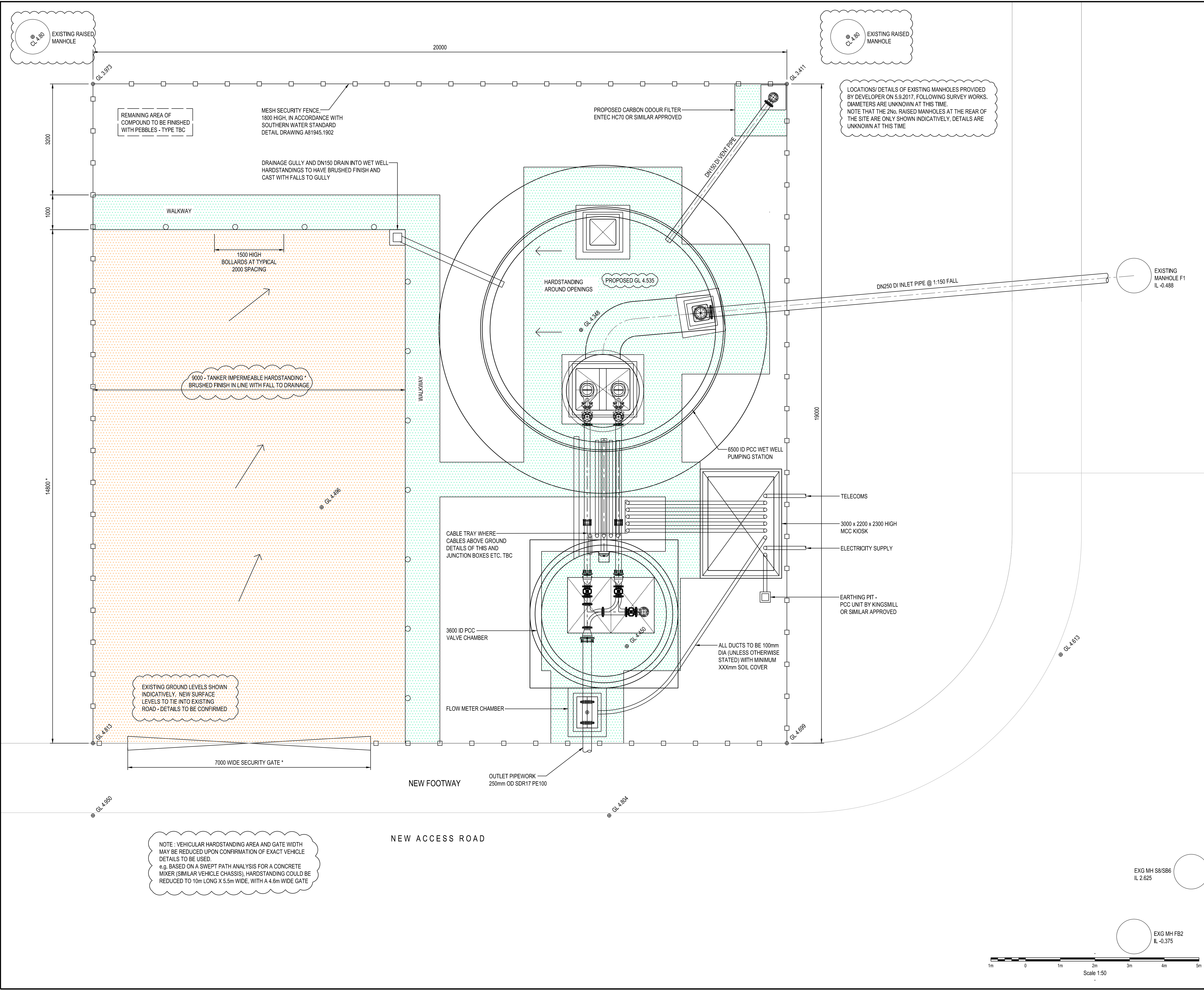




### NOTES

- ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE
- ALL LEVELS ARE IN METRES AND RELATE TO ORDNANCE DATUM UNLESS STATED OTHERWISE
- DO NOT SCALE FROM THIS DRAWING  
DO NOT TAKE DIGITAL DIMENSIONS OFF THIS DRAWING  
WORK TO FIGURED DIMENSIONS ONLY - IF IN DOUBT ASK
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE FOLLOWING DOCUMENTS, UNLESS SPECIFIED OTHERWISE:-
  - THE SPECIFICATION FOR TUNNELLING BTS & ICE 2015
  - SOUTHERN WATER TECHNICAL SPECIFICATION MANUAL CIVIL ENGINEERING REQUIREMENTS:
    - CED 4002
    - CED 4015
    - CED 4023
    - CED 4024
  - SEWERS FOR ADOPTION CESWI 7th EDITION
- FOR CONSTRUCTION METHODOLOGY, REFER TO THE CONTRACTOR'S SPECIFIC METHOD STATEMENT FOR THE WORK
- THE CONTRACTOR IS TO CONFIRM ALL LEVELS AND SETTING OUT PRIOR TO COMMENCEMENT OF THE WORKS
- CONSTRUCTION TOLERANCES IN ACCORDANCE WITH THE 'SPECIFICATION FOR TUNNELLING' BTS & ICE 2010, TABLE 15, SECTION 328, TOLERANCES FOR TUNNELS, SHAFTS AND UNDERGROUND WORKS
- ALL PROPRIETARY PRODUCTS ARE TO BE USED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS
- ACCESS ARRANGEMENTS, PROTECTIVE BARRIERS AND TEMPORARY PLATFORMS ARE TO BE DESIGNED BY OTHERS
- SERVICE DIVERSIONS ARE THE RESPONSIBILITY OF OTHERS

### KEY

PERSONNEL FOOTWAY / HARDSTANDING AREA

VEHICULAR HARDSTANDING

HARDSTANDING DETAILS IN ACCORDANCE WITH SOUTHERN WATER STANDARD DETAILS

### SIGNIFICANT DESIGNER'S IDENTIFIED HAZARDS

|        |                                                   |
|--------|---------------------------------------------------|
| HAZ001 | UNKNOWN GROUND CONDITIONS                         |
| HAZ002 | STRIKING OF BURIED SERVICES                       |
| HAZ010 | INJURY/FATALITY DUE TO WORKING IN CONFINED SPACES |
| HAZ011 | EMERGENCY ACCESS AND EGRESS OF SHAFT              |

- FOR MORE DETAILED INFORMATION ON THE HIGHLIGHTED HAZARDS, REFER TO COWI UK LIMITED DESIGNER'S RISK ASSESSMENT FOR THIS PROJECT.

- 'EVERYDAY' LOW RISK HAZARDS AND THOSE HAZARDS WHICH SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING.

- SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED DURING THE COURSE OF THE WORKS, THE CONTRACTOR SHALL NOTIFY ALL RELEVANT MEMBERS OF THE PROJECT TEAM.

### CURRENT VERSION INFORMATION

|                                                                                      |                      |       |       |       |       |          |
|--------------------------------------------------------------------------------------|----------------------|-------|-------|-------|-------|----------|
| B. KIOSK AND CHAMBERS RELOCATED, PIPEWORK LAYOUT UPDATED, HARDSTANDING AREAS REVISED |                      |       |       |       |       |          |
| B                                                                                    | ISSUED FOR APPROVAL  | NM    | LJP   | AJK   | AJK   | 24.11.17 |
| A                                                                                    | FOR DISCUSSION       | NM    | LJP   | -     | -     | 08.11.17 |
| Rev                                                                                  | Revision Description | Drawn | Des'd | CHK'd | App'd | Date     |

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Kelvin House, RTC Business Park,  
London Road, Derby, DE24 8UP  
Tel: 01332 343800 E-Mail: info\_@cowi.com

Client:

Project:

TODDINGTON LANE RISING MAIN

Title:

SITE LAYOUT

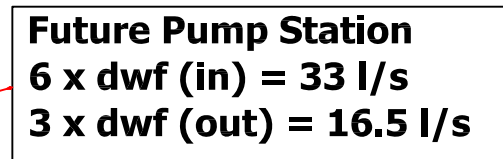
|           |                   |           |
|-----------|-------------------|-----------|
| Drawn by: | Designed by:      | Checked:  |
| NM        | LJP               | AJK       |
| Date:     | Orig. Sheet Size: | Approved: |
| NOV 2017  | A1                | AJK       |
| Scales:   | Status:           |           |
| 1:50      | FOR DISCUSSION    |           |

|                   |          |
|-------------------|----------|
| Drawing No:       | Revision |
| J1534-DRG-C01-004 | B        |

**APPENDIX E: Condition 13, Foul Layout Schematic & Peak Flows**

## Retail

Trade Flow = 0.5 l/sec/Ha of developable area



# 800 DWELLINGS

**APPENDIX F: Condition 10, WSCC Surface Drainage Correspondence**

## Sean Foley

---

**From:** Sean Foley  
**Sent:** 05 March 2018 09:11  
**To:** 'Mark Akmenkalns'  
**Cc:** Tim Townsend; 'Graham, Laura (laura.graham@persimmonhomes.com)'; 'robert.clark@persimmonhomes.com'; Adrian Barnley; Oliver Nevett; 'michael.eastham@arun.gov.uk'; 'David Lambert'; 'Sara McKnight'; 'Edgley, Martin'; 'Edgley, Antony'; 'Adam Winstone'; Paul Stewart  
**Subject:** RE: D1013/00: RES application LU/278/17/RES - SURFACE WATER DRAINAGE - WSCC Response 18-03-05

Mark,

This is very good news and WSCC's acceptance of a Cv value of 0.84 in this instance is most appreciated.

Many thanks

Sean Foley  
Principal Engineer  
Mayer Brown Ltd  
01483 750 508

---

**From:** Mark Akmenkalns [mailto:Mark.Akmenkalns@westsussex.gov.uk]  
**Sent:** 05 March 2018 08:56  
**To:** Sean Foley <sfoley@mayerbrown.co.uk>  
**Cc:** Tim Townsend <tim.townsend@westsussex.gov.uk>  
**Subject:** D1013/00: RES application LU/278/17/RES - SURFACE WATER DRAINAGE - WSCC Response 18-03-05

Sean,

Thank you for reviewing the surface water simulation against the alternative FSR data with a Cv value of 1 (100%). I have reviewed your situation with the WSCC Drainage Team and would confirm the following:

- WSCC have preference to utilise the FEH data (more current day compared to FSR).
- With regards to the Cv we accept your summation and design value of 0.84, in this instance.

In conclusion your initial surface water hydraulic calculations are acceptable.

Please note for future applications the WSCC Drainage Team will always require evidence in support of the selected Cv design value.

Tim – With regards to the uncertainty with the 'future parcels' and the corresponding estimated impermeable area/storage we recommend this is controlled by a bespoke condition.

Any queries please call.

Regards,

|                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><a href="#">Mark Akmenkalns</a>   Infrastructure Engineer (Consultant), Implementation Team, Strategic Planning, Communities and Infrastructure, <a href="#">West Sussex County Council</a><br/>Location: Ground Northleigh, County Hall, Chichester PO19 1RG<br/>Internal: 25753   External: 03302 225753   E-mail: <a href="mailto:mark.akmenkalns@westsussex.gov.uk">mark.akmenkalns@westsussex.gov.uk</a></p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

**From:** Sean Foley [<mailto:sfoley@mayerbrown.co.uk>]  
**Sent:** 01 March 2018 15:30  
**To:** Mark Akmenkalns  
**Subject:** RE: D1013/00: RES application LU/278/17/RES - SURFACE WATER DRAINAGE - WSCC Response 18-02-26

Mark,

I just ran the simulation and it works well when using the FSR rainfall profile. Please see attached results

Some minor flooding that is easily and safely contained within the road network.

It would be fantastic if we could go with this scenario please because there is no uplift in attenuation volume required

Regards,

Sean Foley  
01483 750 508

---

**From:** Mark Akmenkalns [<mailto:Mark.Akmenkalns@westsussex.gov.uk>]  
**Sent:** 01 March 2018 15:10  
**To:** Sean Foley <[sfoley@mayerbrown.co.uk](mailto:sfoley@mayerbrown.co.uk)>  
**Subject:** RE: D1013/00: RES application LU/278/17/RES - SURFACE WATER DRAINAGE - WSCC Response 18-02-26

Sean,

Have you run the Microdrainage simulation to lesser FSR rainfall with a Cv of 1?

Regards,

|                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><a href="#">Mark Akmenkalns</a>   Infrastructure Engineer (Consultant), Implementation Team, Strategic Planning, Communities and Infrastructure, <a href="#">West Sussex County Council</a><br/>Location: Ground Northleigh, County Hall, Chichester PO19 1RG<br/>Internal: 25753   External: 03302 225753   E-mail: <a href="mailto:mark.akmenkalns@westsussex.gov.uk">mark.akmenkalns@westsussex.gov.uk</a></p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

**From:** Sean Foley [<mailto:sfoley@mayerbrown.co.uk>]  
**Sent:** 01 March 2018 14:59  
**To:** Mark Akmenkalns  
**Cc:** Tim Townsend; Graham, Laura ([laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)); [robert.clark@persimmonhomes.com](mailto:robert.clark@persimmonhomes.com); Adrian Barnley; Oliver Nevett; [michael.eastham@arun.gov.uk](mailto:michael.eastham@arun.gov.uk); David Lambert; Sara McKnight; Edgley, Martin; Edgley, Antony; Adam Winstone; Paul Stewart  
**Subject:** RE: D1013/00: RES application LU/278/17/RES - SURFACE WATER DRAINAGE - WSCC Response 18-02-26

Mark,

Thanks for your response and it is good news overland flow information is sufficient.

We'd like to take the opportunity to let WSCC know the development as a whole will provide a significant reduction in the rate and volume of surface water run-off when compared to the pre-demolition undeveloped site that had a hardstanding area of approximately 22 hectares that previously discharged into the black ditch.

Regarding the use of Cv, thanks for sending over what WCSS consider to be supporting evidence. As pointed out in our previous E-mail the suggested WSCC change results in an uplift of approximately £100,000 to the below ground attenuation cost. We expect our Client's finances are not at the top of WSCC's agenda but it is important to emphasise the importance of changing the design parameter of Cv to 1, especially when we consider it unnecessary to do so. I'm sure there are instances when it might be appropriate but we don't believe this is it. We believe the explanation below provides reasonable justification why it is not required for this particular development.

SFA 7<sup>th</sup> Edition

The reference to SFA 7<sup>th</sup> Edition (SFA7) is that “an impermeability of 100% run-off should generally be assumed”. This is not a reference to the design parameter of Cv within the modified rational method. We have actually used 100% impermeability from the roads, parking areas and roofs that we know about – see image below. In the other future development plots we can only apply a % of the development boundary because the layout has not yet been decided.

#### McCloy Susdrain Fact sheet

This is a guidance document produced by an independent firm of Consulting Engineers and our Client feels it is not appropriate to use this document as a justification for Cv on this development.

We believe the document, as the title suggests, is an assessment tool for determining storage volumes. At the early stages of most planning applications we produce “Quick Storage Estimates” (QSE) using Windes and we’re 100% confident WSCC have received many of these QSE estimates when reviewing drainage designs. QSE could be viewed as an “assessment tool” to determine high level volumes to ensure sufficient storage space is available within planning applications.

If, for example, we work out the QSE estimate for our 19 hectare catchment (FEH Rainfall, 19 hectares, 50% impermeability, discharge rate of 15 l/sec/hect, 30% CC) the attenuation volume is up to 5,520m<sup>3</sup>. If we use the less onerous FSR Rainfall the volume is up to 4,750m<sup>3</sup>. 770m<sup>3</sup> difference between FEH & FSR.

We, however, have produced a detailed drainage model that accurately analyses the main sewer within the entire 19 hectare catchment. This has been used to analyse system overloads, storage, reverse flow characteristics, surcharging and backwater effects within the piped network and to accurately determine the attenuation volume. We’ve also used the more onerous **FEH rainfall profile**. Using this detailed model the total volume of attenuation has actually worked out at 5,340m<sup>3</sup> (1,600m<sup>3</sup> for main infrastructure and the remaining 3,830m<sup>3</sup> spread across 12 development parcels.

Our model also does not simply discharge 100% of run-off into the black ditch. It is only the detailed areas that 100% is applied, but a large number of future parcels have not yet been designed yet so we can only apply an estimation of the % impermeability. Below are some images from our model where we’ve applied the total application boundary a future parcels and then applied and percentage impermeability. The total modelled impermeability works out at approximately 58% of total catchment (11.14 Ha within 19 Ha catchment)

| Pipe Number | U S/MH Name    | Pipe Length (m) | Area (ha) | PIMP (%) | Time of Entry (mins) | Base Flow (l/s) | Pipe Rough. (mm) | U S/IL (m) | DS/IL (m) |
|-------------|----------------|-----------------|-----------|----------|----------------------|-----------------|------------------|------------|-----------|
| 13.000      | SW-FUT-01      | 63.816          | 0.275     | 100      | 2.00                 |                 | 0.600            | 2.560      | 2.560     |
| 14.000      | Plots 80-86    | 12.624          | 0.089     | 100      | 2.00                 |                 |                  | 2.550      | 2.550     |
| 15.000      | Plots 87-94    | 7.200           | 0.102     | 100      | 2.00                 |                 | 0.600            | 2.550      | 2.550     |
| 1.013       | SW05           | 37.575          | 0.038     | 100      |                      |                 | 0.600            | 2.150      | 1.150     |
| 16.000      | C2 Resiblock A | 8.659           | 0.358     | 40       | 2.00                 |                 | 0.600            | 2.275      | 2.275     |
| 1.014       | SW06           | 32.449          | 0.036     | 100      |                      |                 | 0.600            | 1.990      | 1.990     |
| 17.000      | SW-FUT-02      | 54.502          | 0.186     | 100      | 2.00                 |                 | 0.600            | 2.320      | 2.320     |
| 18.000      | Plots 60-73    | 7.800           | 0.061     | 100      | 2.00                 |                 | 0.600            | 2.600      | 2.600     |
| 19.000      | Plots 74-78    | 9.600           | 0.071     | 100      | 2.00                 |                 | 0.600            | 2.600      | 2.600     |
| 17.001      | SW07           | 21.498          | 0.011     | 100      |                      |                 | 0.600            | 2.100      | 2.100     |
| 20.000      | Plots 39-46    | 6.005           | 0.080     | 100      | 5.00                 |                 | 0.600            | 3.090      | 2.090     |
| 21.000      | SW-LYM 01      | 24.867          | 0.056     | 100      | 2.00                 |                 | 0.600            | 3.740      | 3.740     |
| 22.000      | Non resi       | 39.317          | 0.810     | 70       | 5.00                 |                 | 0.600            | 4.000      | 3.000     |
| 22.001      | Non resi       | 13.808          | 0.000     | 100      | 5.00                 |                 | 0.600            | 3.720      | 3.720     |
| 21.001      | SW-LYM 02      | 44.896          | 0.045     | 100      |                      |                 | 0.600            | 3.640      | 3.640     |
| 23.000      | Parcel A1      | 39.613          | 1.000     | 60       | 5.00                 |                 | 0.600            | 4.000      | 3.000     |
| 23.001      | As-built SA8   | 28.513          | 0.000     | 100      | 5.00                 |                 | 0.600            | 3.763      | 3.763     |
| 24.000      | Non Resi       | 34.498          | 0.910     | 70       | 5.00                 |                 |                  | 0.000      | 3.000     |
| 24.001      | SW Stub 02     | 5.111           | 0.000     | 100      | 5.00                 |                 |                  | 0.640      | 3.640     |
| 23.002      | SW-LYM 03/1    | 16.877          | 0.000     | 100      | 5.00                 |                 | 0.600            | 3.570      | 3.570     |
| 21.002      | SW-LYM 03      | 25.768          | 0.045     | 100      |                      |                 | 0.600            | 3.350      | 3.350     |

| Pipe Number | DS/MH Name  | DS/CL (m) | Fall (m) | US C.Depth (m) | DS C.Depth (m) | Σ Imp. Area (ha) | Control in USMH | Rain No.                |
|-------------|-------------|-----------|----------|----------------|----------------|------------------|-----------------|-------------------------|
| 30.001      | SW09        | 5.000     | 0.200    | 2.475          | 2.375          | 0.630            | ro-Brake®       | 1                       |
| 31.000      | SW09        | 5.000     | 1.150    | 1.325          | 2.375          | 0.096            |                 | 1                       |
| 32.000      | Stub SW9/2  | 5.100     | 0.200    | 1.950          | 2.150          | 0.224            |                 | 1                       |
| 32.001      | SW09        | 5.000     | 0.100    | 2.375          | 2.375          | 0.224            | ro-Brake®       | 1                       |
| 30.002      | SW16        | 4.640     | 0.300    | 2.375          | 2.315          | 1.034            |                 | 1                       |
| 33.000      | SW13        | 4.020     | 0.110    | 1.305          | 1.115          | 0.071            |                 | 1                       |
| 33.001      | SW14        | 4.020     | 0.160    | 1.115          | 1.275          | 0.142            |                 | 1                       |
| 33.002      | SW15        | 4.600     | 0.290    | 1.275          | 2.145          | 0.213            |                 | 1                       |
| 33.003      | SW16        | 4.640     | 0.130    | 2.070          | 2.240          | 0.284            |                 | 1                       |
| 30.003      | SW17        | 5.000     | 0.300    | 2.240          | 2.900          | 1.386            |                 | 1                       |
| 30.004      | SW21        | 5.000     | 0.140    | 2.750          | 2.890          | 1.386            |                 | 1                       |
| 21.010      | SW22        | 4.300     | 0.030    | 2.440          | 1.770          | 4.814            |                 | 1                       |
| 20.001      | SW23        | 3.900     | 0.135    | 1.770          | 1.505          | 4.958            |                 | 1                       |
| 34.000      | SW23        | 3.900     | 0.100    | 1.275          | 1.175          | 0.080            |                 | 1                       |
| 20.002      | SW24        | 3.710     | 0.085    | 1.505          | 1.400          | 5.058            |                 | 1                       |
| 1.015       | SW25        | 3.600     | 0.130    | 1.400          | 1.420          | 10.910           |                 | 1                       |
| 35.000      | Stub SW25/1 | 3.700     | 0.230    | 1.105          | 1.335          | 0.055            |                 | 1                       |
| 35.001      | SW25        | 3.600     | 0.180    | 1.335          | 1.415          | 0.110            |                 | 1                       |
| 36.000      | SW25        | 3.600     | 0.200    | 1.215          | 1.415          | 0.094            |                 | 1                       |
| 1.016       | Outfall B   | 1.750     | 0.200    | 1.875          | 0.225          | 11.144           | ro-Brake®       | Total m equals a 58% of |

Within the Mcloy document the Author states the following: “it is a usable approximation that can provide acceptable solutions for design. Most of the inputs are based on statistics and calibration factors; therefore we can only ever achieve an approximation of how the system will behave in reality. The results of calculations and modelling need to be used alongside professional judgement to provide the design”

We firmly believe that we have applied sound professional judgement when generating this hybrid model that contains a combination of very detailed development parcels alongside future parcels that have very little design information and, as such, a Cv of 0.84 can continue to be applied.

Our Client wishes to fulfil his planning obligations and conduct his business in a responsible and sustainable manner but feels the unwarranted amendment to the design parameter Cv, on this development, is wasteful of both finance and resource.

With the above in mind we'd be grateful if you could reconsider the use of Cv in this particular scenario.

Regards,

Sean Foley  
Principal Engineer  
Mayer Brown Ltd  
01483 750 508

**From:** Mark Akmenkalns [<mailto:Mark.Akmenkalns@westsussex.gov.uk>]

**Sent:** 26 February 2018 15:55

**To:** Sean Foley <[sfoley@mayerbrown.co.uk](mailto:sfoley@mayerbrown.co.uk)>

**Cc:** Tim Townsend <[tim.townsend@westsussex.gov.uk](mailto:tim.townsend@westsussex.gov.uk)>; Graham, Laura ([laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)) <[laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)>; [robert.clark@persimmonhomes.com](mailto:robert.clark@persimmonhomes.com); Adrian Barnley <[abarnley@mayerbrown.co.uk](mailto:abarnley@mayerbrown.co.uk)>; Oliver Nevett <[onevett@mayerbrown.co.uk](mailto:onevett@mayerbrown.co.uk)>; [michael.eastham@arun.gov.uk](mailto:michael.eastham@arun.gov.uk); David Lambert <[david.lambert@westsussex.gov.uk](mailto:david.lambert@westsussex.gov.uk)>; Sara McKnight <[sara.mcknight@westsussex.gov.uk](mailto:sara.mcknight@westsussex.gov.uk)>; Edgley, Martin <[martin.edgley@persimmonhomes.com](mailto:martin.edgley@persimmonhomes.com)>; Edgley, Antony <[antony.edgley@persimmonhomes.com](mailto:antony.edgley@persimmonhomes.com)>; Adam Winstone <[AdamW@mjaconsulting.co.uk](mailto:AdamW@mjaconsulting.co.uk)>; Paul Stewart <[pstewart@mayerbrown.co.uk](mailto:pstewart@mayerbrown.co.uk)>  
**Subject:** D1013/00: RES application LU/278/17/RES - SURFACE WATER DRAINAGE - WSCC Response 18-02-26

Sean,

Thanks for your response. On review of your response to 4 & 5 I confirm the overland flow evidence is sufficient.

With regards to the Cv criteria I have consulted with the WSCC Drainage Team who have provide two pieces of supporting evidence as follows (see attached):

- SFA7 Extract
- Susdrain/CIRIA fact sheet

In conclusion, as previously advised, the WSCC Drainage Team require a Cv of 1.0 (100% run-off).

Regards,

[Mark Akmenkalns](#) | Infrastructure Engineer (Consultant), Implementation Team, Strategic Planning, Communities and Infrastructure, [West Sussex County Council](#)  
Location: Ground Northleigh, County Hall, Chichester PO19 1RG  
Internal: 25753 | External: 03302 225753 | E-mail: [mark.akmenkalns@westsussex.gov.uk](mailto:mark.akmenkalns@westsussex.gov.uk)

---

**From:** Sean Foley [<mailto:sfoley@mayerbrown.co.uk>]

**Sent:** 23 February 2018 17:49

**To:** Mark Akmenkalns

**Cc:** Tim Townsend; Graham, Laura ([laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)); [robert.clark@persimmonhomes.com](mailto:robert.clark@persimmonhomes.com); Adrian Barnley; Oliver Nevett; [michael.eastham@arun.gov.uk](mailto:michael.eastham@arun.gov.uk); David Lambert; Sara McKnight; Edgley, Martin; Edgley, Antony; Adam Winstone; Paul Stewart

**Subject:** RE: D1013/00: RES application LU/278/17/RES - SURFACE WATER DRAINAGE - WSCC Response 18-02-23

Mark,

Thanks for responding so quickly.

In response to Items 4 & 5 below please find attached a pdf (3 drawings) that shows the route of overland flow in the event of system failure, blockage or overload. I trust this demonstrates that dwellings should be suitably protected in the event of a drainage system failure and resulting overland flow can find its way safely through the road network and into the wetlands.

In response to value to use for Cv. I have been working with Micro Drainage to design and analyse drainage networks for almost 20 years and I have never been asked to apply an a Cv value 1.0 within network simulation. I've also consulted my Colleagues in other offices and they are also in agreement

Regarding the design parameters:

- We've used the more onerous FEH rainfall profiles instead FSR profiles, which is location specific and generates higher rainfall volumes for the long duration storm events when compared to FSR
- We've used the higher default Cv setting of 0.84 instead of 0.75.

If we apply a Cv value of 1.0 the flooding within network increases by approximately 500m3 and the attenuation will need to be increased accordingly, which represents an increase of approximately £100,000 based upon an installation cost of £200/m3. This represents a significant expenditure for our Client, especially when we still feel it is unnecessary. With this in mind we would be grateful if a Cv value of 0.84 can be retained whilst being safe in the knowledge that the system overload can safely overflow into the wetlands

I look forward to your response

Regards,

Sean Foley  
01483 750 508

---

**From:** Mark Akmenkalns [<mailto:Mark.Akmenkalns@westsussex.gov.uk>]  
**Sent:** 23 February 2018 10:14  
**To:** Sean Foley <[sfoley@mayerbrown.co.uk](mailto:sfoley@mayerbrown.co.uk)>  
**Cc:** Tim Townsend <[tim.townsend@westsussex.gov.uk](mailto:tim.townsend@westsussex.gov.uk)>; Graham, Laura ([laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)) <[laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)>; [robert.clark@persimmonhomes.com](mailto:robert.clark@persimmonhomes.com); Adrian Barnley <[abarnley@mayerbrown.co.uk](mailto:abarnley@mayerbrown.co.uk)>; Oliver Nevett <[onevett@mayerbrown.co.uk](mailto:onevett@mayerbrown.co.uk)>; [michael.eastham@arun.gov.uk](mailto:michael.eastham@arun.gov.uk); David Lambert <[david.lambert@westsussex.gov.uk](mailto:david.lambert@westsussex.gov.uk)>; Sara McKnight <[sara.mcknight@westsussex.gov.uk](mailto:sara.mcknight@westsussex.gov.uk)>; Edgley, Martin <[martin.edgley@persimmonhomes.com](mailto:martin.edgley@persimmonhomes.com)>; Edgley, Antony <[antony.edgley@persimmonhomes.com](mailto:antony.edgley@persimmonhomes.com)>  
**Subject:** D1013/00: RES application LU/278/17/RES - SURFACE WATER DRAINAGE - WSCC Response 18-02-23

Sean,

Thank you for your comprehensive email response. My comments as below.

Regards,

|                                                                                                                                                                                                                                                                                                                                                                                                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><a href="#">Mark Akmenkalns</a>   Infrastructure Engineer (Consultant), Implementation Team, Strategic Planning, Communities and Infrastructure, <a href="#">West Sussex County Council</a><br/>Location: Ground Northleigh, County Hall, Chichester PO19 1RG<br/>Internal: 25753   External: 03302 225753   E-mail: <a href="mailto:mark.akmenkalns@westsussex.gov.uk">mark.akmenkalns@westsussex.gov.uk</a></p> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

---

**From:** Sean Foley [<mailto:sfoley@mayerbrown.co.uk>]  
**Sent:** 22 February 2018 19:24  
**To:** Tim Townsend  
**Cc:** Graham, Laura ([laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)); [robert.clark@persimmonhomes.com](mailto:robert.clark@persimmonhomes.com); Adrian Barnley; Oliver Nevett; [michael.eastham@arun.gov.uk](mailto:michael.eastham@arun.gov.uk); David Lambert; Mark Akmenkalns; Sara McKnight; Edgley, Martin; Edgley, Antony  
**Subject:** RE: RES application LU/278/17/RES - SURFACE WATER DRAINAGE

Tim,

Many thanks for your response, which looks quite positive

Below are our responses in red. Happy to discuss

Regards,

Sean Foley  
01483 750 508

Sean Foley,  
Principal Engineer  
Mayer Brown Limited  
Lion House  
Oriental Road  
Woking  
Surrey  
GU22 8AR

T: 01483 750 508  
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---

**From:** Tim Townsend [<mailto:tim.townsend@westsussex.gov.uk>]

**Sent:** 19 February 2018 15:12

**To:** Sean Foley <[sfoley@mayerbrown.co.uk](mailto:sfoley@mayerbrown.co.uk)>

**Cc:** Graham, Laura ([laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)) <[laura.graham@persimmonhomes.com](mailto:laura.graham@persimmonhomes.com)>; [robert.clark@persimmonhomes.com](mailto:robert.clark@persimmonhomes.com); Adrian Barnley <[abarnley@mayerbrown.co.uk](mailto:abarnley@mayerbrown.co.uk)>; Oliver Nevett <[onevett@mayerbrown.co.uk](mailto:onevett@mayerbrown.co.uk)>; [michael.eastham@arun.gov.uk](mailto:michael.eastham@arun.gov.uk); David Lambert <[david.lambert@westsussex.gov.uk](mailto:david.lambert@westsussex.gov.uk)>; Mark Akmenkalns <[Mark.Akmenkalns@westsussex.gov.uk](mailto:Mark.Akmenkalns@westsussex.gov.uk)>; Sara McKnight <[sara.mcknight@westsussex.gov.uk](mailto:sara.mcknight@westsussex.gov.uk)>

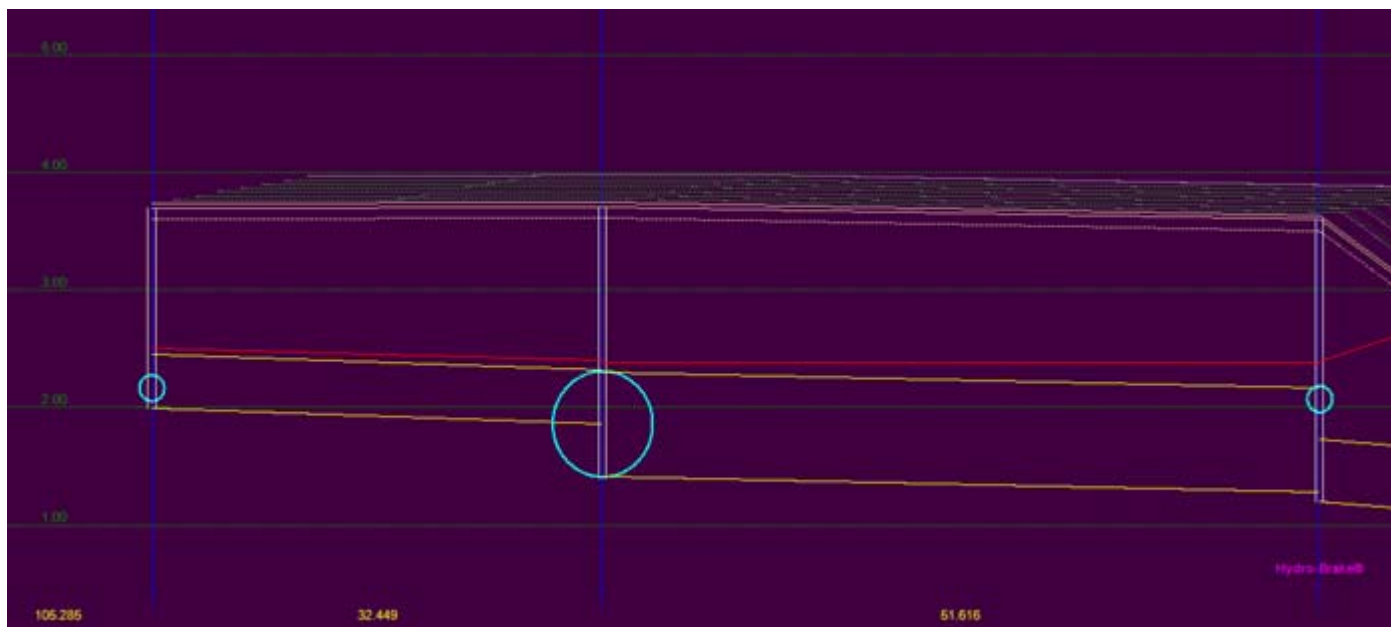
**Subject:** RES application LU/278/17/RES - SURFACE WATER DRAINAGE

Dear Sean,

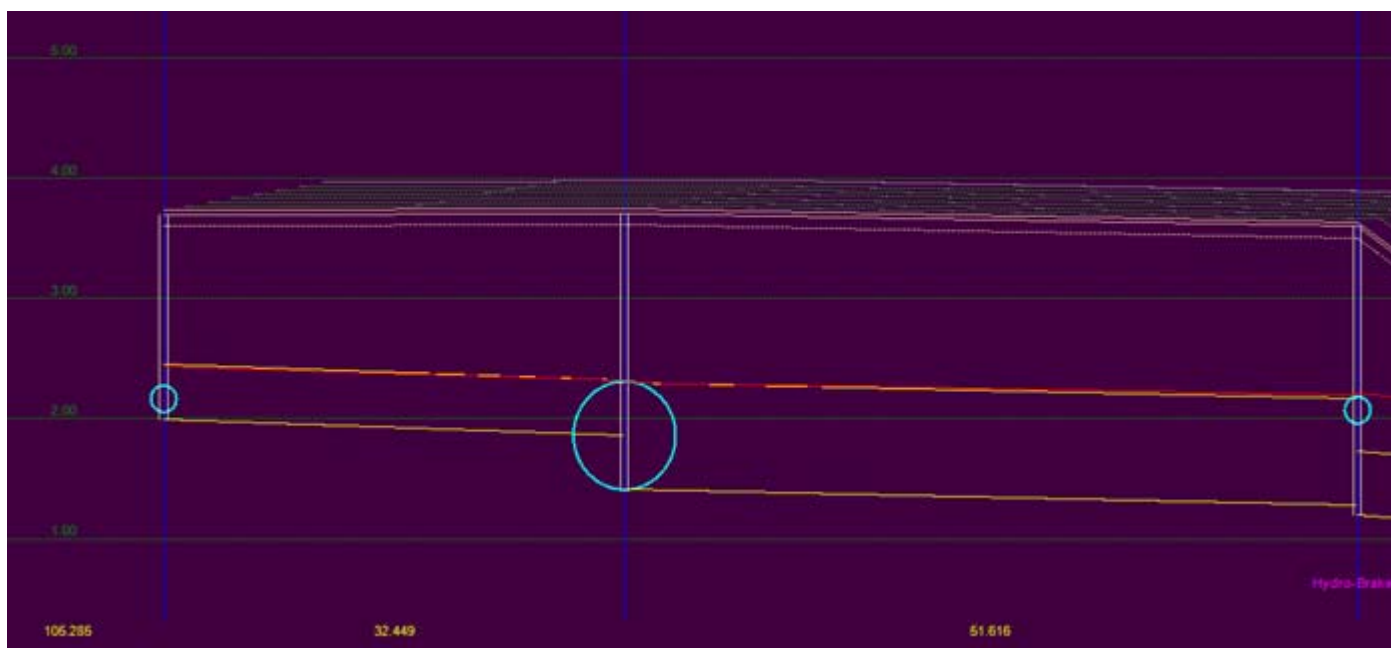
Thank you for your recent submission dated 30<sup>th</sup> January 2018 containing your surface water drainage assessment for the Southern By-Pass scheme. This has been reviewed and WSCC comments as follows:

- Item 1 Response - Noted, no further comments.
- Item 2 Response - Noted, no further comments.
- Item 3 Response - Agreed, no further comments.
- Item 4 Response - WSCC has reviewed the Micro-drainage simulation and accept this is a comprehensive model. However, noting the ultimate outfall is to the Black Ditch, it is not clear if this outfall will ever discharge under surcharged conditions. **If so, what bearing will this have on the upstream network and anticipated road extents (public and private)?**

The 1in100yr+CC flood level in the wetlands is 3.23m AOD by the outfall, but this will result in the outfall (@ 1.0m AOD) being surcharged by approximately 2.23m. There will be a flap valve on the final headwall to ensure this floodwater will not back up into the drainage network but in this scenario the drainage network can't push open the flap valve until the water level within the site goes above the flood level in the wetlands. In our opinion the chance of the critical 1in100yr+CC flood level in the wetlands (which is tidal) coinciding with the peak 1in100yr+CC storm event on the site are infinitesimally small.



