	Löw	0.5	0.4	0.4
Discharges to Foul Water Network	Commercial yard and delivery areas, non-residential car parking with frequent change (eg hospitals, retail), all roads except low traffic roads and trunk roads/motorways ¹	Medium	0.7	0.6	0.7
	Sites with heavy pollution (eg haulage yards, lorry parks, highly frequented lorry approaches to industrial estates, waste sites), sites where chemicals and fuels (other than domestic fuel oil) are to be delivered, handled, stored, used or manufactured; industrial sites; trunk roads and motorways ¹	High	0.8²	0.82	0.9 ²

Figure 4—2 Pollution Hazard Ratings (CIRIA)

Hydro Mitigation Indices					
Product	TSS Index	Metals Index	Liquid HC Index		
UpFlo Filter	0.8	0.69	0.4		
First Defence	0.5	0.4	0.8		
Biofilter	0.8	0.8	0.8		
Downstream Defender	0.5	0.4	0.8		

Figure 4—3 Downstream Defender Pollution Removal Details

4.7 Climate Change Adaptation

The Environment Agency publish allowances for the potential impact of climate change on rainfall and surface water run-off. Climate change is a critical part of any assessment of flood risk and assessment of surface water design

mitigation measures (from Government website https://www.gov.uk/guidance/flood-risk-assessments-climate-change-allowances)

In accordance with Table 2 of this guidance (reproduced below), the following climate change allowance is included in the drainage design for the development, based on a building design life not exceeding 100 years:

• Surface Water Drainage: Additional peak rainfall intensity added 40%.

Table 2 peak rainfall intensity allowance in small and urban catchments (use 1961 to 1990 baseline)

Applies across all of England	Total potential change anticipated for the '2020s' (2015 to 2039)	Total potential change anticipated for the '2050s' (2040 to 2069)	Total potential change anticipated for the '2080s' (2070 to 2115)
Upper end	10%	20%	40%
Central	5%	10%	20%

Figure 4—4 Extract from .GOV Website Showing Climate Change Allowances

4.8 Description of Surface Water Drainage

The site catchments have been split to reflect the proposed layout of the site and minimise the number of penetrations through the historic harbour walls that are being retained (refer to Figure 4—5).



Figure 4—5 Drainage Catchment Plan

Legend					
Catchment draining to North East (NE) Network (Green)					
-	Gross Area Impermeable Area	= 3.45 ha = 3.018 ha			
Catchm	ent draining to Central (C) N	letwork (Blue)			
-	Gross Area Impermeable Area	= 2.166 ha = 1.926 ha			
Catchm	Catchment draining to western Car Park (CP) Network (Grey)				
-	Gross Area Impermeable Area	= 0.66 ha = 0.56 ha			
Catchment draining to South (S) Network (Red)					
-	Gross Area Impermeable Area	= 0.216 ha = 0.184 ha			
Area draining directly over edge (Beige)					
-	Gross Area	= 0.586 ha			
Area draining to existing gullies (Purple)					
-	Gross Area	= 0.273 ha			

The eastern half of the stadium roof and the eastern fan zone, along with the majority of the access road from the north-east corner of the Hydraulic Tower up to the new isolation structure to the north-west, form one catchment (shown green above). This catchment is collected by a network that runs around the north-east of the site, under the access road, heading west, before passing through a downstream defender unit. It then discharges, via a new outfall under the proposed northern isolation structure, into the proposed new water channel and thereafter into the dock system.

The second catchment takes the western roof area, the raised podium structure to the west of the stadium and ground level zone between the podium steps and the lower quayside steps (total area shown blue above). This catchment is collected by a network that runs under the west stand before passing through a downstream defender unit and discharging, via a new culverted outfall, through the new wall forming the water channel.

The third catchment is the area to the west of the site (shown grey above). This area comprises a surface car park, OB compound, DNO compound and a small welfare building housing toilets, OB cabinet and small sub-station. Grow light storage is provided to the north of the DNO compound. Flows from this area will be directed to new channel drains. Flows will then be collected in a below ground network and taken north to pass through a 'Downstream defender' unit prior to discharging via a new outfall under the proposed northern isolation structure, into the proposed new water channel and thereafter into the dock system.

The final catchment collects the small exposed areas to the south of the site (shown red above). and any wind-driven rain that is blown below the main cantilevered roof in this location. Flows are intercepted by a linear channel drain running parallel to the Nelson Dock wall, before flowing into Nelson dock via an existing outfall through the dock wall. It is proposed that the gravity roof downpipes serving the lower roof and southern balcony, below the main roof structure, are discharged directly to this network. There is minimal flow expected from these under-croft roofs as it will be protected by the main stadium roof above. Given the small catchment area is it proposed that interception of hydrocarbons and silt is achieved by using trapped channel drain outlets and a silt trap chamber immediately upstream of the outfall.

The lower quayside composite decking zone adjacent to the water channel to the west of the stadium will have a gentle slope towards the water channel to drain over edge, along with other minor areas of the site adjacent to the water edge (shown beige above).

The access road to the west of the car park/OB compound already slopes towards the River Mersey wall, where a number of large existing gullies (Figure 2—2) will collect the flows. These discharge into Nelson Dock (shown purple above).

Bramley Moore Dock is already connected to Nelson Dock to the south via the existing southern isolation structure. This structure is to remain in place to form the southern end of the new water channel. The structure has a number of pipes passing through, each has a penstock control. To the north a proposed new isolation structure will have large diameter pipes connecting through to Sandon Half-Tide Dock with no flow controls. This will allow free flow of water into Sandon Half-Tide Dock at all times and into Nelson Dock when required by Peel.

Microdrainage simulations for these networks are shown in Appendix B.



Figure 4—6 Downstream Defender

The proposed surface water drainage layout is presented on the drawings contained in Appendix C.

Some of the roof drainage is Siphonic and therefore special pressure break chambers will be required where these downpipes connect (such as the example shown in Figure 4—7 below). This allows the siphon to be broken turning the flow into normal gravity pipe flow.



Figure 4—7 Typical SIphonic Break Chamber

4.9 Rainfall Data used for Simulation

The Flood Estimation Handbook (FEH) 2013 data set, purchased from the FEH web service, has been used to analyse rainfall at the site. This data set only allows simulation down to a 1 in 2yr rainfall return period and therefore this is the base level event pipework has been sized for.

As per national guidance (TSSuDS) and to protect against surface water flooding, three critical rainfall events have been considered to ensure the surface water design is appropriate. These are described below;

- 1 in 2yr: Used to initial size pipework and ensure self-cleansing velocities are achieved where possible.
- 1 in 30yr: To ensure no flooding to any part of the site. Surcharging of pipes and manholes acceptable.
- 1 in 100yr (+40% climate change): Any temporary flood water is directed away from buildings and stored on the site in non-critical areas. Depths should not exceed 300mm in vehicular areas to avoid the chance of flood waters moving vehicles.

Simulation of these key rainfall events has been run in microdrainage software to show that no flooding occurs during a 1 in 30yr event. Some temporary flooding does occur for the 100yr (+40%) event as discussed below.

4.10 Temporary Ponding During 1 in 100yr (+40% Climate Change) Event

The volumes of temporary ponding associated with each of the three networks and the pipe number where this flooding occurs is tabulated below and represented graphically in Figure 4—8 and Figure 4—9.

The graphical model represents the extent of flooding and gives a maximum temporary flood depth in that area. This shows that the volume of temporary flood can be accommodated in the low areas of the site without endangering the

main stadium or flowing off site. A minimal depth of water is expected to enter the external stair wells and lift lobbies at the NE and SE corners of the east stand adjacent to the fan zone. Water will only ever enter these areas during a 30 min duration 1 in 100yr (+40% climate change) rainfall event. These areas are essentially open to the elements and will be subjected to wind driven rain. Gullies or slot drains will be provided in the stair wells to take any wash down, wind driven rain or flood flows, and sump pits will be provided within the base of lift pits to allow flood water to be pumped out.

The maximum depth of any temporary surface water ponding is 105mm. This occurs in the fan zone and reaches a maximum level of 6.655mAOD in the 100yr (+40% CC) event (top of existing historic wall), this is 645mm below the finished floor level of the main stadium, which is set at 7.30mAOD, and would not affect safe emergency access or egress. This depth of water is considered a low hazard risk based on guidance from 'Flood Risk Assessment Guidance for New Development' (FD2320 and FD2321).

Duration analysis has been carried out on the temporary flooding within the drainage simulation model. This shows the worst case flooding to occur for a maximum of 30 minutes, between minutes 19 and 49 of the storm event (refer to the Network Pipe Capacity Graphs in Appendix D). The likelihood of this coinciding with a match ingress/egress is very small. During this time the rainfall intensity peaks at 460mm/hour, so it's considered unlikely anyone will be venturing beyond the cover of the stadium during this time, even if an event were taking place the time.

4.10.1 Central Network

No flooding up to and including 1 in 100yr (+40% climate change) event.

4.10.2 North-Eastern Network

Pipe Number (from microdrainage model)	Volume of temporary flooding to store at surface (cu.m) 15min Storm	Volume of temporary flooding to store at surface (cu.m) 30min Storm	Volume of temporary flooding to store at surface (cu.m) 60min Storm	Total Flood Volume and Location
1.000	-	9.4	-	102 cu.m in Fan Zone
2.000	1.9	11.4	6.1	during 30 minute
2.001	-	3.4	-	3.0111.
3.001	11.5	29.1	19.5	
3.002	-	6.1	-	
2.002	6.5	27.8	11.3	
4.004	0.9	15.1	-	

4.10.3 Car Park Network

Pipe Number (from microdrainage model)	Volume of temporary flooding to store at surface (cu.m) 15 min storm	Total Flood Volume and Location
1.000	6.5	18.9 cu.m in car park.
1.001	4.7	
2.000	4.5	
2.001	2.3	
1.002	0.9	



Figure 4—8 Plan showing temporary ponding and depths in fan zone during 15 min 1 in 100yr (+40% climate change) event



Figure 4—9 Plan showing temporary ponding and depths in car park during 15 min 1 in 100yr (+40% climate change) event

4.11 Surcharged Outfall Analysis

According to the Nelson Dock isolation structure drawing (L24298/01) provided as an Appendix to the Liverpool Waters FRA (planning application ref:100/2424 - now varied by ref. 19NM/1121), the water levels in Bramley Moore Dock are understood to be maintained within an operational range between 4.55 mAOD and 5.16 mAOD.

Monitoring of water levels in Bramley Moore Dock and Nelson Dock was undertaken for 2 months between September and November 2020, the results are shown in Figure 4—10. Bramley Moore Dock is shown to have a more usual operation range between 4.4mAOD and 5.2mAOD, however a couple of discreet peaks in water levels are noted in the data, where water reached a peak of 5.531mAOD. Nelson dock is separated from Bramley Moore by the southern isolation structure and is shown to have a less variable water level with less tidal influence.

Table 4—2 Water	Levels from	2020 Survey
-----------------	-------------	-------------

	Min (mAOD)	Mean (mAOD)	Max (mAOD)
Bramley Moore Dock	4.398	4.893	5.531
Nelson Dock	4.889	5.200	5.448

A highest figure of 5.53mAOD has been used to simulate the effects of surcharged outfalls to the surface water network design. It should be noted that this is an infrequent occurrence hence the probability of it occurring in combination with a 1 in 100 year rainfall event (+40% climate change) is small.

Three is no notable difference in the temporary flood volume when the outfalls are surcharged. The full Microdrainage simulation results are included in Appendix B.



Figure 4—10 BMD and Nelson Dock Water Level Monitoring Results

4.12 Overland Flow Routes

An assessment of overland flow routes has been completed to establish the route of surface water flooding in the event of infrastructure failure or blockage, or from a rainfall event in exceedance of the design.

Overland flow routes are shown on the drawing in Appendix C, an extract is show in Figure 4—11. Water would pond temporarily in the low areas around channel drains and gullies before reaching a maximum depth of 250mm. Water would then flow over the harbour wall edges into the Nelson Dock and the water channel. A small upstand wall (150mm) along the northern boundary with United Utilities (UU) Waste Water Treatment Works (WWTW) site will ensure any temporary surface flooding in an exceedance event stays within the application site. The existing UU WWTW (Sandon) site slopes in a northerly direction away from the boundary of the application site ensuring surface water from this site cannot pond against the upstand and overflow to the application site.

External levels are designed to fall away from thresholds on the ground floor. The majority of the ground floor is raised to a flood protection level of 7.3mAOD, hence will not be prone to surface water flooding. However, the stair cores in the north-east are set a lower level for heritage reasons and are prone to shallow, short term ponding under very extreme events as described in section 4.10 above.



Figure 4—11 Exceedance Flows and Ponding Areas

4.13 Wave Over topping

In extreme events there is a possibility of wave overtopping occurring over the existing River Mersey wall to the west of the site, affecting a zone running parallel with the wall and extending 15m back from the Riverside face. This scenario is discussed in more detail within the Flood Risk Assessment, including proposed mitigation measures.

The total peak volume for the 1 in 200yr overtopping event (including climate change allowance) has been calculated within the FRA and estimated as 460cu.m, based on the length of exposed wall and volume per metre. As a safety check this volume has been analysed across the west quay area of the site, assuming an extreme worst-case scenario of all surface water drainage being blocked. The levels are designed such that water can only reach a maximum depth of 200mm within the car park, before overflowing to the new water channel. This ensures the risk to the public is low (based on a low hazard rating from 'Flood Risk Assessment Guidance for New Development' (FD2320 and FD2321) and is below the 300mm threshold level where vehicles can start to be moved by flood waters, as advised by Planning
Policy Statement 25 (PPS25) guidance. (It is noted that this planning guidance is now superseded, however this specific depth requirement is not addressed in the NPPF).

4.14 Operation and Maintenance

The surface water outlets should be visually inspected to check for any blockages and cleared when necessary, jetting access will be made possible from the upstream manholes. Any catch pits should be routinely inspected to check silt levels and cleared as and when necessary. Gullies, channel drains and outlet sumps to be periodically inspected and cleaned, with particular care taken for those near the low-level fan zone doors. Removable sediment buckets to be installed within gully and channel sump units for ease of maintenance.

The downstream defender should be inspected and maintained in-line with the supplier's recommendations, the unit is designed to allow easy access for suction cleaning vehicles.

The foul packaged pumping station, associated with the OB toilets, will need to be regularly inspected and maintained as recommended by the supplier. The unit should be fitted with duty and standby pump arrangement and a high-level alarm in case of mechanical or electrical failure. As set out in the basis of design an emergency storage allowance of 1 hour of peak inflow will be designed for.

Any specific operation or maintenance information, such as for the packaged pump station, separator unit and downstream defender will be included within the Operation and Maintenance (O&M) manual produced at practical completion.

4.15 Conclusion

This document presents strategies for surface and foul water drainage that comply with the Liverpool UDP (as statutory development plan) and relevant material considerations including the NPPF (February 2019) and the Liverpool Local Plan (2018 Submission Version, May 2018):

- The proposed development does not increase the risk of flooding elsewhere.
- Discharge of surface water is to the tidal River Mersey via the wider dock network.
- The development does not result in an adverse impact on the water environment due to additional surface water run-off, nor adversely affect the quality or supply of surface water or groundwater.
- The delivery area is considered a medium risk for potential contamination. It is therefore enclosed and drains to the foul water network. All other areas of the site are lower risk and discharge through the surface water system via a 'Downstream Defender'. This is in accordance with the SuDS Manual.
- The drainage system is designed to accommodate climate change. A 40% allowance has been made for peak rainfall intensity in accordance with current government guidance (see Figure 4—4)

Appendix A Proposed FW Drainage Calculations



BuroHappold Ltd							
Camden Mill	THE PEOPLES PROJECT						
Lower Bristol Road	FW DRAINAGE	the set					
Bath		Micro					
Date 14/08/2020 10:05	Designed by FDR	Desinado					
File FW_Gravity_Network_200814.MDX	Checked by AH	Drainage					
Innovyze	Network 2019.1						

FOUL SEWERAGE DESIGN

Design Criteria for FW Network - Option B

Pipe Sizes STANDARD Manhole Sizes STANDARD

0	ange (%)	Add Flow / Climate C	0.00	Industrial Flow (l/s/ha)
0.600	ight (m)	Minimum Backdrop H	0.00	Industrial Peak Flow Factor
20.000	ight (m)	Maximum Backdrop H	EN 752	Calculation Method
0.500	tion (m)	Min Design Depth for Optimis	1.00	Frequency Factor
0.75	ly (m/s)	Min Vel for Auto Design o	0.00	Domestic (l/s/ha)
300	on (1:X)	Min Slope for Optimisat	6.00	Domestic Peak Flow Factor

Designed with Level Soffits

Network Design Table for FW Network - Option B

« - Indicates pipe capacity < flow

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F1.000	7.320	0.124	59.0	0.000	13.4	0.0	1.500	0	150	Pipe/Conduit	0
F2.000	18.629	0.124	150.0	0.000	22.6	0.0	1.500	0	150	Pipe/Conduit	0
F1.001	13.592	0.091	150.0	0.000	59.6	0.0	1.500	0	150	Pipe/Conduit	•
F3.000	15.298	0.165	92.7	0.000	0.0	0.0	1.500	0	150	Pipe/Conduit	•
F1.002	16.272	0.108	150.0	0.000	0.0	0.0	1.500	0	150	Pipe/Conduit	٥
F4.000	10.364	0.358	28.9	0.000	23.1	0.0	1.500	0	150	Pipe/Conduit	•
F1.003	10.835	0.072	150.0	0.000	83.1	0.0	1.500	0	150	Pipe/Conduit	•
F5.000 F5.001	18.539 21.275	0.124 0.231	150.0 92.1	0.000	16.4 6.0	0.0	1.500 1.500	0 0	150 150	Pipe/Conduit Pipe/Conduit	•
F1.004	11.475	0.051	225.0	0.000	41.9	0.0	1.500	0	225	Pipe/Conduit	0

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (l/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (1/s)	Flow (l/s)
F1.000	6.500	0.000	0.0	13.4	0.0	43	0.86	1.14	20.2	3.7
F2.000	6.500	0.000	0.0	22.6	0.0	64	0.66	0.71	12.6	4.8
F1.001	6.376	0.000	0.0	95.6	0.0	99	0.79	0.71	12.6	9.8
F3.000	6.450	0.000	0.0	0.0	0.0	0	0.00	0.91	16.1	0.0
F1.002	6.285	0.000	0.0	95.6	0.0	99	0.79	0.71	12.6	9.8
F4.000	6.535	0.000	0.0	23.1	0.0	41	1.20	1.63	28.8	4.8
F1.003	6.177	0.000	0.0	201.8	0.0	150	0.71	0.71	12.6«	14.2
F5.000	6.460	0.000	0.0	16.4	0.0	59	0.64	0.71	12.6	4.0
F5.001	6.336	0.000	0.0	22.4	0.0	56	0.79	0.91	16.1	4.7
F1.004	6.030	0.000	0.0	266.1	0.0	118	0.78	0.76	30.4	16.3

BuroHappold Ltd		Page 2
Camden Mill	THE PEOPLES PROJECT	
Lower Bristol Road	FW DRAINAGE	The second
Bath		Micco
Date 14/08/2020 10:05	Designed by FDR	Drainago
File FW_Gravity_Network_200814.MDX	Checked by AH	Diamaye
Innovyze	Network 2019.1	

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm.)	HYD SECT	DIA (mm)	Section Type	Auto Desigr
F1.005	4.652	0.021	225.0	0.000	25.5	0.0	1.500	0	225	Pipe/Conduit	0
F6.000	16.502	0.467	35.3	0.000	18.8	0.0	1.500	0	150	Pipe/Conduit	•
F1.006	19.001	0.084	225.0	0.000	11.0	0.0	1.500	0	225	Pipe/Conduit	0
F7.000	29.604	0.576	51.4	0.000	12.5	0.0	1.500	0	150	Pipe/Conduit	0
F1.007	19.006	0.085	223.6	0.000	38.8	0.0	1.500	0	225	Pipe/Conduit	0
F8.000	12.921	0.586	22.0	0.000	18.1	0.0	1.500	0	150	Pipe/Conduit	0
F1.008	16.088	0.460	35.0	0.000	39.6	0.0	1.500	0	225	Pipe/Conduit	0
F9.000	22.511	0.156	144.3	0.000	0.0	0.0	1.500	0	150	Pipe/Conduit	0
F10.000	7.684	0.156	49.3	0.000	15.3	0.0	1.500	0	150	Pipe/Conduit	0
F9.001	13.224	0.935	14.1	0.000	15.9	0.0	1.500	0	150	Pipe/Conduit	0
F11.000	15.302	1.046	14.6	0.000	14.3	0.0	1.500	0	150	Pipe/Conduit	0
F1.009	13.617	0.061	225.0	0.000	118.1	0.0	1.500	0	225	Pipe/Conduit	0
F12.000	12.194	1.117	10.9	0.000	10.8	0.0	1.500	0	150	Pipe/Conduit	0
F1.010 F1.011	9.015 14.972	0.040 0.067	225.0 225.0	0.000	5.6 71.6	0.0	1.500 1.500	0	225 225	Pipe/Conduit Pipe/Conduit	8 8

<u>Network Results Table</u>

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (1/s)	Σ Units	Add Flow	P.Dep	P.Vel	Vel (m/s)	Cap (1/s)	Flow (1/s)
	(111)	(1101)	1100 (175)		(1/0)	(1111)	(111, 10)	(11, 10)	(1/0)	(1)0)
F1.005	5.979	0.000	0.0	291.6	0.0	121	0.79	0.76	30.4	17.1
F6.000	6.500	0.000	0.0	18.8	0.0	41	1.09	1.48	26.1	4.3
F1.006	5.958	0.000	0.0	321.4	0.0	124	0.79	0.76	30.4	17.9
F7.000	6.500	0.000	0.0	12.5	0.0	41	0.90	1.22	21.6	3.5
F1.007	5.874	0.000	0.0	372.7	0.0	130	0.81	0.77	30.5	19.3
F8.000	6.450	0.000	0.0	18.1	0.0	36	1.28	1.87	33.1	4.3
F1.008	5.789	0.000	0.0	430.4	0.0	79	1.65	1.94	77.3	20.7
F9.000	6.495	0.000	0.0	0.0	0.0	0	0.00	0.73	12.9	0.0
F10.000	6.495	0.000	0.0	15.3	0.0	43	0.94	1.25	22.1	3.9
F9.001	6.339	0.000	0.0	31.2	0.0	37	1.63	2.34	41.3	5.6
F11.000	6.450	0.000	0.0	14.3	0.0	31	1.43	2.30	40.6	3.8
F1.009	5.329	0.000	0.0	594.0	0.0	153	0.85	0.76	30.4	24.4
F12.000	6.460	0.000	0.0	10.8	0.0	27	1.51	2.66	47.0	3.3
F1 010	5 268	0 000	0 0	610 4	0 0	154	0 85	0 76	30 4	24 7
F1.011	5.228	0.000	0.0	682.0	0.0	161	0.86	0.76	30.4	26.1
			©19	82-2019	Innovyz	ze				

BuroHappold Ltd		Page 3
Camden Mill	THE PEOPLES PROJECT	
Lower Bristol Road	FW DRAINAGE	The second
Bath		Micro
Date 14/08/2020 10:05	Designed by FDR	Drainago
File FW_Gravity_Network_200814.MDX	Checked by AH	Diamaye
Innovyze	Network 2019.1	

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Desigr
F1.012	10.503	0.047	225.0	0.000	28.0	0.0	1.500	0	225	Pipe/Conduit	0
F1.013	4.312	0.019	225.0	0.000	0.0	0.0	1.500	0	225	Pipe/Conduit	ē
F1.014	6.338	0.028	225.0	0.000	0.0	0.0	1.500	0	225	Pipe/Conduit	0
F1.015	38.622	0.172	225.0	0.000	55.6	0.0	1.500	0	225	Pipe/Conduit	0
F13.000	8.524	0.057	150.0	0.000	13.7	0.0	1.500	0	150	Pipe/Conduit	0
F13.001	30.712	0.205	149.8	0.000	8.1	0.0	1.500	0	150	Pipe/Conduit	0
F14.000	14.409	0.262	55.0	0.000	4.5	0.0	1.500	0	150	Pipe/Conduit	0
F13.002	23.725	1.168	20.3	0.000	47.6	0.0	1.500	0	150	Pipe/Conduit	0
F1.016	42.159	0.187	225.0	0.000	61.0	0.0	1.500	0	225	Pipe/Conduit	A
F1.017	41.944	0.186	225.0	0.000	53.2	0.0	1.500	0	225	Pipe/Conduit	ĕ
F15.000	38.383	0.279	137.6	0.000	9.0	0.0	1.500	0	150	Pipe/Conduit	0
F16.000	11.081	0.279	39.7	0.000	14.5	0.0	1.500	0	150	Pipe/Conduit	0
F15.001	28.701	1.524	18.8	0.000	49.5	0.0	1.500	0	150	Pipe/Conduit	0
F1.018	24.037	0.107	225.0	0.000	78.5	0.0	1.500	0	225	Pipe/Conduit	0
F17.000	18.038	0.120	150.0	0.000	13.6	0.0	1.500	0	150	Pipe/Conduit	0
F18.000	16.189	0.120	134.9	0.000	0.0	0.0	1.500	0	150	Pipe/Conduit	0
F19.000	13.683	0.120	114.0	0.000	6.3	0.0	1.500	0	150	Pipe/Conduit	0

Network Results Table

PN	US/IL	Σ Area	Σ Base	Σ Units	Add Flow	P.Dep	P.Vel	Vel	Cap	Flow
	(m)	(ha)	Flow (l/s)		(1/s)	(mm)	(m/s)	(m/s)	(l/s)	(l/s)
F1.012	5.161	0.000	0.0	710.0	0.0	164	0.86	0.76	30.4	26.6
F1.013	5.114	0.000	0.0	710.0	0.0	164	0.86	0.76	30.4	26.6
F1.014	5.095	0.000	0.0	710.0	0.0	164	0.86	0.76	30.4	26.6
F1.015	5.067	0.000	0.0	765.6	0.0	169	0.86	0.76	30.4	27.7
F13.000	6.400	0.000	0.0	13.7	0.0	56	0.62	0.71	12.6	3.7
F13.001	6.343	0.000	0.0	21.8	0.0	63	0.66	0.71	12.6	4.7
F14.000	6.400	0.000	0.0	4.5	0.0	32	0.75	1.18	20.9	2.1
F13.002	6.138	0.000	0.0	73.9	0.0	51	1.62	1.95	34.5	8.6
F1.016	4.895	0.000	0.0	900.5	0.0	182	0.87	0.76	30.4	30.0
F1.017	4.708	0.000	0.0	953.7	0.0	225	0.76	0.76	30.4«	30.9
F15.000	6.400	0.000	0.0	9.0	0.0	49	0.60	0.75	13.2	3.0
F16.000	6.400	0.000	0.0	14.5	0.0	40	1.01	1.39	24.6	3.8
F15.001	6.121	0.000	0.0	73.0	0.0	50	1.66	2.03	35.8	8.5
F1.018	4.522	0.000	0.0	1105.2	0.0	225	0.76	0.76	30.4«	33.2
F17.000	6.500	0.000	0.0	13.6	0.0	56	0.62	0.71	12.6	3.7
F18.000	6.500	0.000	0.0	0.0	0.0	0	0.00	0.75	13.3	0.0
F19.000	6.500	0.000	0.0	6.3	0.0	42	0.61	0.82	14.5	2.5

BuroHappold Ltd		Page 4
Camden Mill	THE PEOPLES PROJECT	
Lower Bristol Road	FW DRAINAGE	The second
Bath		Micco
Date 14/08/2020 10:05	Designed by FDR	Drainago
File FW_Gravity_Network_200814.MDX	Checked by AH	Diamaye
Innovyze	Network 2019.1	

PN	Length	Fall	Slope	Area	Units	Base	k (mm)	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(na)		Flow (1/S)	(mm)	SECT	(mm)		Design
F17.001	30.174	0.201	150.0	0.000	128.4	0.0	1.500	0	150	Pipe/Conduit	•
F20.000 F20.001	18.244 14.423	0.122 0.299	150.0 48.2	0.000 0.000	7.3 28.6	0.0	1.500 1.500	0	150 150	Pipe/Conduit Pipe/Conduit	0 0
F21.000	9.431	0.063	150.0	0.000	61.8	0.0	1.500	0	150	Pipe/Conduit	0
F22.000	23.767	0.313	75.9	0.000	36.2	0.0	1.500	0	150	Pipe/Conduit	0
F21.001	15.161	0.108	140.4	0.000	72.7	0.0	1.500	0	150	Pipe/Conduit	0
F17.002	14.270	0.063	225.0	0.000	139.9	0.0	1.500	0	225	Pipe/Conduit	0
F23.000	20.681	0.434	47.7	0.000	46.7	0.0	1.500	0	150	Pipe/Conduit	0
F17.003 F17.004	14.128 10.554	0.063 0.047	225.0 225.0	0.000	21.2 19.1	0.0	1.500 1.500	0	225 225	Pipe/Conduit Pipe/Conduit	8
F24.000	23.108	0.594	38.9	0.000	33.2	0.0	1.500	0	150	Pipe/Conduit	0
F17.005 F17.006	15.357 13.990	0.068	225.0 225.0	0.000	31.5	0.0	1.500	0	225 225	Pipe/Conduit Pipe/Conduit	0
F25.000	13.526	0.048	150.0	0.000	∠7.8 5.4	0.0	1.500	0	150	Pipe/Conduit	•
F26.000	5.962	0.090	66.2	0.000	1.0	0.0	1.500	0	150	Pipe/Conduit	8

<u>Network Results Table</u>

PN	US/IL	Σ Area	Σ Base	Σ Units	Add Flow	P.Dep	P.Vel	Vel	Cap	Flow
	(m)	(ha)	Flow $(1/s)$		(l/s)	(mm)	(m/s)	(m/s)	(l/s)	(l/s)
F17 001	6 200	0 000	0 0	1/0 2	0 0	110	0 01	0 71	10 G	10.0
F17.001	0.300	0.000	0.0	140.5	0.0	110	0.01	0.71	12.0	12.2
F20.000	6.600	0.000	0.0	7.3	0.0	47	0.57	0.71	12.6	2.7
F20.001	6.478	0.000	0.0	35.9	0.0	53	1.07	1.26	22.3	6.0
F21.000	6.350	0.000	0.0	61.8	0.0	86	0.75	0.71	12.6	7.9
F22 000	6 600	0 000	0 0	36.2	0 0	60	0 91	1 01	178	6 0
122.000	0.000	0.000	0.0	50.2	0.0	00	0.91	1.01	17.0	0.0
F21.001	6.287	0.000	0.0	170.7	0.0	150	0.74	0.74	13.0«	13.1
F17.002	6.104	0.000	0.0	494.8	0.0	143	0.83	0.76	30.4	22.2
F23 000	6 550	0 000	0 0	46 7	0 0	57	1 11	1 27	22 5	6.8
123.000	0.550	0.000	0.0	10.7	0.0	57	* • * *	1.2/	22.5	0.0
F17.003	6.041	0.000	0.0	562.7	0.0	150	0.84	0.76	30.4	23.7
F17.004	5.978	0.000	0.0	581.8	0.0	152	0.85	0.76	30.4	24.1
F24.000	6.600	0.000	0.0	33.2	0.0	49	1.14	1.41	24.9	5.8
F17.005	5,931	0.000	0.0	646.5	0.0	158	0.85	0.76	30.4	25.4
F17.006	5.863	0.000	0.0	646.5	0.0	158	0.85	0.76	30.4	25.4
F17.007	5.801	0.000	0.0	674.3	0.0	160	0.86	0.76	30.4	26.0
F25.000	6.500	0.000	0.0	5.4	0.0	44	0.54	0.71	12.6	2.3
E26 000	6 500	0 000	0 0	1 0	0 0	24	0 56	1 0.0	10 0	1 0
r20.000	0.500	0.000	0.0	1.0	0.0	24	0.56	1.08	19.0	1.0

BuroHappold Ltd		Page 5
Camden Mill	THE PEOPLES PROJECT	
Lower Bristol Road	FW DRAINAGE	the second
Bath		Micro
Date 14/08/2020 10:05	Designed by FDR	Drainago
File FW_Gravity_Network_200814.MDX	Checked by AH	Diamaye
Innovyze	Network 2019.1	

PN	Length (m)	Fall (m)	Slope (1:X)	Area (ha)	Units	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
F25.001	22.642	0.582	38.9	0.000	31.3	0.0	1.500	0	150	Pipe/Conduit	•
F17.008	11.653	0.614	19.0	0.000	141.8	0.0	1.500	0	225	Pipe/Conduit	0
F27.000	16.841	1.086	15.5	0.000	46.4	0.0	1.500	0	150	Pipe/Conduit	0
F17.009	6.802	0.039	174.4	0.000	9.4	20.0	1.500	0	225	Pipe/Conduit	0
F28.000	7.880	1.325	5.9	0.000	14.5	0.0	1.500	0	150	Pipe/Conduit	0
F17.010	15.164	0.051	300.0	0.000	55.6	0.0	1.500	0	300	Pipe/Conduit	8
F29.000	13.670	1.376	9.9	0.000	21.0	0.0	1.500	0	150	Pipe/Conduit	•
F17.011	23.145	0.634	36.5	0.000	20.9	0.0	1.500	0	300	Pipe/Conduit	8
F1.019	12.769	0.034	375.0	0.000	0.0	0.0	1.500	0	375	Pipe/Conduit	•
F1.020 F1.021	70.435 85.210	1.028	82.9	0.000	0.0	0.0	1.500	0	375	Pipe/Conduit Pipe/Conduit	8
F30.000 F30.001 F30.002 F30.003	13.884 18.613 5.247 18.199	0.093 0.124 0.035 0.081	150.0 150.0 150.0 225.0	0.000 0.000 0.000 0.000	20.5 123.9 36.0 0.0	0.0 0.0 0.0 5.0	1.500 1.500 1.500 1.500	0 0 0	150 150 150 225	Pipe/Conduit Pipe/Conduit Pipe/Conduit Pipe/Conduit	0 0 0
F31.000	11.692	0.233	50.2	0.000	2.0	0.0	1.500	0	150	Pipe/Conduit	8

<u>Network Results Table</u>

PN	US/IL	Σ Area	Σ Base	Σ Units	Add Flow	P.Dep	P.Vel	Vel	Cap	Flow
	(m)	(ha)	Flow (l/s)		(1/s)	(mm)	(m/s)	(m/s)	(l/s)	(l/s)
F25.001	6.410	0.000	0.0	37.7	0.0	51	1.16	1.41	24.9	6.1
F17.008	5.753	0.000	0.0	853.8	0.0	81	2.26	2.64	105.0	29.2
F27.000	6.300	0.000	0.0	46.4	0.0	42	1.67	2.23	39.4	6.8
F17.009	5.139	0.000	20.0	909.6	0.0	225	0.87	0.87	34.5«	50.2
F28.000	6.500	0.000	0.0	14.5	0.0	25	1.96	3.61	63.8	3.8
F17.010	5.025	0.000	20.0	979.7	0.0	225	0.90	0.80	56.4	51.3
F29.000	6.500	0.000	0.0	21.0	0.0	31	1.74	2.79	49.3	4.6
F17.011	4.974	0.000	20.0	1021.6	0.0	116	2.05	2.30	162.5	52.0
F1.019	4.265	0.000	20.0	2126.8	0.0	237	0.90	0.83	91.2	66.1
F1.020	4.231	0.000	20.0	2126.8	0.0	237	0.90	0.83	91.2	66.1
F1.021	4.043	0.000	20.0	2126.8	0.0	150	1.60	1.76	194.6	66.1
F30.000	6.500	0.000	0.0	20.5	0.0	62	0.66	0.71	12.6	4.5
F30.001	6.407	0.000	0.0	144.4	0.0	117	0.81	0.71	12.6	12.0
F30.002	6.283	0.000	0.0	180.4	0.0	150	0.71	0.71	12.6«	13.4
F30.003	6.173	0.000	5.0	180.4	0.0	127	0.80	0.76	30.4	18.4
F31.000	6.400	0.000	0.0	2.0	0.0	26	0.69	1.24	21.9	1.4

BuroHappold Ltd		Page 6
Camden Mill	THE PEOPLES PROJECT	
Lower Bristol Road	FW DRAINAGE	
Bath		Micro
Date 14/08/2020 10:05	Designed by FDR	Desinano
File FW_Gravity_Network_200814.MDX	Checked by AH	Diamaye
Innovyze	Network 2019.1	

PN	Length	Fall	Slope	Area	Units	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)		Flow (l/s)	(mm)	SECT	(mm)		Design
F30.004	26.315	0.117	225.0	0.000	44.6	0.0	1.500	0	225	Pipe/Conduit	0
F32.000	18.286	0.430	42.5	0.000	10.3	0.0	1.500	0	150	Pipe/Conduit	0
F30.005	32.302	0.144	225.0	0.000	59.4	0.0	1.500	0	225	Pipe/Conduit	0
F33.000	7.270	0.053	137.2	0.000	7.3	0.0	1.500	0	150	Pipe/Conduit	0
F34.000	7.999	0.053	150.0	0.000	1.6	0.0	1.500	0	150	Pipe/Conduit	0
F33.001	19.019	0.541	35.2	0.000	22.4	0.0	1.500	0	150	Pipe/Conduit	0
F30.006	17.901	0.080	223.8	0.000	53.6	0.0	1.500	0	225	Pipe/Conduit	8
F35.000	19.198	0.574	33.4	0.000	8.6	0.0	1.500	0	150	Pipe/Conduit	8
F30.007	31.524	0.140	225.0	0.000	43.3	0.0	1.500	0	225	Pipe/Conduit	0
F36.000	10.816	0.854	12.7	0.000	4.6	0.0	1.500	0	150	Pipe/Conduit	0
F30.008	37.950	0.169	225.0	0.000	78.4	0.0	1.500	0	225	Pipe/Conduit	A
F30.009	64.622	0.287	225.0	0.000	40.9	0.0	1.500	0	225	Pipe/Conduit	Ā
F30.010	59.165	1.990	29.7	0.000	0.0	0.0	1.500	0	225	Pipe/Conduit	ĕ
F1.022	26.774	0.090	297.5	0.000	0.0	0.0	1.500	0	375	Pipe/Conduit	A

Network Results Table

PN	US/IL (m)	Σ Area (ha)	Σ Base Flow (l/s)	Σ Units	Add Flow (1/s)	P.Dep (mm)	P.Vel (m/s)	Vel (m/s)	Cap (1/s)	Flow (l/s)
F30.004	6.092	0.000	5.0	227.0	0.0	134	0.82	0.76	30.4	20.1
F32.000	6.480	0.000	0.0	10.3	0.0	37	0.93	1.35	23.8	3.2
F30.005	5.975	0.000	5.0	296.7	0.0	143	0.83	0.76	30.4	22.2
F33.000	6.500	0.000	0.0	7.3	0.0	46	0.59	0.75	13.2	2.7
F34.000	6.500	0.000	0.0	1.6	0.0	32	0.45	0.71	12.6	1.3
F33.001	6.447	0.000	0.0	31.3	0.0	47	1.17	1.48	26.2	5.6
F30.006	5.831	0.000	5.0	381.6	0.0	153	0.85	0.77	30.4	24.5
F35.000	6.400	0.000	0.0	8.6	0.0	34	0.99	1.52	26.8	2.9
F30.007	5.751	0.000	5.0	433.5	0.0	159	0.86	0.76	30.4	25.8
F36.000	6.540	0.000	0.0	4.6	0.0	23	1.26	2.47	43.7	2.1
F30.008 F30.009 F30.010	5.611 5.442 5.155	0.000 0.000 0.000	5.0 5.0 5.0	516.5 557.4 557.4	0.0 0.0 0.0	169 174 91	0.86 0.87 1.91	0.76 0.76 2.11	30.4 30.4 83.9	27.7 28.6 28.6
F1.022	3.015	0.000	25.0	2684.2	0.0	243	1.02	0.93	102.5	76.8

Appendix B Proposed SW Drainage Calculations

BuroHappold Ltd		Page 1
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	
Bath	Central (C) Network	Micco
Date 17/12/2020 16:49	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
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STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for SW C

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and WalesReturn Period (years)5PIMP (%)100M5-60 (mm)18.800Add Flow / Climate Change (%)0Ratio R0.400Minimum Backdrop Height (m)0.200Maximum Rainfall (mm/hr)250Maximum Backdrop Height (m)1.500Maximum Time of Concentration (mins)30Min Design Depth for Optimisation (m)0.600Foul Sewage (l/s/ha)0.000Min Vel for Auto Design only (m/s)1.00Volumetric Runoff Coeff.0.750Min Slope for Optimisation (1:X)500

Designed with Level Soffits

Network Design Table for SW C

(m) (1:X) (ha) (mins) Flow (1/s) (mm) SECT (mm) Des: 1.000 29.313 0.158 185.5 0.000 5.00 0.0 0.600 o 250 Pipe/Conduit 1 1.001 60.296 0.268 225.0 0.000 0.00 0.0 0.600 o 300 Pipe/Conduit 1	ign
1.000 29.313 0.158 185.5 0.000 5.00 0.0 0.600 o 250 Pipe/Conduit 1 1.001 60.296 0.268 225.0 0.000 0.00 0.0 0.600 o 300 Pipe/Conduit 1	•
1.001 60.296 0.268 225.0 0.000 0.00 0.00 0.0600 o 300 Pipe/Conduit	
	4
1.002 3.335 0.015 222.3 0.000 0.00 0.0 0.600 o 300 Pipe/Conduit	p p
1.003 5.809 0.026 223.4 0.000 0.00 0.0 0.600 o 300 Pipe/Conduit	p D
1.004 4.198 0.019 220.9 0.000 0.00 0.0 0.0 0.600 o 300 Pipe/Conduit	p
1.005 73.462 0.326 225.3 0.000 0.00 0.0 0.600 o 300 Pipe/Conduit	p D
1.006 57.236 0.254 225.3 0.000 0.00 0.0 0.600 o 300 Pipe/Conduit	p
2.000 53.979 0.270 199.9 0.000 5.00 0.0 0.600 o 225 Pipe/Conduit	5
1.007 25.508 0.073 349.4 0.000 0.00 0.0 0.600 o 400 Pipe/Conduit	5
1.008 15.369 0.044 349.3 0.000 0.00 0.0 0.600 o 400 Pipe/Conduit	<u> </u>
1.009 35.220 0.101 348.7 0.000 0.00 0.0 0.600 o 400 Pipe/Conduit	j.
3.000 12.814 0.050 256.3 0.000 5.00 0.0 0.600 o 300 Pipe/Conduit	•
3.001 6.831 0.120 56.9 0.785 0.00 0.0 0.600 o 500 Pipe/Conduit	<u> </u>
3.002 33.361 0.480 69.5 0.054 0.00 0.0 0.600 o 500 Pipe/Conduit	i.

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(mm/hr)	(mins)	(m)	(ha)	Flow (l/s)	(l/s)	(l/s)	(m/s)	(l/s)	(l/s)
1.000	82.12	5.48	6.635	0.000	0.0	0.0	0.0	1.02	50.3	0.0
1.001	76.32	6.44	6.477	0.000	0.0	0.0	0.0	1.04	73.8	0.0
1.002	76.03	6.49	6.209	0.000	0.0	0.0	0.0	1.05	74.2	0.0
1.003	75.53	6.58	6.194	0.000	0.0	0.0	0.0	1.05	74.1	0.0
1.004	75.17	6.65	6.168	0.000	0.0	0.0	0.0	1.05	74.5	0.0
1.005	69.45	7.83	6.149	0.000	0.0	0.0	0.0	1.04	73.7	0.0
1.006	65.64	8.74	5.823	0.000	0.0	0.0	0.0	1.04	73.7	0.0
2.000	78.99	5.98	6.600	0.000	0.0	0.0	0.0	0.92	36.6	0.0
1.007	64.04	9.16	5.468	0.000	0.0	0.0	0.0	1.00	126.2	0.0
1.008	63.12	9.42	5.395	0.000	0.0	0.0	0.0	1.00	126.2	0.0
1.009	61.11	10.00	5.351	0.000	0.0	0.0	0.0	1.00	126.3	0.0
3.000	83.86	5.22	6.450	0.000	0.0	0.0	0.0	0.98	69.1	0.0
3.001	83.59	5.26	5.800	0.785	0.0	0.0	0.0	2.88	566.2	177.7
3.002	82.16	5.47	5.680	0.839	0.0	0.0	0.0	2.61	512.2	186.6

BuroHappold Ltd		Page 2
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	The set
Bath	Central (C) Network	Micro
Date 17/12/2020 16:49	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamage
Innovyze	Network 2019.1	

Network Design Table for SW C

PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)		Design
4.000	12.588	0.100	125.9	0.000	5.00	0.0	0.600	0	300	Pipe/Conduit	A
4.001	6.657	0.030	221.9	0.723	0.00	0.0	0.600	0	500	Pipe/Conduit	Ă
4.002	16.016	0.167	95.9	0.000	0.00	0.0	0.600	0	500	Pipe/Conduit	ĕ
5.000	20.431	0.586	34.9	0.000	5.00	0.0	0.600	0	225	Pipe/Conduit	0
4.003	34.848	0.361	96.5	0.101	0.00	0.0	0.600	0	500	Pipe/Conduit	8
1.010	18.058	0.025	722.3	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	8
6.000	69.072	0.295	234.1	0.173	5.00	0.0	0.600	0	300	Pipe/Conduit	0
7.000	40.662	0.173	235.0	0.090	5.00	0.0	0.600	0	300	Pipe/Conduit	8
1.011	3.696	0.005	739.2	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	<u>A</u>
1.012	5.613	0.007	801.9	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ā
1.013	8.335	0.013	641.2	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	ē

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(11111/111)	(11111111111111111111111111111111111111	(ш)	(114)	FIOW (1/S)	(1/8)	(1/5)	(111/8)	(1/8)	(1/8)
4.000 4.001 4.002	84.34 83.81 82.99	5.15 5.23 5.35	6.100 5.800 5.770	0.000 0.723 0.723	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	1.40 1.45 2.22	99.0 285.5 435.6	0.0 164.1 164.1
5.000	84.32	5.15	6.422	0.000	0.0	0.0	0.0	2.22	88.4	0.0
4.003	81.27	5.61	5.603	0.824	0.0	0.0	0.0	2.21	434.2	181.3
1.010	60.17	10.29	4.950	1.662	0.0	0.0	0.0	1.03	456.6	270.8
6.000	78.11	6.13	5.670	0.173	0.0	0.0	0.0	1.02	72.3	36.7
7.000	80.92	5.66	5.548	0.090	0.0	0.0	0.0	1.02	72.2	19.8
1.011 1.012 1.013	59.97 59.67 59.28	10.35 10.45 10.58	4.925 4.920 4.913	1.926 1.926 1.926	0.0 0.0 0.0	0.0 0.0 0.0	0.0 0.0 0.0	1.02 0.98 1.10	451.3 433.1 484.9	312.8 312.8 312.8

Surcharged Outfall Details for SW C

Outfall Pipe Number	Outfall Name	c.	Level : (m)	Ι.	Level (m)	ı.	Min Level (m)	D,L (mm)	W (mm)
1.013	Channel East 1		6.700		4.900		4.600	2100	0

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| | | Durat | ion(s) (

 | mins) | 15,
30, 60, 12 | 20, 180, 240, 3 | 360, 480, 6 | 00, 720, | 960, |

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| | K | leturn Peri | to Chang

 | ears) |
 | | | 2, 30, | 100 |

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| | R | eturn Peri
Clima | te Chang

 | e (%) |
 | | | 2, 30,
0, 0 | 100
, 40 |

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| | R | eturn Peri
Clima | te Chang

 | e (%) |
 | | | 2,30,
0,0 | , 40 |

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| | ING (2001 | eturn Peri
Clima | te Chang

 | e (%) |
 | | | 2, 30,
0, 0 | 100
, 40
Water | Surcharged

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| PN | US/MH
Name | leturn Peri
Clima | Return
Period

 | Climate |
First (X)
Surcharge | First (Y) | First (Z)
Overflow | 2, 30,
0, 0
Overflow | 100
, 40
Water
Level | Surcharged
Depth
(m)

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 | | | | | | | | |
| PN | US/MH
Name | eturn Peri
Clima
Storm | Return
Period

 | Climate
Change |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m) | Surcharged
Depth
(m)

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| PN
1.000 | US/MH
Name
SWIC101 | eturn Peri
Clima
Storm
120 Winter | Return
Period

 | Climate
Change
+0% |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635 | Surcharged
Depth
(m)
-0.250

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| PN
1.000
1.001 | US/MH
Name
SWIC101
SWIC102 | Storm
120 Winter
120 Winter | Return
Period

 | e (%)
Climate
Change
+0% |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477 | Surcharged
Depth
(m)
-0.250
-0.300

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| PN
1.000
1.001
1.002 | US/MH
Name
SWIC101
SWIC102
SWIC103
Derd | Storm
120 Winter
120 Winter
120 Winter
120 Winter | Return
Period

 | <pre>climate (%) Climate Change +0% +0% +0% +0%</pre> |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300

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| PN
1.000
1.001
1.002
1.003 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter | Return
Period

 | Climate
Change
+0%
+0%
+0% |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
0.200

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| PN
1.000
1.001
1.002
1.003
1.004
1.005 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter | Return
Period

 | <pre>climate (%) Climate Change +0% +0% +0% +0% +0% +0% +0%</pre> |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300

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| PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter | Return
Period

 | <pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
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| PN
1.000
1.001
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1.003
1.004
1.005
1.006
2.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter | Return
Period
2
2
2
2
2
2
2
2
2
2
2
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2
2
2
2
2
2
2

 | <pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225

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| PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
1.007 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
SWIC104
SWIC104
SWIC105
SWIC106
SWIC107 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter | Return
Period
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2
2

 | <pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.400

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 | | | | | | | | |
| PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
1.007
1.008 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109 | Storm
120 Winter
120 Winter
15 Winter | Return Period 2 <tr tr=""> <!--</td--><td><pre>climate (%) Climate Change +0% +0</pre></td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456</td><td>Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339</td></tr> <tr><td>PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
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1.009</td><td>US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109b</td><td>Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter
15 Winter</td><td>Return Period 2 <tr tr=""> <tr <="" td=""><td><pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre></td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477</td><td>Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274</td></tr><tr><td>PN
1.000
1.001
1.002
1.003
1.004
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1.006
2.000
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3.000</td><td>US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
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SWMH110</td><td>Storm
120 Winter
120 Winter
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120 Winter
120 Winter
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120 Winter
120 Winter
120 Winter
15 Winter
120 Winter</td><td>Return Period
 2 2 2 <td><pre>e (%) climate Change +0%</pre></td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450</td><td>Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
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1.000
1.001
1.002
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3.001</td><td>US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH110</td><td>Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter
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15 Winter</td><td>Return Period 2 <tr tr=""> <tr <="" td=""><td>Climate
Change
+0%
+0%
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+0%</td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
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Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
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5.823
6.600
5.468
5.456
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6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.274
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171 | PN
1.000
1.001
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Name
SWIC101
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Bend
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SWMH109
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SWMH114
SWMH115
SWMH117
SWMH118
SWMH119 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
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120 Winter
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120 Winter
15 Winter | Return Period 2 2 | <pre>e (%) e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow
 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
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6.600
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5.640 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
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-0.274
-0.300
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-0.300
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1.000
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Name
SWIC101
SWIC102
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Bend
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SWIC104
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SWMH109
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SWMH112
SWMH115
SWMH116
SWRE01
JNC
SWMH117
SWMH118
SWMH120 | Storm
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15 Winter | Return Period 2 2 | e (%)
e (%)
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Change
+0%
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Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640
5.418 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.366
-0.220
-0.171
-0.208
-0.257 | PN
1.000
1.001
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1.009
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Name
SWIC101
SWIC102
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SWIC104
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SWRE01
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SWMH120
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120 Winter
120 Winter
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15 Winter | Return Period 2 2 | <pre>e (%) e (%) climate Change +0%
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Surcharge | First (Y)
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Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
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6.100
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5.959
6.422
5.767
5.480
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Depth
(m)
-0.250
-0.300
-0.300
-0.300
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-0.300
-0.283
-0.338
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 | | | | | | |
| <pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
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 | 2, 30,
0, 0
Overflow
Act. |
100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
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5.477 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
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| PN
1.000
1.001
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Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH110 | Storm
120 Winter
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Surcharge</td> <td>First (Y)
Flood</td> <td>First (Z)
Overflow</td> <td>2, 30,
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Overflow
Act.</td> <td>100
, 40
Water
Level
(m)
6.635
6.477
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Depth
(m)
-0.250
-0.300
-0.300
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-0.300
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-0.400
-0.339
-0.274
-0.300</td>

 | <pre>e (%) climate Change +0%</pre> |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
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-0.300

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| PN
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Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH110 | Storm
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120 Winter
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120 Winter
120 Winter
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120 Winter
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120 Winter
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15 Winter
15 Winter | Return Period 2 <tr tr=""> <tr <="" td=""><td>Climate
Change
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+0%</td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
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6.600
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Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
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-0.225
-0.400
-0.339
-0.274
-0.300
-0.283</td></tr><tr><td>PN
1.000
1.001
1.002
1.003
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3.002</td><td>US/MH
Name
SWIC101
SWIC102
SWIC103
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Bend
SWIC104
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SWIC106
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SWMH109
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SWMH112
SWMH113
SWMH113</td><td>Storm
120 Winter
120 Winter
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120 Winter
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15 Winter</td><td>Return
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Change
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Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
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5.456
5.477
6.450
6.017
5.842</td><td>Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
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-0.283
-0.283
-0.338
-0.238</td></tr><tr><td>PN
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Name
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SWIC102
SWIC103
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Bend
SWIC104
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SWIC106
SWIC107
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SWMH109
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SWMH112
SWMH114
SWMH114</td><td>Storm
120 Winter
120 Winter
120 Winter
120 Winter
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120 Winter
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15 Winter
15 Winter
15 Winter
15 Winter</td><td>Return Period 2 <tr tr=""> <tr <="" td=""><td>Climate
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+0%</td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
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Overflow
Act.</td><td>100
, 40
Water
Level
(m)
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6.477
6.209
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6.168
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6.017
5.842
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Depth
(m)
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-0.300
-0.300
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-0.330</td></tr><tr><td>PN
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Name
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SWIC102
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Bend
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SWMH114</td><td>Storm
120 Winter
120 Winter
120 Winter
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Winter
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15 Winter</td><td>Return Period 2 <tr tr=""> <tr <="" td=""><td>Climate
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Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
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5.477
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6.100
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5.959</td><td>Surcharged
Depth
(m)
-0.250
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SWIC102
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Bend
Bend
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SWMH115
SWMH116
SWRE01</td><td>Storm
120 Winter
120 Winter
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120 Winter
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15 Winter
10 Wi</td><td>Return Period 2 2</td><td><pre>e (%) climate</pre></td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
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6.600
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5.456
5.477
6.450
6.017
5.842
6.100
6.054
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Depth
(m)
-0.250
-0.300
-0.300
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-0.400
-0.339
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Overflow</td><td>2, 30,
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Overflow
Act.</td><td>100
, 40
Water
Level
(m)
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6.477
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6.422
5.767</td><td>Surcharged
Depth
(m)
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-0.225
-0.400
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SWRE01
JNC
SWMH117</td><td>Storm
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Overflow</td><td>2, 30,
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Depth
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 | US/MH
Name
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Bend
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SWMH116
SWRE01
JNC | Storm
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120 Winter
15 Winter | Return Period 2 2

 | <pre>e (%) climate (%) Climate Change +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
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Overflow
Act. | 100
, 40
Water
Level
(m)
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5.477
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6.017
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6.100
6.054
5.959
6.422
5.767 | Surcharged
Depth
(m)
-0.250
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-0.300
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-0.339
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SWMH109
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SWMH113
SWMH114
SWMH115
SWMH116
SWRE01
JNC
SWMH117 | Storm
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120 Winter
120 Winter
120 Winter
120 Winter
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120 Winter
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120 Winter
15 Winter
 | Return Period 2 2

 | e (%)
e (%)
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Surcharge
 | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
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6.054
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6.422
5.767
5.480 | Surcharged
Depth
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SWMH118 | Storm
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Overflow | 2, 30,
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Overflow
Act.
 | 100
, 40
Water
Level
(m)
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6.477
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5.823
6.600
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5.456
5.477
6.450
6.017
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6.054
5.959
6.422
5.767
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5.799 | Surcharged
Depth
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-0.300
-0.300
-0.300
-0.300
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-0.225
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-0.283
-0.274
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15 Winter | Return Period 2 2 | <pre>e (%) e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> | First (X)
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Water
Level
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6.209
6.194
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6.600
5.468
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6.017
5.842
6.100
6.054
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5.767
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Surcharged
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-0.300
-0.283
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-0.300
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-0.246
-0.311
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1.011 | US/MH
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SWIC103
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Bend
SWIC104
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SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH115
SWMH116
SWRE01
JNC
SWMH117
SWMH118
SWMH120 | Storm
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e (%)
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Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640
5.418 | Surcharged
Depth
(m)
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-0.300
-0.300
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-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
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1.012 | US/MH
Name
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SWIC102
SWIC103
Bend
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SWIC104
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SWMH121 | Storm
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120 Winter
15 Winter | Return Period 2 2 | <pre>e (%) e (%) climate Change +0%
+0% +0%</pre> | First (X)
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Flood | First (Z)
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Overflow
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, 40
Water
Level
(m)
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6.477
6.209
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5.477
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6.017
5.842
6.100
6.054
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5.456
5.477
6.450
6.017
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6.054
5.959
6.422
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5.408 | Surcharged
Depth
(m)
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| Climate
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 | 2, 30,
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Level
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Depth
(m)
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Name
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 | Climate
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 | 2, 30,
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Act. | 100
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Water
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Depth
(m)
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-0.238 | PN
1.000
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Name
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Bend
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SWMH114
SWMH114 | Storm
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120 Winter
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Act.</td><td>100
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Water
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(m)
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Depth
(m)
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SWRE01</td><td>Storm
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Water
Level
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Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
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Overflow
Act.</td><td>100
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Water
Level
(m)
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SWMH118</td><td>Storm
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5.408</td><td>Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171
-0.208
-0.257
-0.262</td></tr></tr> | Climate
Change
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act.
 | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.300
-0.283
-0.300
-0.246
-0.311 | PN
1.000
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1.005
1.006
2.000
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1.008
1.009
3.000
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3.002
4.000
4.001
4.002
5.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter
10 Winter
10 Winter
10 Winter
11 Winter
12 Winter
12 Winter
13 Winter
14 Winter
15 Winter
15 Winter
15 Winter
10 Wi | Return Period 2 2

 | <pre>e (%) climate</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
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-0.300
-0.283
-0.300
-0.246
-0.311
-0.225 | PN
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5.000
4.003 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
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SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01
JNC | Storm
120 Winter
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15 Winter | Return Period 2 2

 | <pre>e (%) climate (%) Climate Change +0%</pre> | First (X)
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Flood
 | First (Z)
Overflow

 | 2, 30,
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Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
-0.300
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-0.300
-0.283
-0.300
-0.246
-0.311
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-0.336 | PN
1.000
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Name
SWIC101
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SWIC103
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Bend
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SWMH109
SWMH110
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01
JNC
SWMH117 | Storm
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15 Winter | Return Period 2 2 | e (%)
e (%)
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+0%
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Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
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Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
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6.194
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5.823
6.600
5.468
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5.477
6.450
6.017
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Depth
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-0.225
-0.400
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-0.274
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-0.246
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-0.336
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Name
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Bend
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SWMH112
SWMH114
SWMH115
SWMH117
SWMH118 | Storm
120 Winter
120 Winter
15 Winter | Return Period 2
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+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.274
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171 | PN
1.000
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1.010
6.000
7.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
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SWIC106
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SWIC107
SWIC107
SWMH109
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SWMH109
SWMH112
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SWMH115
SWMH117
SWMH118
SWMH119 | Storm
120 Winter
120 Winter
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120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2 | <pre>e (%) e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre>
 | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
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Overflow
Act. | 100
, 40
Water
Level
(m)
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6.477
6.209
6.194
6.168
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5.823
6.600
5.468
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5.477
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6.017
5.842
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6.054
5.959
6.422
5.767
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Depth
(m)
-0.250
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-0.274
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-0.336
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Name
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SWIC102
SWIC103
Bend
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SWIC104
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SWMH109
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SWMH112
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SWMH116
SWRE01
JNC
SWMH117
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e (%)
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Flood | First (Z)
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0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
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6.209
6.194
6.168
6.149
5.823
6.600
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5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
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5.767
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(m)
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-0.300
-0.300
-0.300
-0.300
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-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
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-0.338
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Name
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Flood | First (Z)
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Overflow
Act. | 100
, 40
Water
Level
(m)
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6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
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5.477
6.450
6.017
5.842
6.100
6.054
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5.456
5.477
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6.017
5.842
6.100
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5.959
6.422
5.767
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5.640
5.418
5.408 | Surcharged
Depth
(m)
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-0.300
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-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171
-0.208
-0.257
-0.262 | | | | | |
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| Climate
Change
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Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
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Overflow
Act. |
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, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
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5.468
5.456
5.477
6.450
6.017 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
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-0.300
-0.300
-0.225
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-0.339
-0.274
-0.300
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| PN
1.000
1.001
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1.003
1.004
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2.000
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3.001
3.002 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH110
SWMH112
SWMH113
SWMH113 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
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120 Winter
120 Winter
120 Winter
15 Winter
15 Winter
15 Winter
15 Winter
15 Winter
15 Winter | Return
Period
2
2
2
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 | Climate
Change
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+0%
+0%
+0%
+0% |
First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.283
-0.338
-0.238

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| PN
1.000
1.001
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1.003
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4.000
4.001 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH110
SWMH112
SWMH114
SWMH114 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
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120 Winter
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15 Winter
15 Winter
15 Winter
15 Winter
15 Winter
15 Winter
15 Winter
15 Winter | Return Period 2 <tr tr=""> <tr <="" td=""><td>Climate
Change
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0%</td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100</td><td>Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
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1.000
1.001
1.002
1.003
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1.006
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Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
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SWMH112
SWMH113
SWMH114</td><td>Storm
120 Winter
120 Winter
120 Winter
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15 Winter</td><td>Return Period 2 <tr tr=""> <tr <="" td=""><td>Climate
Change
+0%
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+0%</td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
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6.450
6.017
5.842
6.100
6.054
5.959</td><td>Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
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-0.283
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-0.283
-0.300
-0.246
-0.311</td></tr><tr><td>PN
1.000
1.001
1.002
1.003
1.004
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5.000</td><td>US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
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SWMH110
SWMH112
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01</td><td>Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter
10 Winter
10 Winter
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11 Winter
12 Winter
12 Winter
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15 Winter
10 Wi</td><td>Return Period 2 2</td><td><pre>e (%) climate</pre></td><td>First (X)
Surcharge</td><td>First (Y)
Flood</td><td>First (Z)
Overflow</td><td>2, 30,
0, 0
Overflow
Act.</td><td>100
,
40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
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6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422</td><td>Surcharged
Depth
(m)
-0.250
-0.300
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-0.300
-0.300
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-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.300
-0.283
-0.300
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15 Winter | Return Period 2 2

 | <pre>e (%) climate (%) Climate Change +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.300
-0.283
-0.300
-0.246
-0.311
-0.225
-0.336

 | PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
1.007
1.008
1.009
3.000
3.001
3.002
4.000
4.001
4.002
5.000
4.003
1.010 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01
JNC
SWMH117 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | e (%)
e (%)
Climate
Change
+0%
+0%
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+0%
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+0%
+0%
+0%
+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.300
-0.283
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220

 | PN
1.000
1.001
1.002
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1.006
2.000
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1.008
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3.000
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4.002
5.000
4.003
1.010
6.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH114
SWMH115
SWMH117
SWMH118 | Storm
120 Winter
120 Winter
15 Winter
 | Return Period 2 2

 | e (%)
e (%)
Climate
Change
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+0%
+0%
+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.274
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171

 | PN
1.000
1.001
1.002
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1.008
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4.001
4.002
5.000
4.003
1.010
6.000
7.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWIC106
SWIC107
SWIC107
SWIC107
SWIC107
SWMH109
SWMH109
SWMH109
SWMH112
SWMH114
SWMH115
SWMH117
SWMH118
SWMH119 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | <pre>e (%) e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640
 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171
-0.208 | PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
1.007
1.008
1.009
3.000
3.001
3.002
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4.002
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4.003
1.010
6.000
7.000
1.011 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH115
SWMH116
SWRE01
JNC
SWMH117
SWMH118
SWMH120 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | e (%)
e (%)
Climate
Change
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0%
+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640
5.418 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.366
-0.220
-0.171
-0.208
-0.257 | PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
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1.008
1.009
3.000
3.001
3.002
4.000
4.001
4.002
5.000
4.003
1.010
6.000
7.000
1.011
1.012 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH114
SWMH115
SWMH116
SWRE01
JNC
SWMH117
SWMH118
SWMH119
SWMH120
SWMH121 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2
 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | <pre>e (%) e (%) climate Change +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.458
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640
5.418
5.408 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171
-0.208
-0.257
-0.262 | | | | |
 | | | | | | | | | | | | | | | | | |
 | | | | | | | | | | | | |
 | | | | | | | | | | | | |
 | | | | | | | | | | | | | | | | | |
| Climate
Change
+0%
+0%
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+0%
+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. |
100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.300
-0.283
-0.300
-0.246
-0.311 | PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
1.007
1.008
1.009
3.000
3.001
3.002
4.000
4.001
4.002
5.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter
10 Winter
10 Winter
10 Winter
11 Winter
12 Winter
12 Winter
13 Winter
14 Winter
15 Winter
15 Winter
15 Winter
10 Wi | Return Period 2 2

 | <pre>e (%) climate</pre>
 | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.300
-0.283
-0.300
-0.246
-0.311
-0.225 | PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
1.007
1.008
1.009
3.000
3.001
3.002
4.000
4.001
4.002
5.000
4.003 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01
JNC | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | <pre>e (%) climate (%) Climate Change +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.300
-0.283
-0.300
-0.246
-0.311
-0.225
-0.336 | PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
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1.009
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4.001
4.002
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4.003
1.010 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01
JNC
SWMH117 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | e (%)
e (%)
Climate
Change
+0%
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+0%
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+0%
+0%
+0%
+0%
+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.300
-0.283
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220 | PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
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1.008
1.009
3.000
3.001
3.002
4.000
4.001
4.002
5.000
4.003
1.010
6.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH114
SWMH115
SWMH117
SWMH118 | Storm
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | e (%)
e (%)
Climate
Change
+0%
+0%
+0%
+0%
+0%
+0%
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+0%
+0%
+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.274
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171 | PN
1.000
1.001
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6.000
7.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWIC106
SWIC107
SWIC107
SWIC107
SWIC107
SWMH109
SWMH109
SWMH109
SWMH112
SWMH114
SWMH115
SWMH117
SWMH118
SWMH119 | Storm
120 Winter
120 Winter
120 Winter
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120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | <pre>e (%) e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171
-0.208 | PN
1.000
1.001
1.002
1.003
1.004
1.005
1.006
2.000
1.007
1.008
1.009
3.000
3.001
3.002
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4.001
4.002
5.000
4.003
1.010
6.000
7.000
1.011 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH115
SWMH116
SWRE01
JNC
SWMH117
SWMH118
SWMH120 | Storm
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120 Winter
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120 Winter
120 Winter
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120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2 | e (%)
e (%)
Climate
Change
+0%
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+0%
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+0%
+0%
+0% | First (X)
Surcharge | First (Y)
Flood
 | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640
5.418 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.366
-0.220
-0.171
-0.208
-0.257 | PN
1.000
1.001
1.002
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1.006
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1.009
3.000
3.001
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5.000
4.003
1.010
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1.011
1.012 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH114
SWMH115
SWMH116
SWRE01
JNC
SWMH117
SWMH118
SWMH119
SWMH120
SWMH121 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
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120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2 | <pre>e (%) e (%) climate Change +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
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, 40
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(m)
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5.480
5.799
5.640
5.418
5.408 | Surcharged
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(m)
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-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
-0.300
-0.246
-0.311
-0.225
-0.336
-0.220
-0.171
-0.208
-0.257
-0.262 | | | | | | | | | | | | | | |
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Surcharge | First (Y)
Flood | First (Z)
Overflow

 | 2, 30,
0, 0
Overflow
Act. |
100
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Water
Level
(m)
6.635
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Depth
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1.001
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4.001
4.002
5.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01 | Storm
120 Winter
120 Winter
120 Winter
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120 Winter
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 | <pre>e (%) climate</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
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Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
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-0.250
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4.003 | US/MH
Name
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SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01
JNC | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | <pre>e (%) climate (%) Climate Change +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow
 | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767 | Surcharged
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(m)
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1.010 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH113
SWMH114
SWMH115
SWMH116
SWRE01
JNC
SWMH117 | Storm
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120 Winter
120 Winter
15 Winter | Return Period 2 2

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+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
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6.477
6.209
6.194
6.168
6.149
5.823
6.600
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5.456
5.477
6.450
6.017
5.842
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6.054
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6.422
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 | Surcharged
Depth
(m)
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-0.400
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SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH114
SWMH115
SWMH117
SWMH118 | Storm
120 Winter
120 Winter
15 Winter | Return Period 2 2

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e (%)
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Change
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Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
, 40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
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 | Surcharged
Depth
(m)
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-0.300
-0.300
-0.300
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-0.300
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-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.274
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1.010
6.000
7.000 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWIC106
SWIC107
SWIC107
SWIC107
SWIC107
SWMH109
SWMH109
SWMH109
SWMH112
SWMH114
SWMH115
SWMH117
SWMH118
SWMH119 | Storm
120 Winter
120 Winter
120 Winter
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120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | <pre>e (%) e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
,
40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640 | Surcharged
Depth
(m)
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-0.300
-0.300
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-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
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-0.338
-0.300
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1.009
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4.002
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6.000
7.000
1.011 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH115
SWMH116
SWRE01
JNC
SWMH117
SWMH118
SWMH120 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
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120 Winter
120 Winter
15 Winter | Return Period 2 2

 | e (%)
e (%)
Climate
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+0%
+0% | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
,
40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640
5.418 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
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1.009
3.000
3.001
3.002
4.000
4.001
4.002
5.000
4.003
1.010
6.000
7.000
1.011
1.012 | US/MH
Name
SWIC101
SWIC102
SWIC103
Bend
Bend
SWIC104
SWIC105
SWIC106
SWIC107
SWMH109
SWMH109
SWMH109
SWMH109
SWMH109
SWMH110
SWMH112
SWMH114
SWMH115
SWMH116
SWRE01
JNC
SWMH117
SWMH118
SWMH119
SWMH120
SWMH121 | Storm
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
120 Winter
15 Winter | Return Period 2 2

 | <pre>e (%) e (%) climate Change +0%</pre> | First (X)
Surcharge | First (Y)
Flood | First (Z)
Overflow | 2, 30,
0, 0
Overflow
Act. | 100
,
40
Water
Level
(m)
6.635
6.477
6.209
6.194
6.168
6.149
5.823
6.600
5.468
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.458
5.456
5.477
6.450
6.017
5.842
6.100
6.054
5.959
6.422
5.767
5.480
5.799
5.640
5.418
5.408 | Surcharged
Depth
(m)
-0.250
-0.300
-0.300
-0.300
-0.300
-0.300
-0.300
-0.225
-0.400
-0.339
-0.274
-0.300
-0.283
-0.338
-0.300
-0.283
-0.338
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BuroHappold Ltd		Page 4
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	
Bath	Central (C) Network	Micro
Date 17/12/2020 16:49	Designed by Matt Redfern	Desinado
File SW_Networks_201217.MDX	Checked by Nick Hall	Dramaye
Innovyze	Network 2019.1	

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW C

	US/MH	Flooded Volume	Flow /	Overflow	Pipe Flow		Level
PN	Name	(m³)	Cap.	(l/s)	(l/s)	Status	Exceeded
1.000	SWIC101	0.000	0.00		0.0	OK	
1.001	SWIC102	0.000	0.00		0.0	OK	
1.002	SWIC103	0.000	0.00		0.0	OK	
1.003	Bend	0.000	0.00		0.0	OK*	
1.004	Bend	0.000	0.00		0.0	OK*	
1.005	SWIC104	0.000	0.00		0.0	OK	
1.006	SWIC105	0.000	0.00		0.0	OK	
2.000	SWIC106	0.000	0.00		0.0	OK	
1.007	SWIC107	0.000	0.00		0.0	OK	
1.008	SWMH109	0.000	0.01		1.2	OK	
1.009	SWMH109b	0.000	0.02		2.7	OK	
3.000	SWMH110	0.000	0.00		0.0	OK	
3.001	SWMH112	0.000	0.39		94.6	OK	
3.002	SWMH113	0.000	0.23		100.8	OK	
4.000	SWMH114	0.000	0.00		0.0	OK	
4.001	SWMH115	0.000	0.51		87.0	OK	
4.002	SWMH116	0.000	0.31		86.9	OK	
5.000	SWRE01	0.000	0.00		0.0	OK	
4.003	JNC	0.000	0.24		98.3	OK*	
1.010	SWMH117	0.000	0.87		193.1	OK	
6.000	SWMH118	0.000	0.38		26.1	OK	1
7.000	SWMH119	0.000	0.21		13.8	OK	
1.011	SWMH120	0.000	0.63		223.7	OK	
1.012	SWMH121	0.000	0.65		222.7	OK	
1.013	SWMH122	0.000	0.81		222.6	OK	