We have however run the simulation with a fully surcharged outfall (@ 3.23m – see image above) and it results in a combined flood volume of 1750m<sup>3</sup> escaping from the drainage network. We do not believe it is reasonable keep this flood water on site for this unlikely occurrence and the resulting flood water will flow safely through the road network and eventually into the wetlands.



We've also run the simulations with a 1m surcharged outfall (see image) and it results in a combined flood volume of approximately 500m<sup>3</sup> escaping from the network.

It's important to note that these are for the long duration 4 hours (average rainfall intensity of 20.5mm/hr) relatively low intensity rainfall events so the flood water will flow benignly in the road channel. For the short duration high intensity event 30mins ( average rainfall intensity of 75mm/hr) the system won't event flood because the storm will barely create enough water to fill the drainage network.

We agree the likelihood of a coincidence occurrence is low. We also appreciate that the standing time may only be for a few hours until the River water level reduces. Our only main concern here is to consider where flooding will occur within the site and what the impacts will be:

1. Will any flood water continue to flow 'overland' towards an outfall? (It may be prudent to show a basic sketch of the routing through roads/wetlands as you state)

2. Will flooding impact on access/egress (inc emergency access)
3. Will flooding impact on any buildings i.e. flood damage

- Item 5 Response - I note that you say you are obliged to follow the guidance agreed at the time planning was consented. Please note however that the WSCC look to observe the 100yr plus 40% climate change impacts to Section 38 roads as noted above in accordance with NPPF requirements. This is to understand overland flow routing and flooding vs standing time and accessibility. **Please confirm that the 100yr + 40% climate change has been modelled in accordance with NPPF requirements.**

We'd like to clarify that none of the S38 Roads are simulated to flood for the 30% allowance CC. There will be approx. 15m3 at the low point in the private road immediately to the east but none of this will reach the S38 Road.

However, we believe it is reasonable to undertake some sensitivity testing of the model to ascertain the impact the 40%CC allowance will have on the network when compared to the 30%CC allowance. We have re-run the model using 40%CC and the combined flood volume at this low point increases from 15m3 to 60m3. (see pipe numbers 14.00 & 15.00 below which represent the low point). This additional flood water will spill over the S38 table and flow safely in the estate roads a northerly direction and into the wetlands.

Noted. Whilst the overall impacts at 40% are negligible on the scale of the development, the same issues would apply as noted above.

|        |                |                                  |     |       |       |       |
|--------|----------------|----------------------------------|-----|-------|-------|-------|
| 1.012  | SW04           | 240 minute 100 year Winter I+40% | 240 | 4.400 | 3.972 | 1.232 |
| 13.000 | SW-FUT-01      | 120 minute 100 year Winter I+40% | 120 | 4.000 | 3.951 | 1.091 |
| 14.000 | Plots 80-86    | 240 minute 100 year Winter I+40% | 240 | 3.800 | 3.828 | 1.053 |
| 15.000 | Plots 87-94    | 240 minute 100 year Winter I+40% | 240 | 3.800 | 3.831 | 1.056 |
| 1.013  | SW05           | 240 minute 100 year Winter I+40% | 240 | 4.100 | 3.843 | 1.243 |
| 16.000 | C2 Resiblock A | 120 minute 100 year Winter I+40% | 120 | 4.300 | 3.843 | 1.343 |
| 1.014  | SW06           | 240 minute 100 year Winter I+40% | 240 | 3.700 | 3.730 | 1.290 |
| 17.000 | SW-FUT-02      | 240 minute 100 year Winter I+40% | 240 | 4.280 | 3.723 | 1.103 |
| 18.000 | Plots 60-73    | 240 minute 100 year Winter I+40% | 240 | 3.700 | 3.701 | 0.876 |

- Item 6 Response - Noted, no further comments.
- Item 7 Response - Noted, drawings 312 & 412 are now subject to the S278/38 design check.
- Item 7 Response - Agreed, no further comments.
- Item 8 Response - Agreed, no further comments.
- Item 9 Response - Agreed, no further comments.
- Item 10 Response - Agreed, no further comments.
- Microdrainage - WSCC note that there numerous hydrobrake flow controls proposed. WSCC recommendation (and S38 policy) is to ensure the solid handling opening is a minimum of 75mm to mitigate future block risks; we note a few are specified just below this size. **Please confirm that all will have opening of minimum of 75mm.**

All of the controls on the network apart from the final outfall are on the private / future development plots and we anticipate that all of the flow control devices will be specified with an opening no less than 75mm. There will be designed / specified as there plots are development in the near future.

The only flood control on the main drainage runs are on the final outfall where the opening is 286mm.

Noted. No further comments.

- Microdrainage - Please note the WSCC requirement for selecting an appropriate coefficient of volumetric run-off (Cv); where your calculations consider the impermeable areas only as contributing to the drainage system we recommend a Cv of 1.0 (This is also advised in Sewers For Adoption 7<sup>th</sup> Edition and so may already apply elsewhere). **Please confirm that a Cv of 1.0 has been used.**

We have conformed to the requirements of SFA7 and 100% of the hardstanding from roads, footpath, parking, driveways and houses have been plugged into the micro drainage model. However we have not used a Cv of 1.0 because it will be an incorrect usage of this parameter within micro drainage

When selecting a suitable Cv value the Wallingford Procedure Volume 4 states:

"An extensive study of the runoff data from sewered urban catchments showed that the volume of runoff was related to the impervious area, the soil type and the catchment wetness. An approximate result may be obtained by assuming that the runoff derives from a proportion of the impervious area (paved and roof), the proportion varying according to soil type. On this basis the overall average value of Cv is about 0.75, ranging from 0.6 on catchments with rapidly-draining soils to about 0.9 on catchments with heavy soils"

These values reflect the loss of some rainfall from impervious areas through cracks and into depressions and by drainage onto pervious (unpaved) areas. Similarly, any runoff from the pervious areas onto the impervious areas is also incorporated. The above range of values for Cv should therefore be used in conjunction with the total impervious area (paved and roof) intended to drain to the storm system. This is a large drainage catchment extending over 19 hectares.

Microdrainage has two default settings for Cv, which are 0.75 (the summer setting) or 0.84 (the winter setting). All of our simulations has used the higher winter setting of 0.84

If you take the typical value of Cv as 0.75 and multiply it by 1.3 (which is the routing co-efficient in the modified rational method) you get 0.975 which is very nearly 1 and therefore makes no difference compared to the Rational Method of design if using a Cv of 1. By choosing the higher setting of 0.84 in micro drainage the figure increases to 1.09.

I trust the above explanation explains why we have chosen the higher default setting of 0.84 within micro drainage as the Cv value

CIRIA advises that the Microdrainage (and other design software) 'defaults' may not be appropriate. Microdrainage points to Wallingford Vol 1 to determine the calculation criteria, however your reference to Wallingford is not relevant as the catchment is 100% impervious (with no soil factors). Indeed the Wallingford website questions/answers also covers this topic. Whilst I appreciate your summary of your parameters, however it is a **WSCC policy (as LLFA) to use a Cv of 1.0** (100% run-off).

I look forward to your early responses to the highlighted points in the text above.

Thank you,

Tim

**Tim Townsend**

Principal Planner, Highways – Planning Services

West Sussex County Council, Ground Floor Northleigh, County Hall, Chichester PO19 1RH

Phone: (External) 03302 225726 (Internal) 25726

Email: [tim.townsend@westsussex.gov.uk](mailto:tim.townsend@westsussex.gov.uk)

Web: [www.westsussex.gov.uk](http://www.westsussex.gov.uk)

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## **APPENDIX G: Condition 10, Exceedance Flows**

# OVERALL 19 HECTARE CATCHMENT

SYSTEM FAILURE -03

SYSTEM FAILURE -02

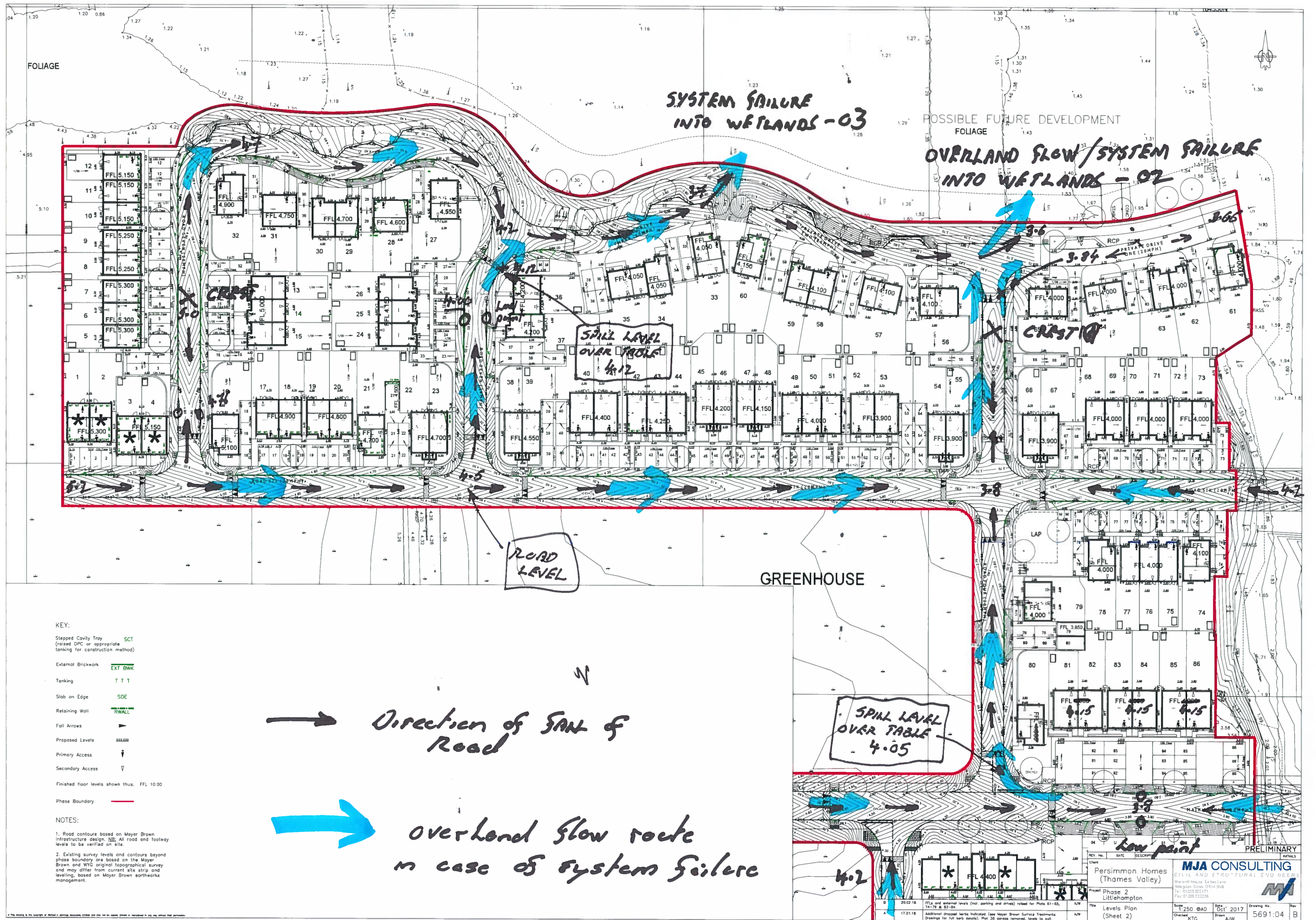
PHASE 2: Application

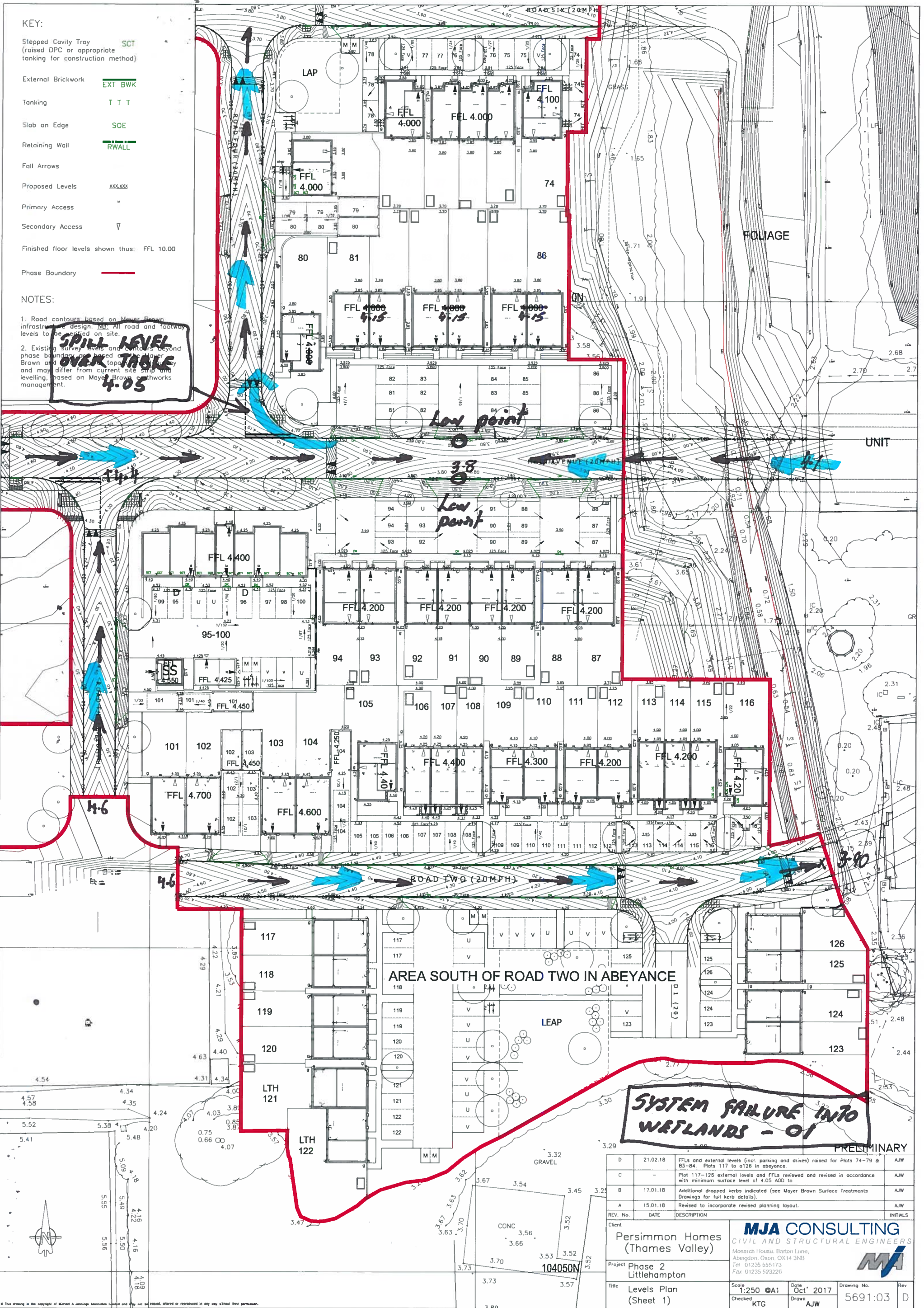
SYSTEM FAILURE 01

FOR INFORMATION

mb mayer brown

PERSIMMON HOMES THAMES VALLEY  
NORTH LITTLEHAMPTON PHASE 2  
SITE WIDE DRAINAGE STRATEGY  
1:500  
NOVEMBER 2017  
HASTED.DWG  
DRAINAGE STRATEGY DRAWING  
WEST OF THE WETLANDS  
A/P.LITTLE.2/DS





- KEY:
- Stepped Cavity Tray (raised DPC or appropriate tanking for construction method) SCT
  - External Brickwork EXT BWK
  - Tanking TTT
  - Slab on Edge SOE
  - Retaining Wall RWALL
  - Fall Arrows
  - Proposed Levels XXX.XXX
  - Primary Access
  - Secondary Access
  - Finished floor levels shown thus: FFL 10.00
  - Phase Boundary

NOTES:

1. Road contours based on Mayer Brown infrastructure design. NB: All road and footway levels to be verified on site.

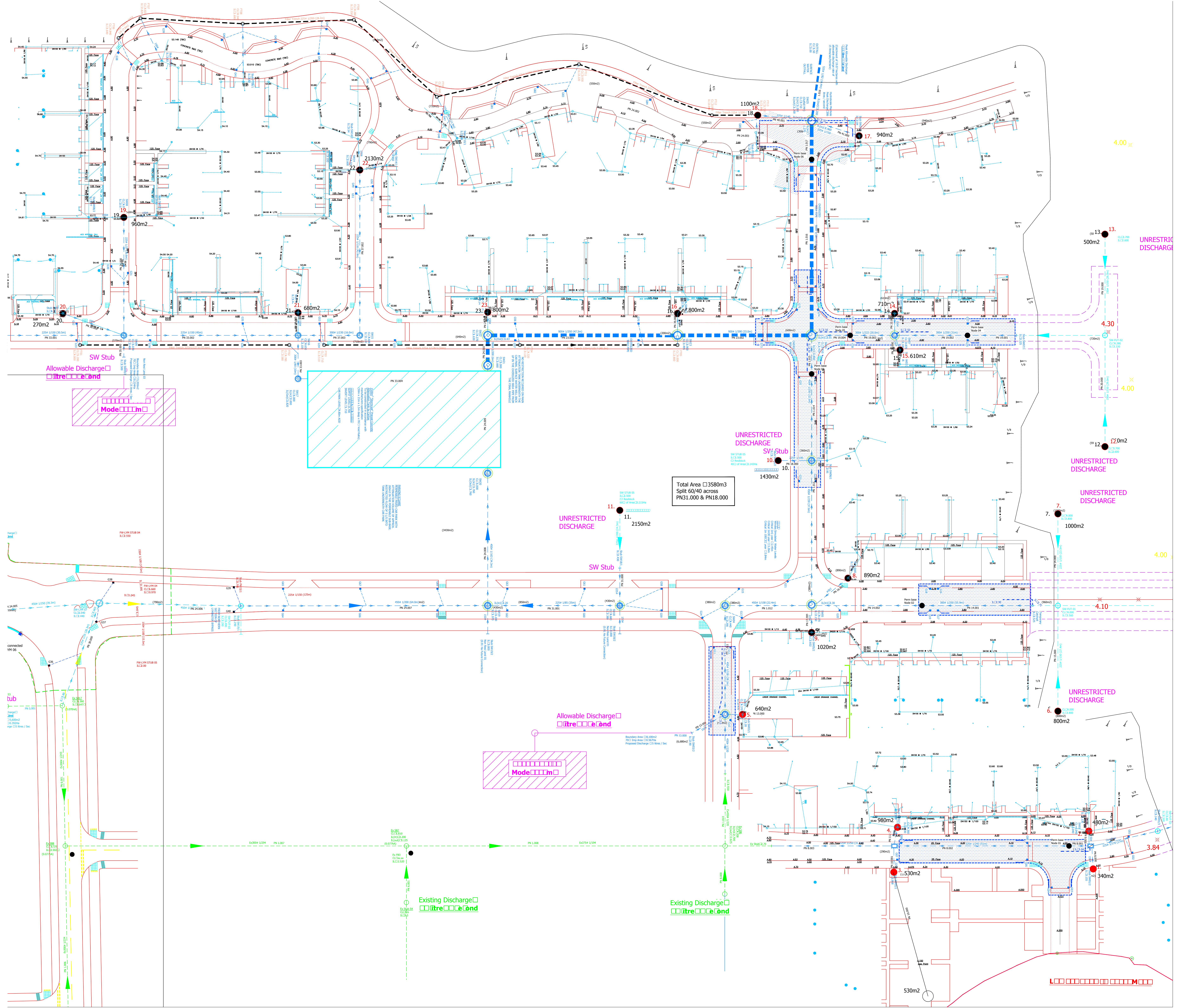
2. Existing survey levels and contours beyond phase boundary are based on the Mayer Brown and are not to be relied upon and may differ from current site strip and levelling, based on Mayer Brown earthworks management.

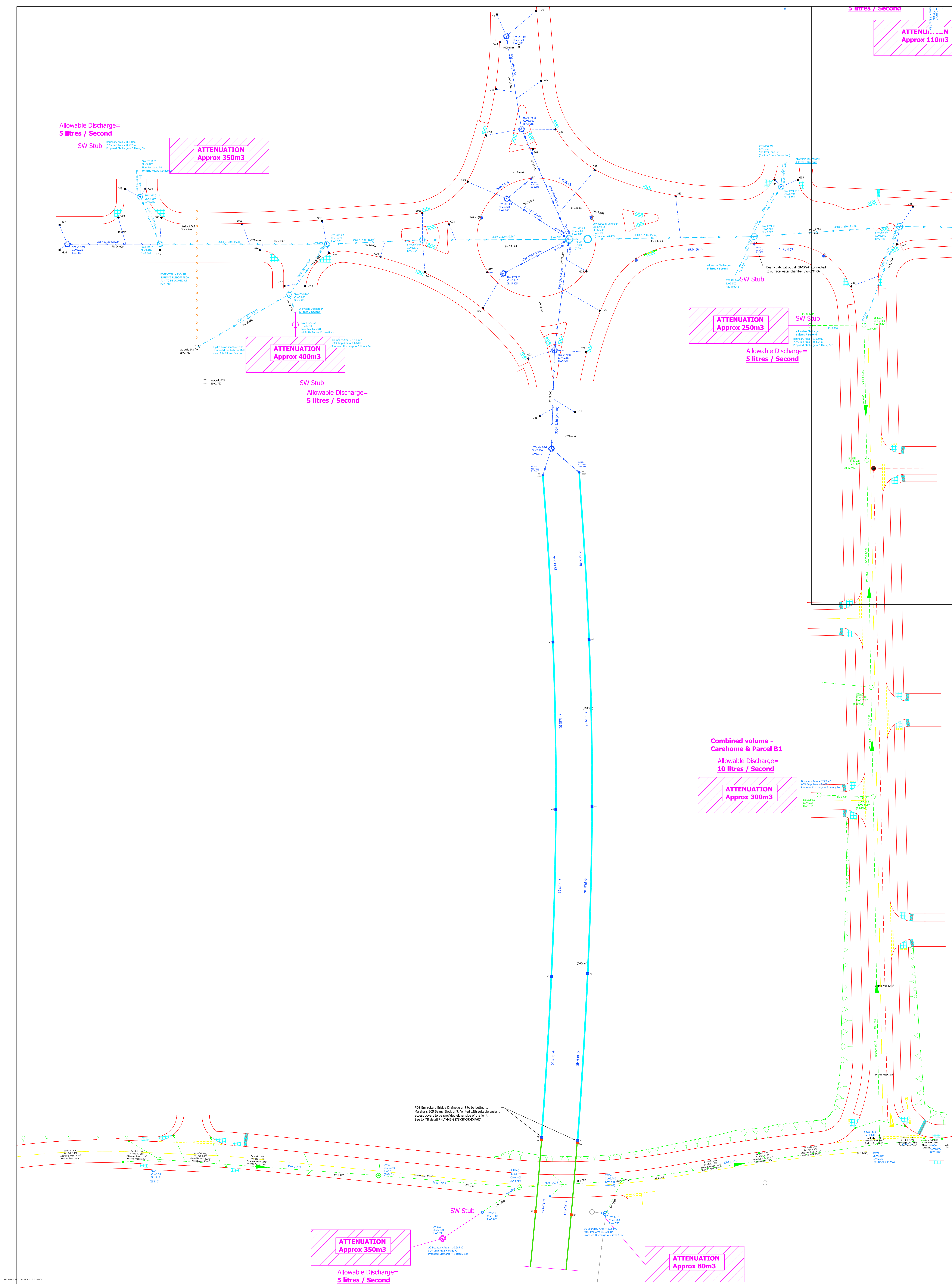
|                                        |          |                                                                                                                    |           |
|----------------------------------------|----------|--------------------------------------------------------------------------------------------------------------------|-----------|
| D                                      | 21.02.18 | FFLs and external levels (incl. parking and drives) raised for Plots 74-79 & 83-84. Plots 117 to 126 in abeyance.  | AJW       |
| C                                      | -        | Plot 117-126 external levels and FFLs reviewed and revised in accordance with minimum surface level of 4.05 AOD to | AJW       |
| B                                      | 17.01.18 | Additional dropped kerbs indicated (see Mayer Brown Surface Treatments Drawings for full kerb details).            | AJW       |
| A                                      | 15.01.18 | Revised to incorporate revised planning layout.                                                                    | AJW       |
| REV. No.                               | DATE     | DESCRIPTION                                                                                                        | INITIALS  |
| Client Persimmon Homes (Thames Valley) |          |                                                                                                                    |           |
| Project Phase 2 Littlehampton          |          |                                                                                                                    |           |
| Title Levels Plan (Sheet 1)            |          |                                                                                                                    |           |
| Scale                                  | 1:250    | Drawn                                                                                                              | Oct' 2017 |
| Checked                                | KTG      | Drawn                                                                                                              | AJW       |
| Drawing No.                            | 5691:03  | Rev                                                                                                                | D         |

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Abingdon, Oxon, OX14 3NB  
Tel: 01235 555173  
Fax: 01235 523226