BuroHa	appold L	td								Pag	e 5
Camder	n Mill					The Peop	les Project				
Lower	Bristol	Roa	ad			SW Calcu	lations				
Bath						Central	(C) Network			N	licco
Date 3	17/12/20	20 1	6:49			Designed	by Matt Red	lfern			caipage
File S	SW_Netwo	rks_	_20121	7.MDX		Checked	by Nick Hall				rainage
Innov	yze					Network	2019.1				
<u>30</u>	year Re	eturi	<u>n Peri</u>	<u>od Sum</u>	mary of	Critical Re	esults by Ma	ximum Lev	<u>el (Rank</u>	: <u>1) f</u> c	or SW C
	M	anhol Foul of Ir	Are H le Head l Sewag	al Reduc Hot S ot Start loss Coe e per he drograph	ction Fac Start (mi t Level (eff (Glok ectare (] ns 0 Nu	<u>Simulation (</u> tor 1.000 A (mm) 0 (mm) 0 (al) 0.500 Flow (/s) 0.000 (mber of Offlin	<u>Criteria</u> dditional Flow MADD Factor w per Person po ne Controls 0	- % of Tot * 10m³/ha Inlet Coeff er Day (1/g Number of 7	al Flow 0 Storage 2 Siecient 0 Der/day) 0 Cime/Area	.000 .000 .800 .000 Diagram	15 0
	Numbe	r of	Online	Control	ls 0 Numi	per of Storage	Structures 0	Number of F	Real Time	Control	.s 0
			Rair	ufall M≏	del <u>S</u>	ynthetic Rainf	all Details FFU	Data Turo	- Catchme	ht	
		FEH	Rainfa Sit	all Vers e Locat	ion ion GB 3	33750 392800 s	2013 J 33750 92800	Cv (Summer Cv (Winter) 0.7	50 40	
			Margir	n for Fl	ood Risk. Anal	Warning (mm) ysis Timestep	2.5 Second Inc	erement (Ex	300.0 tended)		
						DTS Status			OFF		
					-	DVD Status			ON		
					Ţ	nertia Status			OF.F.		
	F	Retur	Durati n Peric Climat	Profi on(s) (od(s) (y e Chang	le(s) mins) ears) e (%)	15, 30, 60, 12	20, 180, 240, 3	Summ 360, 480, 6	er and Wi 00, 720, 2, 30, 0, 0	nter 960, 1440 100 , 40	
	US/MH			Return	Climate	First (X)	First (Y)	First (Z)	Overflow	Water Level	Surcharged Depth
PN	Name	S	torm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)	(m)
1.000	SWIC101	120	Winter	30	+0%					6.635	-0.250
1.001	SWIC102	120	Winter	30	+0%					6.477	-0.300
1.002	SWIC103	120	Winter	30	+0% +0%					6.209	-0.300
1.003	Bend	120	Winter	30	+0%					6.168	-0.300
1.005	SWIC104	120	Winter	30	+0%					6.149	-0.300
1.006	SWIC105	120	Winter	30	+0%	100/15 Summer				5.823	-0.300
2.000	SWIC106	120	Winter	30	+0%					6.600	-0.225
1.007	SWIC107	15	Winter	30	+0%	100/15 Summer				5.748	-0.120
1.008	SWMH109b	15	Winter	30	+0%	30/15 Winter				5.740	0.009
3.000	SWMH110	120	Winter	30	+0%	100/15 Summer				6.450	-0.300
3.001	SWMH112	15	Winter	30	+0%	100/15 Summer				6.165	-0.135
3.002	SWMH113	15	Winter	30	+0%	100/15 Summer				5.938	-0.242
4.000	SWMH114	15 15	Winter	30	+0%	100/15 Summer				6.301	-0.099
4.002	SWMH116	15	Winter	30	+0%	100/15 Summer				6.068	-0.202
5.000	SWRE01	120	Winter	30	+0%	100/15 Winter				6.422	-0.225
4.003	JNC	15	Winter	30	+0%					5.872	-0.231
1.010	SWMH117	15	Winter	30	+0%	30/15 Summer				5.782	0.082
6.000	SWMH118	15	Winter	30	+0%	100/15 Summer	100/15 Winter			5.888	-0.082
1 011	SWMH119	15 15	Winter	30	+0왕	100/15 Summer				5./86	-0.062
1.012	SWMH121	15	Winter	30 30	+0% +0%	30/15 Summer				5.701	0.001
1 012	SWMH122	30	Winter	30	+0%	100/15 Summer				5.663	0.000

BuroHappold Ltd		Page 6
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	Sec. 1.
Bath	Central (C) Network	Micro
Date 17/12/2020 16:49	Designed by Matt Redfern	Dcainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW C

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (1/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	SWIC101	0.000	0.00		0.0	OK	
1.001	SWIC102	0.000	0.00		0.0	OK	
1.002	SWIC103	0.000	0.00		0.0	OK	
1.003	Bend	0.000	0.00		0.0	OK*	
1.004	Bend	0.000	0.00		0.0	OK*	
1.005	SWIC104	0.000	0.00		0.0	OK	
1.006	SWIC105	0.000	0.00		0.0	OK	
2.000	SWIC106	0.000	0.00		0.0	OK	
1.007	SWIC107	0.000	0.05		5.7	OK	
1.008	SWMH109	0.000	0.23		21.8	OK	
1.009	SWMH109b	0.000	0.28		31.5	SURCHARGED	
3.000	SWMH110	0.000	0.00		0.0	OK	
3.001	SWMH112	0.000	0.86		208.5	OK	
3.002	SWMH113	0.000	0.51		225.7	OK	
4.000	SWMH114	0.000	0.02		1.4	OK	
4.001	SWMH115	0.000	1.12		189.5	OK	
4.002	SWMH116	0.000	0.66		187.8	OK	
5.000	SWRE01	0.000	0.00		0.0	OK	
4.003	JNC	0.000	0.51		211.5	OK*	
1.010	SWMH117	0.000	1.80		400.9	SURCHARGED	
6.000	SWMH118	0.000	0.74		51.2	OK	1
7.000	SWMH119	0.000	0.40		26.9	OK	
1.011	SWMH120	0.000	1.33		473.7	SURCHARGED	
1.012	SWMH121	0.000	1.37		470.2	SURCHARGED	
1.013	SWMH122	0.000	1.48		408.5	OK	

Complexe	аррота г	td							Pag	e 7
Canden	n Mill				The Peop	les Project				
Lower	Bristol	Road			SW Calcu	lations			See.	
Bath					Central	(C) Network			N	licen
Date 1	7/12/20	20 16:49			Designed	by Matt Red	dfern			
File S	SW Netwo	rks 20121	7.MDX		Checked	by Nick Hall	1			rainage
Innovy	/7.e				Network	2019 1				
±11110 v y					INCOMOLIN	2019.1				
100	year R	<u>eturn Per</u>	iod Sur	nmary o:	f Critical R	esults by Ma	aximum Lev	<u>vel (Ran</u> l	<u>c 1) f</u>	or SW C
	M Number (Are H anhole Head Foul Sewag of Input Hy r of Online	Hot Star Hot Star loss Coo e per ho drograph	ction Fac Start (mi t Level (eff (Glok ectare (] ns 0 Nu	Simulation (stor 1.000 Ac ins) 0 (mm) 0 oal) 0.500 Flow L/s) 0.000 umber of Offlin per of Storage	<u>Criteria</u> dditional Flow MADD Factor w per Person p ne Controls 0	y - % of Tot * * 10m³/ha Inlet Coeff Per Day (1/p Number of 1	cal Flow 0 Storage 2 Eiecient 0 per/day) 0 Fime/Area	.000 .000 .800 .000 Diagram	ns O
	Nullide.	i or onitine	CONCLO.		Sei OI Storage	Structures 0	Nulliber of I	Cear True	CONCLOS	.5 0
		Rain FEH Rainfa Sit	nfall Mo all Vers te Locat	del ion ion GB 3	ynthetic Rainf 33750 392800 S	<u>all Details</u> FEH 2013 J 33750 92800	Data Typ Cv (Summer Cv (Winter	e Catchmen) 0.7!) 0.84	nt 50 10	
		Margi	n for Fl	ood Risk	Warning (mm)			300.0		
				Anal	ysis Timestep	2.5 Second Ind	crement (Ex	tended)		
					DIS Status DVD Status			OFF		
				I	nertia Status			OFF		
			Profi	le(s)			Sumn	er and Wi	nter	
		Durati	lon(s) (mins)	15, 30, 60, 12	20, 180, 240,	360, 480, 6	00, 720,	960,	
									1440	
	_									
	F	leturn Perio	od(s) (y	ears)				2, 30,	100	
	F	Return Perio Climat	od(s) (y ce Chang	ears) e (%)				2, 30, 0, 0	100 , 40	
	F	Return Peric Climat	od(s) (y ce Chang	ears) e (%)				2, 30, 0, 0	100 , 40	
	F	Return Perio Climat	od(s) (y ce Chang	ears) e (%)				2, 30, 0, 0	100 , 40 Water	Surcharged
DN	US/MH	Climat	od(s) (y ce Chang Return	ears) e (%) Climate	First (X)	First (Y)	First (Z)	2, 30, 0, 0	100 , 40 Water Level	Surcharged Depth
PN	US/MH Name	Return Perio Climat Storm	od(s) (y ce Chang Return Period	ears) e (%) Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m)	Surcharged Depth (m)
PN 1.000	US/MH Name SWIC101	eturn Perio Climat Storm 120 Winter	od(s) (y ce Chang Return Period 100	ears) e (%) Climate Change +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635	Surcharged Depth (m) -0.250
PN 1.000 1.001	US/MH Name SWIC101 SWIC102	Storm 120 Winter	Return Period 100	ears) e (%) Climate Change +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477	Surcharged Depth (m) -0.250 -0.300
PN 1.000 1.001 1.002	US/MH Name SWIC101 SWIC102 SWIC103	Storm 120 Winter 15 Winter	ed(s) (y te Chang Return Period 100 100	ears) e (%) Climate Change +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316	Surcharged Depth (m) -0.250 -0.300 -0.193 0.153
PN 1.000 1.001 1.002 1.003 1.004	US/MH Name SWIC101 SWIC102 SWIC103 Bend Bend	Storm 120 Winter 120 Winter 15 Winter 15 Winter	Return Period 100 100 100	ears) e (%) Climate Change +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121
PN 1.000 1.001 1.002 1.003 1.004 1.005	SWIC101 SWIC102 SWIC103 Bend Bend SWIC104	Storm Climat Storm 120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter	Return Period 100 100 100 100	ears) e (%) Climate Change +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006	SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105	Storm Climat Storm 120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter	Return Period 100 100 100 100 100 100	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.354	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000	SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106	Storm Climat 20 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 120 Winter	Return Period 100 100 100 100 100 100 100 100	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge 100/15 Summer	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.354 6.382 6.600	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007	SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107	Storm 120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 120 Winter	Return Period 100 100 100 100 100 100 100 100 100	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	<pre>100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.382 6.600 6.399</pre>	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008	SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	<pre>100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.382 6.600 6.399 6.419</pre>	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009	R US/MH Name SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109b	Storm 120 Winter 120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.382 6.600 6.399 6.419 6.451	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000	R US/MH Name SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWIC107 SWMH109 SWMH110	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.382 6.600 6.399 6.419 6.451 7.031	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002	SWIC101 SWIC102 SWIC102 SWIC103 Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH110 SWMH112 SWMH112	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.005	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000	K US/MH Name SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH110 SWMH112 SWMH113 SWMH114	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.354 6.354 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.805 7.118	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732 0.625 0.718
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001	K US/MH Name SWIC101 SWIC102 SWIC103 Bend SWIC104 SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH109 SWMH112 SWMH113 SWMH114 SWMH115	Storm 120 Winter 120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0 Overflow Act.	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.354 6.354 6.382 6.600 6.399 6.451 7.031 7.032 6.805 7.118 7.119	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732 0.625 0.718 0.819
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002	K US/MH Name SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC106 SWIC107 SWMH109 SWMH109 SWMH109 SWMH109 SWMH110 SWMH114 SWMH115 SWMH116	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.354 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.805 7.118 7.119 6.927	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732 0.625 0.718 0.819 0.657
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000	K US/MH Name SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWIC106 SWIC107 SWMH109 SWMH109 SWMH109 SWMH110 SWMH112 SWMH114 SWMH115 SWMH116 SWRE01	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.805 7.118 7.119 6.927 6.737	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732 0.625 0.718 0.819 0.657 0.090
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003	K US/MH Name SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWIC106 SWIC107 SWIC107 SWMH109 SWMH109 SWMH109 SWMH110 SWMH112 SWMH114 SWMH115 SWMH116 SWRE01 JNC	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.805 7.118 7.119 6.927 6.737 6.103	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732 0.625 0.718 0.819 0.657 0.090 0.000
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010	K US/MH Name SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWIC106 SWIC107 SWIC107 SWMH109 SWMH109 SWMH110 SWMH112 SWMH115 SWMH116 SWRE01 JNC SWMH117	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.805 7.118 7.119 6.927 6.737 6.103 6.499	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732 0.625 0.718 0.819 0.657 0.090 0.000 0.000 0.799
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010 6.000	SWIC101 SWIC102 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH109 SWMH109 SWMH112 SWMH112 SWMH114 SWMH115 SWMH116 SWRE01 JNC SWMH117 SWMH118	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood 100/15 Winter	First (Z) Overflow	2, 30, 0, 0	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.805 7.118 7.119 6.927 6.737 6.103 6.499 6.727	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732 0.625 0.718 0.819 0.657 0.090 0.000 0.799 0.757
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010 6.000 7.000	SWIC101 SWIC102 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH109 SWMH109 SWMH110 SWMH112 SWMH114 SWMH115 SWMH117 SWMH119 SWMH119 SWMH119	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood 100/15 Winter	First (Z) Overflow	2, 30, 0, 0	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.805 7.118 7.119 6.927 6.737 6.103 6.499 6.727 6.414 6.326	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.732 0.625 0.718 0.819 0.657 0.090 0.000 0.799 0.757 0.566
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010 6.000 7.000 1.011 1.012	SWIC101 SWIC102 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH109 SWMH110 SWMH112 SWMH112 SWMH114 SWMH115 SWMH117 SWMH118 SWMH120 SWMH120	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood 100/15 Winter	First (Z) Overflow	2, 30, 0, 0	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.332 6.600 6.399 6.451 7.031 7.032 6.805 7.118 7.119 6.927 6.737 6.103 6.499 6.727 6.103 6.326 6.096	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.722 0.625 0.718 0.819 0.657 0.090 0.000 0.709 0.757 0.566 0.651 0.416
PN 1.000 1.001 1.002 1.003 1.004 1.005 1.006 2.000 1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010 6.000 7.000 1.011 1.012 1.013	SWIC101 SWIC102 SWIC102 SWIC103 Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH109 SWMH109 SWMH110 SWMH112 SWMH114 SWMH115 SWMH116 SWRE01 JNC SWMH117 SWMH118 SWMH120 SWMH121 SWMH121 SWMH121 SWMH221	Storm 120 Winter 120 Winter 120 Winter 15 Winter	Return Period 100 100 100 100 100 100 100 100 100 10	ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	2, 30, 0, 0	100 , 40 Water Level (m) 6.635 6.477 6.316 6.339 6.347 6.354 6.354 6.354 6.382 6.600 6.399 6.419 6.451 7.031 7.032 6.805 7.118 7.119 6.927 6.737 6.103 6.499 6.727 6.414 6.326 6.086 5.848	Surcharged Depth (m) -0.250 -0.300 -0.193 -0.155 -0.121 -0.095 0.259 -0.225 0.531 0.624 0.700 0.281 0.722 0.625 0.718 0.819 0.657 0.900 0.000 0.799 0.757 0.566 0.651 0.416 0.185

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Lower Bristol Road	SW Calculations	Sec.
Bath	Central (C) Network	Micco
Date 17/12/2020 16:49	Designed by Matt Redfern	Drainargo
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW C

US/MH Name	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
SWIC101	0.000	0.00		0.0	OK	
SWIC102	0.000	0.00		0.0	OK	
SWIC103	0.000	0.04		2.0	OK	
Bend	0.000	0.06		3.7	OK*	
Bend	0.000	0.10		6.3	OK*	
SWIC104	0.000	0.06		4.0	OK	
SWIC105	0.000	0.34		23.7	SURCHARGED	
SWIC106	0.000	0.00		0.0	OK	
SWIC107	0.000	0.25		27.4	SURCHARGED	
SWMH109	0.000	0.50		46.8	SURCHARGED	
SWMH109b	0.000	0.44		49.1	SURCHARGED	
SWMH110	0.000	0.05		2.9	FLOOD RISK	
SWMH112	0.000	1.37		331.3	FLOOD RISK	
SWMH113	0.000	0.80		349.6	SURCHARGED	
SWMH114	0.000	0.04		3.2	FLOOD RISK	
SWMH115	0.000	1.80		306.1	FLOOD RISK	
SWMH116	0.000	1.06		301.6	SURCHARGED	
SWRE01	0.000	0.00		0.0	SURCHARGED*	
JNC	0.000	0.75		314.3	SURCHARGED*	
SWMH117	0.000	2.90		644.1	SURCHARGED	
SWMH118	0.044	1.17		81.1	FLOOD	1
SWMH119	0.000	0.64		42.7	SURCHARGED	
SWMH120	0.000	2.14		761.6	SURCHARGED	
SWMH121	0.000	2.23		762.8	SURCHARGED	
SWMH122	0.000	2.76		762.0	SURCHARGED	
	US/MH Name SWIC101 SWIC102 SWIC103 Bend Bend SWIC104 SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH109 SWMH109 SWMH109 SWMH110 SWMH112 SWMH115 SWMH116 SWRE01 JNC SWMH117 SWMH119 SWMH120 SWMH121 SWMH121	BeloodedUS/MHVolumeName(m³)SWIC1010.000SWIC1020.000SWIC1030.000Bend0.000SWIC1040.000SWIC1050.000SWIC1060.000SWIC1070.000SWIC1080.000SWIC1090.000SWIC1070.000SWIC1080.000SWIC1090.000SWMH1090.000SWMH1140.000SWMH1150.000SWMH1160.000SWRE010.000SWMH1180.000SWMH1190.000SWMH1180.001SWMH1190.000SWMH1180.001SWMH1190.000SWMH1190.000SWMH1110.000SWMH1120.000SWMH1130.000SWMH1240.000	Flooded US/MH Volume Flow / Cap. Name 0.000 0.000 SWIC101 0.000 0.000 SWIC102 0.000 0.000 SWIC103 0.000 0.004 Bend 0.000 0.100 SWIC104 0.000 0.100 SWIC105 0.000 0.100 SWIC104 0.000 0.001 SWIC105 0.000 0.344 SWIC106 0.000 0.501 SWIC107 0.000 0.501 SWIC108 0.000 0.501 SWIC109 0.000 0.501 SWMH109 0.000 0.44 SWMH112 0.000 0.64 SWMH114 0.000 0.64 SWMH115 0.000 0.001 SWMH116 0.000 0.501 SWMH116 0.000 0.64 SWMH117 0.000 0.64 SWMH118 0.000 0.64 SWMH12	Flooded US/MH Volume Flow / Overflow Name 0.000 0.000 0.000 SWIC101 0.000 0.000 SWIC102 0.000 0.000 SWIC103 0.000 0.04 Bend 0.000 0.010 SWIC104 0.000 0.04 Bend 0.000 0.04 SWIC105 0.000 0.04 SWIC106 0.000 0.34 SWIC107 0.000 0.25 SWH108 0.000 0.44 SWMH109 0.000 0.44 SWMH112 0.000 1.37 SWMH113 0.000 0.44 SWMH114 0.000 1.80 SWMH115 0.000 1.80 SWMH114 0.000 0.44 SWMH115 0.000 1.06 SWMH114 0.000 0.01 SWMH115 0.000 1.06 SWMH114 0.000 2.90 <td>Flooded Pipe US/MH Volume Flow / Overflow Flow Name 0.000 0.000 0.000 0.00 SWIC101 0.000 0.000 0.00 SWIC102 0.000 0.000 0.00 SWIC103 0.000 0.04 2.0 Bend 0.000 0.06 3.7 Bend 0.000 0.10 6.3 SWIC104 0.000 0.04 23.7 SWIC105 0.000 0.25 27.4 SWIC107 0.000 0.25 27.4 SWM109 0.000 0.44 49.1 SWM1109 0.000 0.44 49.1 SWM1109 0.000 0.44 49.1 SWM1113 0.000 0.64 3.2 SWM1114 0.000 0.64 3.2 SWM1115 0.000 1.80 306.1 SWM1114 0.000 0.04 3.2 SWM115 0.000<td>FloodedPipe FlowUS/MHVolumeFlow /OverflowFlowName(m³)Cap.(l/s)StatusSWIC1010.0000.000.00.0SWIC1020.0000.000.00.0SWIC1030.0000.042.00KBend0.0000.063.70K*Bend0.0000.064.00KSWIC1040.0000.064.00KSWIC1050.0000.3423.7SURCHARGEDSWIC1060.0000.02527.4SURCHARGEDSWIC1070.0000.5046.8SURCHARGEDSWMH1090.0000.552.9FLOOD RISKSWMH1090.0001.37331.3FLOOD RISKSWMH1130.0000.043.2FLOOD RISKSWMH130.0000.04306.1FLOOD RISKSWMH140.0000.04314.3SURCHARGEDSWM1150.0001.80306.1FLOOD RISKSWM1160.0000.000.0SURCHARGED*SWM1160.0000.05314.3SURCHARGEDSWM1170.0002.90644.1SURCHARGEDSWM1180.0041.1781.1FLOODSWM1180.0042.14761.6SURCHARGEDSWM1190.0002.14761.6SURCHARGEDSWM11200.0002.14761.6SURCHARGEDSWM12120.0002.14</td></td>	Flooded Pipe US/MH Volume Flow / Overflow Flow Name 0.000 0.000 0.000 0.00 SWIC101 0.000 0.000 0.00 SWIC102 0.000 0.000 0.00 SWIC103 0.000 0.04 2.0 Bend 0.000 0.06 3.7 Bend 0.000 0.10 6.3 SWIC104 0.000 0.04 23.7 SWIC105 0.000 0.25 27.4 SWIC107 0.000 0.25 27.4 SWM109 0.000 0.44 49.1 SWM1109 0.000 0.44 49.1 SWM1109 0.000 0.44 49.1 SWM1113 0.000 0.64 3.2 SWM1114 0.000 0.64 3.2 SWM1115 0.000 1.80 306.1 SWM1114 0.000 0.04 3.2 SWM115 0.000 <td>FloodedPipe FlowUS/MHVolumeFlow /OverflowFlowName(m³)Cap.(l/s)StatusSWIC1010.0000.000.00.0SWIC1020.0000.000.00.0SWIC1030.0000.042.00KBend0.0000.063.70K*Bend0.0000.064.00KSWIC1040.0000.064.00KSWIC1050.0000.3423.7SURCHARGEDSWIC1060.0000.02527.4SURCHARGEDSWIC1070.0000.5046.8SURCHARGEDSWMH1090.0000.552.9FLOOD RISKSWMH1090.0001.37331.3FLOOD RISKSWMH1130.0000.043.2FLOOD RISKSWMH130.0000.04306.1FLOOD RISKSWMH140.0000.04314.3SURCHARGEDSWM1150.0001.80306.1FLOOD RISKSWM1160.0000.000.0SURCHARGED*SWM1160.0000.05314.3SURCHARGEDSWM1170.0002.90644.1SURCHARGEDSWM1180.0041.1781.1FLOODSWM1180.0042.14761.6SURCHARGEDSWM1190.0002.14761.6SURCHARGEDSWM11200.0002.14761.6SURCHARGEDSWM12120.0002.14</td>	FloodedPipe FlowUS/MHVolumeFlow /OverflowFlowName(m³)Cap.(l/s)StatusSWIC1010.0000.000.00.0SWIC1020.0000.000.00.0SWIC1030.0000.042.00KBend0.0000.063.70K*Bend0.0000.064.00KSWIC1040.0000.064.00KSWIC1050.0000.3423.7SURCHARGEDSWIC1060.0000.02527.4SURCHARGEDSWIC1070.0000.5046.8SURCHARGEDSWMH1090.0000.552.9FLOOD RISKSWMH1090.0001.37331.3FLOOD RISKSWMH1130.0000.043.2FLOOD RISKSWMH130.0000.04306.1FLOOD RISKSWMH140.0000.04314.3SURCHARGEDSWM1150.0001.80306.1FLOOD RISKSWM1160.0000.000.0SURCHARGED*SWM1160.0000.05314.3SURCHARGEDSWM1170.0002.90644.1SURCHARGEDSWM1180.0041.1781.1FLOODSWM1180.0042.14761.6SURCHARGEDSWM1190.0002.14761.6SURCHARGEDSWM11200.0002.14761.6SURCHARGEDSWM12120.0002.14

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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	See .
Bath	Car Park (CP) Network	Micco
Date 17/12/2020 16:48	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for SW CP

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR RainfallModel - England and WalesReturn Period (years)5PIMP (%)100M5-60 (mm)18.700Add Flow / Climate Change (%)0Ratio R0.400Minimum Backdrop Height (m)0.200Maximum Rainfall (mm/hr)250Maximum Backdrop Height (m)1.500Maximum Time of Concentration (mins)30Min Design Depth for Optimisation (m)0.900Foul Sewage (l/s/ha)0.000Min Vel for Auto Design only (m/s)1.00Volumetric Runoff Coeff.0.750Min Slope for Optimisation (1:X)500

Designed with Level Soffits

Network Design Table for SW CP

PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)		Design
1.000	43.099	0.192	224.5	0.141	5.00	0.0	0.600	0	300	Pipe/Conduit	A
1.001	38.847	0.173	224.5	0.000	0.00	0.0	0.600	0	375	Pipe/Conduit	ĕ
2.000	32,256	0.143	225.6	0.055	5.00	0.0	0.600	0	300	Pipe/Conduit	۵
2.001	38.402	0.171	224.6	0.000	0.00	0.0	0.600	0	300	Pipe/Conduit	Ä
2.002	11.327	0.050	226.5	0.085	0.00	0.0	0.600	0	300	Pipe/Conduit	ĕ
1.002	12.018	0.037	324.8	0.145	0.00	0.0	0.600	0	375	Pipe/Conduit	A
1.003	27.187	0.085	319.8	0.010	0.00	0.0	0.600	0	375	Pipe/Conduit	ĕ
3.000	27.857	0.153	182.1	0.000	5.00	0.0	0.600	0	225	Pipe/Conduit	0
1.004	14.321	0.044	325.5	0.000	0.00	0.0	0.600	0	375	Pipe/Conduit	A
1.005	61.075	0.181	337.4	0.126	0.00	0.0	0.600	0	375	Pipe/Conduit	- Ā
1.006	8.906	0.027	329.9	0.000	0.00	0.0	0.600	0	375	Pipe/Conduit	ē
1.007	8.906	0.028	318.1	0.000	0.00	0.0	0.600	0	375	Pipe/Conduit	

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(mm/hr)	(mins)	(m)	(ha)	Flow (l/s)	(l/s)	(l/s)	(m/s)	(1/s)	(l/s)
1.000 1.001	80.34 77.12	5.69 6.22	5.717 5.475	0.141 0.141	0.0	0.0	0.0	1.05 1.20	73.9 133.1	30.7 30.7
2.000	81.44	5.52	5.716	0.055	0.0	0.0	0.0	1.04	73.7	12.1
2.001	77.68	6.13	5.573	0.055	0.0	0.0	0.0	1.05	73.9	12.1
2.002	76.64	6.31	5.402	0.139	0.0	0.0	0.0	1.04	73.5	28.9
1.002 1.003	75.53 73.17	6.51 6.96	5.302 5.265	0.426 0.436	0.0	0.0 0.0	0.0	1.00 1.01	110.4 111.3	87.1 87.1
3.000	81.66	5.48	5.483	0.000	0.0	0.0	0.0	0.97	38.4	0.0
1.004	71.99	7.20	5.180	0.436	0.0	0.0	0.0	1.00	110.3	87.1
1.005	67.32	8.24	5.136	0.562	0.0	0.0	0.0	0.98	108.3	102.4
1.006	66.70	8.39	4.955	0.562	0.0	0.0	0.0	0.99	109.6	102.4
1.007	66.11	8.53	4.928	0.562	0.0	0.0	0.0	1.01	111.6	102.4

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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	the second
Bath	Car Park (CP) Network	Micro
Date 17/12/2020 16:48	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

Surcharged Outfall Details for SW CP

Outfall Pipe Number	Outfall Name	C. Level I. (m)	Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.007	Channel West	7.580	4.900	0.000	1200	0
	Datum (m)	0.000 Offse	t (mins) 0		

Time Depth (mins) (m)

1440 4.893

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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	
Bath	Car Park (CP) Network	Micco
Date 17/12/2020 16:48	Designed by Matt Redfern	Desinado
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	
2 year Return Period Summary of Cr Areal Reduction Facto Hot Start (mins Hot Start Level (mm Manhole Headloss Coeff (Global Foul Sewage per hectare (1/s	Simulation Criteria 1.000 Additional Flow - % of 0 MADD Factor * 10m ³ , 0 Inlet Co 0.500 Flow per Person per Day 0.000	Total Flow 0.000 /ha Storage 2.000 oeffiecient 0.800 (l/per/day) 0.000
Number of Input Hydrographs 0 Numb Number of Online Controls 0 Number	er of Offline Controls 0 Number of Storage Structures 0 Number	of Time/Area Diagrams 0 of Real Time Controls 0
Synt	hetic Rainfall Details	
Rainfall Model FEH Rainfall Version Site Location GB 333'	FEH Data 2013 Cv (Sum 50 392800 SJ 33750 92800 Cv (Win	Type Catchment mer) 0.750 ter) 0.840
Margin for Flood Risk Wa Analys: Profile(s) Duration(s) (mins) 15 Return Period(s) (years) Climate Change (%)	rning (mm) s Timestep 2.5 Second Increment DTS Status DVD Status tia Status . 30, 60, 120, 180, 240, 360, 480	(Extended) OFF ON OFF Summer and Winter 0, 600, 720, 960, 1440 2, 30, 100 0, 0, 40
US/MH Return Climate	First (X) First (Y) First	Water Surcharged (Z) Overflow Level Depth
PN Name Storm Period Change	Surcharge Flood Overfl	Low Act. (m) (m)
1.000 SWMH51 15 Winter 2 +0% 10)/15 Summer 100/15 Summer	5.832 -0.185
1.001 SWMH52 15 Winter 2 +0% 10	0/15 Summer 100/15 Summer	5.588 -0.262
2.000 SWMH53 15 Winter 2 +0% 10	0/15 Summer 100/15 Summer	5.786 -0.230
2.001 SWMH54 15 Winter 2 +0% 10 2.002 SWMH55 15 Winter 2 +0% 3)/15 Summer 100/15 Summer	5.642 -0.231
1.002 SWMH56 15 Winter 2 +0% 3)/15 Summer 100/15 Summer	5.527 -0.150
1.003 SWMH57 15 Winter 2 +0% 3)/15 Summer	5.473 -0.167
3.000 SWDNO 01 120 Winter 2 +0% 10	0/15 Summer	5.483 -0.225
1.004 SWDNO 02 15 Winter 2 +0% 3	0/15 Summer	5.403 -0.152
1.005 SWMH58 15 Winter 2 +0% 3	0/15 Summer	5.358 -0.153
1.006 SWMH59 15 Winter 2 +0% 3 1.007 SWMH60 15 Winter 2 +0% 3)/15 Summer)/15 Winter	5.218 -0.112 5.183 -0.120
	, 10 111101	01100 01110
Floods	d Pipo	
US/MH Volum	Flow / Overflow Flow	Level
PN Name (m ³)	Cap. (1/s) (1/s) Status I	 Exceeded
1 000 000000000000000000000000000000000	0 0 20 21 0 07	4
1 0.01 CMMH52 0 00	0 0.30 21.0 0K 0 0.17 204 0K	4
2.000 SWMH53 0.00	0 0.12 8.2 OK	4
2 001 CHIMILE 4 0 00	0 0.12 8.0 OK	4

2.000	SWMH53	0.000	0.12		8.2	OK	4
2.001	SWMH54	0.000	0.12		8.0	OK	4
2.002	SWMH55	0.000	0.30	1	7.7	OK	
1.002	SWMH56	0.000	0.67	5	4.5	OK	2
1.003	SWMH57	0.000	0.57	5	5.0	OK	
3.000	SWDNO 01	0.000	0.00		0.0	OK	
1.004	SWDNO 02	0.000	0.65	5	4.4	OK	
1.005	SWMH58	0.000	0.63	6	4.1	OK	
1.006	SWMH59	0.000	0.83	6	2.3	OK	
		©198	2-2019	Innovyze			

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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	the second
Bath	Car Park (CP) Network	Micco
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File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	1

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW CP

		Flooded			Pipe		
	US/MH	Volume	Flow /	Overflow	Flow		Level
PN	Name	(m³)	Cap.	(l/s)	(l/s)	Status	Exceeded
1.007	SWMH60	0.000	0.80		62.3	OK	

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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	And a second second
Bath	Car Park (CP) Network	
Date $17/12/2020$ 16:48	Designed by Matt Redfern	MILIO
File SW Networks 201217 MDV	Checked by Nick Hell	Drainage
FILE SW_NELWORKS_201217.MDA	Network 2010 1	
Innovyze	Network 2019.1	
20 year Daturn Daried Summary of Cr	itical Deculta by Marimum Level (Dank 1) for CM (D
<u>30 year Recurn Period Summary of Cr</u>	ILICAL RESULLS Dy MAXIMUM LEVEL ()	Kallk 1/ 101 SW CP
	Simulation Criteria	
Areal Reduction Factor	1.000 Additional Flow - % of Total F	low 0.000
Hot Start (mins)	0 MADD Factor * 10m ³ /ha Stor	age 2.000
Hot Start Level (mm)	0 Inlet Coeffieci	ent 0.800
Mannole Headloss Coeff (Global) Foul Sewage per hectare (1/s)	0.500 Flow per Person per Day (1/per/d	ay) 0.000
Tour bewage per neccure (1/5)	0.000	
Number of Input Hydrographs 0 Number	er of Offline Controls 0 Number of Time/	Area Diagrams O
Number of Online Controls 0 Number	of Storage Structures 0 Number of Real	Time Controls 0
Grant	hatia painfall pataila	
Rainfall Model	<u>netic Rainfall Details</u> FEH Data Type Cat	chment
FEH Rainfall Version	2013 Cv (Summer)	0.750
Site Location GB 3337	50 392800 SJ 33750 92800 Cv (Winter)	0.840
Margin for Flood Risk Wa	rning (mm) 300	0.0
Analysi	s Timestep 2.5 Second Increment (Extende	ርር /) ምም
	DVD Status	ON
Iner	tia Status C	DFF
Profile(s)	Summer a	nd Winter
Duration(s) (mins) 15	30, 60, 120, 180, 240, 360, 480, 600,	720, 960,
		1440
Return Period(s) (years)	2	, 30, 100
Climate Change (%)		0, 0, 40
		Water Surcharged
US/MH Return Climate F	irst (X) First (Y) First (Z) Over:	flow Level Depth
PN Name Storm Period Change S	urcharge Flood Overflow Ac	t. (m) (m)
1 000 SWMH51 15 Winter 30 +0% 100	/15 Summer 100/15 Summer	5 894 -0 123
1.001 SWMH52 15 Winter 30 +0% 100	/15 Summer 100/15 Summer	5.818 -0.032
2.000 SWMH53 15 Winter 30 +0% 100	/15 Summer 100/15 Summer	5.845 -0.171
2.001 SWMH54 15 Winter 30 +0% 100	/15 Summer 100/15 Summer	
2.002 SWMH55 15 Winter 30 +0% 30	/15 Summer	5.829 -0.044
1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	/15 Gummer	5.829 -0.044 5.820 0.118
1.002 SWMH56 15 Winter 30 +0% 30	/15 Summer 100/15 Summer	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100	/15 Summer 100/15 Summer /15 Summer /15 Summer	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Winter	$\begin{array}{ccccc} 5.829 & -0.044 \\ 5.820 & 0.118 \\ 5.751 & 0.074 \\ 5.713 & 0.073 \\ 5.627 & -0.081 \\ 5.628 & 0.073 \\ 5.582 & 0.071 \\ 5.360 & 0.030 \\ 5.307 & 0.004 \end{array}$
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30	<pre>/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Winter</pre>	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded Flooded Flooded Flooded	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Winter Pipe	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Winter Pipe Flow / Overflow Flow Level	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded US/MH Volume PN Name (m³) 10	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Winter Pipe Flow / Overflow Flow Level Cap. (1/s) (1/s) Status Exceed	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded US/MH Volume PN Name (m³)	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Winter Pipe Flow / Overflow Flow Level Cap. (1/s) (1/s) Status Exceed	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded US/MH Volume PN Name (m³) 1.000 SWMH51 0.000 1 001 SUMH52 0 000	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Winter Pipe Flow / Overflow Flow Level Cap. (1/s) (1/s) Status Exceed 0.63 43.2 OK 0.30 35.8 OK	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004 4 4
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded US/MH Volume PN Name (m ³) 1.000 SWMH51 0.000 1.001 SWMH52 0.000 2.000 SWMH53 0.000	/15 Summer 100/15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Summer /15 Winter Pipe Flow / Overflow Flow Level Cap. (1/s) (1/s) Status Exceed 0.63 43.2 OK 0.30 35.8 OK 0.25 16.5 OK	5.829 -0.044 $5.820 0.118$ $5.751 0.074$ $5.713 0.073$ $5.627 -0.081$ $5.628 0.073$ $5.582 0.071$ $5.360 0.030$ $5.307 0.004$ 4 4 4
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded US/MH Volume PN Name (m³) 1.000 SWMH51 0.000 1.001 SWMH52 0.000 2.000 SWMH53 0.000 2.001 SWMH54 0.000	/15 Summer 100/15 Summer /15 Summer /// //// //// /15 Summer ///// //// /// /// /15 Summer ///// //// //// /// /// /// /// /// //// //// //// /// /// //// //// //// //// //// /// /// //// //// //// /// /// /// /// /// //// /// /// //// /// /// /// /// //// /// //// /// /// /// /// /// /// //// //// /// /// //// //// //// ////	5.829 -0.044 $5.820 0.118$ $5.751 0.074$ $5.713 0.073$ $5.627 -0.081$ $5.628 0.073$ $5.582 0.071$ $5.360 0.030$ $5.307 0.004$ 4 4 4
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded US/MH Volume PN Name (m³) 1.000 SWMH51 0.000 1.001 SWMH52 0.000 2.000 SWMH53 0.000 2.001 SWMH54 0.000	/15 Summer /15 Winter Level Cap. 0.63 43.2 0.63 43.2 0.63 43.2 0.63 0.5 0.25 16.5 0.45 0.45 0.50 29.2 SURCHARGED	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004 4 4 4 4 4
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded US/MH Volume PN Name (m ³) 1.000 SWMH51 0.000 1.001 SWMH52 0.000 2.000 SWMH53 0.000 2.001 SWMH54 0.000 2.002 SWMH55 0.000 1.002 SWMH56 0.000	/15 Summer /15 Winter Level Cap. 0.63 43.2 0.63 43.2 0.63 43.2 0.63 43.2 0.63 43.2 0.63 43.2 0.63 0.5 0.25 16.5 0.43 0.4 0.50 29.2 0.50 29.2 0.50 29.7 0.61 0.6	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004 4 4 4 4 4 4 4 4 4
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 Flooded US/MH Volume PN Name (m³) 1.000 SWMH51 0.000 1.001 SWMH52 0.000 2.000 SWMH53 0.000 2.001 SWMH54 0.000 1.002 SWMH55 0.000 1.002 SWMH55 0.000 1.003 SWMH57 0.000 3.000 SWMH57 0.000	/15 Summer /15 Winter 0.63 43.2 OK 0.63 43.2 OK 0.25 16.5 OK 0.50 29.2 SURCHARGED 1.22 99.7 SURCHARGED 0.98 95.1 SURCHARGED 0.92 0.7 OK	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004 4 4 4 4 4 4 4
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 100 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 1.000 SWMH51 0.000 1.001 SWMH51 0.000 2.000 SWMH53 0.000 2.001 SWMH53 0.000 1.002 SWMH55 0.000 1.002 SWMH55 0.000 1.003 SWMH57 0.000 3.000 SWDNO 01 0.000 1.004 SWDNO 02 0.000	/15 Summer 100/15 Summer /15 Summer ////////////////////////////////////	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004 4 4 4 4 4 4 2
1.002 SWMH56 15 Winter 30 +0% 30 1.003 SWMH57 15 Winter 30 +0% 30 3.000 SWDNO 01 15 Winter 30 +0% 30 1.004 SWDNO 02 15 Winter 30 +0% 30 1.005 SWMH58 15 Winter 30 +0% 30 1.006 SWMH59 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 1.007 SWMH60 15 Winter 30 +0% 30 1.000 SWMH51 0.000 1.001 SWMH51 0.000 2.000 SWMH51 0.000 2.000 SWMH53 0.000 2.001 SWMH54 0.000 2.002 SWMH55 0.000 1.002 SWMH55 0.000 1.003 SWMH57 0.000 3.000 SWDNO 01 0.000 1.004 SWDNO 02 0.000	/15 Summer 100/15 Summer /15 Summer ////////////////////////////////////	5.829 -0.044 5.820 0.118 5.751 0.074 5.713 0.073 5.627 -0.081 5.628 0.073 5.582 0.071 5.360 0.030 5.307 0.004 4 4 4 4 4 2