→ Direction of fall of road → overland flow route in case of system failure

## **APPENDIX H: Condition 10, Windes – Network Details**





|                                                |                                                              |                                                                                     |                      |                |                |                    |           |             |             |
|------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------|----------------|----------------|--------------------|-----------|-------------|-------------|
| Mayer Brown Ltd                                |                                                              | Page 1                                                                              |                      |                |                |                    |           |             |             |
| Lion House<br>Oriental Road<br>Woking GU22 8AR | Littlehampton<br>Overall Surface Network<br>West of Wetlands |  |                      |                |                |                    |           |             |             |
| Date January 2018                              | Designed by S Foley                                          |                                                                                     |                      |                |                |                    |           |             |             |
| File WEST CATCHMENT MODEL_...                  | Checked by                                                   |                                                                                     |                      |                |                |                    |           |             |             |
| XP Solutions                                   | Network 2013.1                                               |                                                                                     |                      |                |                |                    |           |             |             |
| Existing Network Details for Storm             |                                                              |                                                                                     |                      |                |                |                    |           |             |             |
| PN                                             | Length<br>(m)                                                | Fall<br>(m)                                                                         | Slope<br>(1:X)       | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s) | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |
| 1.000                                          | 59.000                                                       | 0.251                                                                               | 235.1                | 0.066          | 2.00           | 0.0                | 0.600     | o           | 300         |
| 1.001                                          | 38.000                                                       | 0.163                                                                               | 233.1                | 0.040          | 0.00           | 0.0                | 0.600     | o           | 300         |
| 2.000                                          | 12.808                                                       | 0.200                                                                               | 64.0                 | 0.534          | 5.00           | 0.0                | 0.600     | o           | 300         |
| 2.001                                          | 12.001                                                       | 0.080                                                                               | 150.0                | 0.000          | 2.00           | 0.0                | 0.600     | o           | 150         |
| 1.002                                          | 27.675                                                       | 0.121                                                                               | 228.7                | 0.045          | 0.00           | 0.0                | 0.600     | o           | 300         |
| 3.000                                          | 19.930                                                       | 0.200                                                                               | 99.7                 | 0.198          | 5.00           | 0.0                | 0.600     | o           | 300         |
| 3.001                                          | 10.000                                                       | 0.067                                                                               | 149.3                | 0.000          | 2.00           | 0.0                | 0.600     | o           | 150         |
| 1.003                                          | 70.062                                                       | 0.300                                                                               | 233.5                | 0.047          | 0.00           | 0.0                | 0.600     | o           | 300         |
| 1.004                                          | 94.210                                                       | 0.425                                                                               | 221.7                | 0.153          | 0.00           | 0.0                | 0.600     | o           | 300         |
| 4.000                                          | 20.000                                                       | 0.065                                                                               | 307.7                | 0.438          | 5.00           | 0.0                | 0.600     | o           | 300         |
| 4.001                                          | 14.532                                                       | 0.097                                                                               | 149.8                | 0.000          | 2.00           | 0.0                | 0.600     | o           | 150         |
| 1.005                                          | 30.500                                                       | 0.140                                                                               | 217.9                | 0.046          | 0.00           | 0.0                | 0.600     | o           | 300         |
| 1.006                                          | 59.368                                                       | 0.270                                                                               | 219.9                | 0.088          | 0.00           | 0.0                | 0.600     | o           | 300         |
| 5.000                                          | 19.999                                                       | 0.595                                                                               | 33.6                 | 0.392          | 5.00           | 0.0                | 0.600     | o           | 300         |
| 5.001                                          | 14.532                                                       | 0.105                                                                               | 138.4                | 0.000          | 2.00           | 0.0                | 0.600     | o           | 150         |
| 5.002                                          | 36.500                                                       | 0.150                                                                               | 243.3                | 0.070          | 0.00           | 0.0                | 0.600     | o           | 300         |
| 1.007                                          | 88.421                                                       | 0.300                                                                               | 294.7                | 0.077          | 0.00           | 0.0                | 0.600     | o           | 300         |
| 6.000                                          | 20.006                                                       | 0.100                                                                               | 200.1                | 0.700          | 5.00           | 0.0                | 0.600     | o           | 375         |
| 6.001                                          | 14.650                                                       | 0.875                                                                               | 16.7                 | 0.000          | 5.00           | 0.0                | 0.600     | o           | 375         |
| Network Results Table                          |                                                              |                                                                                     |                      |                |                |                    |           |             |             |
| PN                                             | US/IL<br>(m)                                                 | Σ I.Area<br>(ha)                                                                    | Σ Base<br>Flow (l/s) | Vel<br>(m/s)   | Cap<br>(l/s)   |                    |           |             |             |
| 1.000                                          | 5.170                                                        | 0.066                                                                               | 0.0                  | 1.02           | 72.2           |                    |           |             |             |
| 1.001                                          | 4.919                                                        | 0.106                                                                               | 0.0                  | 1.03           | 72.5           |                    |           |             |             |
| 2.000                                          | 5.200                                                        | 1.067                                                                               | 0.0                  | 1.97           | 139.1          |                    |           |             |             |
| 2.001                                          | 5.000                                                        | 1.067                                                                               | 0.0                  | 0.82           | 14.5           |                    |           |             |             |
| 1.002                                          | 4.756                                                        | 1.218                                                                               | 0.0                  | 1.04           | 73.2           |                    |           |             |             |
| 3.000                                          | 5.000                                                        | 0.395                                                                               | 0.0                  | 1.58           | 111.3          |                    |           |             |             |
| 3.001                                          | 4.800                                                        | 0.395                                                                               | 0.0                  | 0.82           | 14.5           |                    |           |             |             |
| 1.003                                          | 4.635                                                        | 1.660                                                                               | 0.0                  | 1.02           | 72.4           |                    |           |             |             |
| 1.004                                          | 4.335                                                        | 1.813                                                                               | 0.0                  | 1.05           | 74.4           |                    |           |             |             |
| 4.000                                          | 4.200                                                        | 0.730                                                                               | 0.0                  | 0.89           | 63.0           |                    |           |             |             |
| 4.001                                          | 4.135                                                        | 0.730                                                                               | 0.0                  | 0.82           | 14.5           |                    |           |             |             |
| 1.005                                          | 3.910                                                        | 2.589                                                                               | 0.0                  | 1.06           | 75.0           |                    |           |             |             |
| 1.006                                          | 3.770                                                        | 2.677                                                                               | 0.0                  | 1.06           | 74.7           |                    |           |             |             |
| 5.000                                          | 4.500                                                        | 0.560                                                                               | 0.0                  | 2.72           | 192.4          |                    |           |             |             |
| 5.001                                          | 3.905                                                        | 0.560                                                                               | 0.0                  | 0.85           | 15.1           |                    |           |             |             |
| 5.002                                          | 3.650                                                        | 0.630                                                                               | 0.0                  | 1.00           | 70.9           |                    |           |             |             |
| 1.007                                          | 3.500                                                        | 3.384                                                                               | 0.0                  | 0.91           | 64.4           |                    |           |             |             |
| 6.000                                          | 4.100                                                        | 1.400                                                                               | 0.0                  | 1.28           | 141.1          |                    |           |             |             |
| 6.001                                          | 4.000                                                        | 1.400                                                                               | 0.0                  | 4.45           | 491.1          |                    |           |             |             |
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|                                                    |               |                  |                                                              |                |                |                                                                                     |           |             |             |
|----------------------------------------------------|---------------|------------------|--------------------------------------------------------------|----------------|----------------|-------------------------------------------------------------------------------------|-----------|-------------|-------------|
| Mayer Brown Ltd                                    |               |                  |                                                              |                |                | Page 2                                                                              |           |             |             |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     |               |                  | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                |                |  |           |             |             |
| Date January 2018<br>File WEST CATCHMENT MODEL_... |               |                  | Designed by S Foley<br>Checked by                            |                |                |                                                                                     |           |             |             |
| XP Solutions                                       |               |                  | Network 2013.1                                               |                |                |                                                                                     |           |             |             |
| Existing Network Details for Storm                 |               |                  |                                                              |                |                |                                                                                     |           |             |             |
| PN                                                 | Length<br>(m) | Fall<br>(m)      | Slope<br>(1:X)                                               | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s)                                                                  | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |
| 1.008                                              | 77.584        | 0.400            | 194.0                                                        | 0.077          | 0.00           | 0.0                                                                                 | 0.600     | o           | 375         |
| 7.000                                              | 20.000        | 0.175            | 114.3                                                        | 0.700          | 5.00           | 0.0                                                                                 | 0.600     | o           | 375         |
| 7.001                                              | 13.401        | 0.425            | 31.5                                                         | 0.000          | 5.00           | 0.0                                                                                 | 0.600     | o           | 375         |
| 1.009                                              | 4.916         | 0.025            | 196.6                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |
| 8.000                                              | 23.339        | 0.065            | 359.1                                                        | 0.034          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |
| 9.000                                              | 3.876         | 0.046            | 84.3                                                         | 0.048          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |
| 8.001                                              | 5.600         | 0.020            | 280.0                                                        | 0.060          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 8.002                                              | 45.386        | 0.190            | 238.9                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 10.000                                             | 33.343        | 0.297            | 112.3                                                        | 0.053          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |
| 10.001                                             | 6.800         | 0.038            | 178.9                                                        | 0.053          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 11.000                                             | 6.800         | 0.062            | 109.7                                                        | 0.098          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 8.003                                              | 43.824        | 0.130            | 337.1                                                        | 0.029          | 0.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 1.010                                              | 34.073        | 0.155            | 219.8                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |
| 12.000                                             | 40.643        | 0.100            | 406.4                                                        | 0.567          | 5.00           | 0.0                                                                                 | 0.600     | o           | 300         |
| 12.001                                             | 9.903         | 0.130            | 76.2                                                         | 0.000          | 2.00           | 0.0                                                                                 | 0.600     | o           | 150         |
| 13.000                                             | 6.000         | 0.103            | 58.3                                                         | 0.064          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 1.011                                              | 28.223        | 0.180            | 156.8                                                        | 0.042          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |
| Network Results Table                              |               |                  |                                                              |                |                |                                                                                     |           |             |             |
| PN                                                 | US/IL<br>(m)  | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s)                                         | Vel<br>(m/s)   | Cap<br>(l/s)   |                                                                                     |           |             |             |
| 1.008                                              | 3.125         | 4.861            | 0.0                                                          | 1.30           | 143.3          |                                                                                     |           |             |             |
| 7.000                                              | 3.400         | 1.400            | 0.0                                                          | 1.69           | 187.1          |                                                                                     |           |             |             |
| 7.001                                              | 3.225         | 1.400            | 0.0                                                          | 3.24           | 357.5          |                                                                                     |           |             |             |
| 1.009                                              | 2.725         | 6.261            | 0.0                                                          | 1.45           | 230.0          |                                                                                     |           |             |             |
| 8.000                                              | 3.155         | 0.034            | 0.0                                                          | 0.52           | 9.3            |                                                                                     |           |             |             |
| 9.000                                              | 3.136         | 0.048            | 0.0                                                          | 1.10           | 19.4           |                                                                                     |           |             |             |
| 8.001                                              | 3.040         | 0.142            | 0.0                                                          | 0.78           | 30.9           |                                                                                     |           |             |             |
| 8.002                                              | 3.020         | 0.142            | 0.0                                                          | 0.84           | 33.5           |                                                                                     |           |             |             |
| 10.000                                             | 3.165         | 0.053            | 0.0                                                          | 0.95           | 16.7           |                                                                                     |           |             |             |
| 10.001                                             | 2.868         | 0.106            | 0.0                                                          | 0.97           | 38.7           |                                                                                     |           |             |             |
| 11.000                                             | 3.000         | 0.098            | 0.0                                                          | 1.25           | 49.6           |                                                                                     |           |             |             |
| 8.003                                              | 2.830         | 0.375            | 0.0                                                          | 0.71           | 28.1           |                                                                                     |           |             |             |
| 1.010                                              | 2.625         | 6.636            | 0.0                                                          | 1.37           | 217.4          |                                                                                     |           |             |             |
| 12.000                                             | 3.000         | 0.810            | 0.0                                                          | 0.77           | 54.7           |                                                                                     |           |             |             |
| 12.001                                             | 2.900         | 0.810            | 0.0                                                          | 1.15           | 20.4           |                                                                                     |           |             |             |
| 13.000                                             | 3.000         | 0.064            | 0.0                                                          | 1.72           | 68.3           |                                                                                     |           |             |             |
| 1.011                                              | 2.470         | 7.552            | 0.0                                                          | 1.62           | 257.8          |                                                                                     |           |             |             |
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|                                                    |               |                  |                                                              |                |                |                                                                                     |           |             |             |  |
|----------------------------------------------------|---------------|------------------|--------------------------------------------------------------|----------------|----------------|-------------------------------------------------------------------------------------|-----------|-------------|-------------|--|
| Mayer Brown Ltd                                    |               |                  |                                                              |                |                | Page 3                                                                              |           |             |             |  |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     |               |                  | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                |                |  |           |             |             |  |
| Date January 2018<br>File WEST CATCHMENT MODEL_... |               |                  | Designed by S Foley<br>Checked by                            |                |                |                                                                                     |           |             |             |  |
| XP Solutions                                       |               |                  | Network 2013.1                                               |                |                |                                                                                     |           |             |             |  |
| Existing Network Details for Storm                 |               |                  |                                                              |                |                |                                                                                     |           |             |             |  |
| PN                                                 | Length<br>(m) | Fall<br>(m)      | Slope<br>(1:X)                                               | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s)                                                                  | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |  |
| 1.012                                              | 22.432        | 0.140            | 160.2                                                        | 0.038          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 14.000                                             | 22.905        | 0.150            | 152.7                                                        | 0.100          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |  |
| 15.000                                             | 28.097        | 0.150            | 187.3                                                        | 0.080          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |  |
| 14.001                                             | 35.213        | 0.140            | 251.5                                                        | 0.100          | 2.00           | 0.0                                                                                 | 0.600     | o           | 300         |  |
| 14.002                                             | 28.603        | 0.120            | 238.4                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 300         |  |
| 16.000                                             | 12.624        | 0.250            | 50.5                                                         | 0.089          | 2.00           | 0.0                                                                                 | 0.600     | o           | 150         |  |
| 17.000                                             | 7.200         | 0.302            | 23.8                                                         | 0.102          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |  |
| 1.013                                              | 37.575        | 0.160            | 234.8                                                        | 0.038          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 18.000                                             | 8.659         | 0.266            | 32.6                                                         | 0.143          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |  |
| 1.014                                              | 22.449        | 0.090            | 249.4                                                        | 0.036          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 1.015                                              | 10.000        | 0.040            | 250.0                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 19.000                                             | 26.210        | 0.130            | 201.6                                                        | 0.050          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |  |
| 20.000                                             | 28.840        | 0.130            | 221.8                                                        | 0.059          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |  |
| 19.001                                             | 35.611        | 0.145            | 245.6                                                        | 0.072          | 2.00           | 0.0                                                                                 | 0.600     | o           | 300         |  |
| 19.002                                             | 18.889        | 0.075            | 251.9                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 300         |  |
| 21.000                                             | 7.800         | 0.040            | 195.0                                                        | 0.061          | 2.00           | 0.0                                                                                 | 0.600     | o           | 150         |  |
| Network Results Table                              |               |                  |                                                              |                |                |                                                                                     |           |             |             |  |
| PN                                                 | US/IL<br>(m)  | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s)                                         | Vel<br>(m/s)   | Cap<br>(l/s)   |                                                                                     |           |             |             |  |
| 1.012                                              | 2.290         | 7.590            | 0.0                                                          | 1.60           | 255.0          |                                                                                     |           |             |             |  |
| 14.000                                             | 2.800         | 0.100            | 0.0                                                          | 0.81           | 14.3           |                                                                                     |           |             |             |  |
| 15.000                                             | 2.800         | 0.080            | 0.0                                                          | 0.73           | 12.9           |                                                                                     |           |             |             |  |
| 14.001                                             | 2.560         | 0.280            | 0.0                                                          | 0.99           | 69.8           |                                                                                     |           |             |             |  |
| 14.002                                             | 2.420         | 0.280            | 0.0                                                          | 1.01           | 71.7           |                                                                                     |           |             |             |  |
| 16.000                                             | 2.550         | 0.089            | 0.0                                                          | 1.42           | 25.1           |                                                                                     |           |             |             |  |
| 17.000                                             | 2.602         | 0.102            | 0.0                                                          | 2.69           | 107.0          |                                                                                     |           |             |             |  |
| 1.013                                              | 2.150         | 8.099            | 0.0                                                          | 1.32           | 210.3          |                                                                                     |           |             |             |  |
| 18.000                                             | 2.320         | 0.358            | 0.0                                                          | 2.30           | 91.5           |                                                                                     |           |             |             |  |
| 1.014                                              | 1.990         | 8.493            | 0.0                                                          | 1.28           | 204.0          |                                                                                     |           |             |             |  |
| 1.015                                              | 1.900         | 8.493            | 0.0                                                          | 1.28           | 203.8          |                                                                                     |           |             |             |  |
| 19.000                                             | 2.600         | 0.050            | 0.0                                                          | 0.70           | 12.4           |                                                                                     |           |             |             |  |
| 20.000                                             | 2.600         | 0.059            | 0.0                                                          | 0.67           | 11.9           |                                                                                     |           |             |             |  |
| 19.001                                             | 2.320         | 0.181            | 0.0                                                          | 1.00           | 70.6           |                                                                                     |           |             |             |  |
| 19.002                                             | 2.175         | 0.181            | 0.0                                                          | 0.99           | 69.7           |                                                                                     |           |             |             |  |
| 21.000                                             | 2.600         | 0.061            | 0.0                                                          | 0.72           | 12.7           |                                                                                     |           |             |             |  |
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|                                                |               |                  |                                                              |                |                |                                                                                     |           |             |             |
|------------------------------------------------|---------------|------------------|--------------------------------------------------------------|----------------|----------------|-------------------------------------------------------------------------------------|-----------|-------------|-------------|
| Mayer Brown Ltd                                |               |                  |                                                              |                |                | Page 4                                                                              |           |             |             |
| Lion House<br>Oriental Road<br>Woking GU22 8AR |               |                  | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                |                |  |           |             |             |
| Date January 2018                              |               |                  | Designed by S Foley                                          |                |                |                                                                                     |           |             |             |
| File WEST CATCHMENT MODEL_...                  |               |                  | Checked by                                                   |                |                |                                                                                     |           |             |             |
| XP Solutions                                   |               |                  | Network 2013.1                                               |                |                |                                                                                     |           |             |             |
| Existing Network Details for Storm             |               |                  |                                                              |                |                |                                                                                     |           |             |             |
| PN                                             | Length<br>(m) | Fall<br>(m)      | Slope<br>(1:X)                                               | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s)                                                                  | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |
| 22.000                                         | 9.600         | 0.100            | 96.0                                                         | 0.071          | 2.00           | 0.0                                                                                 | 0.600     | o           | 150         |
| 19.003                                         | 11.498        | 0.045            | 255.5                                                        | 0.011          | 0.00           | 0.0                                                                                 | 0.600     | o           | 300         |
| 19.004                                         | 10.000        | 0.045            | 222.2                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 300         |
| 23.000                                         | 6.005         | 0.935            | 6.4                                                          | 0.080          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |
| 24.000                                         | 24.867        | 0.100            | 248.7                                                        | 0.056          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 25.000                                         | 39.317        | 0.280            | 140.4                                                        | 0.567          | 5.00           | 0.0                                                                                 | 0.600     | o           | 450         |
| 25.001                                         | 13.808        | 0.080            | 172.6                                                        | 0.000          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 24.001                                         | 44.896        | 0.215            | 208.8                                                        | 0.045          | 0.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 26.000                                         | 39.613        | 0.237            | 167.1                                                        | 0.600          | 5.00           | 0.0                                                                                 | 0.600     | o           | 450         |
| 26.001                                         | 28.513        | 0.193            | 147.7                                                        | 0.000          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 27.000                                         | 34.498        | 0.360            | 95.8                                                         | 0.637          | 5.00           | 0.0                                                                                 | 0.600     | o           | 450         |
| 27.001                                         | 5.111         | 0.070            | 73.0                                                         | 0.000          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 26.002                                         | 16.877        | 0.145            | 116.4                                                        | 0.000          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 24.002                                         | 25.768        | 0.125            | 206.1                                                        | 0.045          | 0.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 24.003                                         | 43.680        | 0.160            | 273.0                                                        | 0.033          | 0.00           | 0.0                                                                                 | 0.600     | o           | 300         |
| 28.000                                         | 25.335        | 0.200            | 126.7                                                        | 0.057          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 28.001                                         | 34.164        | 0.530            | 64.5                                                         | 0.102          | 0.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 29.000                                         | 64.700        | 1.130            | 57.3                                                         | 0.314          | 5.00           | 0.0                                                                                 | 0.600     | o           | 300         |
| Network Results Table                          |               |                  |                                                              |                |                |                                                                                     |           |             |             |
| PN                                             | US/IL<br>(m)  | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s)                                         | Vel<br>(m/s)   | Cap<br>(l/s)   |                                                                                     |           |             |             |
| 22.000                                         | 2.600         | 0.071            | 0.0                                                          | 1.03           | 18.1           |                                                                                     |           |             |             |
| 19.003                                         | 2.100         | 0.324            | 0.0                                                          | 0.98           | 69.2           |                                                                                     |           |             |             |
| 19.004                                         | 2.055         | 0.324            | 0.0                                                          | 1.05           | 74.3           |                                                                                     |           |             |             |
| 23.000                                         | 3.240         | 0.080            | 0.0                                                          | 4.00           | 70.7           |                                                                                     |           |             |             |
| 24.000                                         | 3.740         | 0.056            | 0.0                                                          | 0.82           | 32.8           |                                                                                     |           |             |             |
| 25.000                                         | 4.000         | 0.810            | 0.0                                                          | 1.71           | 272.6          |                                                                                     |           |             |             |
| 25.001                                         | 3.720         | 0.810            | 0.0                                                          | 0.99           | 39.5           |                                                                                     |           |             |             |
| 24.001                                         | 3.640         | 0.911            | 0.0                                                          | 0.90           | 35.8           |                                                                                     |           |             |             |
| 26.000                                         | 4.000         | 1.000            | 0.0                                                          | 1.57           | 249.7          |                                                                                     |           |             |             |
| 26.001                                         | 3.763         | 1.000            | 0.0                                                          | 1.07           | 42.7           |                                                                                     |           |             |             |
| 27.000                                         | 4.000         | 0.910            | 0.0                                                          | 2.08           | 330.4          |                                                                                     |           |             |             |
| 27.001                                         | 3.640         | 0.910            | 0.0                                                          | 1.53           | 60.9           |                                                                                     |           |             |             |
| 26.002                                         | 3.570         | 1.910            | 0.0                                                          | 1.21           | 48.1           |                                                                                     |           |             |             |
| 24.002                                         | 3.350         | 2.866            | 0.0                                                          | 0.91           | 36.1           |                                                                                     |           |             |             |
| 24.003                                         | 3.225         | 2.899            | 0.0                                                          | 0.95           | 66.9           |                                                                                     |           |             |             |
| 28.000                                         | 3.870         | 0.057            | 0.0                                                          | 1.16           | 46.1           |                                                                                     |           |             |             |
| 28.001                                         | 3.670         | 0.159            | 0.0                                                          | 1.63           | 64.9           |                                                                                     |           |             |             |
| 29.000                                         | 7.200         | 0.314            | 0.0                                                          | 2.08           | 147.2          |                                                                                     |           |             |             |
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|                                                    |               |                  |                                                              |                |                |                                                                                     |           |             |             |  |
|----------------------------------------------------|---------------|------------------|--------------------------------------------------------------|----------------|----------------|-------------------------------------------------------------------------------------|-----------|-------------|-------------|--|
| Mayer Brown Ltd                                    |               |                  |                                                              |                |                | Page 5                                                                              |           |             |             |  |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     |               |                  | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                |                |  |           |             |             |  |
| Date January 2018<br>File WEST CATCHMENT MODEL_... |               |                  | Designed by S Foley<br>Checked by                            |                |                |                                                                                     |           |             |             |  |
| XP Solutions                                       |               |                  | Network 2013.1                                               |                |                |                                                                                     |           |             |             |  |
| Existing Network Details for Storm                 |               |                  |                                                              |                |                |                                                                                     |           |             |             |  |
| PN                                                 | Length<br>(m) | Fall<br>(m)      | Slope<br>(1:X)                                               | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s)                                                                  | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |  |
| 29.001                                             | 30.927        | 0.000            | 0.0                                                          | 0.070          | 0.00           | 0.0                                                                                 | 0.600     | o           | 300         |  |
| 24.004                                             | 45.590        | 0.230            | 198.2                                                        | 0.038          | 0.00           | 0.0                                                                                 | 0.600     | o           | 375         |  |
| 24.005                                             | 38.840        | 0.160            | 242.7                                                        | 0.231          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 30.000                                             | 26.634        | 0.540            | 49.3                                                         | 0.000          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |  |
| 24.006                                             | 37.201        | 0.280            | 132.9                                                        | 0.040          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 24.007                                             | 63.944        | 0.270            | 236.8                                                        | 0.040          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 31.000                                             | 24.684        | 0.120            | 205.7                                                        | 0.215          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |  |
| 31.001                                             | 35.227        | 0.180            | 195.7                                                        | 0.043          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |  |
| 24.008                                             | 19.302        | 0.170            | 113.5                                                        | 0.043          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 24.009                                             | 42.970        | 0.100            | 429.7                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 525         |  |
| 32.000                                             | 7.262         | 0.100            | 72.6                                                         | 0.343          | 5.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 32.001                                             | 27.748        | 1.690            | 16.4                                                         | 0.000          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |  |
| 33.000                                             | 20.005        | 0.100            | 200.1                                                        | 0.630          | 5.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 33.001                                             | 30.526        | 0.200            | 152.6                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 225         |  |
| 34.000                                             | 30.576        | 1.150            | 26.6                                                         | 0.096          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |  |
| 35.000                                             | 22.482        | 0.200            | 112.4                                                        | 0.224          | 5.00           | 0.0                                                                                 | 0.600     | o           | 450         |  |
| 35.001                                             | 5.638         | 0.100            | 56.4                                                         | 0.000          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |  |
| 36.000                                             | 16.786        | 1.710            | 9.8                                                          | 0.027          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |  |
| Network Results Table                              |               |                  |                                                              |                |                |                                                                                     |           |             |             |  |
| PN                                                 | US/IL<br>(m)  | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s)                                         | Vel<br>(m/s)   | Cap<br>(l/s)   |                                                                                     |           |             |             |  |
| 29.001                                             | 5.540         | 0.384            | 0.0                                                          | 0.00           | 0.0            |                                                                                     |           |             |             |  |
| 24.004                                             | 2.990         | 3.480            | 0.0                                                          | 1.28           | 141.7          |                                                                                     |           |             |             |  |
| 24.005                                             | 2.680         | 3.711            | 0.0                                                          | 1.30           | 206.8          |                                                                                     |           |             |             |  |
| 30.000                                             | 3.700         | 0.000            | 0.0                                                          | 1.87           | 74.2           |                                                                                     |           |             |             |  |
| 24.006                                             | 2.520         | 3.751            | 0.0                                                          | 1.76           | 280.3          |                                                                                     |           |             |             |  |
| 24.007                                             | 2.240         | 3.791            | 0.0                                                          | 1.32           | 209.4          |                                                                                     |           |             |             |  |
| 31.000                                             | 2.500         | 0.358            | 0.0                                                          | 0.91           | 36.1           |                                                                                     |           |             |             |  |
| 31.001                                             | 2.380         | 0.401            | 0.0                                                          | 0.93           | 37.0           |                                                                                     |           |             |             |  |
| 24.008                                             | 1.970         | 4.235            | 0.0                                                          | 1.91           | 303.3          |                                                                                     |           |             |             |  |
| 24.009                                             | 1.760         | 4.235            | 0.0                                                          | 1.07           | 232.5          |                                                                                     |           |             |             |  |
| 32.000                                             | 3.500         | 0.343            | 0.0                                                          | 2.39           | 379.8          |                                                                                     |           |             |             |  |
| 32.001                                             | 3.400         | 0.343            | 0.0                                                          | 2.50           | 44.1           |                                                                                     |           |             |             |  |
| 33.000                                             | 2.700         | 0.900            | 0.0                                                          | 1.43           | 228.0          |                                                                                     |           |             |             |  |
| 33.001                                             | 2.600         | 0.900            | 0.0                                                          | 1.06           | 42.0           |                                                                                     |           |             |             |  |
| 34.000                                             | 3.550         | 0.096            | 0.0                                                          | 2.55           | 101.3          |                                                                                     |           |             |             |  |
| 35.000                                             | 2.700         | 0.320            | 0.0                                                          | 1.92           | 304.9          |                                                                                     |           |             |             |  |
| 35.001                                             | 2.500         | 0.320            | 0.0                                                          | 1.75           | 69.4           |                                                                                     |           |             |             |  |
| 36.000                                             | 4.310         | 0.027            | 0.0                                                          | 3.23           | 57.2           |                                                                                     |           |             |             |  |
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|                                                    |               |                  |                                                              |                |                |                                                                                     |           |             |             |
|----------------------------------------------------|---------------|------------------|--------------------------------------------------------------|----------------|----------------|-------------------------------------------------------------------------------------|-----------|-------------|-------------|
| Mayer Brown Ltd                                    |               |                  |                                                              |                |                | Page 6                                                                              |           |             |             |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     |               |                  | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                |                |  |           |             |             |
| Date January 2018<br>File WEST CATCHMENT MODEL_... |               |                  | Designed by S Foley<br>Checked by                            |                |                |                                                                                     |           |             |             |
| XP Solutions                                       |               |                  | Network 2013.1                                               |                |                |                                                                                     |           |             |             |
| Existing Network Details for Storm                 |               |                  |                                                              |                |                |                                                                                     |           |             |             |
| PN                                                 | Length<br>(m) | Fall<br>(m)      | Slope<br>(1:X)                                               | I.Area<br>(ha) | T.E.<br>(mins) | Base<br>Flow (l/s)                                                                  | k<br>(mm) | HYD<br>SECT | DIA<br>(mm) |
| 33.002                                             | 45.139        | 0.300            | 150.5                                                        | 0.057          | 0.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 37.000                                             | 21.924        | 0.110            | 199.3                                                        | 0.071          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 37.001                                             | 23.225        | 0.160            | 145.2                                                        | 0.071          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 37.002                                             | 42.860        | 0.370            | 115.8                                                        | 0.071          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 37.003                                             | 16.004        | 0.070            | 228.6                                                        | 0.071          | 5.00           | 0.0                                                                                 | 0.600     | o           | 300         |
| 38.000                                             | 5.880         | 1.040            | 5.7                                                          | 0.068          | 5.00           | 0.0                                                                                 | 0.600     | o           | 150         |
| 33.003                                             | 7.752         | 0.280            | 27.7                                                         | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 300         |
| 33.004                                             | 49.146        | 0.160            | 307.2                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 450         |
| 24.010                                             | 7.734         | 0.030            | 257.8                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 900         |
| 23.001                                             | 49.171        | 0.135            | 364.2                                                        | 0.064          | 0.00           | 0.0                                                                                 | 0.600     | o           | 900         |
| 39.000                                             | 5.695         | 0.000            | 0.0                                                          | 0.080          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 23.002                                             | 34.760        | 0.085            | 408.9                                                        | 0.020          | 0.00           | 0.0                                                                                 | 0.600     | o           | 900         |
| 1.016                                              | 45.616        | 0.110            | 414.7                                                        | 0.064          | 0.00           | 0.0                                                                                 | 0.600     | o           | 900         |
| 1.017                                              | 6.000         | 0.020            | 300.0                                                        | 0.000          | 0.00           | 0.0                                                                                 | 0.600     | o           | 900         |
| 40.000                                             | 34.385        | 0.230            | 149.5                                                        | 0.055          | 5.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 40.001                                             | 26.630        | 0.030            | 887.7                                                        | 0.055          | 0.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 41.000                                             | 30.249        | 0.080            | 378.1                                                        | 0.094          | 2.00           | 0.0                                                                                 | 0.600     | o           | 225         |
| 1.018                                              | 21.220        | 0.200            | 106.1                                                        | 0.030          | 0.00           | 0.0                                                                                 | 0.600     | o           | 525         |
| Network Results Table                              |               |                  |                                                              |                |                |                                                                                     |           |             |             |
| PN                                                 | US/IL<br>(m)  | Σ I.Area<br>(ha) | Σ Base<br>Flow (l/s)                                         | Vel<br>(m/s)   | Cap<br>(l/s)   |                                                                                     |           |             |             |
| 33.002                                             | 2.400         | 1.400            | 0.0                                                          | 1.06           | 42.3           |                                                                                     |           |             |             |
| 37.000                                             | 2.790         | 0.071            | 0.0                                                          | 0.92           | 36.7           |                                                                                     |           |             |             |
| 37.001                                             | 2.680         | 0.142            | 0.0                                                          | 1.08           | 43.1           |                                                                                     |           |             |             |
| 37.002                                             | 2.600         | 0.213            | 0.0                                                          | 1.21           | 48.3           |                                                                                     |           |             |             |
| 37.003                                             | 2.170         | 0.284            | 0.0                                                          | 1.04           | 73.2           |                                                                                     |           |             |             |
| 38.000                                             | 3.440         | 0.068            | 0.0                                                          | 4.27           | 75.4           |                                                                                     |           |             |             |
| 33.003                                             | 2.100         | 1.752            | 0.0                                                          | 3.00           | 212.0          |                                                                                     |           |             |             |
| 33.004                                             | 1.820         | 1.752            | 0.0                                                          | 1.15           | 183.6          |                                                                                     |           |             |             |
| 24.010                                             | 1.660         | 6.330            | 0.0                                                          | 1.95           | 1238.5         |                                                                                     |           |             |             |
| 23.001                                             | 1.630         | 6.474            | 0.0                                                          | 1.64           | 1040.7         |                                                                                     |           |             |             |
| 39.000                                             | 2.500         | 0.080            | 0.0                                                          | 0.00           | 0.0            |                                                                                     |           |             |             |
| 23.002                                             | 1.495         | 6.574            | 0.0                                                          | 1.54           | 981.7          |                                                                                     |           |             |             |
| 1.016                                              | 1.410         | 15.455           | 0.0                                                          | 1.53           | 974.8          |                                                                                     |           |             |             |
| 1.017                                              | 1.300         | 15.455           | 0.0                                                          | 1.80           | 1147.5         |                                                                                     |           |             |             |
| 40.000                                             | 2.370         | 0.055            | 0.0                                                          | 1.07           | 42.4           |                                                                                     |           |             |             |
| 40.001                                             | 1.990         | 0.110            | 0.0                                                          | 0.43           | 17.1           |                                                                                     |           |             |             |
| 41.000                                             | 2.040         | 0.094            | 0.0                                                          | 0.67           | 26.5           |                                                                                     |           |             |             |
| 1.018                                              | 1.200         | 15.689           | 0.0                                                          | 2.17           | 470.7          |                                                                                     |           |             |             |
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|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  |        |                                 |                  |                  |
|------------------------------------------------|--------------|--------------------|--------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|---------------------------------|------------------|--------|---------------------------------|------------------|------------------|
| Mayer Brown Ltd                                |              |                    |                                                              |                         | Page 7                                                                              |                                 |                  |        |                                 |                  |                  |
| Lion House<br>Oriental Road<br>Woking GU22 8AR |              |                    | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                         |  |                                 |                  |        |                                 |                  |                  |
| Date January 2018                              |              |                    | Designed by S Foley                                          |                         |                                                                                     |                                 |                  |        |                                 |                  |                  |
| File WEST CATCHMENT MODEL_...                  |              |                    | Checked by                                                   |                         |                                                                                     |                                 |                  |        |                                 |                  |                  |
| XP Solutions                                   |              |                    | Network 2013.1                                               |                         |                                                                                     |                                 |                  |        |                                 |                  |                  |
| Manhole Schedules for Storm                    |              |                    |                                                              |                         |                                                                                     |                                 |                  |        |                                 |                  |                  |
| MH<br>Name                                     | MH<br>CL (m) | MH<br>Depth<br>(m) | MH<br>Connection                                             | MH<br>Diam.,L*W<br>(mm) | PN                                                                                  | Pipe Out<br>Invert<br>Level (m) | Diameter<br>(mm) | PN     | Pipes In<br>Invert<br>Level (m) | Diameter<br>(mm) | Backdrop<br>(mm) |
| TL_SW01                                        | 6.380        | 1.210              | Open Manhole                                                 | 1050                    | 1.000                                                                               | 5.170                           | 300              |        |                                 |                  |                  |
| TL_SW02                                        | 6.790        | 1.871              | Open Manhole                                                 | 1200                    | 1.001                                                                               | 4.919                           | 300              | 1.000  | 4.919                           | 300              |                  |
| Parcel A2_1                                    | 6.800        | 1.600              | Open Manhole                                                 | 1200                    | 2.000                                                                               | 5.200                           | 300              |        |                                 |                  |                  |
| Parcel A2_2                                    | 6.900        | 1.900              | Open Manhole                                                 | 1200                    | 2.001                                                                               | 5.000                           | 150              | 2.000  | 5.000                           | 300              |                  |
| TL_SW03                                        | 6.800        | 2.044              | Open Manhole                                                 | 1200                    | 1.002                                                                               | 4.756                           | 300              | 1.001  | 4.756                           | 300              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 2.001  | 4.920                           | 150              | 14               |
| Parcel B6_1                                    | 6.900        | 1.900              | Open Manhole                                                 | 1200                    | 3.000                                                                               | 5.000                           | 300              |        |                                 |                  |                  |
| Parcel B6_2                                    | 6.900        | 2.100              | Open Manhole                                                 | 1200                    | 3.001                                                                               | 4.800                           | 150              | 3.000  | 4.800                           | 300              |                  |
| TL_SW04                                        | 6.780        | 2.145              | Open Manhole                                                 | 1200                    | 1.003                                                                               | 4.635                           | 300              | 1.002  | 4.635                           | 300              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 3.001  | 4.733                           | 150              |                  |
| TL_SW05                                        | 6.380        | 2.045              | Open Manhole                                                 | 1200                    | 1.004                                                                               | 4.335                           | 300              | 1.003  | 4.335                           | 300              |                  |
| Parcel B1&CH_1                                 | 7.220        | 3.020              | Open Manhole                                                 | 1200                    | 4.000                                                                               | 4.200                           | 300              |        |                                 |                  |                  |
| Parcel B1&CH 2                                 | 7.220        | 3.085              | Open Manhole                                                 | 1200                    | 4.001                                                                               | 4.135                           | 150              | 4.000  | 4.135                           | 300              |                  |
| Ex. SB10                                       | 7.055        | 3.145              | Open Manhole                                                 | 1200                    | 1.005                                                                               | 3.910                           | 300              | 1.004  | 3.910                           | 300              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 4.001  | 4.038                           | 150              |                  |
| Ex. SB9                                        | 6.900        | 3.130              | Open Manhole                                                 | 1200                    | 1.006                                                                               | 3.770                           | 300              | 1.005  | 3.770                           | 300              |                  |
| Block B_1                                      | 6.380        | 1.880              | Open Manhole                                                 | 1200                    | 5.000                                                                               | 4.500                           | 300              |        |                                 |                  |                  |
| Block B_2                                      | 6.380        | 2.475              | Open Manhole                                                 | 1200                    | 5.001                                                                               | 3.905                           | 150              | 5.000  | 3.905                           | 300              |                  |
| Ex. SB17                                       | 6.360        | 2.710              | Open Manhole                                                 | 1200                    | 5.002                                                                               | 3.650                           | 300              | 5.001  | 3.800                           | 150              |                  |
| Ex. SB8                                        | 6.570        | 3.070              | Open Manhole                                                 | 1350                    | 1.007                                                                               | 3.500                           | 300              | 1.006  | 3.500                           | 300              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 5.002  | 3.500                           | 300              |                  |
| BovisA_1                                       | 5.600        | 1.500              | Open Manhole                                                 | 1200                    | 6.000                                                                               | 4.100                           | 375              |        |                                 |                  |                  |
| BovisA_2                                       | 5.600        | 1.600              | Open Manhole                                                 | 1200                    | 6.001                                                                               | 4.000                           | 375              | 6.000  | 4.000                           | 375              |                  |
| Ex SB7                                         | 5.810        | 2.685              | Open Manhole                                                 | 1350                    | 1.008                                                                               | 3.125                           | 375              | 1.007  | 3.200                           | 300              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 6.001  | 3.125                           | 375              |                  |
| BovisB_1                                       | 4.650        | 1.250              | Open Manhole                                                 | 1200                    | 7.000                                                                               | 3.400                           | 375              |        |                                 |                  |                  |
| BovisB_2                                       | 4.650        | 1.425              | Open Manhole                                                 | 1200                    | 7.001                                                                               | 3.225                           | 375              | 7.000  | 3.225                           | 375              |                  |
| Dummy Node                                     | 4.700        | 1.975              | Open Manhole                                                 | 1200                    | 1.009                                                                               | 2.725                           | 450              | 1.008  | 2.725                           | 375              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 7.001  | 2.800                           | 375              |                  |
| Plots 123 - 126                                | 4.050        | 0.895              | Open Manhole                                                 | 450                     | 8.000                                                                               | 3.155                           | 150              |        |                                 |                  |                  |
| Plots 111 - 116                                | 4.050        | 0.914              | Open Manhole                                                 | 450                     | 9.000                                                                               | 3.136                           | 150              |        |                                 |                  |                  |
| SW01, G01&G02                                  | 3.850        | 0.810              | Open Manhole                                                 | 1200                    | 8.001                                                                               | 3.040                           | 225              | 8.000  | 3.090                           | 150              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 9.000  | 3.090                           | 150              |                  |
| Permbase 01                                    | 3.850        | 0.830              | Open Manhole                                                 | 1200                    | 8.002                                                                               | 3.020                           | 225              | 8.001  | 3.020                           | 225              |                  |
| Plots 117 - 122                                | 4.050        | 0.885              | Open Manhole                                                 | 450                     | 10.000                                                                              | 3.165                           | 150              |        |                                 |                  |                  |
| Stub SW02/2                                    | 4.500        | 1.632              | Open Manhole                                                 | 450                     | 10.001                                                                              | 2.868                           | 225              | 10.000 | 2.868                           | 150              |                  |
| Plots 101-110                                  | 4.400        | 1.400              | Open Manhole                                                 | 450                     | 11.000                                                                              | 3.000                           | 225              |        |                                 |                  |                  |
| SW02                                           | 4.360        | 1.530              | Open Manhole                                                 | 1200                    | 8.003                                                                               | 2.830                           | 225              | 8.002  | 2.830                           | 225              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 10.001 | 2.830                           | 225              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 11.000 | 2.938                           | 225              | 108              |
| Ex SB6                                         | 4.700        | 2.075              | Open Manhole                                                 | 1500                    | 1.010                                                                               | 2.625                           | 450              | 1.009  | 2.700                           | 450              | 75               |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 8.003  | 2.700                           | 225              |                  |
| Ret Block A                                    | 4.700        | 1.700              | Open Manhole                                                 | 1200                    | 12.000                                                                              | 3.000                           | 300              |        |                                 |                  |                  |
| Ret Block A                                    | 4.600        | 1.700              | Open Manhole                                                 | 1050                    | 12.001                                                                              | 2.900                           | 150              | 12.000 | 2.900                           | 300              |                  |
| Plots 95-100                                   | 4.600        | 1.600              | Open Manhole                                                 | 450                     | 13.000                                                                              | 3.000                           | 225              |        |                                 |                  |                  |
| SW03                                           | 4.370        | 1.900              | Open Manhole                                                 | 1500                    | 1.011                                                                               | 2.470                           | 450              | 1.010  | 2.470                           | 450              |                  |
|                                                |              |                    |                                                              |                         |                                                                                     |                                 |                  | 12.001 | 2.770                           | 150              |                  |
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|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  |        |                                 |                  |
|----------------------------------------------------|--------------|--------------------|--------------------------------------------------------------|--------------------------|--------|-------------------------------------------------------------------------------------|------------------|--------|---------------------------------|------------------|
| Mayer Brown Ltd                                    |              |                    |                                                              |                          |        | Page 8                                                                              |                  |        |                                 |                  |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     |              |                    | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                          |        |  |                  |        |                                 |                  |
| Date January 2018<br>File WEST CATCHMENT MODEL_... |              |                    | Designed by S Foley<br>Checked by                            |                          |        |                                                                                     |                  |        |                                 |                  |
| XP Solutions                                       |              |                    | Network 2013.1                                               |                          |        |                                                                                     |                  |        |                                 |                  |
| Manhole Schedules for Storm                        |              |                    |                                                              |                          |        |                                                                                     |                  |        |                                 |                  |
| MH<br>Name                                         | MH<br>CL (m) | MH<br>Depth<br>(m) | MH<br>Connection                                             | MH<br>Diam., L*W<br>(mm) | PN     | Pipe Out<br>Invert<br>Level (m)                                                     | Diameter<br>(mm) | PN     | Pipes In<br>Invert<br>Level (m) | Diameter<br>(mm) |
| SW04                                               | 4.440        | 2.150              | Open Manhole                                                 | 1500                     | 1.012  | 2.290                                                                               | 450              | 13.000 | 2.897                           | 225              |
| SW-FUT-01-PlotsN                                   | 4.000        | 1.200              | Open Manhole                                                 | 450                      | 14.000 | 2.800                                                                               | 150              | 1.011  | 2.290                           | 450              |
| SW-FUT-01-PlotsS                                   | 4.000        | 1.200              | Open Manhole                                                 | 450                      | 15.000 | 2.800                                                                               | 150              |        |                                 |                  |
| SW-FUT-01                                          | 4.000        | 1.440              | Open Manhole                                                 | 1200                     | 14.001 | 2.560                                                                               | 300              | 14.000 | 2.650                           | 150              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 15.000 | 2.650                           | 150              |
| Permbase 02                                        | 3.800        | 1.380              | Open Manhole                                                 | 1200                     | 14.002 | 2.420                                                                               | 300              | 14.001 | 2.420                           | 300              |
| Plots 80-86                                        | 4.100        | 1.550              | Open Manhole                                                 | 450                      | 16.000 | 2.550                                                                               | 150              |        |                                 |                  |
| Plots 87-94                                        | 4.300        | 1.698              | Open Manhole                                                 | 450                      | 17.000 | 2.602                                                                               | 225              |        |                                 |                  |
| SW05                                               | 4.170        | 2.020              | Open Manhole                                                 | 1500                     | 1.013  | 2.150                                                                               | 450              | 1.012  | 2.150                           | 450              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 14.002 | 2.300                           | 300              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 16.000 | 2.300                           | 150              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 17.000 | 2.300                           | 225              |
| C2 Resiblock A                                     | 4.300        | 1.980              | Open Manhole                                                 | 450                      | 18.000 | 2.320                                                                               | 225              |        |                                 |                  |
| SW06                                               | 3.700        | 1.710              | Open Manhole                                                 | 1500                     | 1.014  | 1.990                                                                               | 450              | 1.013  | 1.990                           | 450              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 18.000 | 2.054                           | 225              |
| Permbase 03                                        | 3.600        | 1.700              | Open Manhole                                                 | 1500                     | 1.015  | 1.900                                                                               | 450              | 1.014  | 1.900                           | 450              |
| SW-FUT-02-PlotN                                    | 3.700        | 1.100              | Open Manhole                                                 | 450                      | 19.000 | 2.600                                                                               | 150              |        |                                 |                  |
| SW-FUT-02-Plots                                    | 3.700        | 1.100              | Open Manhole                                                 | 450                      | 20.000 | 2.600                                                                               | 150              |        |                                 |                  |
| SW-FUT-02                                          | 4.280        | 1.960              | Open Manhole                                                 | 1200                     | 19.001 | 2.320                                                                               | 300              | 19.000 | 2.470                           | 150              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 20.000 | 2.470                           | 150              |
| Permbase 04                                        | 4.000        | 1.825              | Open Manhole                                                 | 1200                     | 19.002 | 2.175                                                                               | 300              | 19.001 | 2.175                           | 300              |
| Plots 60-73                                        | 3.900        | 1.300              | Open Manhole                                                 | 450                      | 21.000 | 2.600                                                                               | 150              |        |                                 |                  |
| Plots 74-78                                        | 3.900        | 1.300              | Open Manhole                                                 | 450                      | 22.000 | 2.600                                                                               | 150              |        |                                 |                  |
| SW07                                               | 3.870        | 1.770              | Open Manhole                                                 | 1200                     | 19.003 | 2.100                                                                               | 300              | 19.002 | 2.100                           | 300              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 21.000 | 2.560                           | 150              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 22.000 | 2.500                           | 150              |
| Permbase 05                                        | 3.760        | 1.705              | Open Manhole                                                 | 1200                     | 19.004 | 2.055                                                                               | 300              | 19.003 | 2.055                           | 300              |
| Plots 39-46                                        | 4.300        | 1.060              | Open Manhole                                                 | 1200                     | 23.000 | 3.240                                                                               | 150              |        |                                 |                  |
| SW-LYM 01                                          | 5.040        | 1.300              | Open Manhole                                                 | 1200                     | 24.000 | 3.740                                                                               | 225              |        |                                 |                  |
| Non resi                                           | 5.200        | 1.200              | Open Manhole                                                 | 1200                     | 25.000 | 4.000                                                                               | 450              |        |                                 |                  |
| Non resi                                           | 5.200        | 1.480              | Open Manhole                                                 | 1200                     | 25.001 | 3.720                                                                               | 225              | 25.000 | 3.720                           | 450              |
| SW-LYM 02                                          | 5.500        | 1.860              | Open Manhole                                                 | 1200                     | 24.001 | 3.640                                                                               | 225              | 24.000 | 3.640                           | 225              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 25.001 | 3.640                           | 225              |
| Parcel A1                                          | 7.000        | 3.000              | Open Manhole                                                 | 1200                     | 26.000 | 4.000                                                                               | 450              |        |                                 |                  |
| As-built SA8                                       | 6.000        | 2.237              | Open Manhole                                                 | 1200                     | 26.001 | 3.763                                                                               | 225              | 26.000 | 3.763                           | 450              |
| Non Resi                                           | 6.000        | 2.000              | Open Manhole                                                 | 1200                     | 27.000 | 4.000                                                                               | 450              |        |                                 |                  |
| SW Stub 02                                         | 6.000        | 2.360              | Open Manhole                                                 | 1200                     | 27.001 | 3.640                                                                               | 225              | 27.000 | 3.640                           | 450              |
| SW-LYM 03/1                                        | 5.920        | 2.350              | Open Manhole                                                 | 1200                     | 26.002 | 3.570                                                                               | 225              | 26.001 | 3.570                           | 225              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 27.001 | 3.570                           | 225              |
| SW-LYM 03                                          | 6.300        | 2.950              | Open Manhole                                                 | 1200                     | 24.002 | 3.350                                                                               | 225              | 24.001 | 3.425                           | 225              |
|                                                    |              |                    |                                                              |                          |        |                                                                                     |                  | 26.002 | 3.425                           | 225              |
| SW-LYM 04                                          | 6.640        | 3.415              | Open Manhole                                                 | 1200                     | 24.003 | 3.225                                                                               | 300              | 24.002 | 3.225                           | 225              |
| SW-LYM 07                                          | 5.370        | 1.500              | Open Manhole                                                 | 1200                     | 28.000 | 3.870                                                                               | 225              |        |                                 |                  |
| SW-LYM 08                                          | 6.140        | 2.470              | Open Manhole                                                 | 1200                     | 28.001 | 3.670                                                                               | 225              | 28.000 | 3.670                           | 225              |
| SW-LYM 05A                                         | 7.570        | 0.370              | Open Manhole                                                 | 1200                     | 29.000 | 7.200                                                                               | 300              |        |                                 |                  |
| SW-LYM 05                                          | 7.250        | 1.710              | Open Manhole                                                 | 1200                     | 29.001 | 5.540                                                                               | 300              | 29.000 | 6.070                           | 300              |
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|------------------------------------------------|-----------|--------------|--------------------------------------------------------------|--------------------|--------|-------------------------------------------------------------------------------------|---------------|--------|---------------------------|---------------|---------------|
| Lion House<br>Oriental Road<br>Woking GU22 8AR |           |              | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                    |        |  |               |        |                           |               |               |
| Date January 2018                              |           |              | Designed by S Foley                                          |                    |        |                                                                                     |               |        |                           |               |               |
| File WEST CATCHMENT MODEL_...                  |           |              | Checked by                                                   |                    |        |                                                                                     |               |        |                           |               |               |
| XP Solutions                                   |           |              | Network 2013.1                                               |                    |        |                                                                                     |               |        |                           |               |               |
| Manhole Schedules for Storm                    |           |              |                                                              |                    |        |                                                                                     |               |        |                           |               |               |
| MH Name                                        | MH CL (m) | MH Depth (m) | MH Connection                                                | MH Diam., L*W (mm) | PN     | Pipe Out Invert Level (m)                                                           | Diameter (mm) | PN     | Pipes In Invert Level (m) | Diameter (mm) | Backdrop (mm) |
| SW-LYM 10                                      | 6.640     | 3.650        | Open Manhole                                                 | 1500               | 24.004 | 2.990                                                                               | 375           | 24.003 | 3.065                     | 300           | 2475          |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 28.001 | 3.140                     | 225           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 29.001 | 5.540                     | 300           |               |
| SW-LYM11                                       | 5.900     | 3.220        | Open Manhole                                                 | 1350               | 24.005 | 2.680                                                                               | 450           | 24.004 | 2.760                     | 375           | 5             |
| ExSB17_Dum Node                                | 6.360     | 2.660        | Open Manhole                                                 | 1200               | 30.000 | 3.700                                                                               | 225           |        |                           |               | 415           |
| SW-LYM 12                                      | 6.380     | 3.860        | Open Manhole                                                 | 1350               | 24.006 | 2.520                                                                               | 450           | 24.005 | 2.520                     | 450           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 30.000 | 3.160                     | 225           |               |
| SW-FUT-03                                      | 6.260     | 4.020        | Open Manhole                                                 | 1350               | 24.007 | 2.240                                                                               | 450           | 24.006 | 2.240                     | 450           | 5             |
| Stub SW18/1                                    | 4.300     | 1.800        | Open Manhole                                                 | 1200               | 31.000 | 2.500                                                                               | 225           |        |                           |               |               |
| SW18                                           | 4.680     | 2.300        | Open Manhole                                                 | 1200               | 31.001 | 2.380                                                                               | 225           | 31.000 | 2.380                     | 225           |               |
| SW19                                           | 5.100     | 3.130        | Open Manhole                                                 | 1350               | 24.008 | 1.970                                                                               | 450           | 24.007 | 1.970                     | 450           | 125           |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 31.001 | 2.200                     | 225           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 24.008 | 1.800                     | 450           |               |
| SW20                                           | 5.000     | 3.240        | Open Manhole                                                 | 1800               | 24.009 | 1.760                                                                               | 525           |        |                           |               | 150           |
| Car Park                                       | 5.000     | 1.500        | Open Manhole                                                 | 1200               | 32.000 | 3.500                                                                               | 450           |        |                           |               |               |
| Car Park                                       | 5.000     | 1.600        | Open Manhole                                                 | 1200               | 32.001 | 3.400                                                                               | 150           | 32.000 | 3.400                     | 450           |               |
| Non Resi                                       | 5.300     | 2.600        | Open Manhole                                                 | 1200               | 33.000 | 2.700                                                                               | 450           |        |                           |               | 330           |
| Stub SW9/1                                     | 5.300     | 2.700        | Open Manhole                                                 | 1200               | 33.001 | 2.600                                                                               | 225           | 33.000 | 2.600                     | 450           |               |
| SW08                                           | 4.900     | 1.350        | Open Manhole                                                 | 1200               | 34.000 | 3.550                                                                               | 225           |        |                           |               |               |
| Non Resi                                       | 5.100     | 2.400        | Open Manhole                                                 | 1200               | 35.000 | 2.700                                                                               | 450           |        |                           |               | 150           |
| Stub SW9/2                                     | 5.100     | 2.600        | Open Manhole                                                 | 1200               | 35.001 | 2.500                                                                               | 225           | 35.000 | 2.500                     | 450           |               |
| Plots 1 - 4                                    | 5.200     | 0.890        | Open Manhole                                                 | 450                | 36.000 | 4.310                                                                               | 150           |        |                           |               |               |
| SW09                                           | 5.070     | 2.670        | Open Manhole                                                 | 1200               | 33.002 | 2.400                                                                               | 225           | 33.001 | 2.400                     | 225           | 125           |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 34.000 | 2.400                     | 225           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 35.001 | 2.400                     | 225           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 36.000 | 2.600                     | 150           | 150           |
| SW12                                           | 4.320     | 1.530        | Open Manhole                                                 | 1200               | 37.000 | 2.790                                                                               | 225           |        |                           |               |               |
| SW13                                           | 4.020     | 1.340        | Open Manhole                                                 | 1200               | 37.001 | 2.680                                                                               | 225           | 37.000 | 2.680                     | 225           |               |
| SW14                                           | 4.020     | 1.500        | Open Manhole                                                 | 1200               | 37.002 | 2.600                                                                               | 225           | 37.001 | 2.520                     | 225           | 330           |
| SW15                                           | 4.600     | 2.430        | Open Manhole                                                 | 1200               | 37.003 | 2.170                                                                               | 300           | 37.002 | 2.230                     | 225           |               |
| Plots 16-22                                    | 4.700     | 1.260        | Open Manhole                                                 | 450                | 38.000 | 3.440                                                                               | 150           |        |                           |               |               |
| SW16                                           | 4.650     | 2.550        | Open Manhole                                                 | 1200               | 33.003 | 2.100                                                                               | 300           | 33.002 | 2.100                     | 225           | 150           |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 37.003 | 2.100                     | 300           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 38.000 | 2.400                     | 150           |               |
| SW17                                           | 5.000     | 3.180        | Open Manhole                                                 | 1200               | 33.004 | 1.820                                                                               | 450           | 33.003 | 1.820                     | 300           | 330           |
| SW21                                           | 5.000     | 3.340        | Open Manhole                                                 | 1800               | 24.010 | 1.660                                                                               | 900           | 24.009 | 1.660                     | 525           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 32.001 | 1.710                     | 150           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 33.004 | 1.660                     | 450           | 330           |
| SW22                                           | 4.270     | 2.640        | Open Manhole                                                 | 1800               | 23.001 | 1.630                                                                               | 900           | 23.000 | 2.305                     | 150           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 24.010 | 1.630                     | 900           |               |
| Plots 47-55                                    | 4.100     | 1.600        | Open Manhole                                                 | 1200               | 39.000 | 2.500                                                                               | 225           |        |                           |               | 330           |
| SW23                                           | 3.900     | 2.405        | Open Manhole                                                 | 1800               | 23.002 | 1.495                                                                               | 900           | 23.001 | 1.495                     | 900           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 39.000 | 2.500                     | 225           |               |
| SW24                                           | 3.810     | 2.400        | Open Manhole                                                 | 1800               | 1.016  | 1.410                                                                               | 900           | 1.015  | 1.860                     | 450           | 330           |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 19.004 | 2.010                     | 300           |               |
|                                                |           |              |                                                              |                    |        |                                                                                     |               | 23.002 | 1.410                     | 900           |               |
| Permbase 06                                    | 3.800     | 2.500        | Open Manhole                                                 | 1800               | 1.017  | 1.300                                                                               | 900           | 1.016  | 1.300                     | 900           | 330           |
| Plots                                          | 3.700     | 1.330        | Open Manhole                                                 | 1200               | 40.000 | 2.370                                                                               | 225           |        |                           |               |               |
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|                               |                         |                                                                                     |
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| Mayer Brown Ltd               |                         | Page 10                                                                             |
| Lion House                    | Littlehampton           |  |
| Oriental Road                 | Overall Surface Network |                                                                                     |
| Woking GU22 8AR               | West of Wetlands        |                                                                                     |
| Date January 2018             | Designed by S Foley     |                                                                                     |
| File WEST CATCHMENT MODEL_... | Checked by              |                                                                                     |
| XP Solutions                  | Network 2013.1          |                                                                                     |