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BuroHappold Ltd		Page 6
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	Sec.
Bath	Car Park (CP) Network	Micro
Date 17/12/2020 16:48	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW CP

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.007	SWMH60	0.000	1.38		107.1	SURCHARGED	

BuroHappold Ltd		Page 7
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	The second
Bath	Car Park (CP) Network	Micro
Date 17/12/2020 16:48	Designed by Matt Redfern	Desinano
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	
100 year Return Period Summary of year Areal Reduction Fact Hot Start (min Hot Start Level (m Manhole Headloss Coeff (Globa Foul Sewage per hectare (1/ Number of Input Hydrographs 0 Number of Online Controls 0 Number of Site Location GB 33: Margin for Flood Risk W	Simulation Criteria or 1.000 Additional Flow - % of Total Flow 0.00 (m) 0 MADD Factor * 10m³/ha Storage 2.00 (m) 0 Inlet Coefficcient 0.80 (l) 0.500 Flow per Person per Day (l/per/day) 0.00 (m) 0 (l) 0.500 Flow per Person per Day (l/per/day) 0.00 (m) 0 (m) 0 (l) 0.500 Flow per Person per Day (l/per/day) 0.00 (m) 0 (m) 0 (l) 0.500 Flow per Person per Day (l/per/day) 0.00 (m) 0 (m) 0.000 (m) 0 (m) 0 (m) 0.750 3750 392800 SJ 33750 92800 Cv (Winter) 0.840 (m) 300.0 (m) 300.0	<u>) for SW CP</u> 00 00 00 00 agrams 0 ntrols 0
Ine	DTS StatusOFFDVD StatusONertia StatusOFF	
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%)	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4	er 0, 40 00 40
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 Wa First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (er 0, 40 00 40 ater Surcharged evel Depth (m) (m)
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 Wa First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (er 0, 40 00 40 evel Surcharged evel Depth (m) (m)
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 Wa First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 6	er 0, 40 00 40 evel Depth (m) (m) .612 0.595 540 0.699
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 Wa First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6	er 0, 40 00 40 evel Depth m) (m) .612 0.595 .549 0.699 .552 0.536
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 Wa First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6	er 0, 40 00 40 evel Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 Wa First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6	er 0, 40 00 40 evel Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10 2.002 SWMH56 15 Winter 100 +40% 10 2.002 SWMH56 15 Winter 100 +40% 10 1.002 S	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 Wa First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 30/15 Summer 100/15 Summer 6 30/15 Summer 100/15 Summer 6	er 0, 40 00 40 evel Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868
US/MH Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 11 1.002 SWMH56 15 Winter 100 +40% 11	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 30/15 Summer 7 30/15 Summer 8 30/15 Summer 7 30/15 Summer 8 30/15 S	er 0, 40 00 40 evel Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868 .492 0.852
US/MH Return Period(s) (years) Climate Change (%) US/MH Return Climate Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 1.001 SWMH52 15 Winter 100 +40% 2.000 SWMH53 15 Winter 100 +40% 2.001 SWMH54 15 Winter 100 +40% 1.002 SWMH56 1.003 SWMH57 15 Winter 100 +40% 3.000 SWDNO 01	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 30/15 Summer 6 30/15 Summer 7 30/15 Summer 8 30/15 Summer 8	er 0, 40 00 40 evel Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664
US/MH Return Period(s) (years) Climate Change (%) US/MH Return Climate Climate Change (%) US/MH Return Climate Climate Change (%) Name Storm Period Change 1.000 SWMH51 15 Winter 1.001 SWMH52 15 Winter 100 +40% 2.000 SWMH53 15 Winter 100 +40% 2.001 SWMH54 15 Winter 100 +40% 1.002 SWMH55 1.003 SWMH57 15 Winter 100 +40% 3.000 SWDNO 01 15 Winter 100 +40%	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 600/15 Summer 66 30/15 Summer 700/15 Summer 700/1	er 0, 40 00 40 Surcharged Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 11 1.002 SWMH56 15 Winter 100 +40% 11 1.003 SWMH57 15 Winter 100 +40% 11 3.000 SWDNO 01 15 Winter 100 +40% 11 1.004 SWDNO 02 15 Winter 100 +40% 11 1.005 SWMH58 15 Winter 100 +40% 11	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 630/15 Summer 100/15 Summer 630/15 Summer 66 30/15 Summer 76 30/15 Summer 7	er 0, 40 00 40 Ater Surcharged Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10 1.002 SWMH56 15 Winter 100 +40% 10 1.003 SWMH57 15 Winter 100 +40% 10 1.004 SWDNO 01 15 Winter 100 +40% 10 1.004 SWDNO 02 15 Winter 100 +40% 10 1.005 SWMH58 15 Winter 100 +40% 10 1.006 SWMH59 15 Wi	Summer and Winter 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Let Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 600/15 Summer 600/	er 0, 40 00 40 evel Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768 .672 0.342
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate Change (%) Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10 1.002 SWMH56 15 Winter 100 +40% 10 1.003 SWMH57 15 Winter 100 +40% 10 1.004 SWDNO 01 15 Winter 100 +40% 10 1.005 SWMH58 15 Winter 100 +40% 10 1.006 SWMH59 15 Winter 100 +40% 10 1.007 SWMH60 15 Winter 100 +40%	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 30/15 Summer 5 30/15 Summer 5 3	er 0, 40 00 40 40 40 40 40 40 40 50 549 549 552 0.536 546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768 .672 0.342 .465 0.162
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate Change (%) Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10 1.002 SWMH56 15 Winter 100 +40% 10 1.003 SWMH57 15 Winter 100 +40% 10 1.004 SWDNO 02 15 Winter 100 +40% 10 1.005 SWMH58 15 Winter 100 +40% 10 1.006 SWMH59 15 Winter 100 +40% 10 1.007 SWMH60 15 Winter 100 +40%	Summer and Winter 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 00/15 Summer 100/15 Summer 6 30/15 Summer 100/15 Summer 6 30/15 Summer 7 8 30/15 Summer 7 8 8 8 8 8 8 8 8 8 8 8 8 8	er 0, 40 00 40 evel Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768 .672 0.342 .465 0.162
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10 1.002 SWMH56 15 Winter 100 +40% 10 1.003 SWDNO 01 15 Winter 100 +40% 10 1.004 SWDNO 02 15 Winter 100 +40% 10 1.005 SWMH58 15 Winter 100 +40% 10 1.007 SWMH60 15 Winter 100	Summer and Winter 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 00/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 61 30/15 Summer 100/15 Summer 62 30/15 Summer 100/15 Summer 63 30/15 Summer 100/15 Summer 63 30/15 Summer 64 55 30/15 Summer 55 30/15 Summer 55 5	er 0, 40 00 40 evel Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768 .672 0.342 .465 0.162
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 11 1.002 SWMH56 15 Winter 100 +40% 11 1.003 SWMH57 15 Winter 100 +40% 11 1.004 SWDNO 02 15 Winter 100 +40% 11 1.005 SWMH58 15 Winter 100 +40% 11 1.006 SWMH59 15 Winter 10	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Le Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 00/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 630/15 Summer 100/15 Summer 630/15 Summer 64 75 75 75 75 75 75 75 75 75 75	er 0, 40 00 40 ater Surcharged Depth (m) .612 0.595 .549 0.699 .552 0.536 .546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768 .672 0.342 .465 0.162
Profile(s) Duration(s) (mins) I Return Period(s) (years) Climate Change (%) Return Climate VS/MH Return Climate PN Name Storm 1.000 SWMH51 15 Winter 1.001 SWMH52 15 Winter 1.001 SWMH53 15 Winter 2.000 SWMH53 15 Winter 2.001 SWMH54 15 Winter 1.002 SWMH55 15 Winter 1.003 SWMH57 15 Winter 1.003 SWMH57 15 Winter 1.004 SWDNO 01 15 Winter 1.005 SWMH58 15 Winter 1.006 SWMH59 15 Winter 1.007 SWMH60 15 Winter 1.007 SWMH60 15 Winter WH60 15 Winter 100 408 15 1.007 SWMH60 15 Winter WH60 15 Winter 100 YMH60 15 Winter 100 YMH60 15 Winter <td>Summer and Winter 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Level Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 630/15 Summer 64 64 65 65 65 65 65 65 65 65 65 65</td> <td>er 0, 40 40 40 40 40 40 40 40 40 40</td>	Summer and Winter 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 First (X) First (Y) First (Z) Overflow Level Surcharge Flood Overflow Act. (00/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 600/15 Summer 100/15 Summer 630/15 Summer 64 64 65 65 65 65 65 65 65 65 65 65	er 0, 40 40 40 40 40 40 40 40 40 40
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH51 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10 1.002 SWMH56 15 Winter 100 +40% 10 1.002 SWMH57 15 Winter 100 +40% 10 1.003 SWMH57 15 Winter 100 +40% 10 1.004 SWDNO 02 15 Winter 100 +40% 10 1.007 SWMH60 15 Winter 100 +40% 10 1.007 SWMH60 15 Winter 100	Summer and Winter 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 8 First (X) First (Y) First (Z) Overflow 8 9 <t< td=""><td>er 0, 40 00 40 40 40 40 40 50 50 51 549 552 549 552 549 552 546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768 .672 0.342 .465 0.162</td></t<>	er 0, 40 00 40 40 40 40 40 50 50 51 549 552 549 552 549 552 546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768 .672 0.342 .465 0.162
Profile(s) Duration(s) (mins) I Return Period(s) (years) Climate Change (%) Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH51 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10 1.002 SWMH56 15 Winter 100 +40% 10 1.002 SWMH57 15 Winter 100 +40% 10 1.003 SWMH57 15 Winter 100 +40% 10 1.004 SWDNO 02 15 Winter 100 +40% 10 1.006 SWMH59 15 Winter 100 +40% 10 1.007 SWMH60 15 Winter 100 +40% 10	Summer and Winter 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 8 First (X) First (Y) First (Z) Overflow Act. 00/15 Summer 100/15 Summer 00/15 Summer 100/15 Summer 00/15 Summer	er 0, 40 40 40 40 40 40 40 50 50 54 549 552 549 552 549 552 546 0.673 .615 0.913 .545 0.868 .492 0.852 .372 0.664 .378 0.823 .279 0.768 .672 0.342 .465 0.162
Profile(s) Duration(s) (mins) 1 Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH51 15 Winter 100 +40% 10 1.001 SWMH52 15 Winter 100 +40% 10 2.000 SWMH53 15 Winter 100 +40% 10 2.001 SWMH54 15 Winter 100 +40% 10 2.002 SWMH55 15 Winter 100 +40% 10 1.002 SWMH57 15 Winter 100 +40% 10 1.003 SWMH57 15 Winter 100 +40% 10 1.004 SWDNO 02 15 Winter 100 +40% 10 1.004 SWMH59 15 Winter 100 +40% 10 1.007 SWH60 15 Winter 100 +40% 10 1.007 SWH60 15 Winter 100 +40%	Summer and Winte 5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 960 144 2, 30, 10 0, 0, 4 2, 30, 10 0, 0, 4 2, 30, 10 0, 0, 4 Surcharge Flood Overflow Act. 00/15 Summer 100/15 00/15 Summer 100/15 00/15 Summer 100/15 00/15 Summer 100/15 00/15 Summer Summer	er 0, 40 00 40 40 40 40 40 50 50 51 549 552 549 552 546 546 546 0.673 545 0.868 492 0.852 372 0.664 378 0.823 279 0.768 672 0.342 465 0.162

		©19	82-2019	Innovyze		
1.006	SWMH59	0.000	2.35	176.1	SURCHARGED	
1.005	SWMH58	0.000	1.76	179.1	SURCHARGED	
1.004	SWDNO 02	0.000	1.58	132.9	FLOOD RISK	
3.000	SWDNO 01	0.000	0.06	2.3	SURCHARGED	
1.003	SWMH57	0.000	1.46	141.8	FLOOD RISK	
1.002	SWMH56	0.875	1.86	151.4	FLOOD	
2.002	SWMH55	0.000	0.77	45.4	FLOOD RISK	
2.001	SWMH54	2.296	0.54	37.2	FLOOD	

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Lower Bristol Road	SW Calculations	Sec. 1
Bath	Car Park (CP) Network	Micco
Date 17/12/2020 16:48	Designed by Matt Redfern	Desinano
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW CP

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (1/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.007	SWMH60	0.000	2.28		177.1	SURCHARGED	

Some temporary flooding for 1 in 100yr (+40%) 15 minute storm 19 cu.m of flooding at low points of car park.

		-
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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	The second
Bath	North East (NE) Network	Micco
Date 17/12/2020 16:49	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for SW_NE

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and WalesReturn Period (years)5M5-60 (mm)18.800Add Flow / Climate Change (%)0Ratio R0.400Maximum Rainfall (mm/hr)250Maximum Time of Concentration (mins)30Min Design Depth for Optimisation (m)1.000Foul Sewage (l/s/ha)0.000Win Slope for Optimisation (1:X)500

Designed with Level Soffits

Network Design Table for SW NE

« - Indicates pipe capacity < flow

PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)		Design
1.000	14.220	0.050	284.4	0.000	5.00	0.0	0.600	0	300	Pipe/Conduit	•
1.001	69.482	0.183	379.7	0.341	0.00	0.0	0.600	0	450	Pipe/Conduit	Ā
1.002	27.875	0.063	442.5	0.131	0.00	0.0	0.600	0	500	Pipe/Conduit	ē
2.000	12.532	0.001	12532.0	0.000	5.00	0.0	0.600	Q70	-6	Pipe/Conduit	a
2.001	101.664	0.011	9242.2	0.000	0.00	0.0	0.600	Q70	-б	Pipe/Conduit	ð
3.000	13.986	0.001	13986.0	0.000	5.00	0.0	0.600	Q70	-6	Pipe/Conduit	a
3.001	53.042	0.005	10608.4	0.000	0.00	0.0	0.600	Q70	-б	Pipe/Conduit	ě
3.002	23.098	0.002	11549.0	0.000	0.00	0.0	0.600	Q70	-б	Pipe/Conduit	ð
2.002	12.528	0.060	208.8	0.753	0.00	0.0	0.600	0	600	Pipe/Conduit	0
1.003	32.766	0.066	496.5	0.000	0.00	0.0	0.600	0	600	Pipe/Conduit	0
1.004	23.389	0.047	497.6	0.158	0.00	0.0	0.600	0	600	Pipe/Conduit	Ā

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(mm/hr)	(mins)	(m)	(ha)	Flow (l/s)	(l/s)	(1/s)	(m/s)	(l/s)	(l/s)
1 000	83 61	5 26	5 950	0 000	0 0	0 0	0 0	0 93	65 5	0 0
1 001	76 70	5.20 6.37	5 843	0.000	0.0	0.0	0.0	1 04	165 0	70.8
1.002	74.26	6.82	5.614	0.471	0.0	0.0	0.0	1.03	201.5	94.8
2.000	78.40	6.08	5.660	0.000	0.0	0.0	0.0	0.19	48.5	0.0
2.001	51.56	13.52	5.659	0.000	0.0	0.0	0.0	0.23	56.9	0.0
3.000	77.27	6.27	5.660	0.000	0.0	0.0	0.0	0.18	45.8	0.0
3.001	59.69	10.44	5.659	0.000	0.0	0.0	0.0	0.21	53.0	0.0
3.002	54.35	12.34	5.654	0.000	0.0	0.0	0.0	0.20	50.7	0.0
2.002	51.28	13.64	5.511	0.753	0.0	0.0	0.0	1.68	475.4	104.6
1.003	50.20	14.15	5.451	1.224	0.0	0.0	0.0	1.09	307.1	166.4
1.004	49.46	14.51	5.385	1.382	0.0	0.0	0.0	1.08	306.7	185.0

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Lower Bristol Road	SW Calculations	the second
Bath	North East (NE) Network	Micro
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Innovyze	Network 2019.1	

Network Design Table for SW NE

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.005	62.559	0.083	753.7	0.061	0.00	0.0	0.600	0	750	Pipe/Conduit	۵
4.000	9.295	0.015	619.7	0.785	5.00	0.0	0.600	0	500	Pipe/Conduit	A
4.001	85.165	0.168	506.9	0.000	0.00	0.0	0.600	0	600	Pipe/Conduit	ŏ
5.000	6.856	0.045	152.4	0.709	5.00	0.0	0.600	0	500	Pipe/Conduit	٥
4.002	23.516	0.025	940.6	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	A
4.003	22.080	0.052	424.6	0.000	0.00	0.0	0.600	00	500	Double Pipe	Ä
4.004	8.525	0.016	532.8	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ä
4.005	8.027	0.016	501.7	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ā
4.006	8.027	0.016	501.7	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	ĕ
1.006	83.261	0.111	750.1	0.040	0.00	0.0	0.600	0	750	Pipe/Conduit	A
1.007	59.103	0.079	748.1	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ă
1.008	59.997	0.080	750.0	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ä
1.009	43.802	0.058	755.2	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ā
1.010	7.755	0.010	775.5	0.041	0.00	0.0	0.600	0	750	Pipe/Conduit	ă
1.011	8.199	0.017	482.3	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ā

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(1111/112)	(mins)	(m)	(na)	FIOW (1/S)	(1/8)	(1/8)	(m/s)	(1/8)	(1/8)
1.005	47.46	15.54	5.338	1.443	0.0	0.0	0.0	1.01	446.9	185.4
4.000	84.14	5.18	5.900	0.785	0.0	0.0	0.0	0.87	169.9«	178.9
4.001	75.99	6.50	5.785	0.785	0.0	0.0	0.0	1.07	303.9	178.9
5.000	84.94	5.07	5.800	0.709	0.0	0.0	0.0	1.76	345.1	163.0
4.002	73.70	6.93	5.511	1.494	0.0	0.0	0.0	0.90	399.4	298.2
4.003	71.96	7.28	5.455	1.494	0.0	0.0	0.0	1.05	411.5	298.2
4.004	71.39	7.40	5.403	1.494	0.0	0.0	0.0	1.21	532.5	298.2
4.005	70.89	7.51	5.271	1.494	0.0	0.0	0.0	1.24	548.9	298.2
4.006	70.39	7.62	5.271	1.494	0.0	0.0	0.0	1.24	548.9	298.2
1.006	45.09	16.91	5.255	2.977	0.0	0.0	0.0	1.01	447.9	363.4
1.007	43.56	17.88	5.144	2.977	0.0	0.0	0.0	1.02	448.5	363.4
1.008	42.13	18.86	5.065	2.977	0.0	0.0	0.0	1.01	448.0	363.4
1.009	41.14	19.58	4.985	2.977	0.0	0.0	0.0	1.01	446.4	363.4
1.010	40.97	19.71	4.927	3.018	0.0	0.0	0.0	1.00	440.5	363.4
1.011	40.83	19.82	4.917	3.018	0.0	0.0	0.0	1.27	560.0	363.4

Surcharged Outfall Details for SW_NE

Outfall Pipe Number	Outfall Name	C. Level I. (m)	Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.011	Under Bridge	7.198	4.900	4.700	1500	0
	Datum (m)	0.000 Offse	t (mins) 0		

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Surcharged Outfall Details for SW NE

Time Depth (mins) (m)

1440 4.893

				Pag	e 4
Camden Mill	The Peop	oles Project			
Lower Bristol Road	SW Calcu	lations			
Bath	North Ea	ast (NE) Netw	vork	N	licro
Date 17/12/2020 16:49	Designed	l by Matt Rec	lfern	ň	cinado
File SW_Networks_201217.MDX	Checked	by Nick Hall			rainaye
Innovyze	Network	2019.1			
2 year Return Period Summary of	Critical Rea	sults by Max	imum Level (Ra	nk 1) for	SW NE
Areal Reduction Fa Hot Start (m Hot Start Level Manhole Headloss Coeff (Glo Foul Sewage per hectare (Number of Input Hydrographs 0 N Number of Online Controls 0 Num	Simulation ctor 1.000 A ins) 0 (mm) 0 bal) 0.500 Flo l/s) 0.000 umber of Offli ber of Storage	<u>Criteria</u> dditional Flow MADD Factor w per Person p ne Controls 0 Structures 1	- % of Total Flo * 10m³/ha Storag Inlet Coeffiecier er Day (l/per/day Number of Time/An Number of Real Ti	ow 0.000 ge 2.000 nt 0.800 m 0.000 mea Diagram ime Control	ns 0 .s 0
Rainfall Model FEH Rainfall Version Site Location GB 1 Margin for Flood Risk	Synthetic Rains	Eall Details FEH 2013 GJ 33750 92800	Data Type Catc Cv (Summer) Cv (Winter) 300.	hment 0.750 0.840	
Ana.	DTS Status	2.5 Second Inc	rement (Extended OF) F	
	DVD Status		0	N	
:	Inertia Status		OF	F	
Profile(s)			Summer and	l Winter	
Duration(s) (mins)	15, 30, 60, 1	20, 180, 240,	360, 480, 600, 72	0, 960,	
Return Deriod(s) (years)			2	1440 30 100	
Climate Change (%)			2,	. 0. 40	
				, -,	
				, .,	
				Water	Surcharged
US/MH Return Climate	First (X)	First (Y)	First (Z) Overf	Water low Level	Surcharged Depth
US/MH Return Climate PN Name Storm Period Change	First (X) Surcharge	First (Y) Flood	First (Z) Overf	Water low Level . (m)	Surcharged Depth (m)
US/MH Return Climate PN Name Storm Period Change	First (X) Surcharge	First (Y) Flood	First (Z) Overf Overflow Act	Water low Level . (m)	Surcharged Depth (m)
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0%	First (X) Surcharge 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006	Surcharged Depth (m) -0.245 -0.287
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841	Surcharged Depth (m) -0.245 -0.287 -0.273
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0% 2.001 QMAX IC02 15 Winter 2 +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.810 5.810	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 0.559
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO2 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.810 5.805 5.805	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.555
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO2 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO4 15 Winter 2 +0% 3.002 OMAX ICO5 15 Winter 2 +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/30 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.810 5.805 5.805 5.805	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.554 -0.554 -0.554 -0.549
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0% 2.001 QMAX IC02 15 Winter 2 +0% 3.000 QMAX IC03 15 Winter 2 +0% 3.001 QMAX IC04 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 2.002 SWMH05 15 Winter 2 +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.810 5.805 5.805 5.805 5.805 5.810	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.554 -0.554 -0.554 -0.549 -0.301
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0% 2.001 QMAX IC02 15 Winter 2 +0% 3.000 QMAX IC03 15 Winter 2 +0% 3.001 QMAX IC05 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 2.002 SWMH05 15 Winter 2 +0% 1.003 SWMH04 15 Winter 2 +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/30 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.810 5.805 5.805 5.805 5.805 5.810 5.796	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.549 -0.301 -0.255
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0% 2.001 QMAX IC02 15 Winter 2 +0% 3.000 QMAX IC03 15 Winter 2 +0% 3.001 QMAX IC05 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 2.002 SWMH05 15 Winter 2 +0% 1.003 SWMH06 15 Winter 2 +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.810 5.805 5.805 5.805 5.805 5.810 5.810 5.732	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.549 -0.301 -0.255 -0.253
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0% 2.001 QMAX IC02 15 Winter 2 +0% 3.000 QMAX IC03 15 Winter 2 +0% 3.001 QMAX IC05 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 1.003 SWMH05 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 1.005 SWMH07 30 Winter 2 +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.810 5.805 5.805 5.805 5.805 5.810 5.810 5.732 5.732 5.631	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.549 -0.301 -0.255 -0.253 -0.253 -0.397
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO2 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO3 15 Winter 2 +0% 3.002 QMAX ICO5 15 Winter 2 +0% 1.003 SWMH05 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 1.005 SWMH08 15 Winter 2 +0% 4 001 SWMH09 <td>First (X) Surcharge</td> <td>First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</td> <td>First (Z) Overf Overflow Act</td> <td>Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.</td> <td>Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.559 -0.554 -0.554 -0.554 -0.301 -0.255 -0.253 -0.253 -0.203 -0.223 -0.223</td>	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.559 -0.554 -0.554 -0.554 -0.301 -0.255 -0.253 -0.253 -0.203 -0.223 -0.223
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO2 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO5 15 Winter 2 +0% 3.002 QMAX ICO5 15 Winter 2 +0% 1.003 SWMH05 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 1.005 SWMH08 15 Winter 2 +0% 4.000 SWMH09 15<	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.805 5.810 5.732 5.691 6.377 6.113 6.058	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.554 -0.554 -0.554 -0.554 -0.255 -0.253 -0.253 -0.253 -0.297 -0.023 -0.272 -0.242
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO3 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO3 15 Winter 2 +0% 3.002 QMAX ICO5 15 Winter 2 +0% 1.003 SWMH04 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 1.005 SWMH07 30 Winter 2 +0% 4.000 SWMH08 15<	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.805 5.810 5.796 5.732 5.691 6.377 6.113 6.058 6.045	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.554 -0.554 -0.554 -0.554 -0.255 -0.253 -0.253 -0.253 -0.272 -0.222 -0.242 -0.216
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0% 2.001 QMAX IC02 15 Winter 2 +0% 3.001 QMAX IC03 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 1.003 SWMH04 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 1.005 SWMH07 30 Winter 2 +0% 4.000 SWMH08 15<	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf: Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.810 5.796 5.732 5.691 6.377 6.113 6.058 6.045 5.876	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.549 -0.301 -0.255 -0.253 -0.253 -0.397 -0.023 -0.272 -0.242 -0.216 -0.079
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO2 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO5 15 Winter 2 +0% 2.002 SWMH05 15 Winter 2 +0% 1.003 SWMH06 15 Winter 2 +0% 1.004 SWMH08 15 Winter 2 +0% 4.001 SWMH09 15 Winter 2 +0% 5.000 SWMH10 15 Win	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf: Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.805 5.810 5.732 5.691 6.377 6.113 6.058 6.045 5.876 5.829	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.549 -0.301 -0.255 -0.253 -0.253 -0.397 -0.023 -0.272 -0.242 -0.216 -0.079 -0.324
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0% 2.001 QMAX IC02 15 Winter 2 +0% 3.000 QMAX IC03 15 Winter 2 +0% 3.001 QMAX IC04 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 1.003 SWMH05 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 4.000 SWMH09 15 Winter 2 +0% 4.001 SWMH09 Winter 2 +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf: Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.810 5.732 5.691 6.377 6.113 6.058 6.045 5.876 5.829 5.670	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.549 -0.301 -0.255 -0.253 -0.253 -0.253 -0.272 -0.242 -0.216 -0.079 -0.324 -0.351 -0.255
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX IC01 15 Winter 2 +0% 2.001 QMAX IC02 15 Winter 2 +0% 3.000 QMAX IC03 15 Winter 2 +0% 3.001 QMAX IC04 15 Winter 2 +0% 3.002 QMAX IC05 15 Winter 2 +0% 3.002 QMAX IC05 IS Winter 2 +0% 1.003 SWMH05 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 4.001 SWMH09 15 Winter 2 +0% 4.001 SWMH09 15 Winter 2 +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overf. Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.810 5.732 5.691 6.377 6.113 6.058 6.045 5.876 5.829 5.670 5.670	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.549 -0.301 -0.255 -0.253 -0.253 -0.253 -0.272 -0.242 -0.216 -0.079 -0.324 -0.351 -0.360 -0.265
US/MH Return Climate Period PN Name Storm 1.000 SWMH01 15 Winter 2 1.001 SWMH02 15 Winter 2 1.002 SWMH03 15 Winter 2 2.000 QMAX ICO1 15 Winter 2 2.001 QMAX ICO2 15 Winter 2 2.001 QMAX ICO3 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO3 15 Winter 2 +0% 3.002 QMAX ICO3 15 Winter 2 +0% 3.002 QMAX ICO5 15 Winter 2 +0% 1.003 SWMH05 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 4.001 SWMH09 15 Winter 2 +0% 4.001 SWMH01 15 Winter 2 +	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overfi Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.810 6.772 6.113 6.058 6.045 5.829 5.670 5.661 5.652 5.549	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.549 -0.301 -0.255 -0.273 -0.301 -0.255 -0.272 -0.242 -0.216 -0.079 -0.321 -0.351 -0.360 -0.351 -0.360 -0.353 -0.345
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO2 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO3 15 Winter 2 +0% 3.002 QMAX ICO5 15 Winter 2 +0% 1.003 SWH04 15 Winter 2 +0% 1.004 SWH06 15 Winter 2 +0% 4.000 SWH08 15 Winter 2 +0% 4.001 SWH09 15	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overfi Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.732 5.691 6.772 6.113 6.058 6.045 5.876 5.829 5.670 5.661 5.652 5.549 5.470	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.554 -0.301 -0.255 -0.253 -0.223 -0.223 -0.223 -0.2242 -0.216 -0.079 -0.324 -0.351 -0.351 -0.353 -0.345 -0.345
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO2 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO5 15 Winter 2 +0% 3.002 QMAX ICO5 15 Winter 2 +0% 1.003 SWMH05 15 Winter 2 +0% 1.004 SWMH06 15 Winter 2 +0% 4.000 SWMH09 15 Winter 2 +0% 4.001 SWMH03 15<	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overfi Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.554 -0.301 -0.255 -0.253 -0.253 -0.223 -0.223 -0.224 -0.242 -0.216 -0.079 -0.324 -0.351 -0.360 -0.353 -0.345 -0.345 -0.340
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 15 Winter 2 +0% 1.001 SWMH02 15 Winter 2 +0% 1.002 SWMH03 15 Winter 2 +0% 2.000 QMAX ICO1 15 Winter 2 +0% 2.001 QMAX ICO2 15 Winter 2 +0% 3.000 QMAX ICO3 15 Winter 2 +0% 3.001 QMAX ICO5 15 Winter 2 +0% 3.002 QMAX ICO5 15 Winter 2 +0% 1.003 SWMH04 15 Winter 2 +0% 1.004 SWMH07 30 Winter 2 +0% 4.001 SWMH09 15 Winter 2 +0% 4.002 SWMH11 15<	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overfi Overflow Act	Water low Level . (m) 6.005 6.006 5.841 5.810 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.805 5.810 5.732 5.691 6.377 6.113 6.058 6.045 5.876 5.829 5.670 5.652 5.876 5.829 5.670 5.652 5.670 5.652 5.549 5.470 5.327	Surcharged Depth (m) -0.245 -0.287 -0.273 -0.550 -0.549 -0.555 -0.554 -0.554 -0.253 -0.253 -0.253 -0.223 -0.223 -0.222 -0.242 -0.242 -0.242 -0.242 -0.242 -0.242 -0.242 -0.242 -0.351 -0.351 -0.345 -0.340 -0.350

BuroHappold Ltd		Page 5
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	The second
Bath	North East (NE) Network	Micro
Date 17/12/2020 16:49	Designed by Matt Redfern	Dcainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	•

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW NE

	US/MH	Flooded Volume	Flow /	Overflow	Pipe Flow		Level
PN	Name	(m ³)	Cap.	(1/s)	(l/s)	Status	Exceeded
1.000	SWMH01	0.000	0.00		0.2	OK	1
1.001	SWMH02	0.000	0.27		41.4	OK	
1.002	SWMH03	0.000	0.31		52.1	OK	
2.000	QMAX IC01	0.000	0.00		0.4	OK	4
2.001	QMAX IC02	0.000	0.00		0.9	OK	1
3.000	QMAX IC03	0.000	0.00		0.3	OK	
3.001	QMAX IC04	0.000	0.01		1.1	OK	5
3.002	QMAX IC05	0.000	0.03		4.2	OK	1
2.002	SWMH05	0.000	0.23		74.7	OK	5
1.003	SWMH04	0.000	0.49		123.5	OK	
1.004	SWMH06	0.000	0.58		134.8	OK	
1.005	SWMH07	0.000	0.31		122.5	OK	
4.000	SWMH08	0.000	1.09		113.0	OK	
4.001	SWMH09	0.000	0.37		104.9	OK	
5.000	SWMH10	0.000	0.51		106.0	OK	1
4.002	SWMH11	0.000	0.87		181.3	OK	
4.003	SWMH13	0.000	0.52		172.7	OK	
4.004	SWMH14	0.000	0.63		171.2	OK	3
4.005	RWHT	0.000	0.32		90.5	OK	
4.006	SWMH15	0.000	0.32		90.4	OK	
1.006	SWMH16	0.000	0.45		179.2	OK	
1.007	SWMH17	0.000	0.43		166.0	OK	
1.008	SWMH18	0.000	0.40		156.5	OK	
1.009	SWMH19	0.000	0.40		149.3	OK	
1.010	SWMH20	0.000	0.51		147.8	OK	
1.011	SWMH21	0.000	0.53		147.8	OK	

			Page 6
Camden Mill	The Peoples Project		
Lower Bristol Road	SW Calculations		The second
Bath	North East (NE) Net	work	Micro
Date 17/12/2020 16:49	Designed by Matt Red	dfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	1	Diamage
Innovyze	Network 2019.1		
<u>30 year Return Period Summary of C</u>	ritical Results by Max	cimum Level (Rank 1) for SW NE
Areal Reduction Facto Hot Start (mins Hot Start Level (mm Manhole Headloss Coeff (Global Foul Sewage per hectare (1/s Number of Input Hydrographs 0 Numb Number of Online Controls 0 Number	Simulation Criteria r 1.000 Additional Flow) 0 MADD Factor) 0) 0.500 Flow per Person p) 0.000 eer of Offline Controls 0 of Storage Structures 1	 % of Total Flow 0.00 * 10m³/ha Storage 2.00 Inlet Coefficcient 0.80 er Day (1/per/day) 0.00 Number of Time/Area Dia Number of Real Time Conduct 	00 00 00 agrams 0 ntrols 0
Syn Rainfall Model FEH Rainfall Version Site Location GB 333 Margin for Flood Risk Wa Analys Ine:	thetic Rainfall Details FEH 2013 750 392800 SJ 33750 92800 arning (mm) is Timestep 2.5 Second Ind DTS Status DVD Status ctia Status	Data Type Catchment Cv (Summer) 0.750 Cv (Winter) 0.840 300.0 crement (Extended) OFF ON OFF	
Profile(s)		Summer and Winte	er
Duration(s) (mins) 15	, 30, 60, 120, 180, 240,	360, 480, 600, 720, 960), 10
Return Period(s) (years)		2, 30, 10	±0 00
Return Period(s) (years) Climate Change (%)		2, 30, 10 0, 0, 4	40 20 40
Return Period(s) (years) Climate Change (%)		2, 30, 10 0, 0, 4	40 00 40
Return Period(s) (years) Climate Change (%)		144 2, 30, 10 0, 0, 4	40 00 40 ater Surcharged
Return Period(s) (years) Climate Change (%) US/MH Return Climate	First (X) First (Y)	2, 30, 10 0, 0, 4 First (Z) Overflow L	ater Surcharged
Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change	First (X) First (Y) Surcharge Flood	144 2, 30, 10 0, 0, 4 Wa First (Z) Overflow L Overflow Act.	40 20 40 ater Surcharged sevel Depth (m) (m)
Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter	144 2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6	40 00 40 ater Surcharged sevel Depth (m) 5.171 -0.079
Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter 0/15 Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6	ater Surcharged .evel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000
Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX IC01 60 Winter 30 +0% 10	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter 0/15 Summer 0/15 Summer 0/15 Summer 100/15 Winter	144 2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6	ater Surcharged .evel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000 5.112 -0.248
US/MH Return Climate VS/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX IC01 60 Winter 30 +0% 10 2.001 QMAX IC02 60 Winter 30 +0% 10	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter 0/15 Summer 0/15 Summer 0/15 Summer 100/15 Winter 0/15 Summer 100/30 Winter	144 2, 30, 10 0, 0, 4 Wa First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged avel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000 5.112 -0.248 5.112 -0.247
US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX ICO1 60 Winter 30 +0% 10 2.001 QMAX ICO3 60 Winter 30 +0% 10 3.000 QMAX ICO3 60 Winter 30 +0% 10	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter 0/15 Summer 0/15 Summer 100/15 Winter 0/15 Summer 100/30 Winter 0/15 Summer 100/30 Winter	144 2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged
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US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX ICO1 60 Winter 30 +0% 10 3.000 QMAX ICO3 60 Winter 30 +0% 10 3.001 QMAX ICO3 60 Winter 30 +0% 10 3.002 QMAX ICO5 60 Winter 30 +0% 10 3.002 SWMH05 30 Winter 30 +0% 10 3.003 SWMH04 60 Winter 30 +0% 10	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter 0/15 Summer 0/15 Summer 100/15 Winter 0/15 Summer 100/30 Winter 0/15 Summer 100/15 Winter 0/15 Summer 100/15 Winter 0/30 Winter 100/15 Winter 0/15 Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged sevel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000 5.112 -0.248 5.111 -0.249 5.111 -0.248 5.111 -0.248 5.111 0.0243 5.112 0.001 5.051 0.000
US/MH Return Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX IC01 60 Winter 30 +0% 10 2.001 QMAX IC02 60 Winter 30 +0% 10 3.000 QMAX IC03 60 Winter 30 +0% 10 3.001 QMAX IC05 60 Winter 30 +0% 10 3.002 QMAX IC05 60 Winter 30 +0% 10 2.002 SWMH05 30 Winter 30 +0% 10 1.003 SWMH06 30 Winter 30 +0% 10	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter 0/15 Summer 100/15 Winter 0/30 Winter 100/15 Winter 0/15 Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged sevel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000 5.112 -0.248 5.111 -0.249 5.111 -0.243 5.112 0.001 5.112 0.001 5.112 0.001 5.051 0.000
US/MH Return Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX ICO1 60 Winter 30 +0% 10 2.001 QMAX ICO2 60 Winter 30 +0% 10 3.000 QMAX ICO3 60 Winter 30 +0% 10 3.001 QMAX ICO4 60 Winter 30 +0% 10 3.002 QMAX ICO5 30 Winter 30 +0% 10 1.003 SWMH05 30 Winter 30 +0% 10 1.004 SWMH06 30 Winter 30	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter 0/15 Summer 100/15 Winter 0/15 Summer 0/15 Summer 0/15 Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged aevel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.112 -0.248 5.112 -0.247 5.111 -0.248 5.112 0.0247 5.111 -0.248 5.112 0.001 5.051 0.000 5.985 0.000 5.932 -0.156 5.516 0.116
US/MH Return Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX ICO1 60 Winter 30 +0% 10 2.001 QMAX ICO2 60 Winter 30 +0% 10 3.000 QMAX ICO3 60 Winter 30 +0% 10 3.001 QMAX ICO5 60 Winter 30 +0% 10 3.002 SWMH05 30 Winter 30 +0% 10 3.002 SWMH05 30 Winter 30 +0% 10 1.003 SWMH06 30 Winter 30 +0% 10 1.004 SWMH06 30 Winter 30 +0% <	First (X) First (Y) Surcharge Flood 0/15 Summer 100/30 Winter 0/15 Summer 100/15 Winter 0/15 Summer 100/15 Winter 0/15 Summer 100/15 Winter 0/15 Summer 100/15 Winter 0/15 Summer 0/15 Summer 0/15 Summer 0/15 Summer 0/15 Summer 0/15 Summer 0/15 Summer 0/15 Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged aevel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.112 -0.248 5.112 -0.248 5.111 -0.248 5.112 -0.243 5.111 -0.243 5.112 0.001 5.051 0.000 5.985 0.000 5.932 -0.156 5.516 0.116 5.390 0.005
US/MH Return Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX IC01 60 Winter 30 +0% 10 2.001 QMAX IC02 60 Winter 30 +0% 10 3.001 QMAX IC03 60 Winter 30 +0% 10 3.002 QMAX IC05 60 Winter 30 +0% 10 3.002 SWMH05 30 Winter 30 +0% 10 1.003 SWMH04 60 Winter 30 +0% 10 1.004 SWMH06 30 Winter 30 +0% 10 1.005 SWMH07 30 Winter 30 +0% <	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged
US/MH Return Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX ICO1 60 Winter 30 +0% 10 2.001 QMAX ICO2 60 Winter 30 +0% 10 3.000 QMAX ICO3 60 Winter 30 +0% 10 3.001 QMAX ICO5 60 Winter 30 +0% 10 3.002 QMAX ICO5 30 Winter 30 +0% 10 1.003 SWMH06 30 Winter 30 +0% 10 1.004 SWMH06 30 Winter 30 +0% 30 1.005 SWMH08 15 Winter 30 <t< td=""><td>First (X)First (Y)SurchargeFlood0/15Summer</td><td>2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6</td><td>ater Surcharged sevel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000 5.112 -0.248 5.111 -0.249 5.112 0.0247 5.111 -0.243 5.112 0.001 5.051 0.000 5.985 0.000 5.932 -0.156 5.516 0.116 5.390 0.005 5.361 0.061 5.281 0.020</td></t<>	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged sevel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000 5.112 -0.248 5.111 -0.249 5.112 0.0247 5.111 -0.243 5.112 0.001 5.051 0.000 5.985 0.000 5.932 -0.156 5.516 0.116 5.390 0.005 5.361 0.061 5.281 0.020
US/MH Return Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX ICO1 60 Winter 30 +0% 10 2.001 QMAX ICO2 60 Winter 30 +0% 10 3.000 QMAX ICO3 60 Winter 30 +0% 10 3.001 QMAX ICO3 60 Winter 30 +0% 10 3.002 QMAX ICO5 60 Winter 30 +0% 10 3.002 QMAX ICO5 60 Winter 30 +0% 10 1.003 SWMH05 30 Winter	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged avel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.112 -0.248 5.112 -0.247 5.111 -0.248 5.112 -0.243 5.111 -0.243 5.112 0.001 5.051 0.000 5.985 0.000 5.936 0.005 5.361 0.116 5.320 0.275
US/MH Return Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX ICO1 60 Winter 30 +0% 10 2.001 QMAX ICO2 60 Winter 30 +0% 10 3.000 QMAX ICO2 60 Winter 30 +0% 10 3.001 QMAX ICO3 60 Winter 30 +0% 10 2.002 SWMH05 30 Winter 30 +0% 10 1.003 SWMH06 30 Winter 30 +0% 10 1.004 SWMH08 15 Winter 30 +0	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged avel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.112 -0.248 5.112 -0.247 5.111 -0.248 5.112 -0.248 5.112 -0.243 5.111 -0.248 5.112 0.001 5.051 0.000 5.985 0.000 5.932 -0.156 5.516 0.116 5.361 0.005 5.361 0.001 5.230 0.275 5.153 0.000 6.896 -0.125
US/MH Return Climate Change (%) I.000 SWMH01 60 Winter 30 +0% 10 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX IC01 60 Winter 30 +0% 10 2.001 QMAX IC02 60 Winter 30 +0% 10 3.000 QMAX IC03 60 Winter 30 +0% 10 3.001 QMAX IC05 60 Winter 30 +0% 10 3.002 QMAX IC05 60 Winter 30 +0% 10 3.002 QMAX IC05 60 Winter 30 +0% 10 1.003 SWMH06 30 Winter 30 +0% 10 1.004 SWMH08 15 Winter 30 +0% 3	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	AU Auter Surcharged Jepth Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000 5.112 -0.248 5.112 -0.247 5.111 -0.248 5.112 0.001 5.051 0.000 5.985 0.000 5.936 0.005 5.361 0.061 5.281 0.020 5.230 0.275 5.153 0.000 5.882 -0.125
Return Period(s) (years) Climate Change (%) US/MH Return Climate Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX IC01 60 Winter 30 +0% 10 2.001 QMAX IC03 60 Winter 30 +0% 10 3.001 QMAX IC04 60 Winter 30 +0% 10 3.002 QMAX IC05 60 Winter 30 +0% 10 3.001 SWMH05 30 Winter 30 +0% 10 1.003 SWMH06 30 Winter 30 +0% 30 1.004 SWMH06 30 Winter 30 +0% 30 4.001 SWMH09 15 Winter 30 +0% 30 4.001 SWMH10 15 Winter 30 +0% 30	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged aevel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.114 0.000 5.112 -0.248 5.112 -0.249 5.111 -0.249 5.112 0.001 5.051 0.000 5.985 0.000 5.985 0.000 5.361 0.166 5.390 0.0275 5.153 0.000 5.882 -0.125 5.882 -0.138
US/MH Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX IC01 60 Winter 30 +0% 10 2.001 QMAX IC02 60 Winter 30 +0% 10 3.000 QMAX IC03 60 Winter 30 +0% 10 3.001 QMAX IC05 60 Winter 30 +0% 10 3.002 QMAX IC05 60 Winter 30 +0% 10 2.002 SWMH06 30 Winter 30 +0% 10 1.003 SWMH06 30 Winter 30 +0% 30 1.004 SWMH06 30 Winter 30 +0% 30 4.001	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged
US/MH Return Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX ICO1 60 Winter 30 +0% 10 2.001 QMAX ICO2 60 Winter 30 +0% 10 3.001 QMAX ICO3 60 Winter 30 +0% 10 3.002 QMAX ICO3 60 Winter 30 +0% 10 2.002 SWMH05 30 Winter 30 +0% 10 1.004 SWMH06 30 Winter 30 +0% 30 4.001 SWMH09 15 Winter 30 +0	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged avel Depth (m) (m) 5.171 -0.079 5.171 -0.122 5.112 -0.248 5.112 -0.247 5.111 -0.249 5.112 -0.243 5.111 -0.243 5.112 0.001 5.051 0.000 5.985 0.000 5.985 0.000 5.361 0.116 5.390 0.020 5.361 0.061 5.281 0.020 5.362 -0.138 5.771 -0.123 5.682 -0.138 5.777 -0.123 5.680 -0.135
Return Period(s) (years) Climate Change (%) US/MH Return Climate PN Name Storm Period Change 1.000 SWMH01 60 Winter 30 +0% 10 1.001 SWMH02 60 Winter 30 +0% 10 1.002 SWMH03 60 Winter 30 +0% 10 2.000 QMAX IC01 60 Winter 30 +0% 10 2.001 QMAX IC02 60 Winter 30 +0% 10 3.001 QMAX IC04 60 Winter 30 +0% 10 3.001 QMAX IC05 60 Winter 30 +0% 10 3.002 QMAX IC05 60 Winter 30 +0% 10 2.002 SWMH05 30 Winter 30 +0% 10 1.003 SWMH06 30 Winter 30 +0% 30 1.004 SWMH08 15 Winter 30 +0% 30 4.001 SWMH1	First (X)First (Y)SurchargeFlood0/15Summer	2, 30, 10 0, 0, 4 First (Z) Overflow L Overflow Act. 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	ater Surcharged

BuroHappold Ltd		Page 7
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	See 1
Bath	North East (NE) Network	Micro
Date 17/12/2020 16:49	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW NE

PN	US/MH Name	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	SWMH01	0.000	0.01		0.6	OK	1
1.001	SWMH02	0.000	0.36		55.8	OK	
1.002	SWMH03	0.000	0.42		70.1	OK	
2.000	OMAX IC01	0.000	0.00		0.7	OK	4
2.001	QMAX IC02	0.000	0.02		3.2	OK	1
3.000	QMAX IC03	0.000	0.00		0.6	OK	
3.001	QMAX IC04	0.000	0.02		3.2	OK	5
3.002	QMAX IC05	0.000	0.10		12.6	OK	1
2.002	SWMH05	0.000	0.37		118.5	SURCHARGED	5
1.003	SWMH04	0.000	0.63		159.9	OK	
1.004	SWMH06	0.000	1.00		231.4	OK	
1.005	SWMH07	0.000	0.59		230.3	OK	
4.000	SWMH08	0.000	2.32		241.0	SURCHARGED	
4.001	SWMH09	0.000	0.80		223.3	SURCHARGED	
5.000	SWMH10	0.000	1.02		211.7	SURCHARGED	1
4.002	SWMH11	0.000	1.97		410.1	SURCHARGED	
4.003	SWMH13	0.000	1.18		392.0	SURCHARGED	
4.004	SWMH14	0.000	1.44		393.0	OK	3
4.005	RWHT	0.000	0.78		221.5	OK	
4.006	SWMH15	0.000	0.78		220.8	OK	
1.006	SWMH16	0.000	0.91		366.2	OK	
1.007	SWMH17	0.000	0.85		329.5	OK	
1.008	SWMH18	0.000	0.79		307.0	OK	
1.009	SWMH19	0.000	0.80		295.2	OK	
1.010	SWMH20	0.000	1.02		294.1	OK	
1.011	SWMH21	0.000	1.05		294.2	OK	

Вигонаррото	Lta							Pag	e 8
Camden Mill				The Peop	les Project				
Lower Brist	ol Road			SW Calcu	lations				
Bath				North Ea	st (NE) Netw	vork		N	licco
Date 17/12/	2020 16:49			Designed	by Matt Red	lfern			
File SW Net	works 20122	L7.MDX		Checked	by Nick Hall	_		U	rainage
Innovyze		-		Network	2019.1				LANCE IN DUCTOR
<u>100 year</u>	Return Per	iod Sumr	mary of	Critical Re	esults by Ma	ximum Lev	el (Rank	1) fc	or SW NE
Numbe	Ar Manhole Hea Foul Sewa r of Input Hy ber of Online	eal Reduc Hot S Hot Start dloss Coe ge per he ydrograph e Control	etion Fac Start (mi E Level (eff (Glok ectare (1 s 0 Numk s 0 Numk	Simulation (etor 1.000 A .ns) 0 mm) 0 pal) 0.500 Flo ./s) 0.000 umber of Offlin per of Storage	<u>Criteria</u> dditional Flow MADD Factor w per Person p ne Controls 0 Structures 1	- % of Tot * 10m³/ha Inlet Coeff er Day (1/g Number of T Number of F	al Flow 0 Storage 2 iecient 0 er/day) 0 Cime/Area Real Time	.000 .000 .800 .000 Diagram Control	15 0 .5 0
	Dei	wfoll Mar	<u>S</u>	ynthetic Rainf	all Details	Data Tra	. Ost shmar		
	FEH Rainf Si	all Vers: te Locat:	ion ion GB 3	33750 392800 s	FEH 2013 J 33750 92800	Cv (Summer Cv (Winter) 0.75) 0.84	10 50	
	Marg	in for Flo	ood Risk	Warning (mm)			300.0		
			Anal	ysis Timestep	2.5 Second Inc	rement (Ex	cended)		
				DTS Status			OFF		
			т	DVD Status			ON		
			Ţ	nertia Status			OFF		
		Profil	le(s)			Summ	or and Win	nter	
	Dunnet	i am (m) (m		15 20 60 1	20 100 240	260 400 6			
	Durat	ion(s) (n	nins)	15, 30, 60, 1	20, 180, 240,	360, 480, 6	00, 720, 9	960,	
	Durat Return Peri	.ion(s) (n .od(s) (ye	mins) ears)	15, 30, 60, 1	20, 180, 240, 1	360, 480, 6	2, 30,	960, 1440 100	
	Durat Return Peri Clima	ion(s) (n od(s) (ye te Change	nins) ears) e (%)	15, 30, 60, 1	20, 180, 240, 3	360, 480, 6	2, 30, 0, 0	960, 1440 100 , 40	
	Durat Return Peri Clima	ion(s) (n od(s) (ye te Change	nins) ears) e (%)	15, 30, 60, 1	20, 180, 240, 3	360, 480, 6	2, 30, 0, 0	960, 1440 100 , 40	
	Durat Return Peri Clima	ion(s) (n .od(s) (ye .te Change	nins) ears) e (%)	15, 30, 60, 1	20, 180, 240, 3	360, 480, 6	2, 30, 0, 0	060, 1440 100 , 40 Water	Surcharged
US/M	Durat Return Peri Clima H	ion(s) (n od(s) (ye te Change Return	nins) ears) e (%) Climate	15, 30, 60, 1 First (X)	20, 180, 240, 1 First (Y)	360, 480, 6 First (Z)	Overflow	000, 1440 100, 40 Water Level	Surcharged Depth
US/M PN Name	Durat Return Peri Clima H Storm	ion(s) (n od(s) (ye te Change Return Period	nins) ears) e (%) Climate Change	15, 30, 60, 1 First (X) Surcharge	20, 180, 240, 1 First (Y) Flood	First (Z) Overflow	Overflow Act.	Water (m)	Surcharged Depth (m)
US/M PN Name 1.000 SWM	Durat Return Peri Clima H Storm H01 30 Winter	ion(s) (n od(s) (ye te Change Return Period	<pre>mins) ears) e (%) Climate Change +40%</pre>	<pre>15, 30, 60, 1 First (X) Surcharge 100/15 Summer</pre>	20, 180, 240, 1 First (Y) Flood 100/30 Winter	First (Z) Overflow	Overflow Act.	Water (m) 6.696	Surcharged Depth (m) 0.446
US/M PN Name 1.000 SWM 1.001 SWM	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter	ion(s) (n .od(s) (ye .te Change Return Period c 100 c 100	nins) ears) e (%) Climate Change +40% +40%	<pre>15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer</pre>	20, 180, 240, 5 First (Y) Flood 100/30 Winter	First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770	Surcharged Depth (m) 0.446 0.477
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM	Durat Return Peri Clima H Hol 30 Winter H02 30 Winter H03 30 Summer	<pre>ion(s) (n od(s) (ye te Change Return Period c 100 c 100 c 100</pre>	<pre>mins) ears) e (%) Climate Change +40% +40% +40%</pre>	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer	20, 180, 240, 5 First (Y) Flood 100/30 Winter	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.670	Surcharged Depth (m) 0.446 0.477 0.556
US/M PN Nama 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX 1	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter	Return Period c 100 c 100 c 100 c 100 c 100	<pre>mins) ears) e (%) Climate Change +40% +40% +40% +40%</pre>	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.614	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.254
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 2.000 QMAX I	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter C01 30 Winter C02 30 Winter	Return Period c 100 c 100 c 100 c 100 c 100 c 100 c 100	<pre>mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%</pre>	<pre>15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer</pre>	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter</pre>	Gammi 360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.614 6.615	Surcharged Depth (m) 0.446 0.477 0.556 0.256 0.256 0.256
US/M PN Nama 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.000 QMAX I 3.000 QMAX I	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C02 30 Winter C03 30 Winter	Return Period c 100 c 100 c 100 c 100 c 100 c 100 c 100 c 100 c 100 c 100	<pre>mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%</pre>	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter</pre>	Gammi 360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.614 6.615 6.605 6.605	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.245
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.000 QMAX I 3.001 QMAX I 3.002 QMAX I	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C01 30 Winter C03 30 Winter C03 30 Winter C03 30 Winter	<pre>ion(s) (n od(s) (ye te Change Return Period 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 100 </pre>	<pre>mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%</pre>	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/30 Winter</pre>	First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.614 6.615 6.605 6.605 6.617	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.245 0.246 0.263
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 3.000 QMAX I 3.000 QMAX I 3.001 QMAX I 3.002 QMAX I 2.002 SWM	Durat Return Peri Clima H S Storm H01 30 Winter H02 30 Winter C01 30 Winter C01 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter	ion(s) (m od(s) (ye te Change Return Period c 100 c	<pre>mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%</pre>	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/30 Winter 100/15 Winter</pre>	First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.614 6.615 6.605 6.605 6.617 6.638	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.245 0.245 0.246 0.263 0.263 0.527
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 3.000 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter C01 30 Winter C01 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter C05 30 Winter H04 30 Summer	ion(s) (n od(s) (ye te Change Return Period c 100 c	<pre>mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%</pre>	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/30 Winter 100/15 Winter 100/30 Winter 100/30 Winter 100/30 Winter</pre>	First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.605 6.605 6.617 6.638 6.644	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.245 0.245 0.246 0.263 0.527 0.593
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 3.000 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter C01 30 Winter C01 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter H05 30 Winter H06 30 Summer	ion(s) (n od(s) (ye ite Change Return Period c 100 c	<pre>mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%</pre>	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer	<pre>20, 180, 240, 2 First (Y) Flood 100/30 Winter 100/30 Winter 100/15 Winter 100/30 Winter 100/30 Winter 100/15 Winter</pre>	Gammi 360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.246 0.263 0.527 0.593 0.628
US/M PN Nama 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 3.000 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 1.005 SWM	H Storm H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C02 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter C05 30 Winter H05 30 Summer H06 30 Summer H07 30 Winter	<pre>ion(s) (n od(s) (ye te Change Return Period 100 </pre>	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/30 Winter 100/15 Winter 100/30 Winter 100/30 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.644 6.613 6.568	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.246 0.263 0.527 0.593 0.628 0.480
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 3.000 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 1.005 SWM 4.000 SWM	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C01 30 Winter C01 30 Winter C03 30 Winter H05 30 Winter H04 30 Summer H04 30 Summer H04 30 Summer H04 30 Summer H04 30 Summer H05 30 Winter H05 30 Winter H06 30 Summer	ion(s) (m od(s) (ye te Change Return Period c 100 c 10	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/30 Winter 100/30 Winter 100/30 Winter 100/30 Winter 100/30 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.644 6.613 6.568 7.483 7.131	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.000 QMAX I 3.001 QMAX I 3.002 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 1.005 SWM 4.000 SWM 4.001 SWM	Durat Return Peri Clima H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C01 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter H05 30 Winter H04 30 Summer H04 30 Summer H04 30 Summer H05 30 Winter H05 30 Winter H05 30 Winter H06 30 Summer H06 30 Summer H07 30 Winter H08 15 Winter H09 15 Winter	<pre>ion(s) (n ion(s) (ye te Change Return Period f 100 f</pre>	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 30/30 Winter 100/15 Summer 30/15 Summer 30/15 Summer	<pre>20, 180, 240, 3 First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.568 7.483 7.131 7.039	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.246 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739
US/M PN Name 1.000 SWM 1.001 SWM 2.000 QMAX I 2.001 QMAX I 3.000 QMAX I 3.001 QMAX I 3.002 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 1.005 SWM 4.000 SWM 4.001 SWM 4.001 SWM	Purat Return Peri Clima Mol 30 Winter H01 30 Winter H02 30 Winter Col 30 Winter Col 30 Winter Col 30 Winter Col 30 Winter Col 30 Winter Col 30 Winter H04 30 Summer H04 30 Summer H04 30 Summer H04 30 Summer H04 30 Summer H05 30 Winter H04 30 Summer H04 30 Summer H05 30 Winter H06 30 Summer H06 30 Summer H07 30 Winter H08 15 Winter H10 15 Winter H11 15 Winter	ion(s) (m od(s) (ye te Change Return Period c 100 c	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 30/30 Winter 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer	<pre>20, 180, 240, 1 First (Y) Flood 100/30 Winter 100/30 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.568 7.483 7.131 7.039 6.792	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.245 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 1.005 SWM 4.000 SWM 4.001 SWM 4.002 SWM 4.003 SWM	H Storm H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter H05 30 Winter H06 30 Summer H06 30 Summer H07 30 Winter H08 15 Winter H09 15 Winter H10 15 Winter H11 15 Winter H13 30 Winter	ion(s) (n od(s) (ye te Change Return Period c 100 c	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 30/30 Winter 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer	<pre>First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.605 6.617 6.638 6.644 6.613 6.644 6.613 6.568 7.483 7.131 7.039 6.792 6.733	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.245 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531 0.778
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 4.001 SWM 4.001 SWM 4.002 SWM 4.003 SWM 4.003 SWM	H Storm H Storm H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter H05 30 Winter H06 30 Summer H06 30 Summer H06 30 Summer H07 30 Winter H08 15 Winter H09 15 Winter H10 15 Winter H11 30 Winter H14 30 Winter	ion(s) (n od(s) (ye te Change Return Period c 100 c	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	<pre>15, 30, 60, 1 First (X) Surcharge 100/15 Summer 30/15 Summer</pre>	<pre>First (Y) Flood 100/30 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.605 6.617 6.638 6.644 6.613 6.568 7.483 7.131 7.039 6.792 6.733 6.607	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.245 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531 0.778 0.454
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 3.001 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 4.000 SWM 4.001 SWM 4.001 SWM 4.002 SWM 4.003 SWM 4.003 SWM	H A A A A A A A A A A A A A	<pre>ion(s) (n ion(s) (r i</pre>	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	<pre>15, 30, 60, 1: First (X) Surcharge 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer</pre>	<pre>First (Y) Flood 100/30 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.615 6.656 6.710 6.638 6.644 6.656 6.710 6.656 6.710 6.656 6.710 6.656 6.710 6.656 6.710 6.656 6.710 6.656 6.710 6.657 6.558 6.558 6.558 6.558 6.558 6.558 6.558 6.558 6.556 6.577 6.558 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566 6.5566	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531 0.778 0.454 0.454
US/M PN Nama 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.000 QMAX I 3.001 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 4.001 SWM 4.001 SWM 4.001 SWM 4.002 SWM 4.003 SWM 4.003 SWM 4.005 R 4.006 SWM	H A A A A A A A A A A A A A	<pre>ion(s) (n ion(s) (r i</pre>	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	<pre>15, 30, 60, 1: First (X) Surcharge 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer 100/15 Summer</pre>	<pre>20, 180, 240, 3 First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.568 7.483 7.131 7.039 6.792 6.733 6.607 6.586 6.586 6.568	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531 0.778 0.454 0.565 0.547
US/M PN Nama 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.000 QMAX I 3.001 QMAX I 3.002 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 4.001 SWM 4.001 SWM 4.001 SWM 4.001 SWM 4.002 SWM 4.003 SWM 4.005 R 4.006 SWM 1.006 SWM 1.006 SWM	H Storm H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C02 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter H05 30 Winter H04 30 Summer H04 30 Summer H04 30 Summer H05 30 Winter H05 30 Winter H07 30 Winter H10 15 Winter H11 15 Winter H13 30 Winter H14 30 Winter H15 30 Winter H15 30 Winter H16 30 Winter	<pre>ion(s) (n od(s) (ye te Change Return Period 100</pre>	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer 100	<pre>20, 180, 240, 3 First (Y) Flood 100/30 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.644 6.613 6.568 7.483 7.131 7.039 6.792 6.733 6.607 6.586 6.568 6.568 6.539 6.349	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531 0.778 0.531 0.778 0.554 0.547
US/M PN Nama 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 3.002 QMAX I 3.002 QMAX I 3.002 QMAX I 3.002 SWM 1.003 SWM 1.003 SWM 4.000 SWM 4.000 SWM 4.001 SWM 4.001 SWM 4.003 SWM 4.003 SWM 4.004 SWM 1.005 R 4.006 SWM 1.006 SWM 1.006 SWM 1.007 SWM	H Storm H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter C05 30 Winter H04 30 Summer H05 30 Winter H07 30 Winter H07 30 Winter H10 15 Winter H11 15 Winter H13 30 Winter H13 30 Winter H14 30 Winter H15 30 Winter H15 30 Winter H16 30 Winter H17 30 Winter H18 30 Winter	<pre>ion(s) (n ion(s) (n ion(s) (ye ite Change Return Period f 100 f 1</pre>	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer	<pre>20, 180, 240, 3 First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.568 7.483 7.131 7.039 6.792 6.733 6.607 6.586 6.568 6.568 6.568 6.549 6.220	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531 0.778 0.454 0.565 0.547 0.534 0.455 0.405
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.000 QMAX I 3.001 QMAX I 3.002 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 4.000 SWM 4.001 SWM 4.001 SWM 4.001 SWM 4.002 SWM 4.003 SWM 4.004 SWM 1.005 R 4.006 SWM 1.006 SWM 1.007 SWM 1.008 SWM 1.008 SWM 1.009 SWM	Return Peri Clima Return Peri Clima H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C02 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter H04 30 Summer H05 30 Winter H05 30 Winter H06 30 Summer H07 30 Winter H08 15 Winter H09 15 Winter H10 15 Winter H11 15 Winter H11 30 Winter H13 30 Winter H14 30 Winter H14 30 Winter H15 30 Winter H15 30 Winter H16 30 Winter H17 30 Winter H18 30 Winter	<pre>ion(s) (n ion(s) (n ion(s) (ye ite Change Return Period f 100 f 1</pre>	mins) ears) e (%) Climate change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer	<pre>20, 180, 240, 3 First (Y) Flood 100/30 Winter 100/30 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.617 6.638 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.658 6.644 6.568 6.586 6.586 6.568 6.568 6.509 6.349 6.220 6.059	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.256 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531 0.778 0.454 0.565 0.547 0.534 0.455 0.405 0.324
US/M PN Name 1.000 SWM 1.001 SWM 1.002 SWM 2.000 QMAX I 2.001 QMAX I 3.001 QMAX I 3.001 QMAX I 3.002 QMAX I 3.002 QMAX I 2.002 SWM 1.003 SWM 1.004 SWM 1.005 SWM 4.001 SWM 4.001 SWM 4.001 SWM 4.001 SWM 4.002 SWM 4.003 SWM 4.004 SWM 1.006 SWM 1.006 SWM 1.006 SWM 1.008 SWM 1.009 SWM 1.009 SWM	Return Peri Clima Return Peri Clima H Storm H01 30 Winter H02 30 Winter H03 30 Summer C01 30 Winter C02 30 Winter C03 30 Winter C03 30 Winter C04 30 Winter H05 30 Winter H06 30 Summer H06 30 Summer H07 30 Winter H08 15 Winter H09 15 Winter H09 15 Winter H10 15 Winter H11 15 Winter H13 30 Winter H13 30 Winter H14 30 Winter H14 30 Winter H15 30 Winter H15 30 Winter H16 30 Winter H17 30 Winter H18 30 Winter H19 30 Winter	<pre>ion(s) (n ion(s) (n cod(s) (ye te Change Return Period f 100 f 10</pre>	mins) ears) e (%) Climate Change +40% +40% +40% +40% +40% +40% +40% +40%	15, 30, 60, 1 First (X) Surcharge 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer	<pre>20, 180, 240, 3 First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	360, 480, 6 First (Z) Overflow	Overflow Act.	Water Level (m) 6.696 6.770 6.696 6.770 6.614 6.615 6.605 6.605 6.617 6.638 6.644 6.613 6.644 6.613 6.644 6.613 6.644 6.613 6.568 7.483 7.131 7.039 6.792 6.733 6.607 6.586 6.568 6.568 6.568 6.569 6.349 6.220 6.059 5.913	Surcharged Depth (m) 0.446 0.477 0.556 0.254 0.245 0.245 0.246 0.263 0.527 0.593 0.628 0.480 1.083 0.746 0.739 0.531 0.778 0.454 0.565 0.547 0.534 0.455 0.405 0.324 0.236

BuroHappold Ltd		Page 9
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	See 1
Bath	North East (NE) Network	Micco
Date 17/12/2020 16:49	Designed by Matt Redfern	Dcainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Drainage
Innovyze	Network 2019.1	•

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW NE

PN	US/MH Name	Flooded Volume (m ³)	Flow / Cap.	Overflow (1/s)	Pipe Flow (l/s)	Status	Level Exceeded
			-				
1.000	SWMH01	9.395	0.82		44.5	FLOOD	1
1.001	SWMH02	0.000	0.90		138.5	FLOOD RISK	
1.002	SWMH03	0.000	1.22		204.9	FLOOD RISK	
2.000	QMAX IC01	11.386	0.29		46.0	FLOOD	4
2.001	QMAX IC02	3.432	0.22		39.7	FLOOD	1
3.000	QMAX IC03	0.000	0.03		4.8	FLOOD RISK*	
3.001	QMAX IC04	29.098	0.25		44.8	FLOOD	5
3.002	QMAX IC05	6.072	0.48		58.2	FLOOD	1
2.002	SWMH05	27.835	0.64		205.8	FLOOD	5
1.003	SWMH04	0.000	1.43		364.2	FLOOD RISK	
1.004	SWMH06	0.000	1.73		400.6	FLOOD RISK	
1.005	SWMH07	0.000	1.07		415.3	SURCHARGED	
4.000	SWMH08	0.000	3.90		406.2	FLOOD RISK	
4.001	SWMH09	0.000	1.36		381.8	FLOOD RISK	
5.000	SWMH10	0.389	1.73		358.1	FLOOD	1
4.002	SWMH11	0.000	3.49		723.7	SURCHARGED	
4.003	SWMH13	0.000	1.86		616.5	SURCHARGED	
4.004	SWMH14	15.053	2.25		613.8	FLOOD	3
4.005	RWHT	0.000	1.52		429.3	FLOOD RISK	
4.006	SWMH15	0.000	1.47		417.3	FLOOD RISK	
1.006	SWMH16	0.000	1.79		722.1	SURCHARGED	
1.007	SWMH17	0.000	1.74		673.5	SURCHARGED	
1.008	SWMH18	0.000	1.65		641.0	SURCHARGED	
1.009	SWMH19	0.000	1.68		619.8	SURCHARGED	
1.010	SWMH20	0.000	2.11		611.0	SURCHARGED	
1.011	SWMH21	0.000	2.17		606.8	SURCHARGED	

Some temporary flooding for 1 in 100yr (+40% climate change) event (up to 30 mins duration). Total temporary flood volume 112 cu.m.
BuroHappold Ltd		Page 1
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	the set
Bath	South (S) Network	Micro
Date 17/12/2020 16:50	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for SW S

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and WalesReturn Period (years)5PIMP (%)100M5-60 (mm)18.800Add Flow / Climate Change (%)0Ratio R0.400Minimum Backdrop Height (m)0.200Maximum Rainfall (mm/hr)250Maximum Backdrop Height (m)1.500Maximum Time of Concentration (mins)30Min Design Depth for Optimisation (m)0.600Foul Sewage (l/s/ha)0.000Min Vel for Auto Design only (m/s)1.00Volumetric Runoff Coeff.0.750Min Slope for Optimisation (1:X)500

Designed with Level Soffits

Network Design Table for SW S

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Ba Flow	ase (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.000 1.001 1.002 1.003	15.093 25.312 14.988 36.077	0.101 0.169 0.075 0.120	150.0 149.8 200.0 300.0	0.000 0.000 0.000 0.045	5.00 0.00 0.00 0.00		0.0 0.0 0.0 0.0	0.600 0.600 0.600 0.600		150 150 300 300	Pipe/Conduit Pipe/Conduit Pipe/Conduit Pipe/Conduit	t t t
2.000 2.001 2.002	38.176 68.115 69.615	0.191 0.227 0.232	200.0 300.0 300.0	0.048 0.091 0.000	5.00 0.00 0.00		0.0 0.0 0.0	0.600 0.600 0.600	0 0 0	225 300 300	Pipe/Conduit Pipe/Conduit Pipe/Conduit	0 0 0
1.004	7.725	0.026	300.0	0.000	0.00		0.0	0.600	0	300	Pipe/Conduit	ď

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (1/s)	Vel (m/s)	Cap (1/s)	Flow (l/s)
1.000	83.26	5.31	5.941	0.000	0.0	0.0	0.0	0.82	14.5	0.0
1.001	79.93	5.82	5.840	0.000	0.0	0.0	0.0	0.82	14.5	0.0
1.002	78.57	6.05	5.521	0.000	0.0	0.0	0.0	1.11	78.3	0.0
1.003	74.84	6.71	5.446	0.045	0.0	0.0	0.0	0.90	63.8	9.1
2.000	80.75	5.69	6.051	0.048	0.0	0.0	0.0	0.92	36.6	10.4
2.001	73.62	6.95	5.785	0.139	0.0	0.0	0.0	0.90	63.8	27.7
2.002	67.69	8.23	5.558	0.139	0.0	0.0	0.0	0.90	63.8	27.7
1.004	67.09	8.38	5.326	0.184	0.0	0.0	0.0	0.90	63.8	33.4

Surcharged Outfall Details for SW S

Outfall Pipe Number	Outfall Name	c.	Level (m)	ı.	Level (m)	ı.	Min Level (m)	D,L (mm)	W (mm)
1.004			6.600		5.300		0.000	0	0

Datum (m) 0.000 Offset (mins) 0

BuroHappold Ltd		Page 2
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	the second
Bath	South (S) Network	Micco
Date 17/12/2020 16:50	Designed by Matt Redfern	Desinado
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

Surcharged Outfall Details for SW S

Time Depth (mins) (m)

1440 5.450

BuroHappold Ltd		Page 3
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	
Bath	South (S) Network	Micco
Date 17/12/2020 16:50	Designed by Matt Redfer	
Eilo SN Notworks 201217 MDY	Chooked by Nick Hell	Urainage
The SW_Networks_201217.MDA	Network 2010 1	
Innovyze	Network 2019.1	
<u>2 year Return Period Summary o</u>	Critical Results by Maximu Simulation Criteria	um Level (Rank 1) for SW S
Areal Reduction F	ctor 1.000 Additional Flow - %	of Total Flow 0.000
Hot Start (1	ins) 0 MADD Factor * 1	.0m³/ha Storage 2.000
Hot Start Level	(mm) 0 Inle	t Coefficcient 0.800
Manhole Headloss Coeff (Glo	bal) 0.500 Flow per Person per D	oay (l/per/day) 0.000
Four Sewage per nectare	1/5) 0.000	
Number of Input Hydrographs 0 Number of Online Controls 0 Nu	Number of Offline Controls 0 Numk ber of Storage Structures 0 Numk	per of Time/Area Diagrams 0 Der of Real Time Controls 0
	Synthetic Rainfall Details	
Rainfall Model	FEH Di	ata Type Catchment
FEH Rainfall Version	2013 Cv	(Summer) 0.750
Site Location GB	333750 392800 SJ 33750 92800 Cv	(Winter) 0.840
Margin for Flood Ris	k Warning (mm)	300.0
Alle	DTS Status	OFF
	DVD Status	ON
	Inertia Status	OFF
Profile(s) Duration(s) (mins)	15, 30, 60, 120, 180, 240, 360,	Summer and Winter 480, 600, 720, 960,
Return Period(s) (vears)		2, 30, 100
Climate Change (%)		0, 0, 40
IIG/ME Peturn Clima	to First (V) First (V) First	Water Surcharged
PN Name Storm Period Chan	e Surcharge Flood Overf	Tow Act. (m) (m)
		,,
1.000 SWMH126 120 Winter 2 +	0%	5.941 -0.150
1.001 SWMH127 120 Winter 2 +	0%	5.840 -0.150
1.002 SWMH128 120 Winter 2 4	08 Ne	5.521 -0.300 5.510 -0.227
2.000 SWMH123 15 Winter 2 +	0% 0% 100/15 Summer	6.121 - 0.155
2.001 SWMH124 15 Winter 2 +	0% 100/15 Summer	5.899 -0.186
2.002 SWMH125 15 Winter 2 +	0% 100/15 Summer	5.668 -0.191
1.004 SWMH130 15 Winter 2 +	0% 100/15 Summer	5.465 -0.161
	oded Pine	
	lume Flow / Overflow Flow	Level
PN Name (n ³) Cap. (1/s) (1/s) Statu	15 Exceeded
1.000 SWMH126	.000 0.00 0.0 0	JK