#### Manhole Schedules for Storm

| MH Name     | MH CL (m) | MH Depth (m) | MH Connection | MH Diam., L*W (mm) | PN     | Pipe Out Invert Level (m) | Diameter (mm) | PN     | Pipes In Invert Level (m) | Diameter (mm) | Backdrop (mm) |
|-------------|-----------|--------------|---------------|--------------------|--------|---------------------------|---------------|--------|---------------------------|---------------|---------------|
| Stub SW25/1 | 3.720     | 1.730        | Open Manhole  | 1200               | 40.001 | 1.990                     | 225           | 40.000 | 2.140                     | 225           | 150           |
| Stub SW25/2 | 3.680     | 1.640        | Open Manhole  | 1200               | 41.000 | 2.040                     | 225           |        |                           |               |               |
| SW25        | 3.600     | 2.400        | Open Manhole  | 1800               | 1.018  | 1.200                     | 525           | 1.017  | 1.280                     | 900           | 455           |
|             |           |              |               |                    |        |                           |               | 40.001 | 1.960                     | 225           | 460           |
|             |           |              |               |                    |        |                           |               | 41.000 | 1.960                     | 225           | 460           |
| Outfall B   | 1.750     | 0.750        | Open Manhole  | 0                  |        | OUTFALL                   |               | 1.018  | 1.000                     | 525           |               |

|                                                |            |             |                                                              |             |             |                                                                                     |               |                    |
|------------------------------------------------|------------|-------------|--------------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------|---------------|--------------------|
| Mayer Brown Ltd                                |            |             |                                                              | Page 11     |             |                                                                                     |               |                    |
| Lion House<br>Oriental Road<br>Woking GU22 8AR |            |             | Littlehampton<br>Overall Surface Network<br>West of Wetlands |             |             |  |               |                    |
| Date January 2018                              |            |             | Designed by S Foley                                          |             |             |                                                                                     |               |                    |
| File WEST CATCHMENT MODEL_...                  |            |             | Checked by                                                   |             |             |                                                                                     |               |                    |
| XP Solutions                                   |            |             | Network 2013.1                                               |             |             |                                                                                     |               |                    |
| PIPELINE SCHEDULES for Storm                   |            |             |                                                              |             |             |                                                                                     |               |                    |
| Upstream Manhole                               |            |             |                                                              |             |             |                                                                                     |               |                    |
| PN                                             | Hyd Sect   | Diam (mm)   | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |
| 1.000                                          | o          | 300         | TL_SW01                                                      | 6.380       | 5.170       | 0.910                                                                               | Open Manhole  | 1050               |
| 1.001                                          | o          | 300         | TL_SW02                                                      | 6.790       | 4.919       | 1.571                                                                               | Open Manhole  | 1200               |
| 2.000                                          | o          | 300         | Parcel A2_1                                                  | 6.800       | 5.200       | 1.300                                                                               | Open Manhole  | 1200               |
| 2.001                                          | o          | 150         | Parcel A2_2                                                  | 6.900       | 5.000       | 1.750                                                                               | Open Manhole  | 1200               |
| 1.002                                          | o          | 300         | TL_SW03                                                      | 6.800       | 4.756       | 1.744                                                                               | Open Manhole  | 1200               |
| 3.000                                          | o          | 300         | Parcel B6_1                                                  | 6.900       | 5.000       | 1.600                                                                               | Open Manhole  | 1200               |
| 3.001                                          | o          | 150         | Parcel B6_2                                                  | 6.900       | 4.800       | 1.950                                                                               | Open Manhole  | 1200               |
| 1.003                                          | o          | 300         | TL_SW04                                                      | 6.780       | 4.635       | 1.845                                                                               | Open Manhole  | 1200               |
| 1.004                                          | o          | 300         | TL_SW05                                                      | 6.380       | 4.335       | 1.745                                                                               | Open Manhole  | 1200               |
| 4.000                                          | o          | 300         | Parcel B1&CH_1                                               | 7.220       | 4.200       | 2.720                                                                               | Open Manhole  | 1200               |
| 4.001                                          | o          | 150         | Parcel B1&CH 2                                               | 7.220       | 4.135       | 2.935                                                                               | Open Manhole  | 1200               |
| 1.005                                          | o          | 300         | Ex. SB10                                                     | 7.055       | 3.910       | 2.845                                                                               | Open Manhole  | 1200               |
| 1.006                                          | o          | 300         | Ex. SB9                                                      | 6.900       | 3.770       | 2.830                                                                               | Open Manhole  | 1200               |
| 5.000                                          | o          | 300         | Block B_1                                                    | 6.380       | 4.500       | 1.580                                                                               | Open Manhole  | 1200               |
| 5.001                                          | o          | 150         | Block B_2                                                    | 6.380       | 3.905       | 2.325                                                                               | Open Manhole  | 1200               |
| 5.002                                          | o          | 300         | Ex. SB17                                                     | 6.360       | 3.650       | 2.410                                                                               | Open Manhole  | 1200               |
| 1.007                                          | o          | 300         | Ex. SB8                                                      | 6.570       | 3.500       | 2.770                                                                               | Open Manhole  | 1350               |
| 6.000                                          | o          | 375         | BovisA_1                                                     | 5.600       | 4.100       | 1.125                                                                               | Open Manhole  | 1200               |
| 6.001                                          | o          | 375         | BovisA_2                                                     | 5.600       | 4.000       | 1.225                                                                               | Open Manhole  | 1200               |
| Downstream Manhole                             |            |             |                                                              |             |             |                                                                                     |               |                    |
| PN                                             | Length (m) | Slope (1:X) | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |
| 1.000                                          | 59.000     | 235.1       | TL_SW02                                                      | 6.790       | 4.919       | 1.571                                                                               | Open Manhole  | 1200               |
| 1.001                                          | 38.000     | 233.1       | TL_SW03                                                      | 6.800       | 4.756       | 1.744                                                                               | Open Manhole  | 1200               |
| 2.000                                          | 12.808     | 64.0        | Parcel A2_2                                                  | 6.900       | 5.000       | 1.600                                                                               | Open Manhole  | 1200               |
| 2.001                                          | 12.001     | 150.0       | TL_SW03                                                      | 6.800       | 4.920       | 1.730                                                                               | Open Manhole  | 1200               |
| 1.002                                          | 27.675     | 228.7       | TL_SW04                                                      | 6.780       | 4.635       | 1.845                                                                               | Open Manhole  | 1200               |
| 3.000                                          | 19.930     | 99.7        | Parcel B6_2                                                  | 6.900       | 4.800       | 1.800                                                                               | Open Manhole  | 1200               |
| 3.001                                          | 10.000     | 149.3       | TL_SW04                                                      | 6.780       | 4.733       | 1.897                                                                               | Open Manhole  | 1200               |
| 1.003                                          | 70.062     | 233.5       | TL_SW05                                                      | 6.380       | 4.335       | 1.745                                                                               | Open Manhole  | 1200               |
| 1.004                                          | 94.210     | 221.7       | Ex. SB10                                                     | 7.055       | 3.910       | 2.845                                                                               | Open Manhole  | 1200               |
| 4.000                                          | 20.000     | 307.7       | Parcel B1&CH 2                                               | 7.220       | 4.135       | 2.785                                                                               | Open Manhole  | 1200               |
| 4.001                                          | 14.532     | 149.8       | Ex. SB10                                                     | 7.055       | 4.038       | 2.867                                                                               | Open Manhole  | 1200               |
| 1.005                                          | 30.500     | 217.9       | Ex. SB9                                                      | 6.900       | 3.770       | 2.830                                                                               | Open Manhole  | 1200               |
| 1.006                                          | 59.368     | 219.9       | Ex. SB8                                                      | 6.570       | 3.500       | 2.770                                                                               | Open Manhole  | 1350               |
| 5.000                                          | 19.999     | 33.6        | Block B_2                                                    | 6.380       | 3.905       | 2.175                                                                               | Open Manhole  | 1200               |
| 5.001                                          | 14.532     | 138.4       | Ex. SB17                                                     | 6.360       | 3.800       | 2.410                                                                               | Open Manhole  | 1200               |
| 5.002                                          | 36.500     | 243.3       | Ex. SB8                                                      | 6.570       | 3.500       | 2.770                                                                               | Open Manhole  | 1350               |
| 1.007                                          | 88.421     | 294.7       | Ex SB7                                                       | 5.810       | 3.200       | 2.310                                                                               | Open Manhole  | 1350               |
| 6.000                                          | 20.006     | 200.1       | BovisA_2                                                     | 5.600       | 4.000       | 1.225                                                                               | Open Manhole  | 1200               |
| 6.001                                          | 14.650     | 16.7        | Ex SB7                                                       | 5.810       | 3.125       | 2.310                                                                               | Open Manhole  | 1350               |
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|                                                    |            |             |                                                              |             |             |                                                                                     |               |                    |  |
|----------------------------------------------------|------------|-------------|--------------------------------------------------------------|-------------|-------------|-------------------------------------------------------------------------------------|---------------|--------------------|--|
| Mayer Brown Ltd                                    |            |             |                                                              | Page 12     |             |                                                                                     |               |                    |  |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     |            |             | Littlehampton<br>Overall Surface Network<br>West of Wetlands |             |             |  |               |                    |  |
| Date January 2018<br>File WEST CATCHMENT MODEL_... |            |             | Designed by S Foley<br>Checked by                            |             |             |                                                                                     |               |                    |  |
| XP Solutions                                       |            |             | Network 2013.1                                               |             |             |                                                                                     |               |                    |  |
| PIPELINE SCHEDULES for Storm                       |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| Upstream Manhole                                   |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| PN                                                 | Hyd Sect   | Diam (mm)   | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |  |
| 1.008                                              | o          | 375         | Ex SB7                                                       | 5.810       | 3.125       | 2.310                                                                               | Open Manhole  | 1350               |  |
| 7.000                                              | o          | 375         | BovisB_1                                                     | 4.650       | 3.400       | 0.875                                                                               | Open Manhole  | 1200               |  |
| 7.001                                              | o          | 375         | BovisB_2                                                     | 4.650       | 3.225       | 1.050                                                                               | Open Manhole  | 1200               |  |
| 1.009                                              | o          | 450         | Dummy Node                                                   | 4.700       | 2.725       | 1.525                                                                               | Open Manhole  | 1200               |  |
| 8.000                                              | o          | 150         | Plots 123 - 126                                              | 4.050       | 3.155       | 0.745                                                                               | Open Manhole  | 450                |  |
| 9.000                                              | o          | 150         | Plots 111 - 116                                              | 4.050       | 3.136       | 0.764                                                                               | Open Manhole  | 450                |  |
| 8.001                                              | o          | 225         | SW01, G01&G02                                                | 3.850       | 3.040       | 0.585                                                                               | Open Manhole  | 1200               |  |
| 8.002                                              | o          | 225         | Permbase 01                                                  | 3.850       | 3.020       | 0.605                                                                               | Open Manhole  | 1200               |  |
| 10.000                                             | o          | 150         | Plots 117 - 122                                              | 4.050       | 3.165       | 0.735                                                                               | Open Manhole  | 450                |  |
| 10.001                                             | o          | 225         | Stub SW02/2                                                  | 4.500       | 2.868       | 1.407                                                                               | Open Manhole  | 450                |  |
| 11.000                                             | o          | 225         | Plots 101-110                                                | 4.400       | 3.000       | 1.175                                                                               | Open Manhole  | 450                |  |
| 8.003                                              | o          | 225         | SW02                                                         | 4.360       | 2.830       | 1.305                                                                               | Open Manhole  | 1200               |  |
| 1.010                                              | o          | 450         | Ex SB6                                                       | 4.700       | 2.625       | 1.625                                                                               | Open Manhole  | 1500               |  |
| 12.000                                             | o          | 300         | Ret Block A                                                  | 4.700       | 3.000       | 1.400                                                                               | Open Manhole  | 1200               |  |
| 12.001                                             | o          | 150         | Ret Block A                                                  | 4.600       | 2.900       | 1.550                                                                               | Open Manhole  | 1050               |  |
| 13.000                                             | o          | 225         | Plots 95-100                                                 | 4.600       | 3.000       | 1.375                                                                               | Open Manhole  | 450                |  |
| Downstream Manhole                                 |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| PN                                                 | Length (m) | Slope (1:X) | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |  |
| 1.008                                              | 77.584     | 194.0       | Dummy Node                                                   | 4.700       | 2.725       | 1.600                                                                               | Open Manhole  | 1200               |  |
| 7.000                                              | 20.000     | 114.3       | BovisB_2                                                     | 4.650       | 3.225       | 1.050                                                                               | Open Manhole  | 1200               |  |
| 7.001                                              | 13.401     | 31.5        | Dummy Node                                                   | 4.700       | 2.800       | 1.525                                                                               | Open Manhole  | 1200               |  |
| 1.009                                              | 4.916      | 196.6       | Ex SB6                                                       | 4.700       | 2.700       | 1.550                                                                               | Open Manhole  | 1500               |  |
| 8.000                                              | 23.339     | 359.1       | SW01, G01&G02                                                | 3.850       | 3.090       | 0.610                                                                               | Open Manhole  | 1200               |  |
| 9.000                                              | 3.876      | 84.3        | SW01, G01&G02                                                | 3.850       | 3.090       | 0.610                                                                               | Open Manhole  | 1200               |  |
| 8.001                                              | 5.600      | 280.0       | Permbase 01                                                  | 3.850       | 3.020       | 0.605                                                                               | Open Manhole  | 1200               |  |
| 8.002                                              | 45.386     | 238.9       | SW02                                                         | 4.360       | 2.830       | 1.305                                                                               | Open Manhole  | 1200               |  |
| 10.000                                             | 33.343     | 112.3       | Stub SW02/2                                                  | 4.500       | 2.868       | 1.482                                                                               | Open Manhole  | 450                |  |
| 10.001                                             | 6.800      | 178.9       | SW02                                                         | 4.360       | 2.830       | 1.305                                                                               | Open Manhole  | 1200               |  |
| 11.000                                             | 6.800      | 109.7       | SW02                                                         | 4.360       | 2.938       | 1.197                                                                               | Open Manhole  | 1200               |  |
| 8.003                                              | 43.824     | 337.1       | Ex SB6                                                       | 4.700       | 2.700       | 1.775                                                                               | Open Manhole  | 1500               |  |
| 1.010                                              | 34.073     | 219.8       | SW03                                                         | 4.370       | 2.470       | 1.450                                                                               | Open Manhole  | 1500               |  |
| 12.000                                             | 40.643     | 406.4       | Ret Block A                                                  | 4.600       | 2.900       | 1.400                                                                               | Open Manhole  | 1050               |  |
| 12.001                                             | 9.903      | 76.2        | SW03                                                         | 4.370       | 2.770       | 1.450                                                                               | Open Manhole  | 1500               |  |
| 13.000                                             | 6.000      | 58.3        | SW03                                                         | 4.370       | 2.897       | 1.248                                                                               | Open Manhole  | 1500               |  |
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| Mayer Brown Ltd                                    |            |             |                                                              | Page 13     |             |                                                                                     |               |                    |  |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     |            |             | Littlehampton<br>Overall Surface Network<br>West of Wetlands |             |             |  |               |                    |  |
| Date January 2018<br>File WEST CATCHMENT MODEL_... |            |             | Designed by S Foley<br>Checked by                            |             |             |                                                                                     |               |                    |  |
| XP Solutions                                       |            |             | Network 2013.1                                               |             |             |                                                                                     |               |                    |  |
| PIPELINE SCHEDULES for Storm                       |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| Upstream Manhole                                   |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| PN                                                 | Hyd Sect   | Diam (mm)   | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |  |
| 1.011                                              | o          | 450         | SW03                                                         | 4.370       | 2.470       | 1.450                                                                               | Open Manhole  | 1500               |  |
| 1.012                                              | o          | 450         | SW04                                                         | 4.440       | 2.290       | 1.700                                                                               | Open Manhole  | 1500               |  |
| 14.000                                             | o          | 150         | SW-FUT-01-PlotsN                                             | 4.000       | 2.800       | 1.050                                                                               | Open Manhole  | 450                |  |
| 15.000                                             | o          | 150         | SW-FUT-01-PlotsS                                             | 4.000       | 2.800       | 1.050                                                                               | Open Manhole  | 450                |  |
| 14.001                                             | o          | 300         | SW-FUT-01                                                    | 4.000       | 2.560       | 1.140                                                                               | Open Manhole  | 1200               |  |
| 14.002                                             | o          | 300         | Permbase 02                                                  | 3.800       | 2.420       | 1.080                                                                               | Open Manhole  | 1200               |  |
| 16.000                                             | o          | 150         | Plots 80-86                                                  | 4.100       | 2.550       | 1.400                                                                               | Open Manhole  | 450                |  |
| 17.000                                             | o          | 225         | Plots 87-94                                                  | 4.300       | 2.602       | 1.473                                                                               | Open Manhole  | 450                |  |
| 1.013                                              | o          | 450         | SW05                                                         | 4.170       | 2.150       | 1.570                                                                               | Open Manhole  | 1500               |  |
| 18.000                                             | o          | 225         | C2 Resiblock A                                               | 4.300       | 2.320       | 1.755                                                                               | Open Manhole  | 450                |  |
| 1.014                                              | o          | 450         | SW06                                                         | 3.700       | 1.990       | 1.260                                                                               | Open Manhole  | 1500               |  |
| 1.015                                              | o          | 450         | Permbase 03                                                  | 3.600       | 1.900       | 1.250                                                                               | Open Manhole  | 1500               |  |
| 19.000                                             | o          | 150         | SW-FUT-02-PlotN                                              | 3.700       | 2.600       | 0.950                                                                               | Open Manhole  | 450                |  |
| 20.000                                             | o          | 150         | SW-FUT-02-PlotS                                              | 3.700       | 2.600       | 0.950                                                                               | Open Manhole  | 450                |  |
| 19.001                                             | o          | 300         | SW-FUT-02                                                    | 4.280       | 2.320       | 1.660                                                                               | Open Manhole  | 1200               |  |
| 19.002                                             | o          | 300         | Permbase 04                                                  | 4.000       | 2.175       | 1.525                                                                               | Open Manhole  | 1200               |  |
| Downstream Manhole                                 |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| PN                                                 | Length (m) | Slope (1:X) | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |  |
| 1.011                                              | 28.223     | 156.8       | SW04                                                         | 4.440       | 2.290       | 1.700                                                                               | Open Manhole  | 1500               |  |
| 1.012                                              | 22.432     | 160.2       | SW05                                                         | 4.170       | 2.150       | 1.570                                                                               | Open Manhole  | 1500               |  |
| 14.000                                             | 22.905     | 152.7       | SW-FUT-01                                                    | 4.000       | 2.650       | 1.200                                                                               | Open Manhole  | 1200               |  |
| 15.000                                             | 28.097     | 187.3       | SW-FUT-01                                                    | 4.000       | 2.650       | 1.200                                                                               | Open Manhole  | 1200               |  |
| 14.001                                             | 35.213     | 251.5       | Permbase 02                                                  | 3.800       | 2.420       | 1.080                                                                               | Open Manhole  | 1200               |  |
| 14.002                                             | 28.603     | 238.4       | SW05                                                         | 4.170       | 2.300       | 1.570                                                                               | Open Manhole  | 1500               |  |
| 16.000                                             | 12.624     | 50.5        | SW05                                                         | 4.170       | 2.300       | 1.720                                                                               | Open Manhole  | 1500               |  |
| 17.000                                             | 7.200      | 23.8        | SW05                                                         | 4.170       | 2.300       | 1.645                                                                               | Open Manhole  | 1500               |  |
| 1.013                                              | 37.575     | 234.8       | SW06                                                         | 3.700       | 1.990       | 1.260                                                                               | Open Manhole  | 1500               |  |
| 18.000                                             | 8.659      | 32.6        | SW06                                                         | 3.700       | 2.054       | 1.421                                                                               | Open Manhole  | 1500               |  |
| 1.014                                              | 22.449     | 249.4       | Permbase 03                                                  | 3.600       | 1.900       | 1.250                                                                               | Open Manhole  | 1500               |  |
| 1.015                                              | 10.000     | 250.0       | SW24                                                         | 3.810       | 1.860       | 1.500                                                                               | Open Manhole  | 1800               |  |
| 19.000                                             | 26.210     | 201.6       | SW-FUT-02                                                    | 4.280       | 2.470       | 1.660                                                                               | Open Manhole  | 1200               |  |
| 20.000                                             | 28.840     | 221.8       | SW-FUT-02                                                    | 4.280       | 2.470       | 1.660                                                                               | Open Manhole  | 1200               |  |
| 19.001                                             | 35.611     | 245.6       | Permbase 04                                                  | 4.000       | 2.175       | 1.525                                                                               | Open Manhole  | 1200               |  |
| 19.002                                             | 18.889     | 251.9       | SW07                                                         | 3.870       | 2.100       | 1.470                                                                               | Open Manhole  | 1200               |  |
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|                                                    |            |             |                                                              |             |             |                                                                                     |               |                    |
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| Mayer Brown Ltd                                    |            |             |                                                              |             |             | Page 14                                                                             |               |                    |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     |            |             | Littlehampton<br>Overall Surface Network<br>West of Wetlands |             |             |  |               |                    |
| Date January 2018<br>File WEST CATCHMENT MODEL_... |            |             | Designed by S Foley<br>Checked by                            |             |             |                                                                                     |               |                    |
| XP Solutions                                       |            |             | Network 2013.1                                               |             |             |                                                                                     |               |                    |
| PIPELINE SCHEDULES for Storm                       |            |             |                                                              |             |             |                                                                                     |               |                    |
| Upstream Manhole                                   |            |             |                                                              |             |             |                                                                                     |               |                    |
| PN                                                 | Hyd Sect   | Diam (mm)   | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |
| 21.000                                             | o          | 150         | Plots 60-73                                                  | 3.900       | 2.600       | 1.150                                                                               | Open Manhole  | 450                |
| 22.000                                             | o          | 150         | Plots 74-78                                                  | 3.900       | 2.600       | 1.150                                                                               | Open Manhole  | 450                |
| 19.003                                             | o          | 300         | SW07                                                         | 3.870       | 2.100       | 1.470                                                                               | Open Manhole  | 1200               |
| 19.004                                             | o          | 300         | Permbase 05                                                  | 3.760       | 2.055       | 1.405                                                                               | Open Manhole  | 1200               |
| 23.000                                             | o          | 150         | Plots 39-46                                                  | 4.300       | 3.240       | 0.910                                                                               | Open Manhole  | 1200               |
| 24.000                                             | o          | 225         | SW-LYM 01                                                    | 5.040       | 3.740       | 1.075                                                                               | Open Manhole  | 1200               |
| 25.000                                             | o          | 450         | Non resi                                                     | 5.200       | 4.000       | 0.750                                                                               | Open Manhole  | 1200               |
| 25.001                                             | o          | 225         | Non resi                                                     | 5.200       | 3.720       | 1.255                                                                               | Open Manhole  | 1200               |
| 24.001                                             | o          | 225         | SW-LYM 02                                                    | 5.500       | 3.640       | 1.635                                                                               | Open Manhole  | 1200               |
| 26.000                                             | o          | 450         | Parcel A1                                                    | 7.000       | 4.000       | 2.550                                                                               | Open Manhole  | 1200               |
| 26.001                                             | o          | 225         | As-built SA8                                                 | 6.000       | 3.763       | 2.012                                                                               | Open Manhole  | 1200               |
| 27.000                                             | o          | 450         | Non Resi                                                     | 6.000       | 4.000       | 1.550                                                                               | Open Manhole  | 1200               |
| 27.001                                             | o          | 225         | SW Stub 02                                                   | 6.000       | 3.640       | 2.135                                                                               | Open Manhole  | 1200               |
| 26.002                                             | o          | 225         | SW-LYM 03/1                                                  | 5.920       | 3.570       | 2.125                                                                               | Open Manhole  | 1200               |
| 24.002                                             | o          | 225         | SW-LYM 03                                                    | 6.300       | 3.350       | 2.725                                                                               | Open Manhole  | 1200               |
| 24.003                                             | o          | 300         | SW-LYM 04                                                    | 6.640       | 3.225       | 3.115                                                                               | Open Manhole  | 1200               |
| Downstream Manhole                                 |            |             |                                                              |             |             |                                                                                     |               |                    |
| PN                                                 | Length (m) | Slope (1:X) | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |
| 21.000                                             | 7.800      | 195.0       | SW07                                                         | 3.870       | 2.560       | 1.160                                                                               | Open Manhole  | 1200               |
| 22.000                                             | 9.600      | 96.0        | SW07                                                         | 3.870       | 2.500       | 1.220                                                                               | Open Manhole  | 1200               |
| 19.003                                             | 11.498     | 255.5       | Permbase 05                                                  | 3.760       | 2.055       | 1.405                                                                               | Open Manhole  | 1200               |
| 19.004                                             | 10.000     | 222.2       | SW24                                                         | 3.810       | 2.010       | 1.500                                                                               | Open Manhole  | 1800               |
| 23.000                                             | 6.005      | 6.4         | SW22                                                         | 4.270       | 2.305       | 1.815                                                                               | Open Manhole  | 1800               |
| 24.000                                             | 24.867     | 248.7       | SW-LYM 02                                                    | 5.500       | 3.640       | 1.635                                                                               | Open Manhole  | 1200               |
| 25.000                                             | 39.317     | 140.4       | Non resi                                                     | 5.200       | 3.720       | 1.030                                                                               | Open Manhole  | 1200               |
| 25.001                                             | 13.808     | 172.6       | SW-LYM 02                                                    | 5.500       | 3.640       | 1.635                                                                               | Open Manhole  | 1200               |
| 24.001                                             | 44.896     | 208.8       | SW-LYM 03                                                    | 6.300       | 3.425       | 2.650                                                                               | Open Manhole  | 1200               |
| 26.000                                             | 39.613     | 167.1       | As-built SA8                                                 | 6.000       | 3.763       | 1.787                                                                               | Open Manhole  | 1200               |
| 26.001                                             | 28.513     | 147.7       | SW-LYM 03/1                                                  | 5.920       | 3.570       | 2.125                                                                               | Open Manhole  | 1200               |
| 27.000                                             | 34.498     | 95.8        | SW Stub 02                                                   | 6.000       | 3.640       | 1.910                                                                               | Open Manhole  | 1200               |
| 27.001                                             | 5.111      | 73.0        | SW-LYM 03/1                                                  | 5.920       | 3.570       | 2.125                                                                               | Open Manhole  | 1200               |
| 26.002                                             | 16.877     | 116.4       | SW-LYM 03                                                    | 6.300       | 3.425       | 2.650                                                                               | Open Manhole  | 1200               |
| 24.002                                             | 25.768     | 206.1       | SW-LYM 04                                                    | 6.640       | 3.225       | 3.190                                                                               | Open Manhole  | 1200               |
| 24.003                                             | 43.680     | 273.0       | SW-LYM 10                                                    | 6.640       | 3.065       | 3.275                                                                               | Open Manhole  | 1500               |
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| Mayer Brown Ltd                                |            |             |                                                              | Page 15     |             |                                                                                     |               |                    |  |
| Lion House<br>Oriental Road<br>Woking GU22 8AR |            |             | Littlehampton<br>Overall Surface Network<br>West of Wetlands |             |             |  |               |                    |  |
| Date January 2018                              |            |             | Designed by S Foley                                          |             |             |                                                                                     |               |                    |  |
| File WEST CATCHMENT MODEL_...                  |            |             | Checked by                                                   |             |             |                                                                                     |               |                    |  |
| XP Solutions                                   |            |             | Network 2013.1                                               |             |             |                                                                                     |               |                    |  |
| PIPELINE SCHEDULES for Storm                   |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| Upstream Manhole                               |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| PN                                             | Hyd Sect   | Diam (mm)   | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |  |
| 28.000                                         | o          | 225         | SW-LYM 07                                                    | 5.370       | 3.870       | 1.275                                                                               | Open Manhole  | 1200               |  |
| 28.001                                         | o          | 225         | SW-LYM 08                                                    | 6.140       | 3.670       | 2.245                                                                               | Open Manhole  | 1200               |  |
| 29.000                                         | o          | 300         | SW-LYM 05A                                                   | 7.570       | 7.200       | 0.070                                                                               | Open Manhole  | 1200               |  |
| 29.001                                         | o          | 300         | SW-LYM 05                                                    | 7.250       | 5.540       | 1.410                                                                               | Open Manhole  | 1200               |  |
| 24.004                                         | o          | 375         | SW-LYM 10                                                    | 6.640       | 2.990       | 3.275                                                                               | Open Manhole  | 1500               |  |
| 24.005                                         | o          | 450         | SW-LYM11                                                     | 5.900       | 2.680       | 2.770                                                                               | Open Manhole  | 1350               |  |
| 30.000                                         | o          | 225         | ExSB17_Dum Node                                              | 6.360       | 3.700       | 2.435                                                                               | Open Manhole  | 1200               |  |
| 24.006                                         | o          | 450         | SW-LYM 12                                                    | 6.380       | 2.520       | 3.410                                                                               | Open Manhole  | 1350               |  |
| 24.007                                         | o          | 450         | SW-FUT-03                                                    | 6.260       | 2.240       | 3.570                                                                               | Open Manhole  | 1350               |  |
| 31.000                                         | o          | 225         | Stub SW18/1                                                  | 4.300       | 2.500       | 1.575                                                                               | Open Manhole  | 1200               |  |
| 31.001                                         | o          | 225         | SW18                                                         | 4.680       | 2.380       | 2.075                                                                               | Open Manhole  | 1200               |  |
| 24.008                                         | o          | 450         | SW19                                                         | 5.100       | 1.970       | 2.680                                                                               | Open Manhole  | 1350               |  |
| 24.009                                         | o          | 525         | SW20                                                         | 5.000       | 1.760       | 2.715                                                                               | Open Manhole  | 1800               |  |
| 32.000                                         | o          | 450         | Car Park                                                     | 5.000       | 3.500       | 1.050                                                                               | Open Manhole  | 1200               |  |
| 32.001                                         | o          | 150         | Car Park                                                     | 5.000       | 3.400       | 1.450                                                                               | Open Manhole  | 1200               |  |
| 33.000                                         | o          | 450         | Non Resi                                                     | 5.300       | 2.700       | 2.150                                                                               | Open Manhole  | 1200               |  |
| 33.001                                         | o          | 225         | Stub SW9/1                                                   | 5.300       | 2.600       | 2.475                                                                               | Open Manhole  | 1200               |  |
| 34.000                                         | o          | 225         | SW08                                                         | 4.900       | 3.550       | 1.125                                                                               | Open Manhole  | 1200               |  |
| Downstream Manhole                             |            |             |                                                              |             |             |                                                                                     |               |                    |  |
| PN                                             | Length (m) | Slope (1:X) | MH Name                                                      | C.Level (m) | I.Level (m) | D.Depth (m)                                                                         | MH Connection | MH DIAM., L*W (mm) |  |
| 28.000                                         | 25.335     | 126.7       | SW-LYM 08                                                    | 6.140       | 3.670       | 2.245                                                                               | Open Manhole  | 1200               |  |
| 28.001                                         | 34.164     | 64.5        | SW-LYM 10                                                    | 6.640       | 3.140       | 3.275                                                                               | Open Manhole  | 1500               |  |
| 29.000                                         | 64.700     | 57.3        | SW-LYM 05                                                    | 7.250       | 6.070       | 0.880                                                                               | Open Manhole  | 1200               |  |
| 29.001                                         | 30.927     | 0.0         | SW-LYM 10                                                    | 6.640       | 5.540       | 0.800                                                                               | Open Manhole  | 1500               |  |
| 24.004                                         | 45.590     | 198.2       | SW-LYM11                                                     | 5.900       | 2.760       | 2.765                                                                               | Open Manhole  | 1350               |  |
| 24.005                                         | 38.840     | 242.7       | SW-LYM 12                                                    | 6.380       | 2.520       | 3.410                                                                               | Open Manhole  | 1350               |  |
| 30.000                                         | 26.634     | 49.3        | SW-LYM 12                                                    | 6.380       | 3.160       | 2.995                                                                               | Open Manhole  | 1350               |  |
| 24.006                                         | 37.201     | 132.9       | SW-FUT-03                                                    | 6.260       | 2.240       | 3.570                                                                               | Open Manhole  | 1350               |  |
| 24.007                                         | 63.944     | 236.8       | SW19                                                         | 5.100       | 1.970       | 2.680                                                                               | Open Manhole  | 1350               |  |
| 31.000                                         | 24.684     | 205.7       | SW18                                                         | 4.680       | 2.380       | 2.075                                                                               | Open Manhole  | 1200               |  |
| 31.001                                         | 35.227     | 195.7       | SW19                                                         | 5.100       | 2.200       | 2.675                                                                               | Open Manhole  | 1350               |  |
| 24.008                                         | 19.302     | 113.5       | SW20                                                         | 5.000       | 1.800       | 2.750                                                                               | Open Manhole  | 1800               |  |
| 24.009                                         | 42.970     | 429.7       | SW21                                                         | 5.000       | 1.660       | 2.815                                                                               | Open Manhole  | 1800               |  |
| 32.000                                         | 7.262      | 72.6        | Car Park                                                     | 5.000       | 3.400       | 1.150                                                                               | Open Manhole  | 1200               |  |
| 32.001                                         | 27.748     | 16.4        | SW21                                                         | 5.000       | 1.710       | 3.140                                                                               | Open Manhole  | 1800               |  |
| 33.000                                         | 20.005     | 200.1       | Stub SW9/1                                                   | 5.300       | 2.600       | 2.250                                                                               | Open Manhole  | 1200               |  |
| 33.001                                         | 30.526     | 152.6       | SW09                                                         | 5.070       | 2.400       | 2.445                                                                               | Open Manhole  | 1200               |  |
| 34.000                                         | 30.576     | 26.6        | SW09                                                         | 5.070       | 2.400       | 2.445                                                                               | Open Manhole  | 1200               |  |
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| Mayer Brown Ltd                                |               |                |                                                              | Page 16        |                |                                                                                     |                  |                       |
| Lion House<br>Oriental Road<br>Woking GU22 8AR |               |                | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                |                |  |                  |                       |
| Date January 2018                              |               |                | Designed by S Foley                                          |                |                |                                                                                     |                  |                       |
| File WEST CATCHMENT MODEL_...                  |               |                | Checked by                                                   |                |                |                                                                                     |                  |                       |
| XP Solutions                                   |               |                | Network 2013.1                                               |                |                |                                                                                     |                  |                       |
| PIPELINE SCHEDULES for Storm                   |               |                |                                                              |                |                |                                                                                     |                  |                       |
| Upstream Manhole                               |               |                |                                                              |                |                |                                                                                     |                  |                       |
| PN                                             | Hyd<br>Sect   | Diam<br>(mm)   | MH<br>Name                                                   | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m)                                                                      | MH<br>Connection | MH DIAM., L*W<br>(mm) |
| 35.000                                         | o             | 450            | Non Resi                                                     | 5.100          | 2.700          | 1.950                                                                               | Open Manhole     | 1200                  |
| 35.001                                         | o             | 225            | Stub SW9/2                                                   | 5.100          | 2.500          | 2.375                                                                               | Open Manhole     | 1200                  |
| 36.000                                         | o             | 150            | Plots 1 - 4                                                  | 5.200          | 4.310          | 0.740                                                                               | Open Manhole     | 450                   |
| 33.002                                         | o             | 225            | SW09                                                         | 5.070          | 2.400          | 2.445                                                                               | Open Manhole     | 1200                  |
| 37.000                                         | o             | 225            | SW12                                                         | 4.320          | 2.790          | 1.305                                                                               | Open Manhole     | 1200                  |
| 37.001                                         | o             | 225            | SW13                                                         | 4.020          | 2.680          | 1.115                                                                               | Open Manhole     | 1200                  |
| 37.002                                         | o             | 225            | SW14                                                         | 4.020          | 2.600          | 1.195                                                                               | Open Manhole     | 1200                  |
| 37.003                                         | o             | 300            | SW15                                                         | 4.600          | 2.170          | 2.130                                                                               | Open Manhole     | 1200                  |
| 38.000                                         | o             | 150            | Plots 16-22                                                  | 4.700          | 3.440          | 1.110                                                                               | Open Manhole     | 450                   |
| 33.003                                         | o             | 300            | SW16                                                         | 4.650          | 2.100          | 2.250                                                                               | Open Manhole     | 1200                  |
| 33.004                                         | o             | 450            | SW17                                                         | 5.000          | 1.820          | 2.730                                                                               | Open Manhole     | 1200                  |
| 24.010                                         | o             | 900            | SW21                                                         | 5.000          | 1.660          | 2.440                                                                               | Open Manhole     | 1800                  |
| 23.001                                         | o             | 900            | SW22                                                         | 4.270          | 1.630          | 1.740                                                                               | Open Manhole     | 1800                  |
| 39.000                                         | o             | 225            | Plots 47-55                                                  | 4.100          | 2.500          | 1.375                                                                               | Open Manhole     | 1200                  |
| 23.002                                         | o             | 900            | SW23                                                         | 3.900          | 1.495          | 1.505                                                                               | Open Manhole     | 1800                  |
| 1.016                                          | o             | 900            | SW24                                                         | 3.810          | 1.410          | 1.500                                                                               | Open Manhole     | 1800                  |
| 1.017                                          | o             | 900            | Permbase 06                                                  | 3.800          | 1.300          | 1.600                                                                               | Open Manhole     | 1800                  |
| Downstream Manhole                             |               |                |                                                              |                |                |                                                                                     |                  |                       |
| PN                                             | Length<br>(m) | Slope<br>(1:X) | MH<br>Name                                                   | C.Level<br>(m) | I.Level<br>(m) | D.Depth<br>(m)                                                                      | MH<br>Connection | MH DIAM., L*W<br>(mm) |
| 35.000                                         | 22.482        | 112.4          | Stub SW9/2                                                   | 5.100          | 2.500          | 2.150                                                                               | Open Manhole     | 1200                  |
| 35.001                                         | 5.638         | 56.4           | SW09                                                         | 5.070          | 2.400          | 2.445                                                                               | Open Manhole     | 1200                  |
| 36.000                                         | 16.786        | 9.8            | SW09                                                         | 5.070          | 2.600          | 2.320                                                                               | Open Manhole     | 1200                  |
| 33.002                                         | 45.139        | 150.5          | SW16                                                         | 4.650          | 2.100          | 2.325                                                                               | Open Manhole     | 1200                  |
| 37.000                                         | 21.924        | 199.3          | SW13                                                         | 4.020          | 2.680          | 1.115                                                                               | Open Manhole     | 1200                  |
| 37.001                                         | 23.225        | 145.2          | SW14                                                         | 4.020          | 2.520          | 1.275                                                                               | Open Manhole     | 1200                  |
| 37.002                                         | 42.860        | 115.8          | SW15                                                         | 4.600          | 2.230          | 2.145                                                                               | Open Manhole     | 1200                  |
| 37.003                                         | 16.004        | 228.6          | SW16                                                         | 4.650          | 2.100          | 2.250                                                                               | Open Manhole     | 1200                  |
| 38.000                                         | 5.880         | 5.7            | SW16                                                         | 4.650          | 2.400          | 2.100                                                                               | Open Manhole     | 1200                  |
| 33.003                                         | 7.752         | 27.7           | SW17                                                         | 5.000          | 1.820          | 2.880                                                                               | Open Manhole     | 1200                  |
| 33.004                                         | 49.146        | 307.2          | SW21                                                         | 5.000          | 1.660          | 2.890                                                                               | Open Manhole     | 1800                  |
| 24.010                                         | 7.734         | 257.8          | SW22                                                         | 4.270          | 1.630          | 1.740                                                                               | Open Manhole     | 1800                  |
| 23.001                                         | 49.171        | 364.2          | SW23                                                         | 3.900          | 1.495          | 1.505                                                                               | Open Manhole     | 1800                  |
| 39.000                                         | 5.695         | 0.0            | SW23                                                         | 3.900          | 2.500          | 1.175                                                                               | Open Manhole     | 1800                  |
| 23.002                                         | 34.760        | 408.9          | SW24                                                         | 3.810          | 1.410          | 1.500                                                                               | Open Manhole     | 1800                  |
| 1.016                                          | 45.616        | 414.7          | Permbase 06                                                  | 3.800          | 1.300          | 1.600                                                                               | Open Manhole     | 1800                  |
| 1.017                                          | 6.000         | 300.0          | SW25                                                         | 3.600          | 1.280          | 1.420                                                                               | Open Manhole     | 1800                  |
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|                                                    |                                                              |                                                                                     |
|----------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Mayer Brown Ltd                                    |                                                              | Page 17                                                                             |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     | Littlehampton<br>Overall Surface Network<br>West of Wetlands |  |
| Date January 2018<br>File WEST CATCHMENT MODEL_... | Designed by S Foley<br>Checked by                            |                                                                                     |
| XP Solutions                                       | Network 2013.1                                               |                                                                                     |

### PIPELINE SCHEDULES for Storm

#### Upstream Manhole

| PN     | Hyd Sect | Diam (mm) | MH Name     | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|--------|----------|-----------|-------------|-------------|-------------|-------------|---------------|--------------------|
| 40.000 | o        | 225       | Plots       | 3.700       | 2.370       | 1.105       | Open Manhole  | 1200               |
| 40.001 | o        | 225       | Stub SW25/1 | 3.720       | 1.990       | 1.505       | Open Manhole  | 1200               |
| 41.000 | o        | 225       | Stub SW25/2 | 3.680       | 2.040       | 1.415       | Open Manhole  | 1200               |
| 1.018  | o        | 525       | SW25        | 3.600       | 1.200       | 1.875       | Open Manhole  | 1800               |

#### Downstream Manhole

| PN     | Length (m) | Slope (1:X) | MH Name     | C.Level (m) | I.Level (m) | D.Depth (m) | MH Connection | MH DIAM., L*W (mm) |
|--------|------------|-------------|-------------|-------------|-------------|-------------|---------------|--------------------|
| 40.000 | 34.385     | 149.5       | Stub SW25/1 | 3.720       | 2.140       | 1.355       | Open Manhole  | 1200               |
| 40.001 | 26.630     | 887.7       | SW25        | 3.600       | 1.960       | 1.415       | Open Manhole  | 1800               |
| 41.000 | 30.249     | 378.1       | SW25        | 3.600       | 1.960       | 1.415       | Open Manhole  | 1800               |
| 1.018  | 21.220     | 106.1       | Outfall B   | 1.750       | 1.000       | 0.225       | Open Manhole  | 0                  |

#### Surcharged Outfall Details for Storm

| Outfall Pipe Number | Outfall Name | C. Level (m) | I. Level (m) | Min I. Level (m) | D,L (mm) | W (mm) |
|---------------------|--------------|--------------|--------------|------------------|----------|--------|
|---------------------|--------------|--------------|--------------|------------------|----------|--------|

1.018 Outfall B 1.750 1.000 1.000 0 0

Datum (m) 1.000 Offset (mins) 0

| Time (mins) | Depth (m) | Time (mins) | Depth (m) | Time (mins) | Depth (m) | Time (mins) | Depth (m) | Time (mins) | Depth (m) | Time (mins) | Depth (m) | Time (mins) | Depth (m) |
|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|-------------|-----------|
| 1           | 0.800     | 28          | 0.800     | 55          | 0.800     | 82          | 0.800     | 109         | 0.800     | 136         | 0.800     | 163         | 0.800     |
| 2           | 0.800     | 29          | 0.800     | 56          | 0.800     | 83          | 0.800     | 110         | 0.800     | 137         | 0.800     | 164         | 0.800     |
| 3           | 0.800     | 30          | 0.800     | 57          | 0.800     | 84          | 0.800     | 111         | 0.800     | 138         | 0.800     | 165         | 0.800     |
| 4           | 0.800     | 31          | 0.800     | 58          | 0.800     | 85          | 0.800     | 112         | 0.800     | 139         | 0.800     | 166         | 0.800     |
| 5           | 0.800     | 32          | 0.800     | 59          | 0.800     | 86          | 0.800     | 113         | 0.800     | 140         | 0.800     | 167         | 0.800     |
| 6           | 0.800     | 33          | 0.800     | 60          | 0.800     | 87          | 0.800     | 114         | 0.800     | 141         | 0.800     | 168         | 0.800     |
| 7           | 0.800     | 34          | 0.800     | 61          | 0.800     | 88          | 0.800     | 115         | 0.800     | 142         | 0.800     | 169         | 0.800     |
| 8           | 0.800     | 35          | 0.800     | 62          | 0.800     | 89          | 0.800     | 116         | 0.800     | 143         | 0.800     | 170         | 0.800     |
| 9           | 0.800     | 36          | 0.800     | 63          | 0.800     | 90          | 0.800     | 117         | 0.800     | 144         | 0.800     | 171         | 0.800     |
| 10          | 0.800     | 37          | 0.800     | 64          | 0.800     | 91          | 0.800     | 118         | 0.800     | 145         | 0.800     | 172         | 0.800     |
| 11          | 0.800     | 38          | 0.800     | 65          | 0.800     | 92          | 0.800     | 119         | 0.800     | 146         | 0.800     | 173         | 0.800     |
| 12          | 0.800     | 39          | 0.800     | 66          | 0.800     | 93          | 0.800     | 120         | 0.800     | 147         | 0.800     | 174         | 0.800     |
| 13          | 0.800     | 40          | 0.800     | 67          | 0.800     | 94          | 0.800     | 121         | 0.800     | 148         | 0.800     | 175         | 0.800     |
| 14          | 0.800     | 41          | 0.800     | 68          | 0.800     | 95          | 0.800     | 122         | 0.800     | 149         | 0.800     | 176         | 0.800     |
| 15          | 0.800     | 42          | 0.800     | 69          | 0.800     | 96          | 0.800     | 123         | 0.800     | 150         | 0.800     | 177         | 0.800     |
| 16          | 0.800     | 43          | 0.800     | 70          | 0.800     | 97          | 0.800     | 124         | 0.800     | 151         | 0.800     | 178         | 0.800     |
| 17          | 0.800     | 44          | 0.800     | 71          | 0.800     | 98          | 0.800     | 125         | 0.800     | 152         | 0.800     | 179         | 0.800     |
| 18          | 0.800     | 45          | 0.800     | 72          | 0.800     | 99          | 0.800     | 126         | 0.800     | 153         | 0.800     | 180         | 0.800     |
| 19          | 0.800     | 46          | 0.800     | 73          | 0.800     | 100         | 0.800     | 127         | 0.800     | 154         | 0.800     | 181         | 0.800     |
| 20          | 0.800     | 47          | 0.800     | 74          | 0.800     | 101         | 0.800     | 128         | 0.800     | 155         | 0.800     | 182         | 0.800     |
| 21          | 0.800     | 48          | 0.800     | 75          | 0.800     | 102         | 0.800     | 129         | 0.800     | 156         | 0.800     | 183         | 0.800     |
| 22          | 0.800     | 49          | 0.800     | 76          | 0.800     | 103         | 0.800     | 130         | 0.800     | 157         | 0.800     | 184         | 0.800     |
| 23          | 0.800     | 50          | 0.800     | 77          | 0.800     | 104         | 0.800     | 131         | 0.800     | 158         | 0.800     | 185         | 0.800     |
| 24          | 0.800     | 51          | 0.800     | 78          | 0.800     | 105         | 0.800     | 132         | 0.800     | 159         | 0.800     | 186         | 0.800     |
| 25          | 0.800     | 52          | 0.800     | 79          | 0.800     | 106         | 0.800     | 133         | 0.800     | 160         | 0.800     | 187         | 0.800     |
| 26          | 0.800     | 53          | 0.800     | 80          | 0.800     | 107         | 0.800     | 134         | 0.800     | 161         | 0.800     | 188         | 0.800     |
| 27          | 0.800     | 54          | 0.800     | 81          | 0.800     | 108         | 0.800     | 135         | 0.800     | 162         | 0.800     | 189         | 0.800     |

|                                                    |                                                              |                                                                                     |
|----------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Mayer Brown Ltd                                    |                                                              | Page 18                                                                             |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     | Littlehampton<br>Overall Surface Network<br>West of Wetlands |  |
| Date January 2018<br>File WEST CATCHMENT MODEL_... | Designed by S Foley<br>Checked by                            |                                                                                     |
| XP Solutions Network 2013.1                        |                                                              |                                                                                     |

Surcharged Outfall Details for Storm

| Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) | Time<br>(mins) | Depth<br>(m) |
|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|
| 217            | 0.800        | 240            | 0.800        | 263            | 0.800        | 286            | 0.800        | 309            | 0.800        | 332            | 0.800        | 355            | 0.800        |
| 218            | 0.800        | 241            | 0.800        | 264            | 0.800        | 287            | 0.800        | 310            | 0.800        | 333            | 0.800        | 356            | 0.800        |
| 219            | 0.800        | 242            | 0.800        | 265            | 0.800        | 288            | 0.800        | 311            | 0.800        | 334            | 0.800        | 357            | 0.800        |
| 220            | 0.800        | 243            | 0.800        | 266            | 0.800        | 289            | 0.800        | 312            | 0.800        | 335            | 0.800        | 358            | 0.800        |
| 221            | 0.800        | 244            | 0.800        | 267            | 0.800        | 290            | 0.800        | 313            | 0.800        | 336            | 0.800        | 359            | 0.800        |
| 222            | 0.800        | 245            | 0.800        | 268            | 0.800        | 291            | 0.800        | 314            | 0.800        | 337            | 0.800        | 360            | 0.800        |
| 223            | 0.800        | 246            | 0.800        | 269            | 0.800        | 292            | 0.800        | 315            | 0.800        | 338            | 0.800        | 361            | 0.800        |
| 224            | 0.800        | 247            | 0.800        | 270            | 0.800        | 293            | 0.800        | 316            | 0.800        | 339            | 0.800        | 362            | 0.800        |
| 225            | 0.800        | 248            | 0.800        | 271            | 0.800        | 294            | 0.800        | 317            | 0.800        | 340            | 0.800        | 363            | 0.800        |
| 226            | 0.800        | 249            | 0.800        | 272            | 0.800        | 295            | 0.800        | 318            | 0.800        | 341            | 0.800        | 364            | 0.800        |
| 227            | 0.800        | 250            | 0.800        | 273            | 0.800        | 296            | 0.800        | 319            | 0.800        | 342            | 0.800        | 365            | 0.800        |
| 228            | 0.800        | 251            | 0.800        | 274            | 0.800        | 297            | 0.800        | 320            | 0.800        | 343            | 0.800        | 366            | 0.800        |
| 229            | 0.800        | 252            | 0.800        | 275            | 0.800        | 298            | 0.800        | 321            | 0.800        | 344            | 0.800        | 367            | 0.800        |
| 230            | 0.800        | 253            | 0.800        | 276            | 0.800        | 299            | 0.800        | 322            | 0.800        | 345            | 0.800        | 368            | 0.800        |
| 231            | 0.800        | 254            | 0.800        | 277            | 0.800        | 300            | 0.800        | 323            | 0.800        | 346            | 0.800        | 369            | 0.800        |
| 232            | 0.800        | 255            | 0.800        | 278            | 0.800        | 301            | 0.800        | 324            | 0.800        | 347            | 0.800        | 370            | 0.800        |
| 233            | 0.800        | 256            | 0.800        | 279            | 0.800        | 302            | 0.800        | 325            | 0.800        | 348            | 0.800        | 371            | 0.800        |
| 234            | 0.800        | 257            | 0.800        | 280            | 0.800        | 303            | 0.800        | 326            | 0.800        | 349            | 0.800        | 372            | 0.800        |
| 235            | 0.800        | 258            | 0.800        | 281            | 0.800        | 304            | 0.800        | 327            | 0.800        | 350            | 0.800        | 373            | 0.800        |
| 236            | 0.800        | 259            | 0.800        | 282            | 0.800        | 305            | 0.800        | 328            | 0.800        | 351            | 0.800        | 374            | 0.800        |
| 237            | 0.800        | 260            | 0.800        | 283            | 0.800        | 306            | 0.800        | 329            | 0.800        | 352            | 0.800        | 375            | 0.800        |
| 238            | 0.800        | 261            | 0.800        | 284            | 0.800        | 307            | 0.800        | 330            | 0.800        | 353            | 0.800        | 376            | 0.800        |
| 239            | 0.800        | 262            | 0.800        | 285            | 0.800        | 308            | 0.800        | 331            | 0.800        | 354            | 0.800        | 377            | 0.800        |

Simulation Criteria for Storm

|                                 |       |                                     |       |
|---------------------------------|-------|-------------------------------------|-------|
| Volumetric Runoff Coeff         | 0.750 | Additional Flow - % of Total Flow   | 0.000 |
| Areal Reduction Factor          | 1.000 | MADD Factor * 10m³/ha Storage       | 2.000 |
| Hot Start (mins)                | 0     | Inlet Coeffiecient                  | 0.800 |
| Hot Start Level (mm)            | 0     | Flow per Person per Day (l/per/day) | 0.000 |
| Manhole Headloss Coeff (Global) | 0.500 | Run Time (mins)                     | 60    |
| Foul Sewage per hectare (l/s)   | 0.000 | Output Interval (mins)              | 1     |

|                             |    |                              |    |                              |   |
|-----------------------------|----|------------------------------|----|------------------------------|---|
| Number of Input Hydrographs | 0  | Number of Offline Controls   | 2  | Number of Time/Area Diagrams | 0 |
| Number of Online Controls   | 14 | Number of Storage Structures | 20 | Number of Real Time Controls | 0 |

Synthetic Rainfall Details

|                       |                                 |                       |       |
|-----------------------|---------------------------------|-----------------------|-------|
| Rainfall Model        | FEH                             | E (1km)               | 0.314 |
| Return Period (years) | 2                               | F (1km)               | 2.329 |
| Site Location         | GB 502850 104400 TQ 02850 04400 | Summer Storms         | Yes   |
| C (1km)               | -0.027                          | Winter Storms         | No    |
| D1 (1km)              | 0.393                           | Cv (Summer)           | 0.750 |
| D2 (1km)              | 0.274                           | Cv (Winter)           | 0.840 |
| D3 (1km)              | 0.407                           | Storm Duration (mins) | 30    |

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|                               |                         |                                                                                     |  |
|-------------------------------|-------------------------|-------------------------------------------------------------------------------------|--|
| Mayer Brown Ltd               |                         | Page 19                                                                             |  |
| Lion House                    | Littlehampton           |  |  |
| Oriental Road                 | Overall Surface Network |                                                                                     |  |
| Woking GU22 8AR               | West of Wetlands        |                                                                                     |  |
| Date January 2018             | Designed by S Foley     |                                                                                     |  |
| File WEST CATCHMENT MODEL_... | Checked by              |                                                                                     |  |
| XP Solutions                  | Network 2013.1          |                                                                                     |  |

Online Controls for Storm

Hydro-Brake® Manhole: Parcel A2\_2, DS/PN: 2.001, Volume (m³): 3.0

|                       |  |                       |  |                        |  |
|-----------------------|--|-----------------------|--|------------------------|--|
| Design Head (m) 1.200 |  | Hydro-Brake® Type Md4 |  | Invert Level (m) 5.000 |  |
| Design Flow (l/s) 5.0 |  | Diameter (mm) 76      |  |                        |  |

|           |            |           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100     | 2.3        | 0.800     | 4.0        | 2.000     | 6.4        | 4.000     | 9.0        | 7.000     | 11.9       |
| 0.200     | 3.0        | 1.000     | 4.5        | 2.200     | 6.7        | 4.500     | 9.5        | 7.500     | 12.3       |
| 0.300     | 2.6        | 1.200     | 4.9        | 2.400     | 7.0        | 5.000     | 10.1       | 8.000     | 12.7       |
| 0.400     | 2.9        | 1.400     | 5.3        | 2.600     | 7.3        | 5.500     | 10.6       | 8.500     | 13.1       |
| 0.500     | 3.2        | 1.600     | 5.7        | 3.000     | 7.8        | 6.000     | 11.0       | 9.000     | 13.5       |
| 0.600     | 3.5        | 1.800     | 6.0        | 3.500     | 8.4        | 6.500     | 11.5       | 9.500     | 13.9       |

Hydro-Brake® Manhole: Parcel B6\_2, DS/PN: 3.001, Volume (m³): 3.7

|                       |  |                       |  |                        |  |
|-----------------------|--|-----------------------|--|------------------------|--|
| Design Head (m) 0.800 |  | Hydro-Brake® Type Md4 |  | Invert Level (m) 4.800 |  |
| Design Flow (l/s) 5.0 |  | Diameter (mm) 84      |  |                        |  |

|           |            |           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100     | 2.6        | 0.800     | 4.9        | 2.000     | 7.8        | 4.000     | 11.0       | 7.000     | 14.5       |
| 0.200     | 4.0        | 1.000     | 5.5        | 2.200     | 8.2        | 4.500     | 11.7       | 7.500     | 15.1       |
| 0.300     | 3.4        | 1.200     | 6.0        | 2.400     | 8.5        | 5.000     | 12.3       | 8.000     | 15.6       |
| 0.400     | 3.5        | 1.400     | 6.5        | 2.600     | 8.9        | 5.500     | 12.9       | 8.500     | 16.0       |
| 0.500     | 3.9        | 1.600     | 7.0        | 3.000     | 9.5        | 6.000     | 13.5       | 9.000     | 16.5       |
| 0.600     | 4.3        | 1.800     | 7.4        | 3.500     | 10.3       | 6.500     | 14.0       | 9.500     | 16.9       |

Hydro-Brake® Manhole: Parcel B1&CH 2, DS/PN: 4.001, Volume (m³): 4.8

|                        |  |                       |  |                        |  |
|------------------------|--|-----------------------|--|------------------------|--|
| Design Head (m) 1.000  |  | Hydro-Brake® Type Md4 |  | Invert Level (m) 4.135 |  |
| Design Flow (l/s) 10.0 |  | Diameter (mm) 113     |  |                        |  |

|           |            |           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100     | 3.3        | 0.800     | 8.9        | 2.000     | 14.1       | 4.000     | 19.9       | 7.000     | 26.3       |
| 0.200     | 8.2        | 1.000     | 10.0       | 2.200     | 14.8       | 4.500     | 21.1       | 7.500     | 27.3       |
| 0.300     | 8.0        | 1.200     | 10.9       | 2.400     | 15.4       | 5.000     | 22.2       | 8.000     | 28.1       |
| 0.400     | 7.1        | 1.400     | 11.8       | 2.600     | 16.0       | 5.500     | 23.3       | 8.500     | 29.0       |
| 0.500     | 7.2        | 1.600     | 12.6       | 3.000     | 17.2       | 6.000     | 24.4       | 9.000     | 29.9       |
| 0.600     | 7.8        | 1.800     | 13.3       | 3.500     | 18.6       | 6.500     | 25.4       | 9.500     | 30.7       |

Hydro-Brake® Manhole: Block B\_2, DS/PN: 5.001, Volume (m³): 4.1

|                       |  |                       |  |                        |  |
|-----------------------|--|-----------------------|--|------------------------|--|
| Design Head (m) 1.000 |  | Hydro-Brake® Type Md4 |  | Invert Level (m) 3.905 |  |
| Design Flow (l/s) 5.0 |  | Diameter (mm) 80      |  |                        |  |

|           |            |           |            |           |            |           |            |           |            |
|-----------|------------|-----------|------------|-----------|------------|-----------|------------|-----------|------------|
| Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100     | 2.4        | 0.800     | 4.5        | 2.000     | 7.1        | 4.000     | 10.0       | 7.000     | 13.2       |
| 0.200     | 3.5        | 1.000     | 5.0        | 2.200     | 7.4        | 4.500     | 10.6       | 7.500     | 13.7       |
| 0.300     | 3.0        | 1.200     | 5.5        | 2.400     | 7.7        | 5.000     | 11.2       | 8.000     | 14.1       |
| 0.400     | 3.2        | 1.400     | 5.9        | 2.600     | 8.0        | 5.500     | 11.7       | 8.500     | 14.5       |
| 0.500     | 3.5        | 1.600     | 6.3        | 3.000     | 8.6        | 6.000     | 12.2       | 9.000     | 15.0       |
| 0.600     | 3.9        | 1.800     | 6.7        | 3.500     | 9.3        | 6.500     | 12.7       | 9.500     | 15.4       |

Hydro-Brake® Manhole: BovisA\_2, DS/PN: 6.001, Volume (m³): 3.9

|                        |  |                               |  |                        |  |
|------------------------|--|-------------------------------|--|------------------------|--|
| Design Head (m) 1.200  |  | Hydro-Brake® Type Md5 SW Only |  | Invert Level (m) 4.000 |  |
| Design Flow (l/s) 60.0 |  | Diameter (mm) 293             |  |                        |  |