1.000	SWMH126	0.000	0.00	0.0	OK
1.001	SWMH127	0.000	0.00	0.0	OK
1.002	SWMH128	0.000	0.00	0.0	OK
1.003	SWMH129	0.000	0.10	5.7	OK
2.000	SWMH123	0.000	0.20	7.1	OK
2.001	SWMH124	0.000	0.29	17.7	OK
2.002	SWMH125	0.000	0.27	16.7	OK
1.004	SWMH130	0.000	0.44	20.7	OK

BuroHappold Ltd		Page 4
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calculations	
Bath	South (S) Network	Micco
Date 17/12/2020 16:50	Designed by Matt Redfern	
File SW Networks 201217 MDX	Checked by Nick Hall	urainage
Innovyze	Network 2019.1	
<u>30 year Return Period Summary of (</u>	Critical Results by Maximum Level (Rank 1	<u>l) for SW S</u>
Juneal Deduction Fract	Simulation Criteria	0.0
Areal Reduction Factor Hot Start (min	s) 0 MADD Factor * 10m³/ba Storage 2.0	100
Hot Start Level (mr	m) 0 Inlet Coefficient 0.8	00
Manhole Headloss Coeff (Globa	l) 0.500 Flow per Person per Day (l/per/day) 0.0	00
Foul Sewage per hectare (1/s	5) 0.000	
Number of Input Hydrographs 0 Num	ber of Offline Controls 0 Number of Time/Area Di	agrams 0
Number of Online Controls 0 Number	r of Storage Structures 0 Number of Real Time Co	ontrols 0
	thatis Deinfall Datails	
Rainfall Model	FEH Data Type Catchment	
FEH Rainfall Version	2013 Cv (Summer) 0.750	
Site Location GB 333	750 392800 SJ 33750 92800 Cv (Winter) 0.840	
Margin for Elood Dick N	(mm) 200 0	
Margin for Flood Risk w Analys	sis Timestep 2.5 Second Increment (Extended)	
	DTS Status OFF	
	DVD Status ON	
Ine	ertia Status OFF	
Profile(s)	Summer and Wint	er
Duration(s) (mins) 1	5, 30, 60, 120, 180, 240, 360, 480, 600, 720, 96	0,
Return Period(s) (years)	2.30.1	40
Climate Change (%)	0, 0,	40
	11-1-	ar Surchargod
US/MH Return Climate	First (X) First (Y) First (Z) Overflow Lev	el Depth
PN Name Storm Period Change	Surcharge Flood Overflow Act. (m) (m)
1 000 SHIMHING 120 Mintor 20 .00	F 0	41 _0 1E0
1.001 SWMH127 120 Winter 30 +0%	5.8	40 -0.150
1.002 SWMH128 15 Winter 30 +0%	5.5	62 -0.259
1.003 SWMH129 15 Winter 30 +0%	5.5	64 -0.183
2.000 SWMH123 15 Winter 30 +0%	100/15 Summer 6.1	55 -0.121
2.001 SWMH124 15 Winter 30 +0%	100/15 Summer 5.9	78 -0.107
1.004 SWMH130 15 Winter 30 +0%	100/15 Summer 5.5	55 -0.071
Flood	ed Pipe	
US/MH VOLUM DN Name (m ³)	Cap. (]/s) (]/s) Status Exceeded	

1.000	SWMH126	0.000	0.00	0.0	OK	
1.001	SWMH127	0.000	0.00	0.0	OK	
1.002	SWMH128	0.000	0.00	0.2	OK	
1.003	SWMH129	0.000	0.24	14.2	OK	
2.000	SWMH123	0.000	0.42	14.6	OK	
2.001	SWMH124	0.000	0.67	40.9	OK	
2.002	SWMH125	0.000	0.62	37.7	OK	
1.004	SWMH130	0.000	0.94	44.2	OK	

BuroHappold Ltd			Page 5
Camden Mill	The Peoples Proj	ect	
Lower Bristol Road	SW Calculations		Sec. 1
Bath	South (S) Networ	k	Micco
Date 17/12/2020 16:50	Designed by Matt	Redfern	MILIU
File SW Networks 201217 MDX	Checked by Nick	uall	Drainage
	Notwork 2010 1	11411	
IIIIOVYZE	Network 2019.1		
<u>100 year Return Period Summary</u>	of Critical Results b Simulation Criteria	<u>y Maximum Level (Rank :</u>	1) for <u>SW S</u>
Areal Reduction H Hot Start Hot Start Leve Manhole Headloss Coeff (G	actor 1.000 Additional mins) 0 MADD Fa (mm) 0 obal) 0.500 Flow per Pers	Flow - % of Total Flow 0.00 .ctor * 10m³/ha Storage 2.00 Inlet Coefficcient 0.8 son per Day (1/per/day) 0.0	00 00 00 00
Foul Sewage per hectare	(l/s) 0.000		
Number of Input Hydrographs 0 Number of Online Controls 0 N	Number of Offline Controls mber of Storage Structure	s 0 Number of Time/Area Dia s 0 Number of Real Time Cor	agrams O ntrols O
Rainfall Model		FEH Data Type Catchment	
FEH Rainfall Version	2	2013 Cv (Summer) 0.750	
Site Location GE	333750 392800 SJ 33750 92	2800 Cv (Winter) 0.840	
Margin for Flood Pi	k Warning (mm)	300 0	
Ar.	alysis Timestep 2.5 Second	d Increment (Extended)	
	DTS Status	OFF	
	DVD Status	ON	
	Inertia Status	OFF	
Profile(s)	15 30 60 120 180 2	Summer and Winte	er
	15, 50, 00, 120, 100, 2	144	10
Return Period(s) (years)		2, 30, 10	00
Climate Change (%)		0, 0, 4	10
		Wate	r Surcharged
US/MH Return Clim	te First (X) First (X	Y) First (Z) Overflow Leve	el Depth
PN Name Storm Period Char	ge Surcharge Flood	Overflow Act. (m)	(m)
1.000 SWMH126 120 Winter 100 +	.0%	5.9	41 -0.150
1.001 SWMH127 120 Winter 100 +	.0%	5.84	40 -0.150
1.002 SWMH128 15 Winter 100 +	.0%	5.69	92 -0.129
1.003 SWMH129 15 Winter 100 +	.U%	5.69	
2.000 SWMH123 15 WINter 100 + 2.001 SWMH124 15 Winter 100 +	0% 100/15 Summer	6.3 6.2	22 0.040 11 0.126
2.002 SWMH125 15 Winter 100 +	0% 100/15 Summer	5.9	13 0.055
1.004 SWMH130 15 Winter 100 +	0% 100/15 Summer	5.66	68 0.042
Floo	ded Pipe		
US/MH Vol	me Flow / Overflow Flow	Level	
PN Name (m) Cap. (1/s) (1/s)	Status Exceeded	
1.000 SWMH126 0	0.00 0.00) ОК	
1.001 SWMH127 0	0.00 0.00 0.0) OK	

1.001	SWMH127	0.000	0.00	0.0	OK
1.002	SWMH128	0.000	0.01	0.8	OK
1.003	SWMH129	0.000	0.42	24.8	OK
2.000	SWMH123	0.000	0.76	26.3	SURCHARGED
2.001	SWMH124	0.000	1.18	71.9	SURCHARGED
2.002	SWMH125	0.000	0.98	60.1	SURCHARGED
1.004	SWMH130	0.000	1.52	71.9	SURCHARGED

BuroHappold Ltd		Page 1
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	Le la
Bath	Central (C) Network	Micco
Date 17/12/2020 17:03	Designed by Matt Redfern	Dcainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for SW C

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and WalesReturn Period (years)5PIMP (%)100M5-60 (mm)18.800Add Flow / Climate Change (%)0Ratio R0.400Minimum Backdrop Height (m)0.200Maximum Rainfall (mm/hr)250Maximum Backdrop Height (m)1.500Maximum Time of Concentration (mins)30Min Design Depth for Optimisation (m)0.600Foul Sewage (1/s/ha)0.000Min Vel for Auto Design only (m/s)1.00Volumetric Runoff Coeff.0.750Min Slope for Optimisation (1:X)500

Designed with Level Soffits

Network Design Table for SW C

PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)		Design
1 0 0 0	00 212	0 1 5 0	105 5	0 000	F 00	0.0	0 600		050		
1.000	29.313	0.158	182.2	0.000	5.00	0.0	0.600	0	250	Pipe/Conduit	Ū.
1.001	60.296	0.268	225.0	0.000	0.00	0.0	0.600	0	300	Pipe/Conduit	.
1.002	3.335	0.015	222.3	0.000	0.00	0.0	0.600	0	300	Pipe/Conduit	ď
1.003	5.809	0.026	223.4	0.000	0.00	0.0	0.600	0	300	Pipe/Conduit	ď
1.004	4.198	0.019	220.9	0.000	0.00	0.0	0.600	0	300	Pipe/Conduit	ð
1.005	73.462	0.326	225.3	0.000	0.00	0.0	0.600	0	300	Pipe/Conduit	ď
1.006	57.236	0.254	225.3	0.000	0.00	0.0	0.600	0	300	Pipe/Conduit	- A
											-
2.000	53.979	0.270	199.9	0.000	5.00	0.0	0.600	0	225	Pipe/Conduit	<u>a</u>
1.007	25.508	0.073	349.4	0.000	0.00	0.0	0.600	0	400	Pipe/Conduit	<u>A</u>
1.008	15.369	0.044	349.3	0.000	0.00	0.0	0.600	0	400	Pipe/Conduit	Ă
1.009	35.220	0.101	348.7	0.000	0.00	0.0	0.600	0	400	Pipe/Conduit	Ă
3.000	12.814	0.050	256.3	0.000	5.00	0.0	0.600	0	300	Pipe/Conduit	A
3.001	6.831	0.120	56.9	0.785	0.00	0.0	0.600	0	500	Pipe/Conduit	Ă
3.002	33.361	0.480	69.5	0.054	0.00	0.0	0.600	0	500	Pipe/Conduit	Ā
										-	

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(mm/hr)	(mins)	(m)	(ha)	Flow (l/s)	(l/s)	(l/s)	(m/s)	(l/s)	(l/s)
1 000	00 10	E 10	6 625	0 000	0 0	0 0	0 0	1 0 2	E0 2	0 0
1.000	02.12	5.40	0.035	0.000	0.0	0.0	0.0	1.02	50.5	0.0
1.001	/6.32	6.44	6.4//	0.000	0.0	0.0	0.0	1.04	/3.8	0.0
1.002	76.03	6.49	6.209	0.000	0.0	0.0	0.0	1.05	74.2	0.0
1.003	75.53	6.58	6.194	0.000	0.0	0.0	0.0	1.05	74.1	0.0
1.004	75.17	6.65	6.168	0.000	0.0	0.0	0.0	1.05	74.5	0.0
1.005	69.45	7.83	6.149	0.000	0.0	0.0	0.0	1.04	73.7	0.0
1.006	65.64	8.74	5.823	0.000	0.0	0.0	0.0	1.04	73.7	0.0
2.000	78.99	5.98	6.600	0.000	0.0	0.0	0.0	0.92	36.6	0.0
1.007	64.04	9.16	5.468	0.000	0.0	0.0	0.0	1.00	126.2	0.0
1.008	63.12	9.42	5.395	0.000	0.0	0.0	0.0	1.00	126.2	0.0
1.009	61.11	10.00	5.351	0.000	0.0	0.0	0.0	1.00	126.3	0.0
3.000	83.86	5.22	6.450	0.000	0.0	0.0	0.0	0.98	69.1	0.0
3.001	83.59	5.26	5.800	0.785	0.0	0.0	0.0	2.88	566.2	177.7
3.002	82.16	5.47	5.680	0.839	0.0	0.0	0.0	2.61	512.2	186.6
				©1982-	2019 Innov	vyze				

BuroHappold Ltd		Page 2
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	The second
Bath	Central (C) Network	Micro
Date 17/12/2020 17:03	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

Network Design Table for SW C

PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)		Design
4.000	12.588	0.100	125.9	0.000	5.00	0.0	0.600	0	300	Pipe/Conduit	A
4.001	6.657	0.030	221.9	0.723	0.00	0.0	0.600	0	500	Pipe/Conduit	Ă
4.002	16.016	0.167	95.9	0.000	0.00	0.0	0.600	0	500	Pipe/Conduit	ŏ
	0.0 4.01	0 506							0.05	-1 (2 1 1)	_
5.000	20.431	0.586	34.9	0.000	5.00	0.0	0.600	0	225	Pipe/Conduit	0
4.003	34.848	0.361	96.5	0.101	0.00	0.0	0.600	0	500	Pipe/Conduit	A
										-	
1.010	18.058	0.025	722.3	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	8
6.000	69.072	0.295	234.1	0.173	5.00	0.0	0.600	0	300	Pipe/Conduit	0
7 000	10 662	0 172	22E 0	0 000	E 00	0 0	0 600	0	200	Ding (Conduit	
7.000	40.002	0.175	235.0	0.090	5.00	0.0	0.000	0	300	Pipe/conduit	•
1.011	3.696	0.005	739.2	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	A
1.012	5.613	0.007	801.9	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	é
1.013	8.335	0.013	641.2	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	ê

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (1/s)	Vel (m/s)	Cap (1/s)	Flow (l/s)
4.000	84.34	5.15	6.100	0.000	0.0	0.0	0.0	1.40	99.0	0.0
4.001	83.81	5.23	5.800	0.723	0.0	0.0	0.0	1.45	285.5	164.1
4.002	82.99	5.35	5.770	0.723	0.0	0.0	0.0	2.22	435.6	164.1
5.000	84.32	5.15	6.422	0.000	0.0	0.0	0.0	2.22	88.4	0.0
4.003	81.27	5.61	5.603	0.824	0.0	0.0	0.0	2.21	434.2	181.3
1.010	60.17	10.29	4.950	1.662	0.0	0.0	0.0	1.03	456.6	270.8
6.000	78.11	6.13	5.670	0.173	0.0	0.0	0.0	1.02	72.3	36.7
7.000	80.92	5.66	5.548	0.090	0.0	0.0	0.0	1.02	72.2	19.8
1.011	59.97	10.35	4.925	1.926	0.0	0.0	0.0	1.02	451.3	312.8
1.012	59.67	10.45	4.920	1.926	0.0	0.0	0.0	0.98	433.1	312.8
1.013	59.28	10.58	4.913	1.926	0.0	0.0	0.0	1.10	484.9	312.8

Surcharged Outfall Details for SW C

Outfall Pipe Number	Outfall Name	c.	Level (m)	Ι.	Level (m)	ı.	Min Level (m)	D,L (mm)	W (mm)
1.013	Channel East 1		6.700		4.900		4.600	2100	0

Datum (m) 0.000 Offset (mins) 0

Time Depth (mins) (m)

1440 5.530

BuroHa	ppold I	Ltd								Page	e 3
Camden	Mill					The Peop	les Project				01
Lower 1	Bristol	Roa	ld			SW Calcs	Surgharged	d Outfalls			
Bath						Central	(C) Network	5		M	icro
Date 1	7/12/20)20 1	7:03			Designed	by Matt Re	edfern		ň	rainano
File S	W_Netwo	orks_	201217	7.MDX		Checked	by Nick Hal	.1			
Innovy	ze					Network	2019.1				
2 3	year Re	<u>eturn</u>	Peric	od Summ	ary of	Critical Re	sults by Ma	ximum Leve	el (Rank	<u>1) fo</u>	<u>c SW C</u>
	Ν	1anhol Foul	Area Ho Le Head	Al Reduc Hot S Dt Start Loss Coe	tion Fac tart (mi Level (ff (Glob	tor 1.000 Ad ns) 0 mm) 0 al) 0.500 Flow	dditional Flo MADD Facto v per Person	w - % of Tot r * 10m³/ha Inlet Coeff per Day (1/p	al Flow 0 Storage 2 iecient 0 er/day) 0	.000 .000 .800 .000	
	Number Numbe	of In er of	online	lrograph Control	s 0 Nu s 0 Numb	mber of Offlir er of Storage	ne Controls 0 Structures 0	Number of T Number of R	'ime/Area 1 eal Time (Diagram	s 0 s 0
					S	nthetic Rainf	all Details				
		FEH	Rain Rainfa Sit	fall Moo ll Versi e Locati	del ion ion GB 33	33750 392800 s	FEF 2013 J 33750 92800	I Data Type Cv (Summer) Cv (Winter)	e Catchmen 0.75 0.84	t 0 0	
			Margin	for Flo	ood Risk	Warning (mm)			300.0		
					Analy	ysis Timestep	2.5 Second Ir	ncrement (Ext	ended)		
						DTS Status DVD Status			OFF		
					II	nertia Status			OFF		
				Profil	le(s)			Summ	er and Wir	iter	
			Durati	on(s) (n	nins)	15, 30, 60, 12	20, 180, 240,	360, 480, 6	00, 720, 9	60,	
	1	Returi	n Perio	d(s) (ve	ears)				2.30.	100	
	-		Climat	e Change	e (응)				0, 0,	40	
										Water	Surcharged
PN	US/MH Name	SI	torm	Return Period	Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	Overflow Act.	Level (m)	Depth (m)
1.000	SWIC101	120	Winter	2	+0%					6.635	-0.250
1.001	SWIC102	120	Winter	2	+0% +0%					6.477	-0.300
1.002	Bend	120	Winter	2	+0%					6.194	-0.300
1.004	Bend	120	Winter	2	+0%					6.168	-0.300
1.005	SWIC104	120	Winter	2	+0%					6.149	-0.300
1.006	SWIC105	120 120	Winter	2	+0% +0%	100/15 Summer				5.823	-0.300
1.007	SWIC100 SWIC107	120	Winter	2	+0%	100/15 Summer				5.468	-0.400
1.008	SWMH109	15	Winter	2	+0%	100/15 Summer				5.456	-0.339
1.009 S	WMH109b	15	Winter	2	+0%	30/15 Winter				5.477	-0.274
3.000	SWMH110	120	Winter	2	+0% +0%	100/15 Summer				6.450	-0.300
3.001	SWMH113	15	Winter	2	+0%	100/15 Summer				5.842	-0.338
4.000	SWMH114	120	Winter	2	+0%	100/15 Summer				6.100	-0.300
4.001	SWMH115	15	Winter	2	+0%	100/15 Summer				6.054	-0.246
4.002	SWMH116	15 120	Winter Winter	2	+0왕 ㅗ이의	100/15 Winter				5.959 6 400	-0.311 _0 225
4.003	JNC	15	Winter	2	+0%	TOO'TO WINCEL				5.767	-0.336
1.010	SWMH117	15	Winter	2	+0%	30/15 Summer				5.480	-0.220
6.000	SWMH118	15	Winter	2	+0%	100/15 Summer	100/15 Winte	er		5.799	-0.171
1 011	SWMH119	1440	Winter	2	+0% +0%	100/15 Summer				5.640	-0.208
1					T115					<u> 1 4 4 6</u>	
1.012	SWMH121	1440	Summer	2	+0%	30/15 Summer				5.444	-0.231

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BuroHappold Ltd		Page 4
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	and the
Bath	Central (C) Network	Micro
Date 17/12/2020 17:03	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	•

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW C

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	SWIC101	0.000	0.00		0.0	OK	
1.001	SWIC102	0.000	0.00		0.0	OK	
1.002	SWIC103	0.000	0.00		0.0	OK	
1.003	Bend	0.000	0.00		0.0	OK*	
1.004	Bend	0.000	0.00		0.0	OK*	
1.005	SWIC104	0.000	0.00		0.0	OK	
1.006	SWIC105	0.000	0.00		0.0	OK	
2.000	SWIC106	0.000	0.00		0.0	OK	
1.007	SWIC107	0.000	0.00		0.0	OK	
1.008	SWMH109	0.000	0.01		1.2	OK	
1.009	SWMH109b	0.000	0.02		2.7	OK	
3.000	SWMH110	0.000	0.00		0.0	OK	
3.001	SWMH112	0.000	0.39		94.6	OK	
3.002	SWMH113	0.000	0.23		100.8	OK	
4.000	SWMH114	0.000	0.00		0.0	OK	
4.001	SWMH115	0.000	0.51		87.0	OK	
4.002	SWMH116	0.000	0.31		86.9	OK	
5.000	SWRE01	0.000	0.00		0.0	OK	
4.003	JNC	0.000	0.24		98.3	OK*	
1.010	SWMH117	0.000	0.87		193.1	OK	
6.000	SWMH118	0.000	0.38		26.1	OK	1
7.000	SWMH119	0.000	0.21		13.8	OK	
1.011	SWMH120	0.000	0.21		75.9	OK	
1.012	SWMH121	0.000	0.24		80.7	OK	
1.013	SWMH122	0.000	0.30		82.2	OK	

BuroHa	appold L	td							Pag	e 5
Camder	n Mill				The Peop	les Project				
Lower	Bristol	Road			SW Calcs	Surgharged	Outfalls			
Bath					Central	(C) Network			N	licco
Date 1	17/12/20	20 17:03			Designed	by Matt Red	lfern			cainage
File S	SW_Netwo	rks_20121	7.MDX		Checked	by Nick Hall				lamaye
Innovy	yze				Network	2019.1				
30	year Re	eturn Per	iod Sum	mary of	Critical Re	esults by Ma	kimum Lev	el (Rank	:1) fc	or SW C
	M Number Numbe	Ard anhole Head Foul Seway of Input Hy r of Online	eal Reduc Hot Star Hot Star dloss Coo ge per ho vdrograph e Control	ction Fac Start (mi t Level (eff (Glok ectare (1 ns 0 Num Ls 0 Num <u>S</u>	Simulation (tor 1.000 A .ns) 0 mm) 0 bal) 0.500 Flor ./s) 0.000 umber of Offlin per of Storage	<u>Criteria</u> dditional Flow MADD Factor w per Person p ne Controls 0 Structures 0 <u>all Details</u>	- % of Tot * 10m³/ha Inlet Coeff er Day (1/p Number of T Number of F	al Flow 0 Storage 2 iecient 0 er/day) 0 Cime/Area Real Time	.000 .000 .800 .000 Diagram Control	us 0 s 0
		Rai FEH Rainf	nfall Mc all Vers	del ion	22550 200000 0	FEH 2013	Data Type Cv (Summer	e Catchmen	nt 50	
		Sı	te Locat	ion GB 3	33750 392800 S	J 33750 92800	Cv (Winter) 0.84	40	
		Margi	n for Fl.	ood Risk. Anal I	Warning (mm) ysis Timestep DTS Status DVD Status nertia Status	2.5 Second Inc	rement (Ext	300.0 cended) OFF ON OFF		
	F	Durat Return Peri Clima	Profi ion(s) (od(s) (y te Chang	le(s) mins) ears) e (%)	15, 30, 60, 1:	20, 180, 240, 3	Summ 360, 480, 6	er and Wi: 00, 720, 2, 30, 0, 0	nter 960, 1440 100 , 40	
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)
1.000	SWIC101	120 Winter	30	+0%					6.635	-0.250
1.001	SWIC102	120 Winter	30	+0%					6.477	-0.300
1.002	SWIC103	120 Winter	c 30	+0%					6.209	-0.300
1.003	Bend	120 Winter	c 30	+0%					6.194	-0.300
1.004	SWIC104	120 Winter	- 30 - 30	+0-3 +0-8					6 149	-0.300
1.006	SWIC105	100			100/15 0					0.000
2.000	DWICIOJ	120 Winter	c 30	+0%	100/15 Summer				5.823	-0.300
1 000	SWIC105	120 Winter 120 Winter	c 30 c 30	+0% +0%	100/15 Summer				5.823	-0.300 -0.225
1.007	SWIC105 SWIC106 SWIC107	120 Winter 120 Winter 15 Winter	2 30 2 30 2 30	+08 +08 +08	100/15 Summer				5.823 6.600 5.748	-0.300 -0.225 -0.120
1.007	SWIC105 SWIC106 SWIC107 SWMH109	120 Winter 120 Winter 15 Winter 15 Winter	2 30 2 30 2 30 2 30 2 30	+0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 20/15 Winter				5.823 6.600 5.748 5.748	-0.300 -0.225 -0.120 -0.047
1.007 1.008 1.009 3.000	SWIC105 SWIC106 SWIC107 SWMH109 SWMH109b SWMH110	120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 120 Winter	2 30 2 30 2 30 2 30 2 30 2 30 2 30	+0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer				5.823 6.600 5.748 5.748 5.760 6.450	-0.300 -0.225 -0.120 -0.047 0.009 -0.300
1.007 1.008 1.009 3.000 3.001	SWIC105 SWIC106 SWIC107 SWMH109 SWMH109b SWMH110 SWMH112	120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 120 Winter 15 Winter	2 30 2 30 2 30 2 30 2 30 2 30 2 30 2 30	+0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer				5.823 6.600 5.748 5.748 5.760 6.450 6.165	-0.300 -0.225 -0.120 -0.047 0.009 -0.300 -0.135
1.007 1.008 1.009 3.000 3.001 3.002	SWICIOS SWICIO7 SWMH109 SWMH109b SWMH110 SWMH112 SWMH113	120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 120 Winter 15 Winter 15 Winter	30 30	+0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer				5.823 6.600 5.748 5.748 5.760 6.450 6.165 5.938	-0.300 -0.225 -0.120 -0.047 0.009 -0.300 -0.135 -0.242
1.007 1.008 1.009 3.000 3.001 3.002 4.000	SWICIOS SWICIO7 SWMH109 SWMH109b SWMH110 SWMH112 SWMH113	120 Winten 120 Winten 15 Winten 15 Winten 120 Winten 15 Winten 15 Winten 15 Winten	a 30	+0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer 100/15 Summer				5.823 6.600 5.748 5.748 5.760 6.450 6.165 5.938 6.301	-0.300 -0.225 -0.120 -0.047 0.009 -0.300 -0.135 -0.242 -0.099
1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002	SWIC105 SWIC106 SWIC107 SWMH109 SWMH109 SWMH110 SWMH112 SWMH113 SWMH114 SWMH115 SWMH116	120 Winten 120 Winten 15 Winten 15 Winten 120 Winten 15 Winten 15 Winten 15 Winten 15 Winten 15 Winten	a 30	+0% +0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer				5.823 6.600 5.748 5.748 5.760 6.450 6.165 5.938 6.301 6.300 6.068	$\begin{array}{c} -0.300\\ -0.225\\ -0.120\\ -0.047\\ 0.009\\ -0.300\\ -0.135\\ -0.242\\ -0.099\\ 0.000\\ -0.202\end{array}$
1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000	SWICI05 SWIC106 SWIC107 SWMH109 SWMH109 SWMH110 SWMH112 SWMH113 SWMH114 SWMH115 SWMH116 SWRE01	120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter	a 30	+0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer				5.823 6.600 5.748 5.748 5.760 6.450 6.450 6.165 5.938 6.301 6.300 6.068 6.422	$\begin{array}{c} -0.300\\ -0.225\\ -0.120\\ -0.047\\ 0.009\\ -0.300\\ -0.135\\ -0.242\\ -0.099\\ 0.000\\ -0.202\\ -0.225\end{array}$
1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003	SWICIOS SWICIOF SWMH109 SWMH109b SWMH109b SWMH110 SWMH112 SWMH113 SWMH114 SWMH116 SWRE01 JNC	120 Winter 120 Winter 15 Winter	a 30	+0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer				5.823 6.600 5.748 5.748 5.760 6.450 6.450 6.165 5.938 6.301 6.300 6.068 6.422 5.872	$\begin{array}{c} -0.300\\ -0.225\\ -0.120\\ -0.047\\ 0.009\\ -0.300\\ -0.135\\ -0.242\\ -0.099\\ 0.000\\ -0.202\\ -0.225\\ -0.231\end{array}$
1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010	SWICIOS SWICIOF SWMH109 SWMH109b SWMH109 SWMH110 SWMH112 SWMH113 SWMH114 SWMH116 SWRE01 JNC SWMH117	120 Winten 120 Winten 15 Winten	a 30	+0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer				5.823 6.600 5.748 5.748 5.760 6.450 6.165 5.938 6.301 6.300 6.068 6.422 5.872 5.782	$\begin{array}{c} -0.300\\ -0.225\\ -0.120\\ -0.047\\ 0.009\\ -0.300\\ -0.135\\ -0.242\\ -0.099\\ 0.000\\ -0.202\\ -0.225\\ -0.231\\ 0.082\end{array}$
1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010 6.000 7.000	SWICLOS SWICLOS SWICLOS SWMH109b SWMH109 SWMH110 SWMH112 SWMH113 SWMH114 SWMH115 SWMH116 SWRE01 JNC SWMH117 SWMH118 SWMH118	120 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 120 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter	a 30	+0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	100/15 Winter			5.823 6.600 5.748 5.748 5.760 6.450 6.165 5.938 6.301 6.300 6.068 6.422 5.872 5.782 5.782 5.888	$\begin{array}{c} -0.300\\ -0.225\\ -0.120\\ -0.047\\ 0.009\\ -0.300\\ -0.135\\ -0.242\\ -0.099\\ 0.000\\ -0.202\\ -0.225\\ -0.231\\ 0.082\\ -0.082\\ -0.082\\ 0.062\end{array}$
1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010 6.000 7.000 1.011	SWICLOS SWICLOS SWICLOS SWMH109b SWMH109 SWMH110 SWMH112 SWMH113 SWMH114 SWMH115 SWMH116 SWRE01 JNC SWMH117 SWMH118 SWMH119 SWMH120	120 Winter 120 Winter 15 Winter 15 Winter 120 Winter 15 Winter	a 30 a 30	+0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	100/15 Winter			5.823 6.600 5.748 5.748 5.748 5.760 6.450 6.450 6.450 6.165 5.938 6.301 6.300 6.068 6.422 5.872 5.782 5.782 5.786 5.736	$\begin{array}{c} -0.300\\ -0.225\\ -0.120\\ -0.047\\ 0.009\\ -0.300\\ -0.135\\ -0.242\\ -0.099\\ 0.000\\ -0.202\\ -0.225\\ -0.231\\ 0.082\\ -0.082\\ -0.082\\ -0.062\\ 0.061\end{array}$
1.007 1.008 1.009 3.000 3.001 3.002 4.000 4.001 4.002 5.000 4.003 1.010 6.000 7.000 1.011 1.012	SWICIOS SWICIOF SWICIOF SWMH109b SWMH109 SWMH100 SWMH112 SWMH113 SWMH114 SWMH115 SWMH116 SWRE01 JNC SWMH117 SWMH118 SWMH120 SWMH121	120 Winter 120 Winter 15 Winter	a 30 a 30	+0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	100/15 Summer 100/15 Summer 100/15 Summer 30/15 Winter 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer	100/15 Winter			5.823 6.600 5.748 5.748 5.760 6.450 6.165 5.938 6.301 6.300 6.068 6.422 5.872 5.782 5.782 5.788 5.736 5.701	$\begin{array}{c} -0.300\\ -0.225\\ -0.120\\ -0.047\\ 0.009\\ -0.300\\ -0.135\\ -0.242\\ -0.099\\ 0.000\\ -0.202\\ -0.225\\ -0.231\\ 0.082\\ -0.082\\ -0.082\\ -0.062\\ 0.061\\ 0.031\end{array}$

BuroHappold Ltd		Page 6
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	and the
Bath	Central (C) Network	Micro
Date 17/12/2020 17:03	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	•

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW C

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (1/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.000	SWIC101	0.000	0.00		0.0	OK	
1.001	SWIC102	0.000	0.00		0.0	OK	
1.002	SWIC103	0.000	0.00		0.0	OK	
1.003	Bend	0.000	0.00		0.0	OK*	
1.004	Bend	0.000	0.00		0.0	OK*	
1.005	SWIC104	0.000	0.00		0.0	OK	
1.006	SWIC105	0.000	0.00		0.0	OK	
2.000	SWIC106	0.000	0.00		0.0	OK	
1.007	SWIC107	0.000	0.05		5.7	OK	
1.008	SWMH109	0.000	0.23		21.8	OK	
1.009	SWMH109b	0.000	0.28		31.5	SURCHARGED	
3.000	SWMH110	0.000	0.00		0.0	OK	
3.001	SWMH112	0.000	0.86		208.5	OK	
3.002	SWMH113	0.000	0.51		225.7	OK	
4.000	SWMH114	0.000	0.02		1.4	OK	
4.001	SWMH115	0.000	1.12		189.5	OK	
4.002	SWMH116	0.000	0.66		187.8	OK	
5.000	SWRE01	0.000	0.00		0.0	OK	
4.003	JNC	0.000	0.51		211.5	OK*	
1.010	SWMH117	0.000	1.80		400.9	SURCHARGED	
6.000	SWMH118	0.000	0.74		51.2	OK	1
7.000	SWMH119	0.000	0.40		26.9	OK	
1.011	SWMH120	0.000	1.33		473.7	SURCHARGED	
1.012	SWMH121	0.000	1.37		470.2	SURCHARGED	
1.013	SWMH122	0.000	1.48		408.5	OK	

Candem Mill The Peoples Project Lower Bristol Road SN Calcos Surgharged Outfalls Bath Cantral (C) Network Date 17/12/2020 17:03 Designed by Matt Redfern Pils SU, Matworks_201217.MDX Checked by Mick Hall Throwyze Network 2019.1 100 year Return Period Summary of Critical Results by Maximum Level (Bank 1) for SN C Samulation Criteria Areal Reduction Fastes 1.000 MGD Faster - 100 / ha Storage 1.000 Nambol Hondland Gooff (Idhal) 0.500 MGD Faster - 100 / ha Storage 1.000 Namber of Dinyt Bytograph 0 Number of Storage Structures 0 Number of Ouline Controls 0 Number of Storage Structures 0 Number of Ouline Controls 0 Number of Storage Structures 0 Number of Ouline Controls 0 Number of Storage Structures 0 Number of Ouline Controls 0 Number of Storage Structures 0 Namber of Ouline Controls 0 Number of Storage Structures 0 Namber of Storage Structures 0 Storage Structures 0 Nangel Status 0 St	BuroHa	appold I	td								Pag	e 7
Lower Bristol Road SK Calce Surgharged Outfalls Each Central (2) Network Central (2) Network Central (2) Network Checked by Mick Hell Checked by Mick Hell Checked by Nick Hell Innovyce Network 2019.1 Netwo	Camder	n Mill					The Peop	les Project				
Bath Central (C) Metwock Date 17/12/2020 17:03 Decisned by Matt Redfern File SW_Metworko_201217.MDX Checked by Mick Heall Innovyza Network 2019.1 100 year Return Period Summary of Critical Regults by Maximum Level (Park 1) for SM C Simulation Period Number 2019.1 Aceal Return Period Summary of Critical Regults by Maximum Level (Park 1) for SM C Simulation Period Number 2019.1 Network 2019.1 Namole Beallose Coeff (Global) 0.300 Flow per Person per Day (L/per/day) 0.000 Number of Input Hydrographs 0 Namber of Input Hydrographs 0 Number of Input Hydrographs 0 Number of Input Hydrographs 0 Nampar (Hold) Profile(1) Profile(1) Duration(1) (Info) Nergin for Flood Hisk Karning (mm) Duration(1) (Info) Nergin for Flood Hisk Karning (mm) Duration(2) (Info) Duration(2) (Info) Return Chame Pirot (X)	Lower	Bristol	Road	d			SW Calcs	Surgharged	Outfalls			
Date 17/12/2020 17:03 Designed by Matt Redfern File SN.Networks_001217.MIX Checked by Nick Hall Innovyze Network 2019.1 Neeal Reduction Peater 1.000 Addition Criteria Neeal Reduction Peater 1.000 Madit State 2.000 Nonhole Headlong Coeff (Ichical Results by Maximum Level (Rank 1) for SN C Namber of Ingut Rytograph 0 Number of State 1.000 Number of Ingut Rytograph 0 Number of State 1000 Number of State 1.000 Number of Ingut Rytograph 0 Number of State 1.000 Number of Ingut Rytograph 0 Number of State 1.000 Number of Ingut Rytograph 0 Number 0.200 Oct (Winter) Number of Ingut Rytograph 0 Number 0.001 Time Controls 0 Number of Ingut Rytograph 0 Number 0.001 Time Controls 0 Number of Ingut Rytograph 0 Number 0.001 Time Controls 0 Number of Ingut Rytograph 0 Number 0.001 Time Controls 0 Number of Ingut Rytograph 0 Number 0.001 Time Contr	Bath						Central	(C) Network			N	licito
File SWLNEtWorks_201217.MDX Checked by Bick Hall Definition Innovyze Network 2019.1 100 year Return Period Summary of Critical Results by Maximum Level (Eank 1) for SW C Simulation Criteria Areal Reduction Start (mine) Areal Reduction Start (mine) Mambde ReadBloss Coeff (Global) Nambde ReadBloss Coeff (Global) Namber of Input Hydrographs 0 Number of Input Hydrographs 0 Nambde ReadBloss Coeff (Global) Nargin for Flood Risk Maringi min 201 Coefficit Nargin for Flood Risk Maringi min Duration(H) (Enne) 15, 30, 60, 120, 180, 240, 360, 480, 660, 720, 180 Nargin for Flood Risk Maringi min Duration(H) (Enne) 16, 31376 24200 Duration(H) (Enne)	Date 1	17/12/20	20 1	7:03			Designed	by Matt Re	dfern		- H	cainago
Innovyse Network 2019.1 100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW C Simulation_Criteria Areal Reduction Sector 1.000 Hot Start Level (mm) 0 Manhole Headloss Cooff (Stall) 0.500 Plow per Person per Day (L/per/day) 0.000 Number of Enput Hydrographs 0 Number of Start Rainfall Model PHE Relatifiel Model HE Location 0 Harding 1 Profile(a) Duration(s) (mina) Duration(s) (mina) Profile(a) Duration(s) 100 HW Mee Return Period(s) (years) Climate Prived Canage Burcharge Profile(a) Duration(s) Hinter Duration(s) (mina) Dis 30, 0, 120, 120, 240, 360, 480, 600, 730, 960, 1400 Start Profile(a) Duration(File S	SW_Netwo	rks_2	201217	7.MDX		Checked	by Nick Hal	1			rainage
100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SN C Elimitation Criteria Areal Reduction Factor 1:000 Additional Flow - % of Total Flow 0.000 Hot Start Evel(mi) 0 MMDD Pactor * 10m*/hs Storage 2.000 Manhole Readions Coeff (Gibbal) 0.500 Flow per Person per Day (1/per/day) 0.000 Foul Seves per hetcare (1/s) 0.000 Number of Encage Structures 0 Number of Time/Area Diagrams 0 Number of Input Hydrographs 0 Number of Offline Controls 0 Number of Real Time Controls 0 Number of Duline Controls 0 Number of Storage Structures 0 Number of Real Time Controls 0 Number of Duline Controls 0 Number of Storage Structures 0 Number of Number of Number of Storage Structures 0 Number of Duline Controls 0 Number of Storage Structures 0 Number of Duline Controls 0 Number of Storage Structures 0 Number of Duline Controls 0 Number of Storage Structures 0 Number of Number of Storage Structures 0 Number of Storage Structures 0 Number of Number of Storage Structures 0 Number of Storage 2.5 Second Increment (Storaded) DTS Status 0 Num For Flood Risk Warning (me) 300.0 Number of Status 0 Num For Profile(s) Duration(a) (mins) 15, 30, 60, 120, 180, 240, 360, 460, 600, 720, 560, 1440 Nume Stora Period Change Stuckarge Flood Overflow Act. (n) (n) Nume Stora Period Change Stuckarge Flood Overflow Act. (n) (n) Nume Stora Period Change Stuckarge Flood Overflow Act. (n) (n) Nume Stora Period Change Stuckarge Flood Overflow Act. (n) (n) Nume Stora Period Change Stuckarge Flood Overflow Act. (n) (n) Nume Stora Period Change Stuckarge Flood Overflow Act. (n) (Innovy	yze					Network	2019.1				
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US/MH Return Climate First (X) First (Y) First (Z) Overflow Act. Depth PN Name Storm Period Change Surcharge Flood Overflow Act. (m) (m) 1.000 SWIC101 120 Winter 100 +40% 6.635 -0.250 1.001 SWIC103 15 Winter 100 +40% 6.316 -0.193 1.002 SWIC103 15 Winter 100 +40% 6.316 -0.193 1.004 Bend 15 Winter 100 +40% 6.347 -0.121 1.005 SWIC104 15 Winter 100 +40% 6.6347 -0.255 1.006 SWIC105 15 winter 100 +40% 100/15 Summer 6.439 0.531 1.008 SWIC107 15 Winter 100 +40% 100/15 Summer 7.031 0.281 1.008 SW											•••••	a
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1.005 SWIC104 15 Winter 100 +40% 100/15 Summer 6.382 0.259 2.000 SWIC105 120 Winter 100 +40% 100/15 Summer 6.600 -0.225 1.007 SWIC107 15 Winter 100 +40% 100/15 Summer 6.399 0.531 1.008 SWMH109 15 Winter 100 +40% 100/15 Summer 6.419 0.624 1.009 SWMH109 15 Winter 100 +40% 100/15 Summer 7.031 0.281 3.001 SWMH112 15 Winter 100 +40% 100/15 Summer 7.032 0.732 3.002 SWMH113 15 Winter 100 +40% 100/15 Summer 7.118 0.718 4.001 SWMH115 15 Winter 100 +40% 100/15 Summer 6.4927 0.657 5.000 SWRE01 15 Winter 100 +40% 100/15 Summer 6.193 0	1.004	Bend	15 V	Winter	100	+40%					6.347	-0.121
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1.000 SWMH109 15 Winter 100 +40% 100/15 Summer 6.419 0.624 1.009 SWMH109 15 Winter 100 +40% 30/15 Winter 6.451 0.700 3.000 SWMH101 15 Winter 100 +40% 100/15 Summer 6.451 0.700 3.001 SWMH112 15 Winter 100 +40% 100/15 Summer 7.031 0.281 3.001 SWMH113 15 Winter 100 +40% 100/15 Summer 7.032 0.732 3.002 SWMH114 15 Winter 100 +40% 100/15 Summer 6.805 0.625 4.000 SWMH114 15 Winter 100 +40% 100/15 Summer 7.118 0.718 4.001 SWMH16 15 Winter 100 +40% 100/15 Summer 6.927 0.657 5.000 SWRE01 15 Winter 100 +40% 100/15 Summer 6.103 0.000<	1 007	SWIC100	15 1	Winter	100	+40%	100/15 Summer				6 399	0.225
1.009SWMH109b15Winter100+40%30/15Winter6.4510.7003.000SWMH1015Winter100+40%100/15Summer7.0310.2813.001SWMH1215Winter100+40%100/15Summer7.0320.7323.002SWMH11315Winter100+40%100/15Summer6.8050.6254.000SWMH1415Winter100+40%100/15Summer7.1180.7184.001SWMH1515Winter100+40%100/15Summer7.1190.8194.002SWMH1615Winter100+40%100/15Summer6.9270.6575.000SWRE0115Winter100+40%100/15Winter6.7370.0904.003JNC30Winter100+40%30/15Summer6.1030.0001.010SWMH11715Winter100+40%30/15Summer6.4990.7996.000SWMH11815Winter100+40%100/15Summer6.3260.6511.011SWMH12015Winter100+40%30/15Summer6.3260.6511.012SWMH12115Winter100+40%30/15Summer6.0860.4161.013SWMH12215Winter100+40%30/15Summer5.848	1.008	SWMH109	15 V	Winter	100	+40%	100/15 Summer				6.419	0.624
3.000 SWMH110 15 Winter 100 +40% 100/15 Summer 7.031 0.281 3.001 SWMH112 15 Winter 100 +40% 100/15 Summer 7.032 0.732 3.002 SWMH113 15 Winter 100 +40% 100/15 Summer 6.805 0.625 4.000 SWMH114 15 Winter 100 +40% 100/15 Summer 7.118 0.718 4.001 SWMH116 15 Winter 100 +40% 100/15 Summer 7.119 0.819 4.002 SWMH116 15 Winter 100 +40% 100/15 Summer 6.927 0.657 5.000 SWRE01 15 Winter 100 +40% 100/15 Summer 6.737 0.090 4.003 JNC 30 Winter 100 +40% 30/15 Summer 6.499 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 6.444 0.566 1.011 SWMH120 15 Winter 100 +	1.009	SWMH109b	15 V	Winter	100	+40%	30/15 Winter				6.451	0.700
3.001 SWMH112 15 Winter 100 +40% 100/15 Summer 7.032 0.732 3.002 SWMH113 15 Winter 100 +40% 100/15 Summer 6.805 0.625 4.000 SWMH114 15 Winter 100 +40% 100/15 Summer 7.118 0.718 4.001 SWMH115 15 Winter 100 +40% 100/15 Summer 7.119 0.819 4.002 SWMH116 15 Winter 100 +40% 100/15 Summer 6.927 0.657 5.000 SWRE01 15 Winter 100 +40% 100/15 Winter 6.103 0.000 4.003 JNC 30 Winter 100 +40% 30/15 Summer 6.499 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651	3.000	SWMH110	15 V	Winter	100	+40%	100/15 Summer				7.031	0.281
3.002 SWMH113 15 Winter 100 +40% 100/15 Summer 6.805 0.625 4.000 SWMH114 15 Winter 100 +40% 100/15 Summer 7.118 0.718 4.001 SWMH115 15 Winter 100 +40% 100/15 Summer 7.119 0.819 4.002 SWMH116 15 Winter 100 +40% 100/15 Summer 6.927 0.657 5.000 SWRE01 15 Winter 100 +40% 100/15 Winter 6.103 0.000 4.003 JNC 30 Winter 100 +40% 30/15 Summer 6.499 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.012 SWMH121 15 Winter 100 +40% 30/15 Summer 6.086 0.416	3.001	SWMH112	15 V	Winter	100	+40%	100/15 Summer				7.032	0.732
4.000 SWMH114 15 Winter 100 +40% 100/15 Summer 7.118 0.718 4.001 SWMH115 15 Winter 100 +40% 100/15 Summer 7.119 0.819 4.002 SWMH116 15 Winter 100 +40% 100/15 Summer 6.927 0.657 5.000 SWRE01 15 Winter 100 +40% 100/15 Winter 6.737 0.090 4.003 JNC 30 Winter 100 +40% 30/15 Summer 6.409 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.013 SWMH121 15 Winter 100 +40% 100/15 Summer 5.848 0.185	3.002	SWMH113	15 V	Winter	100	+40%	100/15 Summer				6.805	0.625
4.001 SWMH115 15 Winter 100 +40% 100/15 Summer 7.119 0.819 4.002 SWMH116 15 Winter 100 +40% 100/15 Summer 6.927 0.657 5.000 SWRE01 15 Winter 100 +40% 100/15 Winter 6.737 0.090 4.003 JNC 30 Winter 100 +40% 30/15 Summer 6.103 0.000 1.010 SWMH117 15 Winter 100 +40% 30/15 Summer 6.499 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.012 SWMH121 15 Winter 100 +40% 30/15 Summer 5.848 0.185	4.000	SWMH114	15 V	Winter	100	+40%	100/15 Summer				7.118	0.718
4.002 SWMH116 15 Winter 100 +40% 100/15 Summer 6.927 0.657 5.000 SWRE01 15 Winter 100 +40% 100/15 Winter 6.737 0.090 4.003 JNC 30 Winter 100 +40% 30/15 Winter 6.103 0.000 1.010 SWMH117 15 Winter 100 +40% 30/15 Summer 6.499 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.012 SWMH121 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.013 SWMH122 15 Winter 100 +40% 100/15 Summer 5.848 0.185	4.001	SWMH115	15 V	Winter	100	+40%	100/15 Summer				7.119	0.819
5.000 SWRE01 15 Winter 100 +40% 100/15 Winter 6.737 0.090 4.003 JNC 30 Winter 100 +40% 6.103 0.000 1.010 SWMH117 15 Winter 100 +40% 30/15 Summer 6.499 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.011 SWMH121 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.013 SWMH122 15 Winter 100 +40% 100/15 Summer 5.848 0.185	4.002	SWMH116	15 V	Winter	100	+40%	100/15 Summer				6.927	0.657
4.003 JNC 30 Winter 100 +40% 6.103 0.000 1.010 SWMH117 15 Winter 100 +40% 30/15 Summer 6.499 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 100/15 Winter 6.727 0.757 7.000 SWMH119 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.012 SWMH121 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.013 SWMH122 15 Winter 100 +40% 100/15 Summer 5.848 0.185	5.000	SWRE01	15 1	winter	100	+40%	100/15 Winter				6.737	0.090
1.010 SWMM117 15 Winter 100 +40% 30/15 Summer 6.499 0.799 6.000 SWMH118 15 Winter 100 +40% 100/15 Summer 100/15 Winter 6.727 0.757 7.000 SWMH119 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.012 SWMH121 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.013 SWMH122 15 Winter 100 +40% 100/15 Summer 5.848 0.185	4.003		3U V 1 = T	winter	100	+40%	20/15 Common				6.103	0.000
7.000 SWMH119 15 Winter 100 +40% 100/15 Summer 6.414 0.566 1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.012 SWMH121 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.013 SWMH122 15 Winter 100 +40% 100/15 Summer 5.848 0.185	6 000	SWMH118	15 V 15 T	Winter	100	+40∛ +4∩⊱	100/15 Summer	100/15 Winter	-		6 727	0.799
1.011 SWMH120 15 Winter 100 +40% 30/15 Summer 6.326 0.651 1.012 SWMH121 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.013 SWMH122 15 Winter 100 +40% 100/15 Summer 5.848 0.185	7.000	SWMH119	15 1	Winter	100	+40%	100/15 Summer	TOOLTO WILLER			6.414	0.566
1.012 SWMH121 15 Winter 100 +40% 30/15 Summer 6.086 0.416 1.013 SWMH122 15 Winter 100 +40% 100/15 Summer 5.848 0.185	1.011	SWMH120	15 V	Winter	100	+40%	30/15 Summer				6.326	0.651
1.013 SWMH122 15 Winter 100 +40% 100/15 Summer 5.848 0.185	1.012	GT T 4711 0 1										
		SWMHIZI	15 V	Winter	100	+40%	30/15 Summer				6.086	0.416

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BuroHappold Ltd		Page 8
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	E.
Bath	Central (C) Network	Micco
Date 17/12/2020 17:03	Designed by Matt Redfern	Dcainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamage
Innovyze	Network 2019.1	•

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW C

PN	US/MH Name	Flooded Volume (m ³)	Flow /	Overflow	Pipe Flow (1/s)	Status	Level
		()		(_/~/	(_/~/		
1.000	SWIC101	0.000	0.00		0.0	OK	
1.001	SWIC102	0.000	0.00		0.0	OK	
1.002	SWIC103	0.000	0.04		2.0	OK	
1.003	Bend	0.000	0.06		3.7	OK*	
1.004	Bend	0.000	0.10		6.3	OK*	
1.005	SWIC104	0.000	0.06		4.0	OK	
1.006	SWIC105	0.000	0.34		23.7	SURCHARGED	
2.000	SWIC106	0.000	0.00		0.0	OK	
1.007	SWIC107	0.000	0.25		27.4	SURCHARGED	
1.008	SWMH109	0.000	0.50		46.8	SURCHARGED	
1.009	SWMH109b	0.000	0.44		49.1	SURCHARGED	
3.000	SWMH110	0.000	0.05		2.9	FLOOD RISK	
3.001	SWMH112	0.000	1.37		331.3	FLOOD RISK	
3.002	SWMH113	0.000	0.80		349.6	SURCHARGED	
4.000	SWMH114	0.000	0.04		3.2	FLOOD RISK	
4.001	SWMH115	0.000	1.80		306.1	FLOOD RISK	
4.002	SWMH116	0.000	1.06		301.6	SURCHARGED	
5.000	SWRE01	0.000	0.00		0.0	SURCHARGED*	
4.003	JNC	0.000	0.75		314.3	SURCHARGED*	
1.010	SWMH117	0.000	2.90		644.1	SURCHARGED	
6.000	SWMH118	0.044	1.17		81.1	FLOOD	1
7.000	SWMH119	0.000	0.64		42.7	SURCHARGED	
1.011	SWMH120	0.000	2.14		761.6	SURCHARGED	
1.012	SWMH121	0.000	2.23		762.8	SURCHARGED	
1.013	SWMH122	0.000	2.76		762.0	SURCHARGED	

BuroHappold Ltd		Page 1
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	the second
Bath	Car Park (CP) Network	Micco
Date 17/12/2020 17:04	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for SW CP

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR RainfallModel - England and WalesReturn Period (years)5PIMP (%)100M5-60 (mm)18.700Add Flow / Climate Change (%)0Ratio R0.400Minimum Backdrop Height (m)0.200Maximum Rainfall (mm/hr)250Maximum Backdrop Height (m)1.500Maximum Time of Concentration (mins)30Min Design Depth for Optimisation (m)0.900Foul Sewage (l/s/ha)0.000Min Vel for Auto Design only (m/s)1.00Volumetric Runoff Coeff.0.750Min Slope for Optimisation (1:X)500

Designed with Level Soffits

Network Design Table for SW CP

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Bas Flow (se (l/s)	k (mm)	HYD SECT	DIA (mm)	Section Type	Auto Design
												-
1.000	43.099	0.192	224.5	0.141	5.00		0.0	0.600	0	300	Pipe/Conduit	<u> </u>
1.001	38.847	0.173	224.5	0.000	0.00		0.0	0.600	0	375	Pipe/Conduit	Ă
2.000	32.256	0.143	225.6	0.055	5.00		0.0	0.600	0	300	Pipe/Conduit	<u> </u>
2.001	38.402	0.171	224.6	0.000	0.00		0.0	0.600	0	300	Pipe/Conduit	Ā.
2.002	11.327	0.050	226.5	0.085	0.00		0.0	0.600	0	300	Pipe/Conduit	Ā.
											-	
1.002	12.018	0.037	324.8	0.145	0.00		0.0	0.600	0	375	Pipe/Conduit	<u>A</u>
1.003	27.187	0.085	319.8	0.010	0.00		0.0	0.600	0	375	Pipe/Conduit	Ă.
											1 .,	
3.000	27.857	0.153	182.1	0.000	5.00		0.0	0.600	0	225	Pipe/Conduit	<u> </u>
0.000	27.007	0.100	102.1	0.000	0.00		0.0	0.000	0	220	1 1PO, conduiro	
1.004	14.321	0.044	325.5	0.000	0.00		0.0	0.600	0	375	Pipe/Conduit	۵
1 005	61 075	0 181	337 4	0 126	0 00		0 0	0 600	-	375	Pipe/Conduit	
1.006	8.906	0.027	329.9	0.000	0.00		0.0	0.600	0	375	Pipe/Conduit	
1 007	8 906	0 028	318 1	0 000	0 00		0 0	0 600	0	375	Pipe/Conduit	
1.007	0.000	0.020	370.1	0.000	0.00		0.0	0.000	0	515	r rpc, conduite	•

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(mm/hr)	(mins)	(m)	(ha)	Flow (l/s)	(l/s)	(l/s)	(m/s)	(1/s)	(l/s)
1.000 1.001	80.34 77.12	5.69 6.22	5.717 5.475	0.141 0.141	0.0	0.0	0.0	1.05 1.20	73.9 133.1	30.7 30.7
2.000	81.44	5.52	5.716	0.055	0.0	0.0	0.0	1.04	73.7	12.1
2.001	77.68	6.13	5.573	0.055	0.0	0.0	0.0	1.05	73.9	12.1
2.002	76.64	6.31	5.402	0.139	0.0	0.0	0.0	1.04	73.5	28.9
1.002 1.003	75.53 73.17	6.51 6.96	5.302 5.265	0.426 0.436	0.0	0.0 0.0	0.0	1.00 1.01	110.4 111.3	87.1 87.1
3.000	81.66	5.48	5.483	0.000	0.0	0.0	0.0	0.97	38.4	0.0
1.004	71.99	7.20	5.180	0.436	0.0	0.0	0.0	1.00	110.3	87.1
1.005	67.32	8.24	5.136	0.562	0.0	0.0	0.0	0.98	108.3	102.4
1.006	66.70	8.39	4.955	0.562	0.0	0.0	0.0	0.99	109.6	102.4
1.007	66.11	8.53	4.928	0.562	0.0	0.0	0.0	1.01	111.6	102.4

BuroHappold Ltd		Page 2
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	Sec.
Bath	Car Park (CP) Network	Micco
Date 17/12/2020 17:04	Designed by Matt Redfern	Drainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

Surcharged Outfall Details for SW CP

Outfall Pipe Number	Outfall Name	C. Level I. (m)	Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.007	Channel West	7.580	4.900	0.000	1200	0
	Datum (m)	0.000 Offse	t (mins) 0		

Time Depth (mins) (m)

1440 5.530

BuroHappold Ltd			Page 3
Camden Mill	The Peopl	es Project	
Lower Bristol Road	SW Calcs	Surgharged Outfalls	
Bath	Car Park	(CP) Network	Micro
Date 17/12/2020 17:04	Designed	by Matt Redfern	Drainage
File SW_Networks_201217.MDX	Checked b	y Nick Hall	Dramage
Innovyze	Network 2	019.1	
2 year Return Period Summ	ary of Critical Resu	ults by Maximum Level (1	Rank 1) for SW CP
Areal Redu Hot Hot Star Manhole Headloss Co Foul Sewage per h Number of Input Hydrograp Number of Online Contro	<u>Simulation Cr</u> ction Factor 1.000 Add Start (mins) 0 t Level (mm) 0 eff (Global) 0.500 Flow ectare (l/s) 0.000 hs 0 Number of Offline ls 0 Number of Storage S	titeria ditional Flow - % of Total F MADD Factor * 10m³/ha Stor Inlet Coeffieci per Person per Day (1/per/d c Controls 0 Number of Time, structures 0 Number of Real	flow 0.000 rage 2.000 Lent 0.800 day) 0.000 /Area Diagrams 0 Time Controls 0
	Synthetic Rainfa	ll Details	
Rainfall Mo FEH Rainfall Vers Site Locat	odel sion sion GB 333750 392800 SJ	FEH Data Type Ca 2013 Cv (Summer) 33750 92800 Cv (Winter)	tchment 0.750 0.840
Margin for F	lood Risk Warning (mm)	30	0.0
	Analysis Timestep 2	.5 Second Increment (Extend	ed)
	DVD Status		ON
	Inertia Status		OFF
Duration(s) (Return Period(s) (Climate Chang	mins) 15, 30, 60, 120 rears) re (%)	, 180, 240, 360, 480, 600, 2	720, 960, 1440 2, 30, 100 0, 0, 40
US/MH Return	Climate First (X)	First (Y) First (Z) Ove	erflow Level Depth
PN Name Storm Period	l Change Surcharge	Flood Overflow A	Act. (m) (m)
1.000 SWMH51 15 Winter 2	+0% 100/15 Summer	100/15 Summer	5.832 -0.185
1.001 SWMH52 15 Winter 2	+0% 100/15 Summer	100/15 Summer	5.588 -0.262
2.000 SWMH53 15 Winter 2 2.001 SWMH54 15 Winter 2	+0% 100/15 Summer	100/15 Summer	5.786 -0.230 5.642 -0.231
2.002 SWMH55 15 Winter 2	+0% 30/15 Summer		5.544 -0.158
1.002 SWMH56 15 Winter 2	+0% 30/15 Summer	100/15 Summer	5.527 -0.150
1.003 SWMH57 15 Winter 2 3.000 SWDNO 01 120 Winter	+0% 30/15 Summer		5.473 -0.167
1.004 SWDNO 02 15 Winter 2	+0% 30/15 Summer		5.403 -0.152
1.005 SWMH58 15 Winter 2	+0% 30/15 Summer		5.358 -0.153
1.006 SWMH59 15 Winter 2 1.007 SWMH60 1440 Summer 2	+0% 30/15 Summer +0% 30/15 Winter		5.218 -0.112 5.217 -0.086
			5.111, 5.000
	Flooded	Pipe	
US	/MH Volume Flow / Ove	rflow Flow Level	
PN Na	me (m ³) Cap. (1	/s) (l/s) Status Exceeded	1
1.000 SV	MH51 0.000 0.30	21.0 OK 4	L
1.001 SV	MH52 0.000 0.17	20.4 OK 4	<u>l</u>
2.000 SV 2.001 SV	MH53 0.000 0.12	8.2 OK 4	L .
2.001 SV 2.002 SV	MH55 0.000 0.30	17.7 OK	
1.002 SV		54 5 OK 2	
1.003 SV	MH50 0.000 0.07	54.5 OK 2	
	MH58 0.000 0.87 MH57 0.000 0.57	54.5 OK 2	2
3.000 SWD1	MH36 0.000 0.07 MH57 0.000 0.57 IO 01 0.000 0.000 IO 02 0.000 0.65	55.0 OK 0.0 OK	2

0.000 0.83 62.3 ©1982-2019 Innovyze

64.1

OK

OK

0.000 0.63

1.005 SWMH58

1.006 SWMH59

BuroHappold Ltd		Page 4
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	Sec. 10
Bath	Car Park (CP) Network	Micco
Date 17/12/2020 17:04	Designed by Matt Redfern	Desinance
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW CP

		Flooded			Pipe		
	US/MH	Volume	Flow /	Overflow	Flow		Level
PN	Name	(m³)	Cap.	(l/s)	(l/s)	Status	Exceeded
1.007	SWMH60	0.000	0.40		30.8	ОК	

BuroHappold Ltd	Page 5
Camden Mill	The Peoples Project
Lower Bristol Road	SW Calcs Surgharged Outfalls
Bath	Car Park (CP) Network
Date 17/12/2020 17:04	Designed by Matt Redfern
File SW Networks 201217.MDX	Checked by Nick Hall
Innovyze	Network 2019.1
30 year Return Period Summary of Cri	tical Results by Maximum Level (Rank 1) for SW CP
<u>S:</u>	mulation Criteria
Areal Reduction Factor Hot Start (ming)	1.000 Additional Flow - % of Total Flow 0.000
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 (1/s)	0.000
Number of Input Hydrographs () Number	of Offline Controls () Number of Time/Area Diagrams ()
Number of Online Controls 0 Number of	of Storage Structures 0 Number of Real Time Controls 0
Synth	etic Rainfall Details
Rainfall Model FEH Rainfall Version	FEH Data Type Catchment 2013 Cv (Summer) 0 750
Site Location GB 33375	0 392800 SJ 33750 92800 Cv (Winter) 0.840
Margin for Flood Risk War	ning (mm) 300.0
Anarysis	TS Status OFF
D	VD Status ON
Inert	ia Status OFF
Profile(s)	Summer and Winter
Duration(s) (mins) 15,	30, 60, 120, 180, 240, 360, 480, 600, 720, 960,
	1440
Return Period(s) (years) Climate Change (%)	$ \begin{array}{c} 1440 \\ 2, 30, 100 \\ 0, 0, 40 \end{array} $
Return Period(s) (years) Climate Change (%)	$ \begin{array}{c} 1440 \\ 2, 30, 100 \\ 0, 0, 40 \end{array} $
Return Period(s) (years) Climate Change (%)	1440 2, 30, 100 0, 0, 40
Return Period(s) (years) Climate Change (%) US/MH Beturn Climate Fi	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Z) Overflow Level Depth
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m)
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m)
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 100/15 Summer 5.894 -0.123 15 Summer 100/15 Summer 5.818 -0.032
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 100/15 Summer 5.894 -0.123 15 Summer 100/15 Summer 5.818 -0.032 15 Summer 100/15 Summer 5.845 -0.171
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 100/	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth Overflow Act. (m) (m) 15 Summer 5.894 100/15 Summer 15 Summer 100/15 Summer 5.845 -0.171 15 Summer 100/15 Summer 5.829 -0.044
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Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 100/15 Summer 15 Summer 100/15 Summer 5.818 -0.123 5.818 -0.032 15 Summer 100/15 Summer 5.829 -0.044 15 Summer 15 Summer 100/15 Summer 5.751 0.074 15 Summer 100/15 Summer 5.751 0.074
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth Overflow Act. (m) (m) 15 Summer 100/15 Summer 15 Summer 100/15 100/15 Summer 5 S845 -0.123 15 Summer 100/15 100/15 Summer 5 S845 -0.171 15 Summer 100/15 Summer 5 S820 0.18 Summer 5 S.751 0.074 Summer 5
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 100/ 1.004 SWDNO 02 15 Winter 30 +0% 30/	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow rcharge Flood Overflow Act. (m) 15 Summer 5.894 -0.123 15 Summer 5.818 -0.032 15 Summer 5.845 -0.171 15 Summer 5.829 -0.044 15 Summer 5.820 0.118 15 Summer 5.751 0.074 15 Summer 5.713 0.073 15 Summer 5.627 -0.081 15 Summer 5.628 0.073
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0% <t< td=""><td>1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 5.894 -0.123 15 Summer 5.818 -0.032 15 Summer 5.845 -0.171 15 Summer 5.829 -0.044 15 Summer 5.820 0.118 15 Summer 5.751 0.074 15 Summer 5.627 -0.081 15 Summer 5.628 0.073 15 Summer 5.628 0.073 15 Summer 5.628 0.071</td></t<>	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 5.894 -0.123 15 Summer 5.818 -0.032 15 Summer 5.845 -0.171 15 Summer 5.829 -0.044 15 Summer 5.820 0.118 15 Summer 5.751 0.074 15 Summer 5.627 -0.081 15 Summer 5.628 0.073 15 Summer 5.628 0.073 15 Summer 5.628 0.071
US/MH Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0%	1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 5.894 -0.123 15 Summer 5.818 -0.032 15 Summer 5.845 -0.171 15 Summer 5.829 -0.044 15 Summer 5.820 0.118 15 Summer 5.751 0.074 15 Summer 5.627 -0.081 15 Summer 5.627 -0.081 15 Summer 5.628 0.073 15 Summer 5.582 0.071 15 Summer 5.360 0.030 15 Summer 5.360 0.031 15 Summer 5.360 0.031 15 Summer 5.360 0.031 15 Summer 5.360 0.030 15
US/MH Return Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0% 30/ </td <td>1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 5.894 -0.123 15 Summer 5.818 -0.032 15 Summer 5.845 -0.171 15 Summer 5.829 -0.044 15 Summer 5.820 0.118 15 Summer 5.751 0.074 15 Summer 5.627 -0.081 15 Summer 5.628 0.073 15 Summer 5.628 0.071 15 Summer 5.307 0.004</td>	1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 5.894 -0.123 15 Summer 5.818 -0.032 15 Summer 5.845 -0.171 15 Summer 5.829 -0.044 15 Summer 5.820 0.118 15 Summer 5.751 0.074 15 Summer 5.627 -0.081 15 Summer 5.628 0.073 15 Summer 5.628 0.071 15 Summer 5.307 0.004
US/MH Return Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0% 30/	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Act. (m) 15 Summer 100/15 Summer 15 Summer 100/15 Summer 15 Summer 100/15
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Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH56 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0%	1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 100/15 15 Summer 5.845 100/15 Summer 5.820 100/15 Summer 5.751 100/15 Summer 5.751 100/15 Summer 5.627 15 Summer 5.628 15 Summer 5.628 15 Summer 5.360 15 Summer 5.360 15 Summer 5.307
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 1.003 SWDNO 01 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0% 30/ 1.006 SWMH59 15 Winter 30 +0%	1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 100/15 15 Summer 5.829 100/15 Summer 5.751 0.074 5.820 15 Summer 5.627 15 Summer 5.628 15 Summer 5.628 15 Summer 5.360 15 Summer 5.307 15 Summer 5.307 15 Summer 5.307 15 Winter Summer 100/15 Summer 5.307
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 100/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 1.003 SWDNO 01 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0% 30/ 1.007 SWMH60 15 Winter 30 +0%	1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 100/15 Summer 100/15 Summer 15 Summer 100/15 Summer 5.845 -0.171 15 Summer 100/15 Summer 5.820 0.118 15 Summer 100/15 Summer 5.820 0.118 15 Summer 100/15 Summer 5.627 -0.081 15 Summer 5.628 0.073 15 Summer 5.307 0.004 Pipe Now / Overflow Flow Level Cap. (1/s) Status 6.63 43.2 0K
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.001 SWMH53 15 Winter 30 +0% 100/ 2.002 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH56 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/ 3.000 SWDNO 02 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.007 SWMH60 15 Winter 30 +0% <td>1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow Act. (m) (m) 15 Summer 100/15 15 Summer 5.829 100/15 Summer 5.820 15 Summer 5.751 100/15 Summer 5.627 15 Summer 5.628 100/15 Summer 5.628 15 Summer 5.628 15 Summer 5.628 15 Summer 5.360 15 Summer 5.360 15 Summer 5.307 16 Sumer 5.307</td>	1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow Act. (m) (m) 15 Summer 100/15 15 Summer 5.829 100/15 Summer 5.820 15 Summer 5.751 100/15 Summer 5.627 15 Summer 5.628 100/15 Summer 5.628 15 Summer 5.628 15 Summer 5.628 15 Summer 5.360 15 Summer 5.360 15 Summer 5.307 16 Sumer 5.307
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH56 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/ 3.000 SWDN59 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0%	1440 2, 30, 100 0, 0, 40 water Surcharged rst (X) First (Y) First (Z) Overflow rcharge Flood Overflow Act. (m) 15 Summer 100/15 Summer 5.894 -0.123 15 Summer 100/15 Summer 5.818 -0.032 15 Summer 5.845 -0.171 15 Summer 5.829 -0.044 15 Summer 5.820 0.118 15 Summer 5.751 0.074 15 Summer 5.627 -0.081 15 Summer 5.628 0.073 15 Summer 5.628 0.073 15 Summer 5.360 0.030 15 Summer 5.360 0.030 15 Summer 5.307 0.004 Pipe low / Overflow Flow Level Cap. (1/s) (1/s) Status Exceeded 0.63 43
Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH55 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 1.003 SWMH57 15 Winter 30 +0% 30/ 1.003 SWMH58 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0%	1440 2, 30, 100 0, 0, 40 water Surcharged rcharge First (Y) Flood Overflow Act. (m) 15 Summer 100/15 Summer 100/15 Summer 15 Summer 100/15 Summer 15 Summer 15 Summer 15 Sumer
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Return Period(s) (years) Climate Change (%) US/MH Return Climate Fi PN Name Storm Period Change Su 1.000 SWMH51 15 Winter 30 +0% 100/ 1.001 SWMH52 15 Winter 30 +0% 100/ 2.000 SWMH53 15 Winter 30 +0% 100/ 2.001 SWMH54 15 Winter 30 +0% 30/ 2.002 SWMH56 15 Winter 30 +0% 30/ 1.002 SWMH56 15 Winter 30 +0% 30/ 3.000 SWDNO 01 15 Winter 30 +0% 30/ 1.004 SWDNO 02 15 Winter 30 +0% 30/ 1.005 SWMH58 15 Winter 30 +0% 30/ 1.006 SWMH59 15 Winter 30 +0% 30/ 1.007 SWMH60 15 Winter 30 +0% 30/ 1.000 SWMH51 0.000 1.001 SWMH52 0.000 2.001 SWMH60 15 Winter 30 +0% 30/ 1.000 <	1440 2, 30, 100 0, 0, 40 Water Surcharged rst (X) First (Y) First (Z) Overflow Level Depth rcharge Flood Overflow Act. (m) (m) 15 Summer 100/15 Summer 5.894 -0.123 15 Summer 100/15 Summer 5.818 -0.032 15 Summer 100/15 Summer 5.845 -0.171 15 Summer 5.829 -0.044 15 Summer 5.820 0.118 15 Summer 5.820 0.118 15 Summer 5.627 -0.081 15 Summer 5.627 -0.081 15 Summer 5.627 -0.081 15 Summer 5.627 -0.044 15 Summer 5.628 0.071 15 Summer 5.627 -0.081 15 Summer 5.307 0.004 Law S.307 0.004
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BuroHappold Ltd		Page 6
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	Sec.
Bath	Car Park (CP) Network	Micco
Date 17/12/2020 17:04	Designed by Matt Redfern	Dcainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW CP

PN	US/MH Name	Flooded Volume (m ³)	Flow / Cap.	Overflow (l/s)	Pipe Flow (l/s)	Status	Level Exceeded
1.007	SWMH60	0.000	1.38		107.1	SURCHARGED	

BuroHappold Lt	:d							Pag	re 7
Camden Mill				The Peop	ples Project	;			
Lower Bristol	Road			SW Calc	s Surgharged	d Outfall	5		
Bath				Car Par	k (CP) Netwo	ork		N	licco
Date 17/12/202	20 17:04			Designe	d by Matt Re	edfern			rainann
File SW_Networ	cks_201217	.MDX		Checked	by Nick Hal	11			ian age
Innovyze				Network	2019.1				
<u>100 year Re</u>	turn Perio	od Summar	<u>y of Cr</u>	itical R	esults by M	aximum Le	vel (Ranl	<u>k 1) fo</u>	or SW CP
Ма	Area Ho anhole Headl Foul Sewage	l Reductio Hot Star t Start Le oss Coeff per hecta	<u>S</u> n Factor t (mins) vel (mm) (Global) re (l/s)	<u>imulation</u> 1.000 2 0 0 0.500 Flo 0.000	<u>Criteria</u> Additional Flo MADD Facto ow per Person	w - % of To r * 10m³/ha Inlet Coe: per Day (1,	otal Flow a Storage ffiecient /per/day)	0.000 2.000 0.800 0.000	
Number o Number	of Input Hyd of Online	rographs 0 Controls 0	Number Number o	r of Offli of Storage	ne Controls 0 Structures 0	Number of Number of	Time/Area Real Time	Diagran Control	ns O Ls O
		6all Mar 7	Synth	<u>etic Rain</u>	fall Details				
	Rain FEH Rainfa Sit	tall Model ll Version e Location	GB 33375	0 392800	FEF 2013 SJ 33750 92800	l Data Ty 3 Cv (Summe) Cv (Winte	r) 0.7 r) 0.8	ent 750 840	
	Margin	for Flood	Risk War Analysis D	rning (mm) 5 Timestep 9TS Status	2.5 Second Ir	ncrement (E	300.0 xtended) OFF		
			Inert	ia Status			OFF		
	Duratio	Profile(s on(s) (mins	s) s) 15,	30, 60, 1	.20, 180, 240,	Sur 360, 480,	nmer and Wi 600, 720,	960,	
Re	eturn Perioo Climate	l(s) (years e Change (%	3) 5)				2, 30, 0, 0	1440 , 100), 40	
							0 51	Water	Surcharged
PN Name	Storm 1	Period Cha	nge Su	rst (X) Ircharge	First (I) Flood	Overflow	Act.	(m)	(m)
1.000 SWMH51	15 Winter	100 -	+40% 100/	15 Summer	100/15 Summer	<u>c</u>		6.612	0.595
2.000 SWMH52	15 Winter 15 Winter	100 -	⊦40% 100/ ⊦40% 100/	15 Summer 15 Summer	100/15 Summer 100/15 Summer	<u> </u>		6.549	0.536
2.001 SWMH54	15 Winter	100 -	+40% 100/	15 Summer	100/15 Summer	<u></u>		6.546	0.673
2.002 SWMH55	15 Winter	100 -	+40% 30/	15 Summer	100/15 0			6.615	0.913
1.002 SWMH56	15 Winter	100 -	+40% 30/ ⊾40% 30/	15 Summer	100/15 Summer	c		6.545	0.868
3.000 SWDNO 01	15 Winter	100 -	F40% 30/ ⊦40% 100/	15 Summer 15 Summer				6.372	0.654
1.004 SWDNO 02	15 Winter	100 -	+40% 30/	15 Summer				6.378	0.823
1.005 SWMH58	15 Winter	100 -	+40% 30/	15 Summer				6.279	0.768
1.006 SWMH59	15 Winter	100 -	+40% 30/ ⊾40% 30/	15 Summer				5.672	0.342
1.007 SWMHOU	12 MILLEL	100 -	F40% 30/	12 MILLEE				5.405	0.102
		I	looded		Pipe				
		US/MH	Volume F	'low / Ove	rflow Flow		Level		
	PN	Name	(m³)	Cap. (1	/s) (l/s)	Status 1	Exceeded		
	1.000	SWMH51	6.505	0.79	54.7	FLOOD	4		
	1.001	SWMH52	4.748	0.47	56.5	FLOOD	4		
	2.000	SWMH53	4.539	0.61	40.9	FLOOD	4		
	2.001	SWMH54	2.296	U.54 0 77	37.2	FLOOD BISK	4		
	1.002	SWMH26	0.875	1.86	40.4 F. 151.4	FLOOD KISK	2		
	1.003	SWMH57	0.000	1.46	141.8 F	LOOD RISK	-		