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|                                                                            |            |           |            |                         |            |           |            |
|----------------------------------------------------------------------------|------------|-----------|------------|-------------------------|------------|-----------|------------|
| Mayer Brown Ltd                                                            |            |           |            | Page 20                 |            |           |            |
| Lion House                                                                 |            |           |            | Littlehampton           |            |           |            |
| Oriental Road                                                              |            |           |            | Overall Surface Network |            |           |            |
| Woking GU22 8AR                                                            |            |           |            | West of Wetlands        |            |           |            |
| Date January 2018                                                          |            |           |            | Designed by S Foley     |            |           |            |
| File WEST CATCHMENT MODEL_...                                              |            |           |            | Checked by              |            |           |            |
| XP Solutions                                                               |            |           |            | Network 2013.1          |            |           |            |
| Hydro-Brake® Manhole: BovisA_2, DS/PN: 6.001, Volume (m³): 3.9             |            |           |            |                         |            |           |            |
| Depth (m)                                                                  | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m)               | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100                                                                      | 10.6       | 0.800     | 57.7       | 2.000                   | 73.3       | 4.000     | 103.3      |
| 0.200                                                                      | 27.7       | 1.000     | 57.8       | 2.200                   | 76.7       | 4.500     | 109.6      |
| 0.300                                                                      | 43.3       | 1.200     | 59.7       | 2.400                   | 80.1       | 5.000     | 115.5      |
| 0.400                                                                      | 52.6       | 1.400     | 62.7       | 2.600                   | 83.3       | 5.500     | 121.2      |
| 0.500                                                                      | 56.9       | 1.600     | 66.1       | 3.000                   | 89.5       | 6.000     | 126.6      |
| 0.600                                                                      | 58.3       | 1.800     | 69.7       | 3.500                   | 96.7       | 6.500     | 131.7      |
|                                                                            |            |           |            |                         |            | 7.000     | 136.7      |
|                                                                            |            |           |            |                         |            | 7.500     | 141.5      |
|                                                                            |            |           |            |                         |            | 8.000     | 146.1      |
|                                                                            |            |           |            |                         |            | 8.500     | 150.6      |
|                                                                            |            |           |            |                         |            | 9.000     | 155.0      |
|                                                                            |            |           |            |                         |            | 9.500     | 159.3      |
| Hydro-Brake® Manhole: BovisB_2, DS/PN: 7.001, Volume (m³): 3.7             |            |           |            |                         |            |           |            |
| Design Head (m) 1.200 Hydro-Brake® Type Md5 SW Only Invert Level (m) 3.225 |            |           |            |                         |            |           |            |
| Design Flow (l/s) 60.0 Diameter (mm) 293                                   |            |           |            |                         |            |           |            |
| Depth (m)                                                                  | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m)               | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100                                                                      | 10.6       | 0.800     | 57.7       | 2.000                   | 73.3       | 4.000     | 103.3      |
| 0.200                                                                      | 27.7       | 1.000     | 57.8       | 2.200                   | 76.7       | 4.500     | 109.6      |
| 0.300                                                                      | 43.3       | 1.200     | 59.7       | 2.400                   | 80.1       | 5.000     | 115.5      |
| 0.400                                                                      | 52.6       | 1.400     | 62.7       | 2.600                   | 83.3       | 5.500     | 121.2      |
| 0.500                                                                      | 56.9       | 1.600     | 66.1       | 3.000                   | 89.5       | 6.000     | 126.6      |
| 0.600                                                                      | 58.3       | 1.800     | 69.7       | 3.500                   | 96.7       | 6.500     | 131.7      |
|                                                                            |            |           |            |                         |            | 7.000     | 136.7      |
|                                                                            |            |           |            |                         |            | 7.500     | 141.5      |
|                                                                            |            |           |            |                         |            | 8.000     | 146.1      |
|                                                                            |            |           |            |                         |            | 8.500     | 150.6      |
|                                                                            |            |           |            |                         |            | 9.000     | 155.0      |
|                                                                            |            |           |            |                         |            | 9.500     | 159.3      |
| Hydro-Brake® Manhole: Ret Block A, DS/PN: 12.001, Volume (m³): 4.3         |            |           |            |                         |            |           |            |
| Design Head (m) 1.000 Hydro-Brake® Type Md4 Invert Level (m) 2.900         |            |           |            |                         |            |           |            |
| Design Flow (l/s) 5.0 Diameter (mm) 80                                     |            |           |            |                         |            |           |            |
| Depth (m)                                                                  | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m)               | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100                                                                      | 2.4        | 0.800     | 4.5        | 2.000                   | 7.1        | 4.000     | 10.0       |
| 0.200                                                                      | 3.5        | 1.000     | 5.0        | 2.200                   | 7.4        | 4.500     | 10.6       |
| 0.300                                                                      | 3.0        | 1.200     | 5.5        | 2.400                   | 7.7        | 5.000     | 11.2       |
| 0.400                                                                      | 3.2        | 1.400     | 5.9        | 2.600                   | 8.0        | 5.500     | 11.7       |
| 0.500                                                                      | 3.5        | 1.600     | 6.3        | 3.000                   | 8.6        | 6.000     | 12.2       |
| 0.600                                                                      | 3.9        | 1.800     | 6.7        | 3.500                   | 9.3        | 6.500     | 12.7       |
|                                                                            |            |           |            |                         |            | 7.000     | 13.2       |
|                                                                            |            |           |            |                         |            | 7.500     | 13.7       |
|                                                                            |            |           |            |                         |            | 8.000     | 14.1       |
|                                                                            |            |           |            |                         |            | 8.500     | 14.5       |
|                                                                            |            |           |            |                         |            | 9.000     | 15.0       |
|                                                                            |            |           |            |                         |            | 9.500     | 15.4       |
| Hydro-Brake® Manhole: Non resi, DS/PN: 25.001, Volume (m³): 7.7            |            |           |            |                         |            |           |            |
| Design Head (m) 1.000 Hydro-Brake® Type Md4 Invert Level (m) 3.720         |            |           |            |                         |            |           |            |
| Design Flow (l/s) 5.0 Diameter (mm) 80                                     |            |           |            |                         |            |           |            |
| Depth (m)                                                                  | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m)               | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100                                                                      | 2.4        | 0.800     | 4.5        | 2.000                   | 7.1        | 4.000     | 10.0       |
| 0.200                                                                      | 3.5        | 1.000     | 5.0        | 2.200                   | 7.4        | 4.500     | 10.6       |
| 0.300                                                                      | 3.0        | 1.200     | 5.5        | 2.400                   | 7.7        | 5.000     | 11.2       |
| 0.400                                                                      | 3.2        | 1.400     | 5.9        | 2.600                   | 8.0        | 5.500     | 11.7       |
| 0.500                                                                      | 3.5        | 1.600     | 6.3        | 3.000                   | 8.6        | 6.000     | 12.2       |
| 0.600                                                                      | 3.9        | 1.800     | 6.7        | 3.500                   | 9.3        | 6.500     | 12.7       |
|                                                                            |            |           |            |                         |            | 7.000     | 13.2       |
|                                                                            |            |           |            |                         |            | 7.500     | 13.7       |
|                                                                            |            |           |            |                         |            | 8.000     | 14.1       |
|                                                                            |            |           |            |                         |            | 8.500     | 14.5       |
|                                                                            |            |           |            |                         |            | 9.000     | 15.0       |
|                                                                            |            |           |            |                         |            | 9.500     | 15.4       |
| Hydro-Brake® Manhole: As-built SA8, DS/PN: 26.001, Volume (m³): 8.6        |            |           |            |                         |            |           |            |
| Design Head (m) 2.000 Hydro-Brake® Type Md4 Invert Level (m) 3.763         |            |           |            |                         |            |           |            |
| Design Flow (l/s) 34.5 Diameter (mm) 176                                   |            |           |            |                         |            |           |            |
| Depth (m)                                                                  | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m)               | Flow (l/s) | Depth (m) | Flow (l/s) |
| 0.100                                                                      | 4.2        | 0.800     | 22.1       | 2.000                   | 34.1       | 4.000     | 48.3       |
| 0.200                                                                      | 15.1       | 1.000     | 24.2       | 2.200                   | 35.8       | 4.500     | 51.2       |
| 0.300                                                                      | 24.2       | 1.200     | 26.5       | 2.400                   | 37.4       | 5.000     | 54.0       |
| 0.400                                                                      | 25.7       | 1.400     | 28.6       | 2.600                   | 38.9       | 5.500     | 56.6       |
| 0.500                                                                      | 23.3       | 1.600     | 30.5       | 3.000                   | 41.8       | 6.000     | 59.1       |
| 0.600                                                                      | 21.6       | 1.800     | 32.4       | 3.500                   | 45.2       | 6.500     | 61.5       |
|                                                                            |            |           |            |                         |            | 7.000     | 63.9       |
|                                                                            |            |           |            |                         |            | 7.500     | 66.1       |
|                                                                            |            |           |            |                         |            | 8.000     | 68.3       |
|                                                                            |            |           |            |                         |            | 8.500     | 70.4       |
|                                                                            |            |           |            |                         |            | 9.000     | 72.4       |
|                                                                            |            |           |            |                         |            | 9.500     | 74.4       |
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| Mayer Brown Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                                                              | Page 21    |                                                                                     |            |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| Lion House<br>Oriental Road<br>Woking GU22 8AR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |            | Littlehampton<br>Overall Surface Network<br>West of Wetlands |            |  |            |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |     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| Date January 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |            | Designed by S Foley                                          |            |                                                                                     |            |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| File WEST CATCHMENT MODEL_...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | Checked by                                                   |            |                                                                                     |            |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |            | Network 2013.1                                               |            |                                                                                     |            |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| <p><u>Hydro-Brake® Manhole: SW Stub 02, DS/PN: 27.001, Volume (m³): 8.0</u></p> <p>Design Head (m) 1.000   Hydro-Brake® Type Md4   Invert Level (m) 3.640<br/>Design Flow (l/s) 5.0   Diameter (mm) 80</p> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>2.4</td><td>0.800</td><td>4.5</td><td>2.000</td><td>7.1</td><td>4.000</td><td>10.0</td><td>7.000</td><td>13.2</td></tr><tr><td>0.200</td><td>3.5</td><td>1.000</td><td>5.0</td><td>2.200</td><td>7.4</td><td>4.500</td><td>10.6</td><td>7.500</td><td>13.7</td></tr><tr><td>0.300</td><td>3.0</td><td>1.200</td><td>5.5</td><td>2.400</td><td>7.7</td><td>5.000</td><td>11.2</td><td>8.000</td><td>14.1</td></tr><tr><td>0.400</td><td>3.2</td><td>1.400</td><td>5.9</td><td>2.600</td><td>8.0</td><td>5.500</td><td>11.7</td><td>8.500</td><td>14.5</td></tr><tr><td>0.500</td><td>3.5</td><td>1.600</td><td>6.3</td><td>3.000</td><td>8.6</td><td>6.000</td><td>12.2</td><td>9.000</td><td>15.0</td></tr><tr><td>0.600</td><td>3.9</td><td>1.800</td><td>6.7</td><td>3.500</td><td>9.3</td><td>6.500</td><td>12.7</td><td>9.500</td><td>15.4</td></tr></table> <p><u>Hydro-Brake® Manhole: Car Park, DS/PN: 32.001, Volume (m³): 2.8</u></p> <p>Design Head (m) 1.500   Hydro-Brake® Type Md4   Invert Level (m) 3.400<br/>Design Flow (l/s) 5.0   Diameter (mm) 72</p> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>2.1</td><td>0.800</td><td>3.6</td><td>2.000</td><td>5.7</td><td>4.000</td><td>8.1</td><td>7.000</td><td>10.7</td></tr><tr><td>0.200</td><td>2.5</td><td>1.000</td><td>4.0</td><td>2.200</td><td>6.0</td><td>4.500</td><td>8.6</td><td>7.500</td><td>11.1</td></tr><tr><td>0.300</td><td>2.3</td><td>1.200</td><td>4.4</td><td>2.400</td><td>6.3</td><td>5.000</td><td>9.0</td><td>8.000</td><td>11.4</td></tr><tr><td>0.400</td><td>2.6</td><td>1.400</td><td>4.8</td><td>2.600</td><td>6.5</td><td>5.500</td><td>9.5</td><td>8.500</td><td>11.8</td></tr><tr><td>0.500</td><td>2.9</td><td>1.600</td><td>5.1</td><td>3.000</td><td>7.0</td><td>6.000</td><td>9.9</td><td>9.000</td><td>12.1</td></tr><tr><td>0.600</td><td>3.1</td><td>1.800</td><td>5.4</td><td>3.500</td><td>7.6</td><td>6.500</td><td>10.3</td><td>9.500</td><td>12.5</td></tr></table> <p><u>Hydro-Brake® Manhole: Stub SW9/1, DS/PN: 33.001, Volume (m³): 6.0</u></p> <p>Design Head (m) 1.000   Hydro-Brake® Type Md4   Invert Level (m) 2.600<br/>Design Flow (l/s) 5.0   Diameter (mm) 80</p> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>2.4</td><td>0.800</td><td>4.5</td><td>2.000</td><td>7.1</td><td>4.000</td><td>10.0</td><td>7.000</td><td>13.2</td></tr><tr><td>0.200</td><td>3.5</td><td>1.000</td><td>5.0</td><td>2.200</td><td>7.4</td><td>4.500</td><td>10.6</td><td>7.500</td><td>13.7</td></tr><tr><td>0.300</td><td>3.0</td><td>1.200</td><td>5.5</td><td>2.400</td><td>7.7</td><td>5.000</td><td>11.2</td><td>8.000</td><td>14.1</td></tr><tr><td>0.400</td><td>3.2</td><td>1.400</td><td>5.9</td><td>2.600</td><td>8.0</td><td>5.500</td><td>11.7</td><td>8.500</td><td>14.5</td></tr><tr><td>0.500</td><td>3.5</td><td>1.600</td><td>6.3</td><td>3.000</td><td>8.6</td><td>6.000</td><td>12.2</td><td>9.000</td><td>15.0</td></tr><tr><td>0.600</td><td>3.9</td><td>1.800</td><td>6.7</td><td>3.500</td><td>9.3</td><td>6.500</td><td>12.7</td><td>9.500</td><td>15.4</td></tr></table> <p><u>Hydro-Brake® Manhole: Stub SW9/2, DS/PN: 35.001, Volume (m³): 6.3</u></p> <p>Design Head (m) 1.000   Hydro-Brake® Type Md4   Invert Level (m) 2.500<br/>Design Flow (l/s) 5.0   Diameter (mm) 80</p> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>2.4</td><td>0.800</td><td>4.5</td><td>2.000</td><td>7.1</td><td>4.000</td><td>10.0</td><td>7.000</td><td>13.2</td></tr><tr><td>0.200</td><td>3.5</td><td>1.000</td><td>5.0</td><td>2.200</td><td>7.4</td><td>4.500</td><td>10.6</td><td>7.500</td><td>13.7</td></tr><tr><td>0.300</td><td>3.0</td><td>1.200</td><td>5.5</td><td>2.400</td><td>7.7</td><td>5.000</td><td>11.2</td><td>8.000</td><td>14.1</td></tr><tr><td>0.400</td><td>3.2</td><td>1.400</td><td>5.9</td><td>2.600</td><td>8.0</td><td>5.500</td><td>11.7</td><td>8.500</td><td>14.5</td></tr><tr><td>0.500</td><td>3.5</td><td>1.600</td><td>6.3</td><td>3.000</td><td>8.6</td><td>6.000</td><td>12.2</td><td>9.000</td><td>15.0</td></tr><tr><td>0.600</td><td>3.9</td><td>1.800</td><td>6.7</td><td>3.500</td><td>9.3</td><td>6.500</td><td>12.7</td><td>9.500</td><td>15.4</td></tr></table> <p><u>Hydro-Brake® Manhole: SW25, DS/PN: 1.018, Volume (m³): 10.9</u></p> <p>Design Head (m) 1.870   Hydro-Brake® Type Md10   Invert Level (m) 1.200<br/>Design Flow (l/s) 285.0   Diameter (mm) 386</p> <table><tr><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th><th>Depth (m)</th><th>Flow (l/s)</th></tr><tr><td>0.100</td><td>14.1</td><td>0.500</td><td>111.9</td><td>1.200</td><td>227.7</td><td>2.000</td><td>293.9</td><td>3.000</td><td>360.0</td></tr><tr><td>0.200</td><td>36.0</td><td>0.600</td><td>136.1</td><td>1.400</td><td>245.9</td><td>2.200</td><td>308.3</td><td>3.500</td><td>388.9</td></tr><tr><td>0.300</td><td>60.7</td><td>0.800</td><td>178.2</td><td>1.600</td><td>262.9</td><td>2.400</td><td>322.0</td><td>4.000</td><td>415.7</td></tr><tr><td>0.400</td><td>86.4</td><td>1.000</td><td>207.8</td><td>1.800</td><td>278.9</td><td>2.600</td><td>335.2</td><td>4.500</td><td>440.9</td></tr></table> |            |                                                              |            |                                                                                     |            | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 2.4 | 0.800 | 4.5 | 2.000 | 7.1 | 4.000 | 10.0 | 7.000 | 13.2 | 0.200 | 3.5 | 1.000 | 5.0 | 2.200 | 7.4 | 4.500 | 10.6 | 7.500 | 13.7 | 0.300 | 3.0 | 1.200 | 5.5 | 2.400 | 7.7 | 5.000 | 11.2 | 8.000 | 14.1 | 0.400 | 3.2 | 1.400 | 5.9 | 2.600 | 8.0 | 5.500 | 11.7 | 8.500 | 14.5 | 0.500 | 3.5 | 1.600 | 6.3 | 3.000 | 8.6 | 6.000 | 12.2 | 9.000 | 15.0 | 0.600 | 3.9 | 1.800 | 6.7 | 3.500 | 9.3 | 6.500 | 12.7 | 9.500 | 15.4 | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 2.1 | 0.800 | 3.6 | 2.000 | 5.7 | 4.000 | 8.1 | 7.000 | 10.7 | 0.200 | 2.5 | 1.000 | 4.0 | 2.200 | 6.0 | 4.500 | 8.6 | 7.500 | 11.1 | 0.300 | 2.3 | 1.200 | 4.4 | 2.400 | 6.3 | 5.000 | 9.0 | 8.000 | 11.4 | 0.400 | 2.6 | 1.400 | 4.8 | 2.600 | 6.5 | 5.500 | 9.5 | 8.500 | 11.8 | 0.500 | 2.9 | 1.600 | 5.1 | 3.000 | 7.0 | 6.000 | 9.9 | 9.000 | 12.1 | 0.600 | 3.1 | 1.800 | 5.4 | 3.500 | 7.6 | 6.500 | 10.3 | 9.500 | 12.5 | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 2.4 | 0.800 | 4.5 | 2.000 | 7.1 | 4.000 | 10.0 | 7.000 | 13.2 | 0.200 | 3.5 | 1.000 | 5.0 | 2.200 | 7.4 | 4.500 | 10.6 | 7.500 | 13.7 | 0.300 | 3.0 | 1.200 | 5.5 | 2.400 | 7.7 | 5.000 | 11.2 | 8.000 | 14.1 | 0.400 | 3.2 | 1.400 | 5.9 | 2.600 | 8.0 | 5.500 | 11.7 | 8.500 | 14.5 | 0.500 | 3.5 | 1.600 | 6.3 | 3.000 | 8.6 | 6.000 | 12.2 | 9.000 | 15.0 | 0.600 | 3.9 | 1.800 | 6.7 | 3.500 | 9.3 | 6.500 | 12.7 | 9.500 | 15.4 | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 2.4 | 0.800 | 4.5 | 2.000 | 7.1 | 4.000 | 10.0 | 7.000 | 13.2 | 0.200 | 3.5 | 1.000 | 5.0 | 2.200 | 7.4 | 4.500 | 10.6 | 7.500 | 13.7 | 0.300 | 3.0 | 1.200 | 5.5 | 2.400 | 7.7 | 5.000 | 11.2 | 8.000 | 14.1 | 0.400 | 3.2 | 1.400 | 5.9 | 2.600 | 8.0 | 5.500 | 11.7 | 8.500 | 14.5 | 0.500 | 3.5 | 1.600 | 6.3 | 3.000 | 8.6 | 6.000 | 12.2 | 9.000 | 15.0 | 0.600 | 3.9 | 1.800 | 6.7 | 3.500 | 9.3 | 6.500 | 12.7 | 9.500 | 15.4 | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | 0.100 | 14.1 | 0.500 | 111.9 | 1.200 | 227.7 | 2.000 | 293.9 | 3.000 | 360.0 | 0.200 | 36.0 | 0.600 | 136.1 | 1.400 | 245.9 | 2.200 | 308.3 | 3.500 | 388.9 | 0.300 | 60.7 | 0.800 | 178.2 | 1.600 | 262.9 | 2.400 | 322.0 | 4.000 | 415.7 | 0.400 | 86.4 | 1.000 | 207.8 | 1.800 | 278.9 | 2.600 | 335.2 | 4.500 | 440.9 |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Flow (l/s) | Depth (m)                                                    | Flow (l/s) | Depth (m)                                                                           | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |     |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |      |       |       |       |       |       |       |       |       |       |      |       |       |       |       |       |       |       |       |       |      |       |       |       |       |       |       |       |       |       |      |       |       |       |       |       |       |       |       |
| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.4        | 0.800                                                        | 4.5        | 2.000                                                                               | 7.1        | 4.000     | 10.0       | 7.000     | 13.2       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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                            | 3.5        | 1.000                                                        | 5.0        | 2.200                                                                               | 7.4        | 4.500     | 10.6       | 7.500     | 13.7       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.0        | 1.200                                                        | 5.5        | 2.400                                                                               | 7.7        | 5.000     | 11.2       | 8.000     | 14.1       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.2        | 1.400                                                        | 5.9        | 2.600                                                                               | 8.0        | 5.500     | 11.7       | 8.500     | 14.5       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5        | 1.600                                                        | 6.3        | 3.000                                                                               | 8.6        | 6.000     | 12.2       | 9.000     | 15.0       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.9        | 1.800                                                        | 6.7        | 3.500                                                                               | 9.3        | 6.500     | 12.7       | 9.500     | 15.4       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.1        | 0.800                                                        | 3.6        | 2.000                                                                               | 5.7        | 4.000     | 8.1        | 7.000     | 10.7       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.5        | 1.000                                                        | 4.0        | 2.200                                                                               | 6.0        | 4.500     | 8.6        | 7.500     | 11.1       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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                            | 2.3        | 1.200                                                        | 4.4        | 2.400                                                                               | 6.3        | 5.000     | 9.0        | 8.000     | 11.4       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.6        | 1.400                                                        | 4.8        | 2.600                                                                               | 6.5        | 5.500     | 9.5        | 8.500     | 11.8       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.9        | 1.600                                                        | 5.1        | 3.000                                                                               | 7.0        | 6.000     | 9.9        | 9.000     | 12.1       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.1        | 1.800                                                        | 5.4        | 3.500                                                                               | 7.6        | 6.500     | 10.3       | 9.500     | 12.5       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.4        | 0.800                                                        | 4.5        | 2.000                                                                               | 7.1        | 4.000     | 10.0       | 7.000     | 13.2       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5        | 1.000                                                        | 5.0        | 2.200                                                                               | 7.4        | 4.500     | 10.6       | 7.500     | 13.7       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.0        | 1.200                                                        | 5.5        | 2.400                                                                               | 7.7        | 5.000     | 11.2       | 8.000     | 14.1       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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                            | 3.2        | 1.400                                                        | 5.9        | 2.600                                                                               | 8.0        | 5.500     | 11.7       | 8.500     | 14.5       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5        | 1.600                                                        | 6.3        | 3.000                                                                               | 8.6        | 6.000     | 12.2       | 9.000     | 15.0       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.9        | 1.800                                                        | 6.7        | 3.500                                                                               | 9.3        | 6.500     | 12.7       | 9.500     | 15.4       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2.4        | 0.800                                                        | 4.5        | 2.000                                                                               | 7.1        | 4.000     | 10.0       | 7.000     | 13.2       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5        | 1.000                                                        | 5.0        | 2.200                                                                               | 7.4        | 4.500     | 10.6       | 7.500     | 13.7       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.0        | 1.200                                                        | 5.5        | 2.400                                                                               | 7.7        | 5.000     | 11.2       | 8.000     | 14.1       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.2        | 1.400                                                        | 5.9        | 2.600                                                                               | 8.0        | 5.500     | 11.7       | 8.500     | 14.5       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.500                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.5        | 1.600                                                        | 6.3        | 3.000                                                                               | 8.6        | 6.000     | 12.2       | 9.000     | 15.0       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.600                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 3.9        | 1.800                                                        | 6.7        | 3.500                                                                               | 9.3        | 6.500     | 12.7       | 9.500     | 15.4       |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.100                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 14.1       | 0.500                                                        | 111.9      | 1.200                                                                               | 227.7      | 2.000     | 293.9      | 3.000     | 360.0      |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 36.0       | 0.600                                                        | 136.1      | 1.400                                                                               | 245.9      | 2.200     | 308.3      | 3.500     | 388.9      |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.300                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 60.7       | 0.800                                                        | 178.2      | 1.600                                                                               | 262.9      | 2.400     | 322.0      | 4.000     | 415.7      |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| 0.400                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 86.4       | 1.000                                                        | 207.8      | 1.800                                                                               | 278.9      | 2.600     | 335.2      | 4.500     | 440.9      |           |            |           |            |           |            |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |       |     |       |     |       |     |       |      |       |      |           |            |           |            |           |            |           |            |           |            |       |     |       |     |       |     |       |     |       |      |       |     |       |     |   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| Mayer Brown Ltd                                                    |                         | Page 22                                                                             |            |           |            |           |            |           |            |
| Lion House                                                         | Littlehampton           |  |            |           |            |           |            |           |            |
| Oriental Road                                                      | Overall Surface Network |                                                                                     |            |           |            |           |            |           |            |
| Woking GU22 8AR                                                    | West of Wetlands        |                                                                                     |            |           |            |           |            |           |            |
| Date January 2018                                                  | Designed by S Foley     |                                                                                     |            |           |            |           |            |           |            |
| File WEST CATCHMENT MODEL_...                                      | Checked by              |                                                                                     |            |           |            |           |            |           |            |
| XP Solutions                                                       | Network 2013.1          |                                                                                     |            |           |            |           |            |           |            |
| <u>Hydro-Brake® Manhole: SW25, DS/PN: 1.018, Volume (m³): 10.9</u> |                         |                                                                                     |            |           |            |           |            |           |            |
| Depth (m)                                                          | Flow (l/s)              | Depth (m)                                                                           | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) | Depth (m) | Flow (l/s) |
| 5.000                                                              | 464.8                   | 6.000                                                                               | 509.1      | 7.000     | 549.9      | 8.000     | 587.9      | 9.000     | 623.6      |
| 5.500                                                              | 487.5                   | 6.500                                                                               | 529.9      | 7.500     | 569.2      | 8.500     | 606.0      | 9.500     | 640.6      |
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| Mayer Brown Ltd               |                         | Page 23                                                                             |
| Lion House                    | Littlehampton           |  |
| Oriental Road                 | Overall Surface Network |                                                                                     |
| Woking GU22 8AR               | West of Wetlands        |                                                                                     |
| Date January 2018             | Designed by S Foley     |                                                                                     |
| File WEST CATCHMENT MODEL_... | Checked by              |                                                                                     |
| XP Solutions                  | Network 2013.1          |                                                                                     |

Offline Controls for Storm

Pipe Manhole: Ex. SB17, DS/PN: 5.002, Loop to PN: 30.000

|              |              |                            |       |
|--------------|--------------|----------------------------|-------|
| Diameter (m) | 0.225        | Roughness k (mm)           | 0.600 |
| Section Type | Pipe/Conduit | Entry Loss Coefficient     | 0.500 |
| Slope (1:X)  | 40.0         | Coefficient of Contraction | 0.600 |
| Length (m)   | 2.000        | Upstream Invert Level (m)  | 3.800 |

Pipe Manhole: SW01, G01&G02, DS/PN: 8.001, Loop to PN: None

|              |              |                            |       |
|--------------|--------------|----------------------------|-------|
| Diameter (m) | 0.225        | Roughness k (mm)           | 0.600 |
| Section Type | Pipe/Conduit | Entry Loss Coefficient     | 0.500 |
| Slope (1:X)  | 170.0        | Coefficient of Contraction | 0.600 |
| Length (m)   | 17.000       | Upstream Invert Level (m)  | 3.500 |

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|                                                                       |           |                                                              |           |                                                                                     |                |           |           |                |
|-----------------------------------------------------------------------|-----------|--------------------------------------------------------------|-----------|-------------------------------------------------------------------------------------|----------------|-----------|-----------|----------------|
| Mayer Brown Ltd                                                       |           |                                                              | Page 24   |                                                                                     |                |           |           |                |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                        |           | Littlehampton<br>Overall Surface Network<br>West of Wetlands |           |  |                |           |           |                |
| Date January 2018                                                     |           | Designed by S Foley                                          |           |                                                                                     |                |           |           |                |
| File WEST CATCHMENT MODEL_...                                         |           | Checked by                                                   |           |                                                                                     |                |           |           |                |
| XP Solutions                                                          |           | Network 2013.1                                               |           |                                                                                     |                |           |           |                |
| <div>Storage Structures for Storm</div>                               |           |                                                              |           |                                                                                     |                |           |           |                |
| <div>Cellular Storage Manhole: Parcel A2_1, DS/PN: 2.000</div>        |           |                                                              |           |                                                                                     |                |           |           |                |
| Invert Level (m) 5.200 Safety Factor 2.0                              |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95            |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Side (m/hr) 0.00000                          |           |                                                              |           |                                                                                     |                |           |           |                |
| Depth (m)                                                             | Area (m²) | Inf. Area (m²)                                               | Depth (m) | Area (m²)                                                                           | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |
| 0.000                                                                 | 402.1     | 349.7                                                        | 1.000     | 402.2                                                                               | 424.5          | 1.100     | 0.0       | 424.5          |
| <div>Cellular Storage Manhole: Parcel B6_1, DS/PN: 3.000</div>        |           |                                                              |           |                                                                                     |                |           |           |                |
| Invert Level (m) 5.000 Safety Factor 2.0                              |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95            |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Side (m/hr) 0.00000                          |           |                                                              |           |                                                                                     |                |           |           |                |
| Depth (m)                                                             | Area (m²) | Inf. Area (m²)                                               | Depth (m) | Area (m²)                                                                           | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |
| 0.000                                                                 | 92.0      | 80.0                                                         | 1.000     | 92.0                                                                                | 128.0          | 1.100     | 0.0       | 128.0          |
| <div>Cellular Storage Manhole: Parcel B1&amp;CH_1, DS/PN: 4.000</div> |           |                                                              |           |                                                                                     |                |           |           |                |
| Invert Level (m) 4.200 Safety Factor 2.0                              |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95            |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Side (m/hr) 0.00000                          |           |                                                              |           |                                                                                     |                |           |           |                |
| Depth (m)                                                             | Area (m²) | Inf. Area (m²)                                               | Depth (m) | Area (m²)                                                                           | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |
| 0.000                                                                 | 345.0     | 300.0                                                        | 1.000     | 345.0                                                                               | 380.0          | 1.100     | 0.0       | 380.0          |
| <div>Cellular Storage Manhole: Block B_1, DS/PN: 5.000</div>          |           |                                                              |           |                                                                                     |                |           |           |                |
| Invert Level (m) 4.500 Safety Factor 2.0                              |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95            |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Side (m/hr) 0.00000                          |           |                                                              |           |                                                                                     |                |           |           |                |
| Depth (m)                                                             | Area (m²) | Inf. Area (m²)                                               | Depth (m) | Area (m²)                                                                           | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |
| 0.000                                                                 | 310.5     | 270.0                                                        | 1.000     | 310.5                                                                               | 344.0          | 1.100     | 0.0       | 344.0          |
| <div>Cellular Storage Manhole: BovisA_1, DS/PN: 6.000</div>           |           |                                                              |           |                                                                                     |                |           |           |                |
| Invert Level (m) 4.100 Safety Factor 2.0                              |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95            |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Side (m/hr) 0.00000                          |           |                                                              |           |                                                                                     |                |           |           |                |
| Depth (m)                                                             | Area (m²) | Inf. Area (m²)                                               | Depth (m) | Area (m²)                                                                           | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |
| 0.000                                                                 | 258.8     | 225.0                                                        | 1.200     | 258.8                                                                               | 297.0          | 1.300     | 0.0       | 297.0          |
| <div>Cellular Storage Manhole: BovisB_1, DS/PN: 7.000</div>           |           |                                                              |           |                                                                                     |                |           |           |                |
| Invert Level (m) 3.400 Safety Factor 2.0                              |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95            |           |                                                              |           |                                                                                     |                |           |           |                |
| Infiltration Coefficient Side (m/hr) 0.00000                          |           |                                                              |           |                                                                                     |                |           |           |                |
| Depth (m)                                                             | Area (m²) | Inf. Area (m²)                                               | Depth (m) | Area (m²)                                                                           | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |
| 0.000                                                                 | 258.8     | 225.0                                                        | 1.200     | 258.8                                                                               | 297.0          | 1.300     | 0.0       | 297.0          |
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| Lion House<br>Oriental Road<br>Woking GU22 8AR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         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| Date January 2018                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| File WEST CATCHMENT MODEL_...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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       |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |      |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       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| XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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       |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |      |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |
| <p><u>Porous Car Park Manhole: Permbase 01, DS/PN: 8.002</u></p> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>6.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>48.0</td></tr><tr><td>Max Percolation (l/s)</td><td>80.0</td><td>Slope (1:X)</td><td>240.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>3.300</td><td>Cap Volume Depth (m)</td><td>0.460</td></tr></table> <p><u>Cellular Storage Manhole: Ret Block A, DS/PN: 12.000</u></p> <table><tr><td>Invert Level (m)</td><td>3.000</td><td>Safety Factor</td><td>2.0</td></tr><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Porosity</td><td>0.95</td></tr><tr><td>Infiltration Coefficient Side (m/hr)</td><td>0.00000</td><td></td><td></td></tr></table> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>517.5</td><td>450.0</td><td>1.000</td><td>517.5</td><td>560.0</td><td>1.100</td><td>0.0</td><td>560.0</td></tr></table> <p><u>Porous Car Park Manhole: Permbase 02, DS/PN: 14.002</u></p> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>8.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>29.0</td></tr><tr><td>Max Percolation (l/s)</td><td>64.4</td><td>Slope (1:X)</td><td>145.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>3.080</td><td>Cap Volume Depth (m)</td><td>0.460</td></tr></table> <p><u>Porous Car Park Manhole: Permbase 03, DS/PN: 1.015</u></p> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>6.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>30.0</td></tr><tr><td>Max Percolation (l/s)</td><td>56.7</td><td>Slope (1:X)</td><td>150.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>2.880</td><td>Cap Volume Depth (m)</td><td>0.460</td></tr></table> <p><u>Porous Car Park Manhole: Permbase 04, DS/PN: 19.002</u></p> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>6.8</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>42.0</td></tr><tr><td>Max Percolation (l/s)</td><td>79.3</td><td>Slope (1:X)</td><td>140.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>3.080</td><td>Cap Volume Depth (m)</td><td>0.460</td></tr></table> <p><u>Porous Car Park Manhole: Permbase 05, DS/PN: 19.004</u></p> <table><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Width (m)</td><td>18.0</td></tr><tr><td>Membrane Percolation (mm/hr)</td><td>1000</td><td>Length (m)</td><td>18.0</td></tr><tr><td>Max Percolation (l/s)</td><td>90.0</td><td>Slope (1:X)</td><td>140.0</td></tr><tr><td>Safety Factor</td><td>2.0</td><td>Depression Storage (mm)</td><td>5</td></tr><tr><td>Porosity</td><td>0.30</td><td>Evaporation (mm/day)</td><td>3</td></tr><tr><td>Invert Level (m)</td><td>3.000</td><td>Cap Volume Depth (m)</td><td>0.460</td></tr></table> <p><u>Cellular Storage Manhole: Non resi, DS/PN: 25.000</u></p> <table><tr><td>Invert Level (m)</td><td>4.000</td><td>Safety Factor</td><td>2.0</td></tr><tr><td>Infiltration Coefficient Base (m/hr)</td><td>0.00000</td><td>Porosity</td><td>0.95</td></tr><tr><td>Infiltration Coefficient Side (m/hr)</td><td>0.00000</td><td></td><td></td></tr></table> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>414.0</td><td>360.0</td><td>1.000</td><td>414.0</td><td>452.0</td><td>1.100</td><td>0.0</td><td>452.0</td></tr></table> |                                                              |                                                                                     | Infiltration Coefficient Base (m/hr) | 0.00000   | Width (m)      | 6.0       | Membrane Percolation (mm/hr) | 1000           | Length (m) | 48.0 | Max Percolation (l/s) | 80.0 | Slope (1:X) | 240.0 | Safety Factor | 2.0 | Depression Storage (mm) | 5 | Porosity | 0.30 | Evaporation (mm/day) | 3 | Invert Level (m) | 3.300 | Cap Volume Depth (m) | 0.460 | Invert Level (m) | 3.000 | Safety Factor | 2.0 | Infiltration Coefficient Base (m/hr) | 0.00000 | Porosity | 0.95 | Infiltration Coefficient Side (m/hr) | 0.00000 |  |  | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 517.5 | 450.0 | 1.000 | 517.5 | 560.0 | 1.100 | 0.0 | 560.0 | Infiltration Coefficient Base (m/hr) | 0.00000 | Width (m) | 8.0 | Membrane Percolation (mm/hr) | 1000 | Length (m) | 29.0 | Max Percolation (l/s) | 64.4 | Slope (1:X) | 145.0 | Safety Factor | 2.0 | Depression Storage (mm) | 5 | Porosity | 0.30 | Evaporation (mm/day) | 3 | Invert Level (m) | 3.080 | Cap Volume Depth (m) | 0.460 | Infiltration Coefficient Base (m/hr) | 0.00000 | Width (m) | 6.8 | Membrane Percolation (mm/hr) | 1000 | Length (m) | 30.0 | Max Percolation (l/s) | 56.7 | Slope (1:X) | 150.0 | Safety Factor | 2.0 | Depression Storage (mm) | 5 | Porosity | 0.30 | Evaporation (mm/day) | 3 | Invert Level (m) | 2.880 | Cap Volume Depth (m) | 0.460 | Infiltration Coefficient Base (m/hr) | 0.00000 | Width (m) | 6.8 | Membrane Percolation (mm/hr) | 1000 | Length (m) | 42.0 | Max Percolation (l/s) | 79.3 | Slope (1:X) | 140.0 | Safety Factor | 2.0 | Depression Storage (mm) | 5 | Porosity | 0.30 | Evaporation (mm/day) | 3 | Invert Level (m) | 3.080 | Cap Volume Depth (m) | 0.460 | Infiltration Coefficient Base (m/hr) | 0.00000 | Width (m) | 18.0 | Membrane Percolation (mm/hr) | 1000 | Length (m) | 18.0 | Max Percolation (l/s) | 90.0 | Slope (1:X) | 140.0 | Safety Factor | 2.0 | Depression Storage (mm) | 5 | Porosity | 0.30 | Evaporation (mm/day) | 3 | Invert Level (m) | 3.000 | Cap Volume Depth (m) | 0.460 | Invert Level (m) | 4.000 | Safety Factor | 2.0 | Infiltration Coefficient Base (m/hr) | 0.00000 | Porosity | 0.95 | Infiltration Coefficient Side (m/hr) | 0.00000 |  |  | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 414.0 | 360.0 | 1.000 | 414.0 | 452.0 | 1.100 | 0.0 | 452.0 |
| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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                           |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                               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| Membrane Percolation (mm/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                           |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |      |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       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| Max Percolation (l/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 80.0                                                         | Slope (1:X)                                                                         | 240.0                                |           |                |           |                              |                |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |      |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       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| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.30                                                         | Evaporation (mm/day)                                                                | 3                                    |           |                |           |                              |                |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |      |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       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| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 3.300                                                        | Cap Volume Depth (m)                                                                | 0.460                                |           |                |           |                              |                |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                               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| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Area (m²)                                                    | Inf. Area (m²)                                                                      | Depth (m)                            | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²)                    | Inf. Area (m²) |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |      |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |
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| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Membrane Percolation (mm/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Membrane Percolation (mm/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Max Percolation (l/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Membrane Percolation (mm/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Max Percolation (l/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Invert Level (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       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| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Membrane Percolation (mm/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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| Max Percolation (l/s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| Safety Factor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Porosity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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| Infiltration Coefficient Base (m/hr)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   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| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Area (m²)                                                    | Inf. 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Area (m²) |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |     |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                                      |         |           |      |                              |      |            |      |                       |      |             |       |               |     |                         |   |          |      |                      |   |                  |       |                      |       |                  |       |               |     |                                      |         |          |      |                                      |         |  |  |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |
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| ©1982-2012 Micro Drainage Ltd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| Date January 2018<br>File WEST CATCHMENT MODEL_...                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Designed by S Foley<br>Checked by                            |                                                                                     |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| XP Solutions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Network 2013.1                                               |                                                                                     |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| <div>Cellular Storage Manhole: Parcel A1, DS/PN: 26.000</div> <div>Invert Level (m) 4.000 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>575.0</td><td>500.0</td><td>1.000</td><td>575.0</td><td>590.0</td><td>1.100</td><td>0.0</td><td>590.0</td></tr></table> <div>Cellular Storage Manhole: Non Resi, DS/PN: 27.000</div> <div>Invert Level (m) 4.000 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>506.0</td><td>400.0</td><td>1.000</td><td>506.0</td><td>500.0</td><td>1.100</td><td>0.0</td><td>500.0</td></tr></table> <div>Porous Car Park Manhole: Car Park, DS/PN: 32.000</div> <div>Infiltration Coefficient Base (m/hr) 0.00000 Width (m) 50.0<br/>Membrane Percolation (mm/hr) 1000 Length (m) 50.0<br/>Max Percolation (l/s) 694.4 Slope (1:X) 0.0<br/>Safety Factor 2.0 Depression Storage (mm) 5<br/>Porosity 0.30 Evaporation (mm/day) 3<br/>Invert Level (m) 4.500 Cap Volume Depth (m) 0.450</div> <div>Cellular Storage Manhole: Non Resi, DS/PN: 33.000</div> <div>Invert Level (m) 2.700 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>506.0</td><td>400.0</td><td>1.000</td><td>506.0</td><td>500.0</td><td>1.100</td><td>0.0</td><td>500.0</td></tr></table> <div>Cellular Storage Manhole: Non Resi, DS/PN: 35.000</div> <div>Invert Level (m) 2.700 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>126.5</td><td>110.0</td><td>1.000</td><td>126.5</td><td>152.0</td><td>1.100</td><td>0.0</td><td>152.0</td></tr></table> <div>Cellular Storage Manhole: SW21, DS/PN: 24.010</div> <div>Invert Level (m) 1.710 Safety Factor 2.0<br/>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.95<br/>Infiltration Coefficient Side (m/hr) 0.00000</div> <table><tr><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th><th>Depth (m)</th><th>Area (m²)</th><th>Inf. Area (m²)</th></tr><tr><td>0.000</td><td>1050.0</td><td>1050.0</td><td>1.500</td><td>1050.0</td><td>1263.0</td><td>1.600</td><td>0.0</td><td>1263.0</td></tr></table> <div>Porous Car Park Manhole: Permbase 06, DS/PN: 1.017</div> <div>Infiltration Coefficient Base (m/hr) 0.00000 Porosity 0.30<br/>Membrane Percolation (mm/hr) 1000 Invert Level (m) 2.880<br/>Max Percolation (l/s) 71.1 Width (m) 16.0<br/>Safety Factor 2.0 Length (m) 16.0</div> |                                                              |                                                                                     | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 575.0 | 500.0 | 1.000 | 575.0 | 590.0 | 1.100 | 0.0 | 590.0 | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 506.0 | 400.0 | 1.000 | 506.0 | 500.0 | 1.100 | 0.0 | 500.0 | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 506.0 | 400.0 | 1.000 | 506.0 | 500.0 | 1.100 | 0.0 | 500.0 | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 126.5 | 110.0 | 1.000 | 126.5 | 152.0 | 1.100 | 0.0 | 152.0 | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) | 0.000 | 1050.0 | 1050.0 | 1.500 | 1050.0 | 1263.0 | 1.600 | 0.0 | 1263.0 |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area (m²)                                                    | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 575.0                                                        | 500.0                                                                               | 1.000     | 575.0     | 590.0          | 1.100     | 0.0       | 590.0          |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area (m²)                                                    | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 506.0                                                        | 400.0                                                                               | 1.000     | 506.0     | 500.0          | 1.100     | 0.0       | 500.0          |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area (m²)                                                    | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 506.0                                                        | 400.0                                                                               | 1.000     | 506.0     | 500.0          | 1.100     | 0.0       | 500.0          |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area (m²)                                                    | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 126.5                                                        | 110.0                                                                               | 1.000     | 126.5     | 152.0          | 1.100     | 0.0       | 152.0          |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| Depth (m)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Area (m²)                                                    | Inf. Area (m²)                                                                      | Depth (m) | Area (m²) | Inf. Area (m²) | Depth (m) | Area (m²) | Inf. Area (m²) |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |
| 0.000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1050.0                                                       | 1050.0                                                                              | 1.500     | 1050.0    | 1263.0         | 1.600     | 0.0       | 1263.0         |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |       |       |       |       |       |       |     |       |           |           |                |           |           |                |           |           |                |       |        |        |       |        |        |       |     |        |

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|                                                    |                                                              |                                                                                     |
|----------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Mayer Brown Ltd                                    |                                                              | Page 27                                                                             |
| Lion House<br>Oriental Road<br>Woking GU22 8AR     | Littlehampton<br>Overall Surface Network<br>West of Wetlands |  |
| Date January 2018<br>File WEST CATCHMENT MODEL_... | Designed by S Foley<br>Checked by                            |                                                                                     |
| XP Solutions<br>Network 2013.1                     |                                                              |                                                                                     |

Porous Car Park Manhole: Permbase 06, DS/PN: 1.017

Slope (1:X) 53.0   Evaporation (mm/day) 3  
Depression Storage (mm) 5   Cap Volume Depth (m) 0.460

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## **APPENDIX I: Condition 10, Windes – 1in100yr Simulation Results**

|                                                                 |                         |                                                                                     |                |                  |               |                  |          |          |
|-----------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|----------------|------------------|---------------|------------------|----------|----------|
| Mayer Brown Ltd                                                 |                         | Page 1                                                                              |                |                  |               |                  |          |          |
| Lion House                                                      | Littlehampton           |  |                |                  |               |                  |          |          |
| Oriental Road                                                   | Overall Surface Network |                                                                                     |                |                  |               |                  |          |          |
| Woking GU22 8AR                                                 | West of Wetlands        |                                                                                     |                |                  |               |                  |          |          |
| Date January 2018                                               | Designed by S Foley     |                                                                                     |                |                  |               |                  |          |          |
| File WEST CATCHMENT MODEL_...                                   | Checked by              |                                                                                     |                |                  |               |                  |          |          |
| XP Solutions                                                    | Network 2013.1          |                                                                                     |                |                  |               |                  |          |          |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                         |                                                                                     |                |                  |               |                  |          |          |
| Simulation Criteria                                             |                         |                                                                                     |                |                  |               |                  |          |          |
| Areal Reduction Factor 1.000                                    |                         | Additional Flow - % of Total Flow 0.000                                             |                |                  |               |                  |          |          |
| Hot Start (mins) 0                                              |                         | MADD Factor * 10m³/ha Storage 2.000                                                 |                |                  |               |                  |          |          |
| Hot Start Level (mm) 0                                          |                         | Inlet Coefficient 0.800                                                             |                |                  |               |                  |          |          |
| Manhole Headloss Coeff (Global) 0.500                           |                         | Flow per Person per Day (l/per/day) 0.000                                           |                |                  |               |                  |          |          |
| Foul Sewage per hectare (l/s) 0.000                             |                         |                                                                                     |                |                  |               |                  |          |          |
| Number of Input Hydrographs 0                                   |                         | Number of Offline Controls 2                                                        |                |                  |               |                  |          |          |
| Number of Online Controls 14                                    |                         | Number of Storage Structures 20                                                     |                |                  |               |                  |          |          |
|                                                                 |                         | Number of Time/Area Diagrams 0                                                      |                |                  |               |                  |          |          |
|                                                                 |                         | Number of Real Time Controls 0                                                      |                |                  |               |                  |          |          |
| Synthetic Rainfall Details                                      |                         |                                                                                     |                |                  |               |                  |          |          |
| Rainfall Model FEH                                              |                         | D3 (1km) 0.407                                                                      |                |                  |               |                  |          |          |
| Site Location GB 502850 104400 TQ 02850 04400                   |                         | E (1km) 0.314                                                                       |                |                  |               |                  |          |          |
| C (1km) -0.027                                                  |                         | F (1km) 2.329                                                                       |                |                  |               |                  |          |          |
| D1 (1km) 0.393                                                  |                         | Cv (Summer) 0.750                                                                   |                |                  |               |                  |          |          |
| D2 (1km) 0.274                                                  |                         | Cv (Winter) 0.840                                                                   |                |                  |               |                  |          |          |
| Margin for Flood Risk Warning (mm) 300.0                        |                         |                                                                                     |                |                  |               |                  |          |          |
| Analysis Timestep 2.5 Second Increment (Extended)               |                         |                                                                                     |                |                  |               |                  |          |          |
| DTS Status ON                                                   |                         |                                                                                     |                |                  |               |                  |          |          |
| DVD Status ON                                                   |                         |                                                                                     |                |                  |               |                  |          |          |
| Inertia Status ON                                               |                         |                                                                                     |                |                  |               |                  |          |          |
| Profile(s) Winter                                               |                         |                                                                                     |                |                  |               |                  |          |          |
| Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440    |                         |                                                                                     |                |                  |               |                  |          |          |
| Return Period(s) (years) 100                                    |                         |                                                                                     |                |                  |               |                  |          |          |
| Climate Change (%) 30                                           |                         |                                                                                     |                |                  |               |                  |          |          |
| PN                                                              | Storm                   | Return Period                                                                       | Climate Change | First X Surchage | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
| 1.000                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    | 100/15 Winter |                  |          | 3        |
| 1.001                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 2.000                                                           | 480 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 2.001                                                           | 480 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.002                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 3.000                                                           | 60 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 3.001                                                           | 60 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.003                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.004                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    | 100/15 Winter |                  |          | 2        |
| 4.000                                                           | 120 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 4.001                                                           | 120 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.005                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.006                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 5.000                                                           | 360 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 5.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 5.002                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               | 100/15 Winter    | 8        |          |
| 1.007                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 6.000                                                           | 30 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 6.001                                                           | 60 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.008                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 7.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 7.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.009                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 8.000                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 9.000                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 8.001                                                           | 30 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               | 100/15 Winter    | 8        |          |
| 8.002                                                           | 30 Winter               | 100                                                                                 | +30%           | 100/15 Winter    | 100/15 Winter |                  |          | 5        |
| 10.000                                                          | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    | 100/15 Winter |                  |          | 4        |
| 10.001                                                          | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 11.000                                                          | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    | 100/15 Winter |                  |          | 1        |
| 8.003                                                           | 15 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.010                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 12.000                                                          | 480 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 12.001                                                          | 480 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 13.000                                                          | 30 Winter               | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
| 1.011                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/15 Winter    |               |                  |          |          |
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|                                                                 |            |               |                         |                  |                |                                                                                     |          |          |
|-----------------------------------------------------------------|------------|---------------|-------------------------|------------------|----------------|-------------------------------------------------------------------------------------|----------|----------|
| Mayer Brown Ltd                                                 |            |               |                         | Page 2           |                |                                                                                     |          |          |
| Lion House                                                      |            |               | Littlehampton           |                  |                |  |          |          |
| Oriental Road                                                   |            |               | Overall Surface Network |                  |                |                                                                                     |          |          |
| Woking GU22 8AR                                                 |            |               | West of Wetlands        |                  |                |                                                                                     |          |          |
| Date January 2018                                               |            |               | Designed by S Foley     |                  |                |                                                                                     |          |          |
| File WEST CATCHMENT MODEL_...                                   |            |               | Checked by              |                  |                |                                                                                     |          |          |
| XP Solutions                                                    |            |               | Network 2013.1          |                  |                |                                                                                     |          |          |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |            |               |                         |                  |                |                                                                                     |          |          |
| PN                                                              | Storm      | Return Period | Climate Change          | First X Surchage | First Y Flood  | First Z Overflow                                                                    | O/F Act. | Lvl Exc. |
| 1.012                                                           | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 14.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 3        |
| 15.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 3        |
| 14.001                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 14.002                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 5        |
| 16.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 2        |
| 17.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 1.013                                                           | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 18.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 1.014                                                           | 240 Winter | 100           | +30%                    | 100/15 Winter    | 100/240 Winter |                                                                                     |          | 1        |
| 1.015                                                           | 240 Winter | 100           | +30%                    | 100/15 Winter    | 100/240 Winter |                                                                                     |          | 1        |
| 19.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 2        |
| 20.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 2        |
| 19.001                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 19.002                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 21.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 1        |
| 22.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 1        |
| 19.003                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 19.004                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 23.000                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 3        |
| 25.000                                                          | 480 Winter | 100           | +30%                    | 100/30 Winter    |                |                                                                                     |          |          |
| 25.001                                                          | 480 Winter | 100           | +30%                    | 100/15 Winter    | 100/60 Winter  |                                                                                     |          | 1        |
| 24.001                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 1        |
| 26.000                                                          | 120 Winter | 100           | +30%                    | 100/60 Winter    |                |                                                                                     |          |          |
| 26.001                                                          | 120 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 27.000                                                          | 480 Winter | 100           | +30%                    | 100/30 Winter    |                |                                                                                     |          |          |
| 27.001                                                          | 960 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 26.002                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          |          |
| 24.002                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.003                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 28.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 3        |
| 28.001                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          |          |
| 29.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 2        |
| 29.001                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.004                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.005                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 30.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.006                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.007                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 31.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 3        |
| 31.001                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.008                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.009                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 32.000                                                          | 360 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 32.001                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 2        |
| 33.000                                                          | 480 Winter | 100           | +30%                    | 100/30 Winter    |                |                                                                                     |          |          |
| 33.001                                                          | 480 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 34.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 1        |
| 35.000                                                          | 360 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 35.001                                                          | 360 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 36.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 33.002                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 37.000                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 37.001                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 2        |
| 37.002                                                          | 15 Winter  | 100           | +30%                    | 100/15 Winter    | 100/15 Winter  |                                                                                     |          | 1        |
| 37.003                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 38.000                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 33.003                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 33.004                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 24.010                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 23.001                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 39.000                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 23.002                                                          | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 1.016                                                           | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
| 1.017                                                           | 240 Winter | 100           | +30%                    | 100/15 Winter    |                |                                                                                     |          |          |
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|                                                                 |                  |                     |                                                              |                     |                |                                                                                     |                 |            |
|-----------------------------------------------------------------|------------------|---------------------|--------------------------------------------------------------|---------------------|----------------|-------------------------------------------------------------------------------------|-----------------|------------|
| Mayer Brown Ltd                                                 |                  |                     |                                                              | Page 3              |                |                                                                                     |                 |            |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                  |                  |                     | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                     |                |  |                 |            |
| Date January 2018                                               |                  | Designed by S Foley |                                                              |                     |                |                                                                                     |                 |            |
| File WEST CATCHMENT MODEL_...                                   |                  | Checked by          |                                                              |                     |                |                                                                                     |                 |            |
| XP Solutions                                                    |                  |                     | Network 2013.1                                               |                     |                |                                                                                     |                 |            |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                  |                     |                                                              |                     |                |                                                                                     |                 |            |
| PN                                                              | Storm            | Return Period       | Climate Change                                               | First X Surcharge   | First Y Flood  | First Z Overflow                                                                    | O/F Act.        | Lvl Exc.   |
| 40.000                                                          | 15 Winter        | 100                 | +30%                                                         | 100/15 Winter       |                |                                                                                     |                 |            |
| 40.001                                                          | 240 Winter       | 100                 | +30%                                                         | 100/15 Winter       |                |                                                                                     |                 |            |
| 41.000                                                          | 240 Winter       | 100                 | +30%                                                         | 100/15 Winter       |                |                                                                                     |                 |            |
| 1.018                                                           | 240 Winter       | 100                 | +30%                                                         | 100/15 Winter       | 100/240 Winter |                                                                                     |                 |            |
| PN                                                              | US/MH Name       | Water Level (m)     | Surch'd Depth (m)                                            | Flooded Volume (m³) | Flow / Cap.    | O'flow (l/s)                                                                        | Pipe Flow (l/s) | Status     |
| 1.000                                                           | TL_SW01          | 6.398               | 0.928                                                        | 18.461              | 1.15           | 0.0                                                                                 | 78.6            | FLOOD      |
| 1.001                                                           | TL_SW02          | 6.707               | 1.488                                                        | 0.000               | 1.09           | 0.0                                                                                 | 73.1            | FLOOD RISK |
| 2.000                                                           | Parcel A2_1      | 6.080               | 0.580                                                        | 0.000               | 0.05           | 0.0                                                                                 | 5.1             | SURCHARGED |
| 2.001                                                           | Parcel A2_2      | 6.088               | 0.938                                                        | 0.000               | 0.36           | 0.0                                                                                 | 4.7             | SURCHARGED |
| 1.002                                                           | TL_SW03          | 6.743               | 1.687                                                        | 0.000               | 1.11           | 0.0                                                                                 | 73.3            | FLOOD RISK |
| 3.000                                                           | Parcel B6_1      | 5.921               | 0.621                                                        | 0.000               | 0.07           | 0.0                                                                                 | 6.7             | SURCHARGED |
| 3.001                                                           | Parcel B6_2      | 5.915               | 0.965                                                        | 0.000               | 0.45           | 0.0                                                                                 | 5.8             | SURCHARGED |
| 1.003                                                           | TL_SW04          | 6.669               | 1.734                                                        | 0.000               | 1.05           | 0.0                                                                                 | 72.8            | FLOOD RISK |
| 1.004                                                           | TL_SW05          | 6.406               | 1.771                                                        | 25.728              | 1.31           | 0.0                                                                                 | 94.5            | FLOOD      |
| 4.000                                                           | Parcel B1&CH_1   | 4.887               | 0.387                                                        | 0.000               | 0.19           | 0.0                                                                                 | 10.4            | SURCHARGED |
| 4.001                                                           | Parcel B1&CH_2   | 5.094               | 0.809                                                        | 0.000               | 0.62           | 0.0                                                                                 | 8.3             | SURCHARGED |
| 1.005                                                           | Ex. SB10         | 6.588               | 2.378                                                        | 0.000               | 1.30           | 0.0                                                                                 | 88.5            | SURCHARGED |
| 1.006                                                           | Ex. SB9          | 6.504               | 2.434                                                        | 0.000               | 1.58           | 0.0                                                                                 | 111.8           | SURCHARGED |
| 5.000                                                           | Block B_1        | 5.196               | 0.396                                                        | 0.000               | 0.03           | 0.0                                                                                 | 5.7             | SURCHARGED |
| 5.001                                                           | Block B_2        | 5.201               | 1.146                                                        | 0.000               | 0.40           | 0.0                                                                                 | 5.6             | SURCHARGED |
| 5.002                                                           | Ex. SB17         | 5.880               | 1.930                                                        | 0.000               | 0.38           | 79.7                                                                                | 24.8            | SURCHARGED |
| 1.007                                                           | Ex. SB8          | 5.945               | 2.145                                                        | 0.000               | 1.80           | 0.0                                                                                 | 111.9           | SURCHARGED |
| 6.000                                                           | BovisA_1         | 4.992               | 0.517                                                        | 0.000               | 0.49           | 0.0                                                                                 | 57.8            | SURCHARGED |
| 6.001                                                           | BovisA_2         | 5.513               | 1.138                                                        | 0.000               | 0.16           | 0.0                                                                                 | 58.2            | FLOOD RISK |
| 1.008                                                           | Ex SB7           | 4.691               | 1.191                                                        | 0.000               | 1.09           | 0.0                                                                                 | 148.3           | SURCHARGED |
| 7.000                                                           | BovisB_1         | 4.370               | 0.595                                                        | 0.000               | 0.28           | 0.0                                                                                 | 44.1            | FLOOD RISK |
| 7.001                                                           | BovisB_2         | 4.357               | 0.757                                                        | 0.000               | 0.17           | 0.0                                                                                 | 44.4            | FLOOD RISK |
| 1.009                                                           | Dummy Node       | 4.203               | 1.028                                                        | 0.000               | 1.03           | 0.0                                                                                 | 132.9           | SURCHARGED |
| 8.000                                                           | Plots 123 - 126  | 4.047               | 0.742                                                        | 0.000               | 2.13           | 0.0                                                                                 | 18.7            | FLOOD RISK |
| 9.000                                                           | Plots 111 - 116  | 4.046               | 0.760                                                        | 0.000               | 2.45           | 0.0                                                                                 | 32.9            | FLOOD RISK |
| 8.001                                                           | SW01, G01&G02    | 3.829               | 0.564                                                        | 0.000               | 1.74           | 57.7                                                                                | 40.1            | FLOOD RISK |
| 8.002                                                           | Permbase 01      | 3.854               | 0.609                                                        | 3.836               | 0.43           | 0.0                                                                                 | 13.8            | FLOOD      |
| 10.000                                                          | Plots 117 - 122  | 4.067               | 0.752                                                        | 17.342              | 1.19           | 0.0                                                                                 | 19.2            | FLOOD      |
| 10.001                                                          | Stub SW02/2      | 4.364               | 1.271                                                        | 0.000               | 1.33           | 0.0                                                                                 | 39.8            | FLOOD RISK |
| 11.000                                                          | Plots 101-110    | 4.404               | 1.179                                                        | 3.828               | 1.69           | 0.0                                                                                 | 59.2            | FLOOD      |
| 8.003                                                           | SW02             | 4.294               | 1.239                                                        | 0.000               | 2.40           | 0.0                                                                                 | 64.2            | FLOOD RISK |
| 1.010                                                           | Ex SB6           | 4.192               | 1.117                                                        | 0.000               | 0.78           | 0.0                                                                                 | 148.6           | SURCHARGED |
| 12.000                                                          | Ret Block A      | 3.871               | 0.571                                                        | 0.000               | 0.27           | 0.0                                                                                 | 13.8            | SURCHARGED |
| 12.001                                                          | Ret Block A      | 4.138               | 1.088                                                        | 0.000               | 0.27           | 0.0                                                                                 | 4.9             | SURCHARGED |
| 13.000                                                          | Plots 95-100     | 4.149               | 0.924                                                        | 0.000               | 0.72           | 0.0                                                                                 | 32.5            | SURCHARGED |
| 1.011                                                           | SW03             | 4.077               | 1.157                                                        | 0.000               | 0.71           | 0.0                                                                                 | 155.0           | FLOOD RISK |
| 1.012                                                           | SW04             | 3.944               | 1.204                                                        | 0.000               | 0.75           | 0.0                                                                                 | 157.0           | SURCHARGED |
| 14.000                                                          | SW-FUT-01-PlotsN | 4.016               | 1.066                                                        | 16.434              | 1.87           | 0.0                                                                                 | 25.4            | FLOOD      |
| 15.000                                                          | SW-FUT-01-PlotsS | 4.012               | 1.062                                                        | 12.296              | 1.80           | 0.0                                                                                 | 22.2            | FLOOD      |
| 14.001                                                          | SW-FUT-01        | 3.944               | 1.084                                                        | 0.000               | 1.72           | 0.0                                                                                 | 110.5           | FLOOD RISK |
| 14.002                                                          | Permbase 02      | 3.824               | 1.104                                                        | 23.596              | 0.50           | 0.0                                                                                 | 32.3            | FLOOD      |
| 16.000                                                          | Plots 80-86      | 4.106               | 1.406                                                        | 6.112               | 1.94           | 0.0                                                                                 | 44.3            | FLOOD      |
| 17.000                                                          | Plots 87-94      | 3.951               | 1.124                                                        | 0.000               | 0.98           | 0.0                                                                                 | 76.2            | SURCHARGED |
| 1.013                                                           | SW05             | 3.816               | 1.216                                                        | 0.000               | 1.12           | 0.0                                                                                 | 208.6           | SURCHARGED |
| 18.000                                                          | C2 Resiblock A   | 4.095               | 1.550                                                        | 0.000               | 1.45           | 0.0                                                                                 | 105.5           | FLOOD RISK |
| 1.014                                                           | SW06             | 3.704               | 1.264                                                        | 3.849               | 1.34           | 0.0                                                                                 | 224.7           | FLOOD      |
| 1.015                                                           | Permbase 03      | 3.607               | 1.257                                                        | 7.040               | 1.80           | 0.0                                                                                 | 254.7           | FLOOD      |
| 19.000                                                          | SW-FUT-02-PlotN  | 3.704               | 0.954                                                        | 4.082               | 2.23           | 0.0                                                                                 | 26.4            | FLOOD      |
| 20.000                                                          | SW-FUT-02-Plots  | 3.706               | 0.956                                                        | 6.079               | 2.50           | 0.0                                                                                 | 28.4            | FLOOD      |
| 19.001                                                          | SW-FUT-02        | 3.621               | 1.001                                                        | 0.000               | 0.36           | 0.0                                                                                 | 23.3            | SURCHARGED |
| 19.002                                                          | Permbase 04      | 3.609               | 1.134                                                        | 0.000               | 0.39           | 0.0                                                                                 | 23.7            | SURCHARGED |
| 21.000                                                          | Plots 60-73      | 3.900               | 1.150                                                        | 0.166               | 4.03           | 0.0                                                                                 | 44.2            | FLOOD      |
| 22.000                                                          | Plots 74-78      | 3.901               | 1.151                                                        | 1.462               | 2.73           | 0.0                                                                                 | 43.9            | FLOOD      |
| 19.003                                                          | SW07             | 3.604               | 1.204                                                        | 0.000               | 0.96           | 0.0                                                                                 | 53.2            | FLOOD RISK |
| 19.004                                                          | Permbase 05      | 3.596               | 1.241                                                        | 0.000               | 0.93           | 0.0                                                                                 | 53.7            | FLOOD RISK |
| 23.000                                                          | Plots 39-46      | 3.634               | 0.244                                                        | 0.000               | 0.16           | 0.0                                                                                 | 9.7             | SURCHARGED |
| 24.000                                                          | SW-LYM 01        | 5.063               | 1.098                                                        | 22.944              | 1.74           | 0.0                                                                                 | 52.6            | FLOOD      |
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|                                                                 |                 |                                                              |                       |                                                                                     |                |                 |                       |            |
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| Mayer Brown Ltd                                                 |                 |                                                              |                       | Page 4                                                                              |                |                 |                       |            |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                  |                 | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                       |  |                |                 |                       |            |
| Date January 2018                                               |                 | Designed by S Foley                                          |                       |                                                                                     |                |                 |                       |            |
| File WEST CATCHMENT MODEL_...                                   |                 | Checked by                                                   |                       |                                                                                     |                |                 |                       |            |
| XP Solutions                                                    |                 | Network 2013.1                                               |                       |                                                                                     |                |                 |                       |            |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                 |                                                              |                       |                                                                                     |                |                 |                       |            |
| PN                                                              | US/MH<br>Name   | Water<br>Level<br>(m)                                        | Surch'ed<br>Depth (m) | Flooded<br>Volume<br>(m³)                                                           | Flow /<br>Cap. | 0'flow<br>(l/s) | Pipe<br>Flow<br>(l/s) | Status     |
| 25.000                                                          | Non resi        | 4.915                                                        | 0.465                 | 0.000                                                                               | 0.07           | 0.0             | 16.5                  | FLOOD RISK |
| 25.001                                                          | Non resi        | 5.200                                                        | 1.255                 | 0.018                                                                               | 0.14           | 0.0             | 4.9                   | FLOOD      |
| 24.001                                                          | SW-LYM 02       | 5.502                                                        | 1.637                 | 1.654                                                                               | 1.44           | 0.0             | 49.3                  | FLOOD      |
| 26.000                                                          | Parcel A1       | 4.498                                                        | 0.048                 | 0.000                                                                               | 0.12           | 0.0             | 26.9                  | SURCHARGED |
| 26.001                                                          | As-built SA8    | 4.522                                                        | 0.534                 | 0.000                                                                               | 0.59           | 0.0             | 23.3                  | SURCHARGED |
| 27.000                                                          | Non Resi        | 4.822                                                        | 0.372                 | 0.000                                                                               | 0.04           | 0.0             | 12.7                  | SURCHARGED |
| 27.001                                                          | SW Stub 02      | 5.138                                                        | 1.273                 | 0.000                                                                               | 0.13           | 0.0             | 4.9                   | SURCHARGED |
| 26.002                                                          | SW-LYM 03/1     | 5.824                                                        | 2.029                 | 0.007                                                                               | 0.78           | 0.0             | 33.6                  | FLOOD      |
| 24.002                                                          | SW-LYM 03       | 5.978                                                        | 2.403                 | 0.000                                                                               | 1.94           | 0.0             | 64.6                  | SURCHARGED |
| 24.003                                                          | SW-LYM 04       | 6.191                                                        | 2.666                 | 0.000                                                                               | 1.05           | 0.0             | 65.9                  | SURCHARGED |
| 28.000                                                          | SW-LYM 07       | 5.394                                                        | 1.299                 | 24.635                                                                              | 1.72           | 0.0             | 73.2                  | FLOOD      |
| 28.001                                                          | SW-LYM 08       | 6.116                                                        | 2.221                 | 0.103                                                                               | 1.22           | 0.0             | 74.7                  | FLOOD      |
| 29.000                                                          | SW-LYM 05A      | 7.590                                                        | 0.090                 | 20.019                                                                              | 0.98           | 0.0             | 138.1                 | FLOOD      |
| 29.001                                                          | SW-LYM 05       | 6.919                                                        | 1.079                 | 0.000                                                                               | 6.79           | 0.0             | 168.4                 | SURCHARGED |
| 24.004                                                          | SW-LYM 10       | 6.214                                                        | 2.849                 | 0.000                                                                               | 1.63           | 0.0             | 212.0                 | SURCHARGED |
| 24.005                                                          | SW-LYM11        | 5.862                                                        | 2.732                 | 0.000                                                                               | 1.78           | 0.0             | 325.9                 | FLOOD RISK |
| 30.000                                                          | ExSB17_Dum Node | 5.720                                                        | 1.795                 | 0.000                                                                               | 1.00           | 0.0             | 68.7                  | SURCHARGED |
| 24.006                                                          | SW-LYM 12       | 5.393                                                        | 2.423                 | 0.000                                                                               | 1.56           | 0.0             | 386.5                 | SURCHARGED |
| 24.007                                                          | SW-FUT-03       | 4.692                                                        | 2.002                 | 0.000                                                                               | 2.06           | 0.0             | 398.8                 | SURCHARGED |
| 31.000                                                          | Stub SW18/1     | 4.324                                                        | 1.599                 | 23.582                                                                              | 2.23           | 0.0             | 74.1                  | FLOOD      |
| 31.001                                                          | SW18            | 4.173                                                        | 1.568                 | 0.000                                                                               | 2.45           | 0.0             | 85.6                  | SURCHARGED |
| 24.008                                                          | SW19            | 3.823                                                        | 1.403                 | 0.000                                                                               | 0.95           | 0.0             | 220.2                 | SURCHARGED |
| 24.009                                                          | SW20            | 3.690                                                        | 1.405                 | 0.000                                                                               | 1.07           | 0.0             | 218.6                 | SURCHARGED |
| 32.000                                                          | Car Park        | 4.720                                                        | 0.770                 | 0.000                                                                               | 0.03           | 0.0             | 5.7                   | FLOOD RISK |
| 32.001                                                          | Car Park        | 5.000                                                        | 1.450                 | 0.301                                                                               | 0.10           | 0.0             | 4.4                   | FLOOD      |
| 33.000                                                          | Non Resi        | 3.681                                                        | 0.531                 | 0.000                                                                               | 0.05           | 0.0             | 9.7                   | SURCHARGED |
| 33.001                                                          | Stub SW9/1      | 3.893                                                        | 1.068                 | 0.000                                                                               | 0.12           | 0.0             | 4.6                   | SURCHARGED |
| 34.000                                                          | SW08            | 4.901                                                        | 1.126                 | 0.650                                                                               | 0.61           | 0.0             | 57.5                  | FLOOD      |
| 35.000                                                          | Non Resi        | 3.870                                                        | 0.720                 | 0.000                                                                               | 0.02           | 0.0             | 4.9                   | SURCHARGED |
| 35.001                                                          | Stub SW9/2      | 3.869                                                        | 1.144                 | 0.000                                                                               | 0.10           | 0.0             | 4.4                   | SURCHARGED |
| 36.000                                                          | Plots 1 - 4     | 4.784                                                        | 0.324                 | 0.000                                                                               | 0.33           | 0.0             | 17.5                  | SURCHARGED |
| 33.002                                                          | SW09            | 4.627                                                        | 2.002                 | 0.000                                                                               | 2.09           | 0.0             | 84.4                  | SURCHARGED |
| 37.000                                                          | SW12            | 4.271                                                        | 1.256                 | 0.000                                                                               | 1.44           | 0.0             | 48.3                  | FLOOD RISK |
| 37.001                                                          | SW13            | 4.037                                                        | 1.132                 | 17.216                                                                              | 1.61           | 0.0             | 63.8                  | FLOOD      |
| 37.002                                                          | SW14            | 4.020                                                        | 1.195                 | 0.246                                                                               | 1.45           | 0.0             | 66.6                  | FLOOD      |
| 37.003                                                          | SW15            | 3.802                                                        | 1.332                 | 0.000                                                                               | 0.50           | 0.0             | 31.2                  | SURCHARGED |
| 38.000                                                          | Plots 16-22     | 3.794                                                        | 0.204                 | 0.000                                                                               | 0.13           | 0.0             | 8.2                   | SURCHARGED |
| 33.003                                                          | SW16            | 3.783                                                        | 1.383                 | 0.000                                                                               | 0.43           | 0.0             | 57.1                  | SURCHARGED |
| 33.004                                                          | SW17            | 3.727                                                        | 1.457                 | 0.000                                                                               | 0.34           | 0.0             | 56.6                  | SURCHARGED |
| 24.010                                                          | SW21            | 3.640                                                        | 1.080                 | 0.000                                                                               | 0.36           | 0.0             | 218.3                 | SURCHARGED |
| 23.001                                                          | SW22            | 3.631                                                        | 1.101                 | 0.000                                                                               | 0.26           | 0.0             | 219.8                 | SURCHARGED |
| 39.000                                                          | Plots 47-55     | 3.608                                                        | 0.883                 | 0.000                                                                               | 0.78           | 0.0             | 18.0                  | SURCHARGED |
| 23.002                                                          | SW23            | 3.615                                                        | 1.220                 | 0.000                                                                               | 0.29           | 0.0             | 219.6                 | FLOOD RISK |
| 1.016                                                           | SW24            | 3.596                                                        | 1.286                 | 0.000                                                                               | 0.41           | 0.0             | 323.7                 | FLOOD RISK |
| 1.017                                                           | Permbase 06     | 3.567                                                        | 1.367                 | 0.000                                                                               | 0.52           | 0.0             | 258.6                 | FLOOD RISK |
| 40.000                                                          | Plots           | 3.561                                                        | 0.966                 | 0.000                                                                               | 0.92           | 0.0             | 36.7                  | FLOOD RISK |
| 40.001                                                          | Stub SW25/1     | 3.541                                                        | 1.326                 | 0.000                                                                               | 1.58           | 0.0             | 19.8                  | FLOOD RISK |
| 41.000                                                          | Stub SW25/2     | 3.528                                                        | 1.263                 | 0.000                                                                               | 0.79           | 0.0             | 19.6                  | FLOOD RISK |
| 1.018                                                           | SW25            | 3.585                                                        | 1.860                 | 0.059                                                                               | 0.77           | 0.0             | 265.5                 | FLOOD      |
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|                                                                 |                         |                                                                                     |                |                  |                |                  |          |          |
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| Mayer Brown Ltd                                                 |                         | Page 1                                                                              |                |                  |                |                  |          |          |
| Lion House                                                      | Littlehampton           |  |                |                  |                |                  |          |          |
| Oriental Road                                                   | Overall Surface Network |                                                                                     |                |                  |                |                  |          |          |
| Woking GU22 8AR                                                 | West of Wetlands        |                                                                                     |                |                  |                |                  |          |          |
| Date January 2018                                               | Designed by S Foley     |                                                                                     |                |                  |                |                  |          |          |
| File WEST CATCHMENT MODEL_...                                   | Checked by              |                                                                                     |                |                  |                |                  |          |          |
| XP Solutions                                                    | Network 2013.1          |                                                                                     |                |                  |                |                  |          |          |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                         |                                                                                     |                |                  |                |                  |          |          |
| Simulation Criteria                                             |                         |                                                                                     |                |                  |                |                  |          |          |
| Areal Reduction Factor 1.000                                    |                         | Additional Flow - % of Total Flow 0.000                                             |                |                  |                |                  |          |          |
| Hot Start (mins) 0                                              |                         | MADD Factor * 10m³/ha Storage 2.000                                                 |                |                  |                |                  |          |          |
| Hot Start Level (mm) 0                                          |                         | Inlet Coefficient 0.800                                                             |                |                  |                |                  |          |          |
| Manhole Headloss Coeff (Global) 0.500                           |                         | Flow per Person per Day (l/per/day) 0.000                                           |                |                  |                |                  |          |          |
| Foul Sewage per hectare (l/s) 0.000                             |                         |                                                                                     |                |                  |                |                  |          |          |
| Number of Input Hydrographs 0                                   |                         | Number of Offline Controls 2                                                        |                |                  |                |                  |          |          |
| Number of Online Controls 14                                    |                         | Number of Storage Structures 20                                                     |                |                  |                |                  |          |          |
|                                                                 |                         | Number of Time/Area Diagrams 0                                                      |                |                  |                |                  |          |          |
|                                                                 |                         | Number of Real Time Controls 0                                                      |                |                  |                |                  |          |          |
| Synthetic Rainfall Details                                      |                         |                                                                                     |                |                  |                |                  |          |          |
| Rainfall Model                                                  |                         | FEH                                                                                 |                |                  |                |                  |          |          |
| Site Location GB 502850 104400 TQ 02850 04400                   |                         | D3 (1km) 0.407                                                                      |                |                  |                |                  |          |          |
| C (1km)                                                         |                         | E (1km) 0.314                                                                       |                |                  |                |                  |          |          |
| D1 (1km)                                                        |                         | -0.027 F (1km) 2.329                                                                |                |                  |                |                  |          |          |
| D2 (1km)                                                        |                         | 0.393 Cv (Summer) 0.750                                                             |                |                  |                |                  |          |          |
|                                                                 |                         | 0.274 Cv (Winter) 0.840                                                             |                |                  |                |                  |          |          |
| Margin for Flood Risk Warning (mm)                              |                         | 300.0                                                                               |                |                  |                |                  |          |          |
| Analysis Timestep 2.5 Second Increment (Extended)               |                         |                                                                                     |                |                  |                |                  |          |          |
| DTS Status                                                      |                         | ON                                                                                  |                |                  |                |                  |          |          |
| DVD Status                                                      |                         | ON                                                                                  |                |                  |                |                  |          |          |
| Inertia Status                                                  |                         | ON                                                                                  |                |                  |                |                  |          |          |
| Profile(s) Winter                                               |                         |                                                                                     |                |                  |                |                  |          |          |
| Duration(s) (mins)                                              |                         | 240                                                                                 |                |                  |                |                  |          |          |
| Return Period(s) (years)                                        |                         | 100                                                                                 |                |                  |                |                  |          |          |
| Climate Change (%)                                              |                         | 30                                                                                  |                |                  |                |                  |          |          |
| PN                                                              | Storm                   | Return Period                                                                       | Climate Change | First X Surchage | First Y Flood  | First Z Overflow | O/F Act. | Lvl Exc. |
| 1.000                                                           | 240 Winter              | 100                                                                                 | +30%           |                  |                |                  |          |          |
| 1.001                                                           | 240 Winter              | 100                                                                                 | +30%           |                  |                |                  |          |          |
| 2.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 2.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.002                                                           | 240 Winter              | 100                                                                                 | +30%           |                  |                |                  |          |          |
| 3.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 3.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.003                                                           | 240 Winter              | 100                                                                                 | +30%           |                  |                |                  |          |          |
| 1.004                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 4.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 4.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.005                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.006                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 5.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 5.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 5.002                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                | 100/240 Winter   | 1        |          |
| 1.007                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 6.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 6.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.008                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 7.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 7.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.009                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 8.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 9.000                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 8.001                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                | 100/240 Winter   | 1        |          |
| 8.002                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   | 100/240 Winter |                  |          | 1        |
| 10.000                                                          | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   | 100/240 Winter |                  |          | 1        |
| 10.001                                                          | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 11.000                                                          | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 8.003                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.010                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 12.000                                                          | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 12.001                                                          | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 13.000                                                          | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.011                                                           | 240 Winter              | 100                                                                                 | +30%           | 100/240 Winter   |                |                  |          |          |
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|                                                                 |            |               |                                                              |                  |                |                                                                                     |          |          |
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| Mayer Brown Ltd                                                 |            |               |                                                              | Page 2           |                |                                                                                     |          |          |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                  |            |               | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                  |                |  |          |          |
| Date January 2018                                               |            |               | Designed by S Foley                                          |                  |                |                                                                                     |          |          |
| File WEST CATCHMENT MODEL_...                                   |            |               | Checked by                                                   |                  |                |                                                                                     |          |          |
| XP Solutions                                                    |            |               | Network 2013.1                                               |                  |                |                                                                                     |          |          |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |            |               |                                                              |                  |                |                                                                                     |          |          |
| PN                                                              | Storm      | Return Period | Climate Change                                               | First X Surchage | First Y Flood  | First Z Overflow                                                                    | O/F Act. | Lvl Exc. |
| 1.012                                                           | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 14.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 15.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 14.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 14.002                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   | 100/240 Winter |                                                                                     |          | 1        |
| 16.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 17.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 1.013                                                           | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 18.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 1.014                                                           | 240 Winter | 100           | +30%                                                         | 100/240 Winter   | 100/240 Winter |                                                                                     |          | 1        |
| 1.015                                                           | 240 Winter | 100           | +30%                                                         | 100/240 Winter   | 100/240 Winter |                                                                                     |          | 1        |
| 19.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 20.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 19.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 19.002                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 21.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 22.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 19.003                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 19.004                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 23.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 25.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 25.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 26.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 26.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 27.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 27.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 26.002                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.002                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.003                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 28.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 28.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 29.000                                                          | 240 Winter | 100           | +30%                                                         |                  |                |                                                                                     |          |          |
| 29.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.004                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.005                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 30.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.006                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.007                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 31.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 31.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.008                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.009                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 32.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 32.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 33.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 33.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 34.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 35.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 35.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 36.000                                                          | 240 Winter | 100           | +30%                                                         |                  |                |                                                                                     |          |          |
| 33.002                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 37.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 37.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 37.002                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 37.003                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 38.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 33.003                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 33.004                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 24.010                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 23.001                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 39.000                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 23.002                                                          | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 1.016                                                           | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
| 1.017                                                           | 240 Winter | 100           | +30%                                                         | 100/240 Winter   |                |                                                                                     |          |          |
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|                                                |                                                              |                                                                                     |
|------------------------------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Mayer Brown Ltd                                |                                                              | Page 3                                                                              |
| Lion House<br>Oriental Road<br>Woking GU22 8AR | Littlehampton<br>Overall Surface Network<br>West of Wetlands |  |
| Date January 2018                              | Designed by S Foley                                          |                                                                                     |
| File WEST CATCHMENT MODEL_...                  | Checked by                                                   |                                                                                     |
| XP Solutions                                   | Network 2013.1                                               |                                                                                     |