0.000 1.46 0.000 0.06

0.000 1.58

0.000 1.76

0.000 2.35

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3.000 SWDNO 01

1.004 SWDNO 02

1.005 SWMH58

SWMH59

1.006

141.8 FLOOD RISK

2.3 SURCHARGED

132.9 FLOOD RISK

179.1 SURCHARGED

176.1 SURCHARGED

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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	Sec.
Bath	Car Park (CP) Network	Micco
Date 17/12/2020 17:04	Designed by Matt Redfern	Desinance
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	1

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW CP

		Flooded			Pipe		
	US/MH	Volume	Flow /	Overflow	Flow		Level
PN	Name	(m ³)	Cap.	(l/s)	(l/s)	Status	Exceeded
1.007	SWMH60	0.000	2.28		177.1	SURCHARGED	

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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	the set
Bath	North East (NE) Network	Micco
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File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

STORM SEWER DESIGN by the Modified Rational Method

Design Criteria for SW_NE

Pipe Sizes STANDARD Manhole Sizes STANDARD

FSR Rainfall Model - England and WalesReturn Period (years)5M5-60 (mm)18.800Add Flow / Climate Change (%)0Ratio R0.400Maximum Rainfall (mm/hr)250Maximum Time of Concentration (mins)30Min Design Depth for Optimisation (m)1.000Foul Sewage (l/s/ha)0.000Win Slope for Optimisation (1:X)500

Designed with Level Soffits

Network Design Table for SW NE

« - Indicates pipe capacity < flow

PN	Length	Fall	Slope	I.Area	T.E.	Base	k	HYD	DIA	Section Type	Auto
	(m)	(m)	(1:X)	(ha)	(mins)	Flow (l/s)	(mm)	SECT	(mm)		Design
1.000	14.220	0.050	284.4	0.000	5.00	0.0	0.600	0	300	Pipe/Conduit	•
1.001	69.482	0.183	379.7	0.341	0.00	0.0	0.600	0	450	Pipe/Conduit	Ā
1.002	27.875	0.063	442.5	0.131	0.00	0.0	0.600	0	500	Pipe/Conduit	ē
2.000	12.532	0.001	12532.0	0.000	5.00	0.0	0.600	Q70	-6	Pipe/Conduit	a
2.001	101.664	0.011	9242.2	0.000	0.00	0.0	0.600	Q70	-б	Pipe/Conduit	ð
3.000	13.986	0.001	13986.0	0.000	5.00	0.0	0.600	Q70	-6	Pipe/Conduit	a
3.001	53.042	0.005	10608.4	0.000	0.00	0.0	0.600	Q70	-б	Pipe/Conduit	ě
3.002	23.098	0.002	11549.0	0.000	0.00	0.0	0.600	Q70	-б	Pipe/Conduit	ð
2.002	12.528	0.060	208.8	0.753	0.00	0.0	0.600	0	600	Pipe/Conduit	0
1.003	32.766	0.066	496.5	0.000	0.00	0.0	0.600	0	600	Pipe/Conduit	0
1.004	23.389	0.047	497.6	0.158	0.00	0.0	0.600	0	600	Pipe/Conduit	Ā

Network Results Table

PN	Rain	T.C.	US/IL	Σ I.Area	Σ Base	Foul	Add Flow	Vel	Cap	Flow
	(mm/hr)	(mins)	(m)	(ha)	Flow (l/s)	(l/s)	(1/s)	(m/s)	(l/s)	(l/s)
1 000	02 61	F DC		0 000	0 0	0 0	0 0	0 0 2		0 0
1.000	83.01	5.20	5.950	0.000	0.0	0.0	0.0	0.93	05.5	0.0
1.001	76.70	6.37	5.843	0.341	0.0	0.0	0.0	1.04	165.0	70.8
1.002	74.26	6.82	5.614	0.471	0.0	0.0	0.0	1.03	201.5	94.8
2.000	78.40	6.08	5.660	0.000	0.0	0.0	0.0	0.19	48.5	0.0
2.001	51.56	13.52	5.659	0.000	0.0	0.0	0.0	0.23	56.9	0.0
3.000	77.27	6.27	5.660	0.000	0.0	0.0	0.0	0.18	45.8	0.0
3.001	59.69	10.44	5.659	0.000	0.0	0.0	0.0	0.21	53.0	0.0
3.002	54.35	12.34	5.654	0.000	0.0	0.0	0.0	0.20	50.7	0.0
2.002	51.28	13.64	5.511	0.753	0.0	0.0	0.0	1.68	475.4	104.6
1.003	50.20	14.15	5.451	1.224	0.0	0.0	0.0	1.09	307.1	166.4
1.004	49.46	14.51	5.385	1.382	0.0	0.0	0.0	1.08	306.7	185.0

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Camden Mill	The Peoples Project	
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Bath	North East (NE) Network	Micro
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Innovyze	Network 2019.1	

Network Design Table for SW NE

PN	Length (m)	Fall (m)	Slope (1:X)	I.Area (ha)	T.E. (mins)	Base Flow (l/s)	k (mm.)	HYD SECT	DIA (mm)	Section Type	Auto Design
1.005	62.559	0.083	753.7	0.061	0.00	0.0	0.600	0	750	Pipe/Conduit	0
4.000	9.295	0.015	619.7	0.785	5.00	0.0	0.600	0	500	Pipe/Conduit	A
4.001	85.165	0.168	506.9	0.000	0.00	0.0	0.600	0	600	Pipe/Conduit	ŏ
5.000	6.856	0.045	152.4	0.709	5.00	0.0	0.600	0	500	Pipe/Conduit	٥
4.002	23.516	0.025	940.6	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	A
4.003	22.080	0.052	424.6	0.000	0.00	0.0	0.600	00	500	Double Pipe	Ă
4.004	8.525	0.016	532.8	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ā
4.005	8.027	0.016	501.7	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ä
4.006	8.027	0.016	501.7	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	ē
1.006	83.261	0.111	750.1	0.040	0.00	0.0	0.600	0	750	Pipe/Conduit	8
1.007	59.103	0.079	748.1	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ä
1.008	59.997	0.080	750.0	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	- Ā
1.009	43.802	0.058	755.2	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	á
1.010	7.755	0.010	775.5	0.041	0.00	0.0	0.600	0	750	Pipe/Conduit	Ā
1.011	8.199	0.017	482.3	0.000	0.00	0.0	0.600	0	750	Pipe/Conduit	Ā

Network Results Table

PN	Rain (mm/hr)	T.C. (mins)	US/IL (m)	Σ I.Area (ha)	Σ Base Flow (l/s)	Foul (l/s)	Add Flow (1/s)	Vel (m/s)	Cap (1/s)	Flow (l/s)
1.005	47.46	15.54	5.338	1.443	0.0	0.0	0.0	1.01	446.9	185.4
4.000	84.14	5.18	5.900	0.785	0.0	0.0	0.0	0.87	169.9«	178.9
5.000	84.94	5.07	5.800	0.709	0.0	0.0	0.0	1.76	345.1	163.0
4.002	73.70	6.93	5.511	1.494	0.0	0.0	0.0	0.90	399.4	298.2
4.003	71.96	7.28	5.455 5.403	1.494	0.0	0.0	0.0	1.05	411.5	298.2
4.005	70.39	7.62	5.271	1.494	0.0	0.0	0.0	1.24	548.9	298.2
1.006	45.09 43.56	16.91 17.88	5.255 5.144	2.977	0.0	0.0	0.0	1.01	447.9 448.5	363.4 363.4
1.008	42.13	18.86	5.065	2.977	0.0	0.0	0.0	1.01	448.0	363.4
1.010	41.14 40.97	19.58 19.71	4.985 4.927	2.977 3.018	0.0	0.0	0.0	1.01	446.4 440.5	363.4 363.4
1.011	40.83	19.82	4.917	3.018	0.0	0.0	0.0	1.27	560.0	363.4

Surcharged Outfall Details for SW_NE

Outfall Pipe Number	Outfall Name	C. Level I. (m)	Level (m)	Min I. Level (m)	D,L (mm)	W (mm)
1.011	Under Bridge	7.198	4.900	4.700	1500	0
	Datum (m)	0.000 Offse	t (mins) 0		

		-			
BuroHappold Ltd					
Camden Mill	The Peoples Project				
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Bath	North East (NE) Network	Micro			
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Surcharged Outfall Details for SW NE

Time Depth (mins) (m)

1440 5.530

BuroHappo	ld Ltd							Pag	e 4
Camden Mi	11			Tł	ne Peoples Pr	roject			
Lower Bris	stol Road			SV	I Calcs Surg	harged Outfa	lls	N.y	-
Bath				Nc	orth East (Ni	E) Network			Page 1
Date 17/1	2/2020 17	:02		De	signed by M	att Redfern		<u>N</u>	
Eile CW N		01017 MDV			adred by M				rainage
FILE SW_N	etworks_2	UIZI/.MDX			LECKED DY NIC	CK HAII		1740 L	
Innovyze				Ne	etwork 2019.	L			
<u>2 year</u>	Return P	eriod Summ	mary of	Criti	cal Results	by Maximum I	evel (Rank	: 1) for	<u>: SW NE</u>
Num	Manhole Foul S Wher of Inpu	Areal Redu Hot Hot Star Headloss Co Sewage per h	action F Start (ct Level beff (Gl hectare bhs 0	Simu actor 1. mins) (mm) obal) 0. (1/s) 0. Number c	Ilation Criteri 0 Addition 0 MADE 0 500 Flow per F 000 f Offline Cont	<u>a</u> lal Flow - % of Factor * 10m ³ Inlet C Person per Day rols 0 Number	Total Flow /ha Storage coeffiecient (l/per/day) of Time/Area	0.000 2.000 0.800 0.000	ns O
N	Jumber of Or	nline Contro	ols O Nu	mber of	Storage Struct	ures 1 Number	of Real Time	e Control	.s 0
				Synthet:	ic Rainfall De	tails_			
		Rainfall M	odel			FEH Data	Type Catchm	ent	
	FEH R	Site Loca	sion GB	333750	392800 S.T 33750	2013 CV (Sui 92800 Cv (Wii	mmer) 0.	750 840	
		bitte hotta	CION OD	555750		0 92000 00 (111		010	
	M	Margin for F	lood Ris	sk Warnin	ng (mm)		300.0		
			Ana	alysis T	imestep 2.5 Se	cond Increment	(Extended)		
				DTS	Status		OFF		
				DVD	Status		ON		
				Illertia	Status		OFF		
		Profi	ile(s)	15 20	60 100 100	240 260 40	Summer and W	linter	
	D	uration(s)	(mins)	15, 30	, 60, 120, 180	, 240, 360, 48	0, 600, 720,	960, 1440	
	Return	Period(s) (vears)				2, 30	, 100	
	C	limate Chang	ge (%)				0,	0, 40	
									Water
	US/MH		Return	Climate	First (X)	First (Y)	First (Z) C	verflow	Level
PN	Name	Storm	Period	Change	Surcharge	Flood	Overflow	Act.	(m)
1.000	SWMH01	15 Winter	2	+0%	100/15 Summer	100/30 Winter			6.005
1.001	SWMH02	15 Winter	2	+0%	100/15 Summer	100,00 111001			6.006
1.002	SWMH03	15 Winter	2	+0%	100/15 Summer				5.841
2.000	QMAX IC01	15 Winter	2	+0%	100/15 Summer	100/15 Winter			5.810
2.001	QMAX IC02	15 Winter	2	+0%	100/15 Summer	100/30 Winter			5.810
3.000	QMAX IC03	15 Winter	2	+0%	100/15 Summer				5.805
3.001	QMAX IC04	15 Winter	2	+0%	100/15 Summer	100/15 Winter			5.805
3.002	SMMIUCE	15 Winter	2	+U% ±NS	30/30 Wintor	100/15 Winter			5 810
1.003	SWMH04	15 Winter	∠ 2	+0%	100/15 Summer	TOOLTO MILLCEL			5.796
1.004	SWMH06	15 Winter	2	+0%	100/15 Summer				5.732
1.005	SWMH07	30 Winter	2	+0%	100/15 Summer				5.691
4.000	SWMH08	15 Winter	2	+0%	30/15 Summer				6.377
4.001	SWMH09	15 Winter	2	+0%	30/15 Winter				6.113
5.000	SWMH10	15 Winter	2	+0%	30/15 Summer	100/15 Winter			6.058
4.002	SWMHII	⊥5 Winter	2	+0%	30/15 Summer				0.045

2 +0% 30/15 Summer

+0% 100/15 Summer

+0% 100/15 Summer

2 +0% 100/15 Summer 2 +0% 100/15 Summer 2 +0% 100/15 Summer

2

2

 30 Winter
 2
 +0% 100/15 Summer

 1440 Winter
 2
 +0% 100/15 Winter

2 +0% 100/15 Summer 100/15 Winter

5.876

5.829

5.670

5.661

5.652

5.549

5.470

5.395

5.327

5.315

15 Winter 30 Winter

30 Winter

30 Winter

30 Winter

SWMH13 15 Winter

SWMH21 1440 Winter

4.003

4.004

4.005

4.006

1.006

1.007

1.009

1.010

1.011

1.008

SWMH14

RWHT

SWMH15

SWMH16

SWMH17

SWMH18

SWMH19

SWMH20

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Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	E.
Bath	North East (NE) Network	Micco
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File SW_Networks_201217.MDX	Checked by Nick Hall	Diamage
Innovyze	Network 2019.1	

2 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW NE

		Surcharged	Flooded			Pipe		
	US/MH	Depth	Volume	Flow /	Overflow	Flow		Level
PN	Name	(m)	(m ³)	Cap.	(l/s)	(l/s)	Status	Exceeded
1.000	SWMH01	-0.245	0.000	0.00		0.2	OK	1
1.001	SWMH02	-0.287	0.000	0.27		41.4	OK	
1.002	SWMH03	-0.273	0.000	0.31		52.1	OK	
2.000	QMAX IC01	-0.550	0.000	0.00		0.4	OK	4
2.001	QMAX IC02	-0.549	0.000	0.00		0.9	OK	1
3.000	QMAX IC03	-0.555	0.000	0.00		0.3	OK	
3.001	QMAX IC04	-0.554	0.000	0.01		1.1	OK	5
3.002	QMAX IC05	-0.549	0.000	0.03		4.2	OK	1
2.002	SWMH05	-0.301	0.000	0.23		74.7	OK	5
1.003	SWMH04	-0.255	0.000	0.49		123.5	OK	
1.004	SWMH06	-0.253	0.000	0.58		134.8	OK	
1.005	SWMH07	-0.397	0.000	0.31		122.5	OK	
4.000	SWMH08	-0.023	0.000	1.09		113.0	OK	
4.001	SWMH09	-0.272	0.000	0.37		104.9	OK	
5.000	SWMH10	-0.242	0.000	0.51		106.0	OK	1
4.002	SWMH11	-0.216	0.000	0.87		181.3	OK	
4.003	SWMH13	-0.079	0.000	0.52		172.7	OK	
4.004	SWMH14	-0.324	0.000	0.63		171.2	OK	3
4.005	RWHT	-0.351	0.000	0.32		90.5	OK	
4.006	SWMH15	-0.360	0.000	0.32		90.4	OK	
1.006	SWMH16	-0.353	0.000	0.45		179.2	OK	
1.007	SWMH17	-0.345	0.000	0.43		166.0	OK	
1.008	SWMH18	-0.345	0.000	0.40		156.5	OK	
1.009	SWMH19	-0.340	0.000	0.40		149.3	OK	
1.010	SWMH20	-0.350	0.000	0.51		147.8	OK	
1.011	SWMH21	-0.352	0.000	0.25		68.5	OK	

-	appold Lt	d							Pag	е б
Camder	n Mill				The Peop	les Project				
Lower	Bristol	Road			SW Calcs	Surgharged	Outfalls			
Bath					North Ea	st (NE) Netw	vork		N	licco
Date 3	17/12/202	0 17:02			Designed	by Matt Red	lfern		- H	cainago
File :	SW_Networ	ks_20121	7.MDX		Checked	by Nick Hall				lalliaye
Innov	yze				Network	2019.1				
30	year Ret	urn Peric Are H nhole Head	al Reduc Hot S loss Coe	nary of Start (m: t Level eff (Glo)	<u>Simulation (</u> tor 1.000 A ins) 0 (mm) 0 pal) 0.500 Flor	<u>Sults by Max</u> <u>Criteria</u> dditional Flow MADD Factor w per Person p	- % of Tot * 10m³/ha Inlet Coeff er Day (1/g	al (Rank al Flow 0 Storage 2 Siecient 0 per/day) 0	<u>1) fo</u> .000 .000 .800 .000	<u>r SW NE</u>
	Number of Number	f Input Hyd of Online	e per ne drograph Control	ns 0 N Ls 0 Numi	umber of Offlin Der of Storage	ne Controls 0 : Structures 1 :	Number of 7 Number of F	Time/Area Real Time	Diagram Control	ns 0 .s 0
		Doir	foll Me	dol	Synthetic Rainf	all Details	Data m-	o Cotobro	at	
		FEH Rainfa Sit	all Vers Locat	ion ion GB 3	33750 392800 s	FEH 2013 J 33750 92800	Cv (Summer Cv (Winter) 0.7) 0.8	50 40	
		Margin	n for Fl	.ood Risk	Warning (mm)			300.0		
				Anal	ysis Timestep	2.5 Second Inc	rement (Ex	tended)		
					DTS Status			OFF		
				I	DVD Status nertia Status			ON		
				-	norora boadab			011		
			Drofi	10(g)			Cumm	or and Wi	ntor	
		Durati	on(s) (mins)	15, 30, 60, 1	20, 180, 240, 3	360, 480, 6	00, 720,	960,	
									1440	
	Re	turn Peric	od(s) (y	ears)				2, 30,	100	
		alimat						0 0	10	
		Climat	e chang	e (%)				0, 0	, 40	
		Climat	e chang	e (*)				0, 0	, 40	
	IIS/MH	Climat	Return	e (%)	First (X)	First (Y)	First (Z)	0, 0 Overflow	, 40 Water	Surcharged
PN	US/MH Name	Climat Storm	Return Period	e (%) Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	0, 0 Overflow Act.	, 40 Water Level (m)	Surcharged Depth (m)
PN	US/MH Name	Climat Storm	Return Period	e (%) Climate Change	First (X) Surcharge	First (Y) Flood	First (Z) Overflow	0, 0 Overflow Act.	, 40 Water Level (m)	Surcharged Depth (m)
PN 1.000 1.001	US/MH Name SWMH01 SWMH02	Climat Storm 60 Winter 60 Winter	Return Period 30 30	e (%) Climate Change +0% +0%	First (X) Surcharge 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171</pre>	Surcharged Depth (m) -0.079 -0.122
PN 1.000 1.001 1.002	US/MH Name SWMH01 SWMH02 SWMH03	Storm 60 Winter 60 Winter 60 Winter	Return Period 30 30 30	e (%) Climate Change +0% +0% +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114</pre>	Surcharged Depth (m) -0.079 -0.122 0.000
PN 1.000 1.001 1.002 2.000	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01	Storm 60 Winter 60 Winter 60 Winter 60 Winter	Return Period 30 30 30 30	e (%) Climate Change +0% +0% +0% +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248
PN 1.000 1.001 1.002 2.000 2.000	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 OMAX IC02	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter	Return Period 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.112</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 0.247
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC04	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter	Return Period 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.249
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.111</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002	US/MH Name SWH01 SWH02 SWH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC03 QMAX IC05 SWH05	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30	<pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre>	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/30 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.111</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003	US/MH Name SWH01 SWH02 SWH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC03 QMAX IC05 SWH05 SWH04	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 60 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	<pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre>	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/30 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.111 6.112 6.051</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001 0.000
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.004	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH05 SWMH04 SWMH06	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 20 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 30/30 Winter 100/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/30 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.111 6.112 6.051 5.985 5.022</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001 0.000 0.000 0.000
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.005 4.000	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH05 SWMH06 SWMH06 SWMH08	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 30 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/30 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.111 6.112 6.051 5.985 5.932 6.516</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001 0.000 0.000 -0.156 0.116
PN 1.000 1.001 1.002 2.000 2.000 3.000 3.002 2.002 1.003 1.004 1.005 4.000 4.001	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH05 SWMH05 SWMH06 SWMH08 SWMH08	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC02 QMAX IC03 QMAX IC05 SWMH05 SWMH05 SWMH06 SWMH08 SWMH09 SWMH10	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 15 Winter 15 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC03 QMAX IC05 SWMH05 SWMH05 SWMH06 SWMH07 SWMH08 SWMH09 SWMH10 SWMH11	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 15 Winter 15 Winter 15 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	<pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre>	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061 0.020
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002 4.003	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC03 QMAX IC05 SWMH05 SWMH05 SWMH06 SWMH08 SWMH09 SWMH10 SWMH11 SWMH13	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 15 Winter 15 Winter 15 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281 6.281 6.230</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061 0.020 0.275
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002 4.002 4.003	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH05 SWMH05 SWMH06 SWMH07 SWMH08 SWMH09 SWMH10 SWMH13 SWMH14	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 20 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer	First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281 6.281 6.230 6.153 5.932</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061 0.020 0.275 0.000
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002 4.003 4.004 4.005 4.005	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH04 SWMH05 SWMH06 SWMH06 SWMH09 SWMH09 SWMH10 SWMH13 SWMH14 RWHT	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 15 Winter 15 Winter 15 Winter 15 Winter 30 Winter 30 Winter 30 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	<pre>First (Y) Flood 100/30 Winter 100/15 Winter</pre>	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281 6.230 6.153 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.896 5.88</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061 0.020 0.275 0.000 -0.125 -0.130
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002 4.003 4.004 4.005 4.006 1.006	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH05 SWMH05 SWMH05 SWMH07 SWMH07 SWMH07 SWMH08 SWMH07 SWMH10 SWMH11 SWMH13 SWMH14 RWHT SWMH15 SWMH16	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 15 Winter 15 Winter 15 Winter 15 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge 100/15 Summer 30/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	<pre>First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281 6.230 6.153 5.896 5.882 5.867</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061 0.020 0.275 0.000 -0.125 -0.139 -0.138
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002 4.003 4.004 4.005 4.006 1.006 1.007	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH05 SWMH05 SWMH06 SWMH06 SWMH07 SWMH08 SWMH09 SWMH09 SWMH10 SWMH11 SWMH13 SWMH14 RWHT SWMH15 SWMH16 SWMH17	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 15 Winter 15 Winter 15 Winter 15 Winter 30 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge 100/15 Summer 30/15 Summer 100/15 Summer	<pre>First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281 6.230 6.153 5.896 5.882 5.867 5.771</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061 0.020 0.275 0.000 -0.125 -0.139 -0.138 -0.123
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002 4.003 4.004 4.005 4.006 1.006 1.007 1.008	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC02 QMAX IC03 QMAX IC05 SWMH05 SWMH05 SWMH05 SWMH06 SWMH06 SWMH09 SWMH09 SWMH09 SWMH10 SWMH11 SWMH13 SWMH14 RWHT SWMH15 SWMH16 SWMH17 SWMH18	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 70 Winter 70 Winter 70 Winter 75 Winter 75 Winter 75 Winter 75 Winter 75 Winter 75 Winter 70 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%	First (X) Surcharge 100/15 Summer 30/15 Summer 100/15 Summer	<pre>First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.111 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281 6.230 6.153 5.896 5.882 5.867 5.771 5.680</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061 0.020 0.275 0.000 -0.125 -0.139 -0.138 -0.123 -0.135
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.001 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002 4.003 4.004 4.005 4.006 1.006 1.007 1.008 1.009	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH05 SWMH05 SWMH05 SWMH06 SWMH07 SWMH08 SWMH09 SWMH09 SWMH09 SWMH09 SWMH10 SWMH11 SWMH13 SWMH14 RWHT SWMH15 SWMH16 SWMH17 SWMH18 SWMH19	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 10 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	<pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre>	First (X) Surcharge 100/15 Summer 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer	<pre>First (Y) Flood 100/30 Winter 100/15 Winter 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281 6.230 6.153 5.896 5.882 5.867 5.771 5.680 5.587</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001 0.000 0.000 -0.156 0.116 0.005 0.061 0.020 0.275 0.000 -0.125 -0.139 -0.138 -0.123 -0.135 -0.148
PN 1.000 1.001 1.002 2.000 2.001 3.000 3.002 2.002 1.003 1.004 1.005 4.000 4.001 5.000 4.002 4.003 4.004 4.005 4.006 1.007 1.008 1.009 1.010	US/MH Name SWMH01 SWMH02 SWMH03 QMAX IC01 QMAX IC02 QMAX IC03 QMAX IC04 QMAX IC05 SWMH04 SWMH05 SWMH06 SWMH06 SWMH06 SWMH06 SWMH08 SWMH08 SWMH09 SWMH08 SWMH09 SWMH10 SWMH11 SWMH13 SWMH14 RWHT SWMH15 SWMH16 SWMH17 SWMH18 SWMH19 SWMH20	Storm 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 60 Winter 30 Winter 30 Winter 30 Winter 15 Winter 15 Winter 15 Winter 15 Winter 15 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter	Return Period 30 30 30 30 30 30 30 30 30 30 30 30 30	<pre>e (%) Climate Change +0% +0% +0% +0% +0% +0% +0% +0% +0% +0%</pre>	First (X) Surcharge 100/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 30/15 Summer 100/15 Summer	<pre>First (Y) Flood 100/30 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter 100/15 Winter</pre>	First (Z) Overflow	0, 0 Overflow Act.	<pre>, 40 Water Level (m) 6.171 6.171 6.114 6.112 6.112 6.111 6.112 6.111 6.111 6.112 6.051 5.985 5.932 6.516 6.390 6.361 6.281 6.230 6.361 6.281 6.230 6.153 5.896 5.882 5.867 5.771 5.680 5.587 5.781 5.680 5.472</pre>	Surcharged Depth (m) -0.079 -0.122 0.000 -0.248 -0.247 -0.249 -0.248 -0.243 0.001 0.000 -0.156 0.116 0.005 0.061 0.020 0.275 0.000 -0.125 -0.139 -0.138 -0.123 -0.135 -0.148 -0.181 -0.191

BuroHappold Ltd		Page 7
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	See 1
Bath	North East (NE) Network	Micco
Date 17/12/2020 17:02	Designed by Matt Redfern	Dcainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	

30 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW NE

PN	US/MH Name	Flooded Volume (m³)	Flow / Cap.	Overflow (1/s)	Pipe Flow (l/s)	Status	Level Exceeded
1 000	CMMU01	0 000	0 01		0 6	OF	1
1 001	SWMH01	0.000	0.01		55 8	OK	T
1 002	SMMH03	0.000	0.30		70 1	OK OK	
2 000	OMAX TC01	0.000	0.12		0 7	OK OK	4
2.000	OMAX ICO1	0.000	0.00		3 2	OK OK	1
3 000	OMAX ICO3	0.000	0.02		0.6	OK	1
3.001	OMAX TC04	0.000	0.02		3.2	OK	5
3.002	OMAX TC05	0.000	0.10		12.6	OK	1
2.002	SWMH05	0.000	0.37		118.5	SURCHARGED	5
1.003	SWMH04	0.000	0.63		159.9	OK	-
1.004	SWMH06	0.000	1.00		231.4	OK	
1.005	SWMH07	0.000	0.59		230.3	OK	
4.000	SWMH08	0.000	2.32		241.0	SURCHARGED	
4.001	SWMH09	0.000	0.80		223.3	SURCHARGED	
5.000	SWMH10	0.000	1.02		211.7	SURCHARGED	1
4.002	SWMH11	0.000	1.97		410.1	SURCHARGED	
4.003	SWMH13	0.000	1.18		392.0	SURCHARGED	
4.004	SWMH14	0.000	1.44		393.0	OK	3
4.005	RWHT	0.000	0.78		221.5	OK	
4.006	SWMH15	0.000	0.78		220.8	OK	
1.006	SWMH16	0.000	0.91		366.2	OK	
1.007	SWMH17	0.000	0.85		329.5	OK	
1.008	SWMH18	0.000	0.79		307.0	OK	
1.009	SWMH19	0.000	0.80		295.2	OK	
1.010	SWMH20	0.000	1.02		294.1	OK	
1.011	SWMH21	0.000	1.05		294.2	OK	

BuroHa	appold Lt	d							Pag	e 8
Camder	n Mill				The Peop	les Project			2	
Lower	Bristol	Road			SW Calcs	Surgharged	Outfalls		1	
Bath					North Ea	ast (NE) Netw	vork		N	licito
Date 1	7/12/202	0 17:02			Designed	l by Matt Rec	lfern			cainanna
File S	SW_Networ	ks_20121	7.MDX		Checked	by Nick Hall	_		Ľ	lallidye
Innovy	ze				Network	2019.1				
<u>100</u>	year Ret	urn Peri	od Sum.	mary of	Critical R	esults by Ma	ximum Leve	el (Rank	1) fc	or SW NE
	Mai :	Are H nhole Head Foul Sewag	al Reduc Hot S ot Start loss Coe e per he	ction Fac Start (mi t Level (eff (Glok ectare (]	Simulation tor 1.000 A mm) 0 mm) 0 pal) 0.500 Flc /s) 0.000	<u>Criteria</u> dditional Flow MADD Factor w per Person p	- % of Tot. * 10m³/ha Inlet Coeff er Day (1/p	al Flow 0 Storage 2 iecient 0 er/day) 0	.000 .000 .800 .000	- 0
	Number	of Online	Control	ls 0 Numb	per of Storage	Structures 1	Number of R	eal Time (Control	s 0
		Rain FEH Rainfa Sit	nfall Mo all Vers te Locat	del ion ion GB 3	<u>ynthetic Rain</u> 33750 392800 \$	Eall Details FEH 2013 GJ 33750 92800	Data Type Cv (Summer) Cv (Winter)	e Catchmer 0.75 0.84	nt 50 10	
		Margin	n for Fl	ood Risk. Anal I	Warning (mm) ysis Timestep DTS Status DVD Status nertia Status	2.5 Second Inc	rement (Ext	300.0 ended) OFF ON OFF		
	Re	Durati turn Peric Climat	Profi ion(s) (od(s) (y ce Chang	le(s) mins) ears) e (%)	15, 30, 60, 1	20, 180, 240, 3	Summa 360, 480, 60	er and Wir 20, 720, 9 2, 30, 0, 0,	nter 960, 1440 100 , 40	
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)
1.000	SWMH01	30 Winter	100	+40%	100/15 Summer	100/30 Winter			6.696	0.446
1.001	SWMH02	30 Winter	100	+40%	100/15 Summer				6.770	0.477
1.002	SWMH03	30 Summer	100	+40%	100/15 Summer	100/15			6.670	0.556
2.000	QMAX ICUI	30 Winter	100	+40% +40%	100/15 Summer	100/15 Winter			6.614 6.615	0.254
3.000	QMAX IC03	30 Winter	100	+40%	100/15 Summer	100,00 11001			6.605	0.245
3.001	QMAX IC04	30 Winter	100	+40%	100/15 Summer	100/15 Winter			6.605	0.246
3.002	QMAX IC05	30 Winter	100	+40%	100/15 Summer	100/30 Winter			6.617	0.263
2.002	SWMH05	30 Winter	100	+408 +408	30/30 Winter $100/15$ Summer	100/15 Winter			6.638	0.527
1.004	SWMH06	30 Summer	100	+40%	100/15 Summer				6.613	0.628
1.005	SWMH07	30 Winter	100	+40%	100/15 Summer				6.568	0.480
4.000	SWMH08	15 Winter	100	+40%	30/15 Summer				7.483	1.083
4.001	SWMHU9 SWMH10	15 Winter	100	+40% +40%	30/15 Winter	100/15 Winter			7.131	0.746
4.002	SWMH11	15 Winter	100	+40%	30/15 Summer	TOOLTO WINCEL			6.792	0.531
4.003	SWMH13	30 Winter	100	+40%	30/15 Summer				6.733	0.778
4.004	SWMH14	30 Winter	100	+40%	100/15 Summer	100/15 Winter			6.607	0.454
4.005	RWHT	30 Winter	100	+40%	100/15 Summer				6.586	0.565
<u> </u>	CIMMIT F	30 Minton	100	⊥ / ∩ °-	100/15 Cumman				6 560	0 547
4.006	SWMH15 SWMH16	30 Winter 30 Winter	100 100	+40% +40%	100/15 Summer 100/15 Summer				6.568 6.539	0.547
4.006	SWMH15 SWMH16 SWMH17	30 Winter 30 Winter 30 Winter	100 100 100	+40% +40% +40%	100/15 Summer 100/15 Summer 100/15 Summer				6.568 6.539 6.349	0.547 0.534 0.455
4.008 1.006 1.007 1.008	SWMH15 SWMH16 SWMH17 SWMH18	30 Winter 30 Winter 30 Winter 30 Winter	100 100 100 100	+40% +40% +40% +40%	100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer				6.568 6.539 6.349 6.220	0.547 0.534 0.455 0.405
4.008 1.006 1.007 1.008 1.009	SWMH15 SWMH16 SWMH17 SWMH18 SWMH19	30 Winter 30 Winter 30 Winter 30 Winter 30 Winter	100 100 100 100 100	+40% +40% +40% +40%	100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer				6.568 6.539 6.349 6.220 6.059	0.547 0.534 0.455 0.405 0.324
4.006 1.006 1.007 1.008 1.009 1.010 1.011	SWMH15 SWMH16 SWMH17 SWMH18 SWMH19 SWMH20 SWMH21	30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter 30 Winter	100 100 100 100 100 100 100	+40% +40% +40% +40% +40% +40% +40%	100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Summer 100/15 Winter				6.568 6.539 6.349 6.220 6.059 5.913 5.763	0.547 0.534 0.455 0.405 0.324 0.236 0.096

BuroHappold Ltd		Page 9
Camden Mill	The Peoples Project	
Lower Bristol Road	SW Calcs Surgharged Outfalls	Sec. 1
Bath	North East (NE) Network	Micco
Date 17/12/2020 17:02	Designed by Matt Redfern	Dcainago
File SW_Networks_201217.MDX	Checked by Nick Hall	Diamaye
Innovyze	Network 2019.1	•

100 year Return Period Summary of Critical Results by Maximum Level (Rank 1) for SW NE

		Flooded	Flan (0f1	Pipe		T erre l
	US/MH	vorume	FIOW /	(1/-)	FIOW (1 (m))	dh a haan	Devel
PN	Name	(m ³)	Cap.	(1/S)	(1/s)	Status	Exceeded
1.000	SWMH01	9.395	0.82		44.5	FLOOD	1
1.001	SWMH02	0.000	0.90		138.5	FLOOD RISK	
1.002	SWMH03	0.000	1.22		204.9	FLOOD RISK	
2.000	QMAX IC01	11.386	0.29		46.0	FLOOD	4
2.001	QMAX IC02	3.432	0.22		39.7	FLOOD	1
3.000	QMAX IC03	0.000	0.03		4.8	FLOOD RISK*	
3.001	QMAX IC04	29.098	0.25		44.8	FLOOD	5
3.002	QMAX IC05	6.072	0.48		58.2	FLOOD	1
2.002	SWMH05	27.835	0.64		205.8	FLOOD	5
1.003	SWMH04	0.000	1.43		364.2	FLOOD RISK	
1.004	SWMH06	0.000	1.73		400.6	FLOOD RISK	
1.005	SWMH07	0.000	1.07		415.3	SURCHARGED	
4.000	SWMH08	0.000	3.90		406.2	FLOOD RISK	
4.001	SWMH09	0.000	1.36		381.8	FLOOD RISK	
5.000	SWMH10	0.389	1.73		358.1	FLOOD	1
4.002	SWMH11	0.000	3.49		723.7	SURCHARGED	
4.003	SWMH13	0.000	1.86		616.5	SURCHARGED	
4.004	SWMH14	15.053	2.25		613.8	FLOOD	3
4.005	RWHT	0.000	1.52		429.3	FLOOD RISK	
4.006	SWMH15	0.000	1.47		417.3	FLOOD RISK	
1.006	SWMH16	0.000	1.79		722.1	SURCHARGED	
1.007	SWMH17	0.000	1.74		673.5	SURCHARGED	
1.008	SWMH18	0.000	1.65		641.0	SURCHARGED	
1.009	SWMH19	0.000	1.68		619.8	SURCHARGED	
1.010	SWMH20	0.000	2.11		611.0	SURCHARGED	
1.011	SWMH21	0.000	2.17		606.8	SURCHARGED	

Appendix C Drawings