Summary of Critical Results by Maximum Level (Rank 1) for Storm

| PN     | Storm      | Return Period | Climate Change | First X Surchage | First Y Flood  | First Z Overflow | O/F Act. | Lvl Exc. |
|--------|------------|---------------|----------------|------------------|----------------|------------------|----------|----------|
| 40.000 | 240 Winter | 100           | +30%           | 100/240 Winter   |                |                  |          |          |
| 40.001 | 240 Winter | 100           | +30%           | 100/240 Winter   |                |                  |          |          |
| 41.000 | 240 Winter | 100           | +30%           | 100/240 Winter   |                |                  |          |          |
| 1.018  | 240 Winter | 100           | +30%           | 100/240 Winter   | 100/240 Winter |                  |          |          |

| PN     | US/MH Name       | Water Level (m) | Surch'd Depth (m) | Flooded Volume (m³) | Flow / Cap. | O'flow (l/s) | Pipe Flow (l/s) | Status     |
|--------|------------------|-----------------|-------------------|---------------------|-------------|--------------|-----------------|------------|
| 1.000  | TL_SW01          | 5.238           | -0.232            | 0.000               | 0.12        | 0.0          | 8.0             | OK         |
| 1.001  | TL_SW02          | 5.007           | -0.212            | 0.000               | 0.19        | 0.0          | 12.8            | OK         |
| 2.000  | Parcel A2_1      | 6.014           | 0.514             | 0.000               | 0.04        | 0.0          | 4.9             | SURCHARGED |
| 2.001  | Parcel A2_2      | 6.023           | 0.873             | 0.000               | 0.35        | 0.0          | 4.5             | SURCHARGED |
| 1.002  | TL_SW03          | 4.874           | -0.182            | 0.000               | 0.33        | 0.0          | 21.8            | OK         |
| 3.000  | Parcel B6_1      | 5.865           | 0.565             | 0.000               | 0.06        | 0.0          | 6.0             | SURCHARGED |
| 3.001  | Parcel B6_2      | 5.867           | 0.917             | 0.000               | 0.44        | 0.0          | 5.7             | SURCHARGED |
| 1.003  | TL_SW04          | 4.778           | -0.157            | 0.000               | 0.46        | 0.0          | 32.0            | OK         |
| 1.004  | TL_SW05          | 4.709           | 0.074             | 0.000               | 0.67        | 0.0          | 48.4            | SURCHARGED |
| 4.000  | Parcel B1&CH_1   | 4.883           | 0.383             | 0.000               | 0.19        | 0.0          | 10.6            | SURCHARGED |
| 4.001  | Parcel B1&CH_2   | 5.000           | 0.715             | 0.000               | 0.62        | 0.0          | 8.3             | SURCHARGED |
| 1.005  | Ex. SB10         | 4.611           | 0.401             | 0.000               | 0.82        | 0.0          | 56.3            | SURCHARGED |
| 1.006  | Ex. SB9          | 4.521           | 0.451             | 0.000               | 0.93        | 0.0          | 66.1            | SURCHARGED |
| 5.000  | Block B_1        | 5.195           | 0.395             | 0.000               | 0.04        | 0.0          | 6.3             | SURCHARGED |
| 5.001  | Block B_2        | 5.201           | 1.146             | 0.000               | 0.40        | 0.0          | 5.6             | SURCHARGED |
| 5.002  | Ex. SB17         | 4.321           | 0.371             | 0.000               | 0.15        | 49.3         | 9.9             | SURCHARGED |
| 1.007  | Ex. SB8          | 4.396           | 0.596             | 0.000               | 0.99        | 0.0          | 61.7            | SURCHARGED |
| 6.000  | BovisA_1         | 4.644           | 0.169             | 0.000               | 0.46        | 0.0          | 54.7            | SURCHARGED |
| 6.001  | BovisA_2         | 4.609           | 0.234             | 0.000               | 0.15        | 0.0          | 53.5            | SURCHARGED |
| 1.008  | Ex SB7           | 4.322           | 0.822             | 0.000               | 0.81        | 0.0          | 110.6           | SURCHARGED |
| 7.000  | BovisB_1         | 4.370           | 0.595             | 0.000               | 0.28        | 0.0          | 44.1            | FLOOD RISK |
| 7.001  | BovisB_2         | 4.357           | 0.757             | 0.000               | 0.17        | 0.0          | 44.4            | FLOOD RISK |
| 1.009  | Dummy Node       | 4.203           | 1.028             | 0.000               | 1.03        | 0.0          | 132.9           | SURCHARGED |
| 8.000  | Plots 123 - 126  | 3.766           | 0.461             | 0.000               | 0.46        | 0.0          | 4.0             | FLOOD RISK |
| 9.000  | Plots 111 - 116  | 3.759           | 0.473             | 0.000               | 0.43        | 0.0          | 5.7             | FLOOD RISK |
| 8.001  | SW01, G01&G02    | 3.754           | 0.489             | 0.000               | 0.58        | 48.9         | 13.5            | FLOOD RISK |
| 8.002  | Permbase 01      | 3.850           | 0.605             | 0.367               | 0.47        | 0.0          | 14.9            | FLOOD      |
| 10.000 | Plots 117 - 122  | 4.053           | 0.738             | 3.381               | 0.49        | 0.0          | 8.0             | FLOOD      |
| 10.001 | Stub SW02/2      | 4.060           | 0.967             | 0.000               | 0.47        | 0.0          | 14.1            | SURCHARGED |
| 11.000 | Plots 101-110    | 4.063           | 0.838             | 0.000               | 0.41        | 0.0          | 14.5            | SURCHARGED |
| 8.003  | SW02             | 4.058           | 1.003             | 0.000               | 0.84        | 0.0          | 22.6            | SURCHARGED |
| 1.010  | Ex SB6           | 4.192           | 1.117             | 0.000               | 0.78        | 0.0          | 148.6           | SURCHARGED |
| 12.000 | Ret Block A      | 3.786           | 0.486             | 0.000               | 0.26        | 0.0          | 13.5            | SURCHARGED |
| 12.001 | Ret Block A      | 4.131           | 1.081             | 0.000               | 0.25        | 0.0          | 4.6             | SURCHARGED |
| 13.000 | Plots 95-100     | 4.080           | 0.855             | 0.000               | 0.23        | 0.0          | 10.4            | SURCHARGED |
| 1.011  | SW03             | 4.077           | 1.157             | 0.000               | 0.71        | 0.0          | 155.0           | FLOOD RISK |
| 1.012  | SW04             | 3.944           | 1.204             | 0.000               | 0.75        | 0.0          | 157.0           | SURCHARGED |
| 14.000 | SW-FUT-01-PlotsN | 3.887           | 0.937             | 0.000               | 0.86        | 0.0          | 11.6            | FLOOD RISK |
| 15.000 | SW-FUT-01-PlotsS | 3.877           | 0.927             | 0.000               | 0.75        | 0.0          | 9.3             | FLOOD RISK |
| 14.001 | SW-FUT-01        | 3.843           | 0.983             | 0.000               | 0.50        | 0.0          | 32.4            | FLOOD RISK |
| 14.002 | Permbase 02      | 3.824           | 1.104             | 23.596              | 0.50        | 0.0          | 32.3            | FLOOD      |
| 16.000 | Plots 80-86      | 3.836           | 1.136             | 0.000               | 0.60        | 0.0          | 13.7            | FLOOD RISK |
| 17.000 | Plots 87-94      | 3.821           | 0.994             | 0.000               | 0.20        | 0.0          | 15.2            | SURCHARGED |
| 1.013  | SW05             | 3.816           | 1.216             | 0.000               | 1.12        | 0.0          | 208.6           | SURCHARGED |
| 18.000 | C2 Resiblock A   | 3.712           | 1.167             | 0.000               | 0.31        | 0.0          | 22.3            | SURCHARGED |
| 1.014  | SW06             | 3.704           | 1.264             | 3.849               | 1.34        | 0.0          | 224.7           | FLOOD      |
| 1.015  | Permbase 03      | 3.607           | 1.257             | 7.040               | 1.80        | 0.0          | 254.7           | FLOOD      |
| 19.000 | SW-FUT-02-PlotN  | 3.634           | 0.884             | 0.000               | 0.61        | 0.0          | 7.2             | FLOOD RISK |
| 20.000 | SW-FUT-02-Plots  | 3.638           | 0.888             | 0.000               | 0.70        | 0.0          | 8.0             | FLOOD RISK |
| 19.001 | SW-FUT-02        | 3.621           | 1.001             | 0.000               | 0.36        | 0.0          | 23.3            | SURCHARGED |
| 19.002 | Permbase 04      | 3.609           | 1.134             | 0.000               | 0.39        | 0.0          | 23.7            | SURCHARGED |
| 21.000 | Plots 60-73      | 3.611           | 0.861             | 0.000               | 1.07        | 0.0          | 11.8            | FLOOD RISK |
| 22.000 | Plots 74-78      | 3.613           | 0.863             | 0.000               | 0.87        | 0.0          | 13.9            | FLOOD RISK |
| 19.003 | SW07             | 3.604           | 1.204             | 0.000               | 0.96        | 0.0          | 53.2            | FLOOD RISK |
| 19.004 | Permbase 05      | 3.596           | 1.241             | 0.000               | 0.93        | 0.0          | 53.7            | FLOOD RISK |
| 23.000 | Plots 39-46      | 3.634           | 0.244             | 0.000               | 0.16        | 0.0          | 9.7             | SURCHARGED |
| 24.000 | SW-LYM 01        | 4.405           | 0.440             | 0.000               | 0.21        | 0.0          | 6.3             | SURCHARGED |

|                                                                 |                 |                                                              |                       |                           |                                                                                     |                 |                       |            |
|-----------------------------------------------------------------|-----------------|--------------------------------------------------------------|-----------------------|---------------------------|-------------------------------------------------------------------------------------|-----------------|-----------------------|------------|
| Mayer Brown Ltd                                                 |                 |                                                              |                       |                           | Page 4                                                                              |                 |                       |            |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                  |                 | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                       |                           |  |                 |                       |            |
| Date January 2018<br>File WEST CATCHMENT MODEL_...              |                 | Designed by S Foley<br>Checked by                            |                       |                           |                                                                                     |                 |                       |            |
| XP Solutions                                                    |                 | Network 2013.1                                               |                       |                           |                                                                                     |                 |                       |            |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                 |                                                              |                       |                           |                                                                                     |                 |                       |            |
| PN                                                              | US/MH<br>Name   | Water<br>Level<br>(m)                                        | Surch'ed<br>Depth (m) | Flooded<br>Volume<br>(m³) | Flow /<br>Cap.                                                                      | 0'flow<br>(l/s) | Pipe<br>Flow<br>(l/s) | Status     |
| 25.000                                                          | Non resi        | 4.849                                                        | 0.399                 | 0.000                     | 0.10                                                                                | 0.0             | 23.9                  | SURCHARGED |
| 25.001                                                          | Non resi        | 5.100                                                        | 1.155                 | 0.000                     | 0.14                                                                                | 0.0             | 4.7                   | FLOOD RISK |
| 24.001                                                          | SW-LYM 02       | 4.398                                                        | 0.533                 | 0.000                     | 0.42                                                                                | 0.0             | 14.5                  | SURCHARGED |
| 26.000                                                          | Parcel A1       | 4.486                                                        | 0.036                 | 0.000                     | 0.12                                                                                | 0.0             | 26.4                  | SURCHARGED |
| 26.001                                                          | As-built SA8    | 4.518                                                        | 0.530                 | 0.000                     | 0.62                                                                                | 0.0             | 24.6                  | SURCHARGED |
| 27.000                                                          | Non Resi        | 4.782                                                        | 0.332                 | 0.000                     | 0.05                                                                                | 0.0             | 14.2                  | SURCHARGED |
| 27.001                                                          | SW Stub 02      | 5.029                                                        | 1.164                 | 0.000                     | 0.12                                                                                | 0.0             | 4.6                   | SURCHARGED |
| 26.002                                                          | SW-LYM 03/1     | 4.387                                                        | 0.592                 | 0.000                     | 0.68                                                                                | 0.0             | 29.4                  | SURCHARGED |
| 24.002                                                          | SW-LYM 03       | 4.372                                                        | 0.797                 | 0.000                     | 1.39                                                                                | 0.0             | 46.2                  | SURCHARGED |
| 24.003                                                          | SW-LYM 04       | 4.339                                                        | 0.814                 | 0.000                     | 0.79                                                                                | 0.0             | 49.2                  | SURCHARGED |
| 28.000                                                          | SW-LYM 07       | 4.352                                                        | 0.257                 | 0.000                     | 0.16                                                                                | 0.0             | 6.9                   | SURCHARGED |
| 28.001                                                          | SW-LYM 08       | 4.344                                                        | 0.449                 | 0.000                     | 0.31                                                                                | 0.0             | 19.0                  | SURCHARGED |
| 29.000                                                          | SW-LYM 05A      | 7.306                                                        | -0.194                | 0.000                     | 0.27                                                                                | 0.0             | 38.0                  | FLOOD RISK |
| 29.001                                                          | SW-LYM 05       | 5.892                                                        | 0.052                 | 0.000                     | 1.87                                                                                | 0.0             | 46.4                  | SURCHARGED |
| 24.004                                                          | SW-LYM 10       | 4.316                                                        | 0.951                 | 0.000                     | 0.82                                                                                | 0.0             | 107.2                 | SURCHARGED |
| 24.005                                                          | SW-LYM11        | 4.201                                                        | 1.071                 | 0.000                     | 0.73                                                                                | 0.0             | 133.3                 | SURCHARGED |
| 30.000                                                          | ExSB17_Dum Node | 4.250                                                        | 0.325                 | 0.000                     | 0.72                                                                                | 0.0             | 49.6                  | SURCHARGED |
| 24.006                                                          | SW-LYM 12       | 4.088                                                        | 1.118                 | 0.000                     | 0.74                                                                                | 0.0             | 183.4                 | SURCHARGED |
| 24.007                                                          | SW-FUT-03       | 3.939                                                        | 1.249                 | 0.000                     | 0.96                                                                                | 0.0             | 186.8                 | SURCHARGED |
| 31.000                                                          | Stub SW18/1     | 3.906                                                        | 1.181                 | 0.000                     | 0.73                                                                                | 0.0             | 24.3                  | SURCHARGED |
| 31.001                                                          | SW18            | 3.871                                                        | 1.266                 | 0.000                     | 0.83                                                                                | 0.0             | 28.9                  | SURCHARGED |
| 24.008                                                          | SW19            | 3.823                                                        | 1.403                 | 0.000                     | 0.95                                                                                | 0.0             | 220.2                 | SURCHARGED |
| 24.009                                                          | SW20            | 3.690                                                        | 1.405                 | 0.000                     | 1.07                                                                                | 0.0             | 218.6                 | SURCHARGED |
| 32.000                                                          | Car Park        | 4.718                                                        | 0.768                 | 0.000                     | 0.03                                                                                | 0.0             | 5.7                   | FLOOD RISK |
| 32.001                                                          | Car Park        | 4.755                                                        | 1.205                 | 0.000                     | 0.11                                                                                | 0.0             | 4.6                   | FLOOD RISK |
| 33.000                                                          | Non Resi        | 3.572                                                        | 0.422                 | 0.000                     | 0.05                                                                                | 0.0             | 8.4                   | SURCHARGED |
| 33.001                                                          | Stub SW9/1      | 3.762                                                        | 0.937                 | 0.000                     | 0.11                                                                                | 0.0             | 4.2                   | SURCHARGED |
| 34.000                                                          | SW08            | 3.816                                                        | 0.041                 | 0.000                     | 0.12                                                                                | 0.0             | 11.6                  | SURCHARGED |
| 35.000                                                          | Non Resi        | 3.758                                                        | 0.608                 | 0.000                     | 0.02                                                                                | 0.0             | 4.6                   | SURCHARGED |
| 35.001                                                          | Stub SW9/2      | 3.773                                                        | 1.048                 | 0.000                     | 0.09                                                                                | 0.0             | 4.0                   | SURCHARGED |
| 36.000                                                          | Plots 1 - 4     | 4.334                                                        | -0.126                | 0.000                     | 0.06                                                                                | 0.0             | 3.3                   | OK         |
| 33.002                                                          | SW09            | 3.798                                                        | 1.173                 | 0.000                     | 0.53                                                                                | 0.0             | 21.4                  | SURCHARGED |
| 37.000                                                          | SW12            | 3.877                                                        | 0.862                 | 0.000                     | 0.23                                                                                | 0.0             | 7.8                   | SURCHARGED |
| 37.001                                                          | SW13            | 3.867                                                        | 0.962                 | 0.000                     | 0.40                                                                                | 0.0             | 15.6                  | FLOOD RISK |
| 37.002                                                          | SW14            | 3.846                                                        | 1.021                 | 0.000                     | 0.51                                                                                | 0.0             | 23.4                  | FLOOD RISK |
| 37.003                                                          | SW15            | 3.802                                                        | 1.332                 | 0.000                     | 0.50                                                                                | 0.0             | 31.2                  | SURCHARGED |
| 38.000                                                          | Plots 16-22     | 3.794                                                        | 0.204                 | 0.000                     | 0.13                                                                                | 0.0             | 8.2                   | SURCHARGED |
| 33.003                                                          | SW16            | 3.783                                                        | 1.383                 | 0.000                     | 0.43                                                                                | 0.0             | 57.1                  | SURCHARGED |
| 33.004                                                          | SW17            | 3.727                                                        | 1.457                 | 0.000                     | 0.34                                                                                | 0.0             | 56.6                  | SURCHARGED |
| 24.010                                                          | SW21            | 3.640                                                        | 1.080                 | 0.000                     | 0.36                                                                                | 0.0             | 218.3                 | SURCHARGED |
| 23.001                                                          | SW22            | 3.631                                                        | 1.101                 | 0.000                     | 0.26                                                                                | 0.0             | 219.8                 | SURCHARGED |
| 39.000                                                          | Plots 47-55     | 3.608                                                        | 0.883                 | 0.000                     | 0.78                                                                                | 0.0             | 18.0                  | SURCHARGED |
| 23.002                                                          | SW23            | 3.615                                                        | 1.220                 | 0.000                     | 0.29                                                                                | 0.0             | 219.6                 | FLOOD RISK |
| 1.016                                                           | SW24            | 3.596                                                        | 1.286                 | 0.000                     | 0.41                                                                                | 0.0             | 323.7                 | FLOOD RISK |
| 1.017                                                           | Permbase 06     | 3.567                                                        | 1.367                 | 0.000                     | 0.52                                                                                | 0.0             | 258.6                 | FLOOD RISK |
| 40.000                                                          | Plots           | 3.537                                                        | 0.942                 | 0.000                     | 0.31                                                                                | 0.0             | 12.3                  | FLOOD RISK |
| 40.001                                                          | Stub SW25/1     | 3.541                                                        | 1.326                 | 0.000                     | 1.58                                                                                | 0.0             | 19.8                  | FLOOD RISK |
| 41.000                                                          | Stub SW25/2     | 3.528                                                        | 1.263                 | 0.000                     | 0.79                                                                                | 0.0             | 19.6                  | FLOOD RISK |
| 1.018                                                           | SW25            | 3.585                                                        | 1.860                 | 0.059                     | 0.77                                                                                | 0.0             | 265.5                 | FLOOD      |
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## **APPENDIX J: Condition 10, Windes – 1in30yr & 1in1yr Simulation Results**

|                                                                 |                         |                                                                                     |                |                  |               |                  |          |          |
|-----------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|----------------|------------------|---------------|------------------|----------|----------|
| Mayer Brown Ltd                                                 |                         | Page 1                                                                              |                |                  |               |                  |          |          |
| Lion House                                                      | Littlehampton           |  |                |                  |               |                  |          |          |
| Oriental Road                                                   | Overall Surface Network |                                                                                     |                |                  |               |                  |          |          |
| Woking GU22 8AR                                                 | West of Wetlands        |                                                                                     |                |                  |               |                  |          |          |
| Date January 2018                                               | Designed by S Foley     |                                                                                     |                |                  |               |                  |          |          |
| File WEST CATCHMENT MODEL_...                                   | Checked by              |                                                                                     |                |                  |               |                  |          |          |
| XP Solutions                                                    | Network 2013.1          |                                                                                     |                |                  |               |                  |          |          |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                         |                                                                                     |                |                  |               |                  |          |          |
| Simulation Criteria                                             |                         |                                                                                     |                |                  |               |                  |          |          |
| Areal Reduction Factor 1.000                                    |                         | Additional Flow - % of Total Flow 0.000                                             |                |                  |               |                  |          |          |
| Hot Start (mins) 0                                              |                         | MADD Factor * 10m³/ha Storage 2.000                                                 |                |                  |               |                  |          |          |
| Hot Start Level (mm) 0                                          |                         | Inlet Coefficient 0.800                                                             |                |                  |               |                  |          |          |
| Manhole Headloss Coeff (Global) 0.500                           |                         | Flow per Person per Day (l/per/day) 0.000                                           |                |                  |               |                  |          |          |
| Foul Sewage per hectare (l/s) 0.000                             |                         |                                                                                     |                |                  |               |                  |          |          |
| Number of Input Hydrographs 0                                   |                         | Number of Offline Controls 2                                                        |                |                  |               |                  |          |          |
| Number of Online Controls 14                                    |                         | Number of Storage Structures 20                                                     |                |                  |               |                  |          |          |
|                                                                 |                         | Number of Time/Area Diagrams 0                                                      |                |                  |               |                  |          |          |
|                                                                 |                         | Number of Real Time Controls 0                                                      |                |                  |               |                  |          |          |
| Synthetic Rainfall Details                                      |                         |                                                                                     |                |                  |               |                  |          |          |
| Rainfall Model FEH                                              |                         | D3 (1km) 0.407                                                                      |                |                  |               |                  |          |          |
| Site Location GB 502850 104400 TQ 02850 04400                   |                         | E (1km) 0.314                                                                       |                |                  |               |                  |          |          |
| C (1km) -0.027                                                  |                         | F (1km) 2.329                                                                       |                |                  |               |                  |          |          |
| D1 (1km) 0.393                                                  |                         | Cv (Summer) 0.750                                                                   |                |                  |               |                  |          |          |
| D2 (1km) 0.274                                                  |                         | Cv (Winter) 0.840                                                                   |                |                  |               |                  |          |          |
| Margin for Flood Risk Warning (mm) 300.0                        |                         |                                                                                     |                |                  |               |                  |          |          |
| Analysis Timestep 2.5 Second Increment (Extended)               |                         |                                                                                     |                |                  |               |                  |          |          |
| DTS Status ON                                                   |                         |                                                                                     |                |                  |               |                  |          |          |
| DVD Status ON                                                   |                         |                                                                                     |                |                  |               |                  |          |          |
| Inertia Status ON                                               |                         |                                                                                     |                |                  |               |                  |          |          |
| Profile(s) Winter                                               |                         |                                                                                     |                |                  |               |                  |          |          |
| Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440    |                         |                                                                                     |                |                  |               |                  |          |          |
| Return Period(s) (years) 30                                     |                         |                                                                                     |                |                  |               |                  |          |          |
| Climate Change (%) 0                                            |                         |                                                                                     |                |                  |               |                  |          |          |
| PN                                                              | Storm                   | Return Period                                                                       | Climate Change | First X Surchage | First Y Flood | First Z Overflow | O/F Act. | Lvl Exc. |
| 1.000                                                           | 15 Winter               | 30                                                                                  | 0%             |                  |               |                  |          |          |
| 1.001                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 2.000                                                           | 480 Winter              | 30                                                                                  | 0%             | 30/60 Winter     |               |                  |          |          |
| 2.001                                                           | 480 Winter              | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.002                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 3.000                                                           | 120 Winter              | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 3.001                                                           | 120 Winter              | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.003                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.004                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 4.000                                                           | 120 Winter              | 30                                                                                  | 0%             |                  |               |                  |          |          |
| 4.001                                                           | 120 Winter              | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.005                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.006                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 5.000                                                           | 240 Winter              | 30                                                                                  | 0%             | 30/120 Winter    |               |                  |          |          |
| 5.001                                                           | 240 Winter              | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 5.002                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               | 30/15 Winter     | 5        |          |
| 1.007                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 6.000                                                           | 30 Winter               | 30                                                                                  | 0%             |                  |               |                  |          |          |
| 6.001                                                           | 30 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.008                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 7.000                                                           | 30 Winter               | 30                                                                                  | 0%             | 30/30 Winter     |               |                  |          |          |
| 7.001                                                           | 30 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.009                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 8.000                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 9.000                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 8.001                                                           | 30 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               | 30/15 Winter     | 4        |          |
| 8.002                                                           | 30 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 10.000                                                          | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 10.001                                                          | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 11.000                                                          | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 8.003                                                           | 15 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.010                                                           | 30 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 12.000                                                          | 480 Winter              | 30                                                                                  | 0%             | 30/120 Winter    |               |                  |          |          |
| 12.001                                                          | 480 Winter              | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 13.000                                                          | 30 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
| 1.011                                                           | 30 Winter               | 30                                                                                  | 0%             | 30/15 Winter     |               |                  |          |          |
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|                                                                 |            |                         |                |                                                                                     |               |                  |                   |
|-----------------------------------------------------------------|------------|-------------------------|----------------|-------------------------------------------------------------------------------------|---------------|------------------|-------------------|
| Mayer Brown Ltd                                                 |            |                         |                | Page 2                                                                              |               |                  |                   |
| Lion House                                                      |            | Littlehampton           |                |  |               |                  |                   |
| Oriental Road                                                   |            | Overall Surface Network |                |                                                                                     |               |                  |                   |
| Woking GU22 8AR                                                 |            | West of Wetlands        |                |                                                                                     |               |                  |                   |
| Date January 2018                                               |            | Designed by S Foley     |                |                                                                                     |               |                  |                   |
| File WEST CATCHMENT MODEL_...                                   |            | Checked by              |                |                                                                                     |               |                  |                   |
| XP Solutions                                                    |            | Network 2013.1          |                |                                                                                     |               |                  |                   |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |            |                         |                |                                                                                     |               |                  |                   |
| PN                                                              | Storm      | Return Period           | Climate Change | First X Surge                                                                       | First Y Flood | First Z Overflow | O/F Act. Lvl Exc. |
| 1.012                                                           | 30 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 14.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 15.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 14.001                                                          | 30 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 14.002                                                          | 30 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 16.000                                                          | 30 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 17.000                                                          | 30 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 1.013                                                           | 30 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 18.000                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 1.014                                                           | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 1.015                                                           | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 19.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 20.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 19.001                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 19.002                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 21.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 22.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 19.003                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 19.004                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 23.000                                                          | 15 Winter  | 30                      | 0%             |                                                                                     |               |                  |                   |
| 24.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 25.000                                                          | 480 Winter | 30                      | 0%             |                                                                                     |               |                  |                   |
| 25.001                                                          | 480 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.001                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 26.000                                                          | 30 Winter  | 30                      | 0%             |                                                                                     |               |                  |                   |
| 26.001                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 27.000                                                          | 480 Winter | 30                      | 0%             |                                                                                     |               |                  |                   |
| 27.001                                                          | 480 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 26.002                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.002                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.003                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 28.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 28.001                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 29.000                                                          | 15 Winter  | 30                      | 0%             |                                                                                     |               |                  |                   |
| 29.001                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.004                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.005                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 30.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.006                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.007                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 31.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 31.001                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.008                                                          | 360 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.009                                                          | 360 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 32.000                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 32.001                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 33.000                                                          | 480 Winter | 30                      | 0%             |                                                                                     |               |                  |                   |
| 33.001                                                          | 480 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 34.000                                                          | 15 Winter  | 30                      | 0%             |                                                                                     |               |                  |                   |
| 35.000                                                          | 240 Winter | 30                      | 0%             |                                                                                     |               |                  |                   |
| 35.001                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 36.000                                                          | 15 Winter  | 30                      | 0%             |                                                                                     |               |                  |                   |
| 33.002                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 37.000                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 37.001                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 37.002                                                          | 15 Winter  | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 37.003                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 38.000                                                          | 15 Winter  | 30                      | 0%             |                                                                                     |               |                  |                   |
| 33.003                                                          | 360 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 33.004                                                          | 360 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 24.010                                                          | 360 Winter | 30                      | 0%             | 30/60 Winter                                                                        |               |                  |                   |
| 23.001                                                          | 240 Winter | 30                      | 0%             | 30/60 Winter                                                                        |               |                  |                   |
| 39.000                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 23.002                                                          | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 1.016                                                           | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
| 1.017                                                           | 240 Winter | 30                      | 0%             | 30/15 Winter                                                                        |               |                  |                   |
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|                                                                 |                  |                                                              |                   |                                                                                     |               |                  |                 |            |
|-----------------------------------------------------------------|------------------|--------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|---------------|------------------|-----------------|------------|
| Mayer Brown Ltd                                                 |                  |                                                              |                   | Page 3                                                                              |               |                  |                 |            |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                  |                  | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                   |  |               |                  |                 |            |
| Date January 2018                                               |                  | Designed by S Foley                                          |                   |                                                                                     |               |                  |                 |            |
| File WEST CATCHMENT MODEL_...                                   |                  | Checked by                                                   |                   |                                                                                     |               |                  |                 |            |
| XP Solutions                                                    |                  | Network 2013.1                                               |                   |                                                                                     |               |                  |                 |            |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                  |                                                              |                   |                                                                                     |               |                  |                 |            |
| PN                                                              | Storm            | Return Period                                                | Climate Change    | First X Surchage                                                                    | First Y Flood | First Z Overflow | O/F Act.        | Lvl Exc.   |
| 40.000                                                          | 240 Winter       | 30                                                           | 0%                | 30/15 Winter                                                                        |               |                  |                 |            |
| 40.001                                                          | 240 Winter       | 30                                                           | 0%                | 30/15 Winter                                                                        |               |                  |                 |            |
| 41.000                                                          | 240 Winter       | 30                                                           | 0%                | 30/15 Winter                                                                        |               |                  |                 |            |
| 1.018                                                           | 240 Winter       | 30                                                           | 0%                | 30/15 Winter                                                                        |               |                  |                 |            |
| PN                                                              | US/MH Name       | Water Level (m)                                              | Surch'd Depth (m) | Flooded Volume (m³)                                                                 | Flow / Cap.   | O'flow (l/s)     | Pipe Flow (l/s) | Status     |
| 1.000                                                           | TL_SW01          | 5.302                                                        | -0.168            | 0.000                                                                               | 0.37          | 0.0              | 25.5            | OK         |
| 1.001                                                           | TL_SW02          | 5.283                                                        | 0.064             | 0.000                                                                               | 0.58          | 0.0              | 38.7            | SURCHARGED |
| 2.000                                                           | Parcel A2_1      | 5.636                                                        | 0.136             | 0.000                                                                               | 0.03          | 0.0              | 3.9             | SURCHARGED |
| 2.001                                                           | Parcel A2_2      | 5.642                                                        | 0.492             | 0.000                                                                               | 0.27          | 0.0              | 3.6             | SURCHARGED |
| 1.002                                                           | TL_SW03          | 5.275                                                        | 0.219             | 0.000                                                                               | 0.73          | 0.0              | 47.9            | SURCHARGED |
| 3.000                                                           | Parcel B6_1      | 5.402                                                        | 0.102             | 0.000                                                                               | 0.05          | 0.0              | 5.2             | SURCHARGED |
| 3.001                                                           | Parcel B6_2      | 5.405                                                        | 0.455             | 0.000                                                                               | 0.33          | 0.0              | 4.2             | SURCHARGED |
| 1.003                                                           | TL_SW04          | 5.252                                                        | 0.317             | 0.000                                                                               | 0.73          | 0.0              | 50.4            | SURCHARGED |
| 1.004                                                           | TL_SW05          | 5.170                                                        | 0.535             | 0.000                                                                               | 1.03          | 0.0              | 74.3            | SURCHARGED |
| 4.000                                                           | Parcel B1&CH_1   | 4.496                                                        | -0.004            | 0.000                                                                               | 0.15          | 0.0              | 8.3             | OK         |
| 4.001                                                           | Parcel B1&CH_2   | 4.476                                                        | 0.191             | 0.000                                                                               | 0.61          | 0.0              | 8.2             | SURCHARGED |
| 1.005                                                           | Ex. SB10         | 4.791                                                        | 0.581             | 0.000                                                                               | 1.05          | 0.0              | 71.5            | SURCHARGED |
| 1.006                                                           | Ex. SB9          | 4.634                                                        | 0.564             | 0.000                                                                               | 1.17          | 0.0              | 83.0            | SURCHARGED |
| 5.000                                                           | Block B_1        | 4.815                                                        | 0.015             | 0.000                                                                               | 0.04          | 0.0              | 6.3             | SURCHARGED |
| 5.001                                                           | Block B_2        | 4.811                                                        | 0.756             | 0.000                                                                               | 0.34          | 0.0              | 4.7             | SURCHARGED |
| 5.002                                                           | Ex. SB17         | 4.137                                                        | 0.187             | 0.000                                                                               | 0.32          | 58.6             | 21.1            | SURCHARGED |
| 1.007                                                           | Ex. SB8          | 4.238                                                        | 0.438             | 0.000                                                                               | 1.16          | 0.0              | 71.9            | SURCHARGED |
| 6.000                                                           | BovisA_1         | 4.452                                                        | -0.023            | 0.000                                                                               | 0.45          | 0.0              | 53.6            | OK         |
| 6.001                                                           | BovisA_2         | 4.411                                                        | 0.036             | 0.000                                                                               | 0.14          | 0.0              | 52.6            | SURCHARGED |
| 1.008                                                           | Ex SB7           | 3.999                                                        | 0.499             | 0.000                                                                               | 0.91          | 0.0              | 123.8           | SURCHARGED |
| 7.000                                                           | BovisB_1         | 3.805                                                        | 0.030             | 0.000                                                                               | 0.31          | 0.0              | 48.7            | SURCHARGED |
| 7.001                                                           | BovisB_2         | 3.773                                                        | 0.173             | 0.000                                                                               | 0.19          | 0.0              | 47.4            | SURCHARGED |
| 1.009                                                           | Dummy Node       | 3.622                                                        | 0.447             | 0.000                                                                               | 1.26          | 0.0              | 162.2           | SURCHARGED |
| 8.000                                                           | Plots 123 - 126  | 3.701                                                        | 0.396             | 0.000                                                                               | 1.31          | 0.0              | 11.5            | SURCHARGED |
| 9.000                                                           | Plots 111 - 116  | 3.657                                                        | 0.371             | 0.000                                                                               | 1.22          | 0.0              | 16.4            | SURCHARGED |
| 8.001                                                           | SW01, G01&G02    | 3.611                                                        | 0.346             | 0.000                                                                               | 1.41          | 16.9             | 32.5            | FLOOD RISK |
| 8.002                                                           | Permbase 01      | 3.613                                                        | 0.368             | 0.000                                                                               | 0.75          | 0.0              | 23.8            | FLOOD RISK |
| 10.000                                                          | Plots 117 - 122  | 4.045                                                        | 0.730             | 0.000                                                                               | 1.01          | 0.0              | 16.3            | FLOOD RISK |
| 10.001                                                          | Stub SW02/2      | 3.776                                                        | 0.683             | 0.000                                                                               | 1.04          | 0.0              | 31.0            | SURCHARGED |
| 11.000                                                          | Plots 101-110    | 3.765                                                        | 0.540             | 0.000                                                                               | 1.14          | 0.0              | 39.8            | SURCHARGED |
| 8.003                                                           | SW02             | 3.707                                                        | 0.652             | 0.000                                                                               | 2.08          | 0.0              | 55.8            | SURCHARGED |
| 1.010                                                           | Ex SB6           | 3.593                                                        | 0.518             | 0.000                                                                               | 0.97          | 0.0              | 184.0           | SURCHARGED |
| 12.000                                                          | Ret Block A      | 3.402                                                        | 0.102             | 0.000                                                                               | 0.23          | 0.0              | 11.6            | SURCHARGED |
| 12.001                                                          | Ret Block A      | 3.594                                                        | 0.544             | 0.000                                                                               | 0.20          | 0.0              | 3.6             | SURCHARGED |
| 13.000                                                          | Plots 95-100     | 3.487                                                        | 0.262             | 0.000                                                                               | 0.39          | 0.0              | 17.7            | SURCHARGED |
| 1.011                                                           | SW03             | 3.480                                                        | 0.560             | 0.000                                                                               | 0.85          | 0.0              | 187.3           | SURCHARGED |
| 1.012                                                           | SW04             | 3.347                                                        | 0.607             | 0.000                                                                               | 0.89          | 0.0              | 187.8           | SURCHARGED |
| 14.000                                                          | SW-FUT-01-PlotsN | 3.986                                                        | 1.036             | 0.000                                                                               | 2.05          | 0.0              | 27.9            | FLOOD RISK |
| 15.000                                                          | SW-FUT-01-PlotsS | 3.860                                                        | 0.910             | 0.000                                                                               | 1.83          | 0.0              | 22.6            | FLOOD RISK |
| 14.001                                                          | SW-FUT-01        | 3.358                                                        | 0.498             | 0.000                                                                               | 0.86          | 0.0              | 55.5            | SURCHARGED |
| 14.002                                                          | Permbase 02      | 3.272                                                        | 0.552             | 0.000                                                                               | 0.67          | 0.0              | 43.3            | SURCHARGED |
| 16.000                                                          | Plots 80-86      | 3.338                                                        | 0.638             | 0.000                                                                               | 0.91          | 0.0              | 20.8            | SURCHARGED |
| 17.000                                                          | Plots 87-94      | 3.233                                                        | 0.406             | 0.000                                                                               | 0.34          | 0.0              | 26.4            | SURCHARGED |
| 1.013                                                           | SW05             | 3.220                                                        | 0.620             | 0.000                                                                               | 1.28          | 0.0              | 238.3           | SURCHARGED |
| 18.000                                                          | C2 Resiblock A   | 3.053                                                        | 0.508             | 0.000                                                                               | 0.22          | 0.0              | 15.8            | SURCHARGED |
| 1.014                                                           | SW06             | 3.040                                                        | 0.600             | 0.000                                                                               | 1.17          | 0.0              | 197.3           | SURCHARGED |
| 1.015                                                           | Permbase 03      | 2.937                                                        | 0.587             | 0.000                                                                               | 1.39          | 0.0              | 197.1           | SURCHARGED |
| 19.000                                                          | SW-FUT-02-PlotN  | 3.152                                                        | 0.402             | 0.000                                                                               | 1.28          | 0.0              | 15.2            | SURCHARGED |
| 20.000                                                          | SW-FUT-02-Plots  | 3.256                                                        | 0.506             | 0.000                                                                               | 1.55          | 0.0              | 17.6            | SURCHARGED |
| 19.001                                                          | SW-FUT-02        | 2.938                                                        | 0.318             | 0.000                                                                               | 0.75          | 0.0              | 48.9            | SURCHARGED |
| 19.002                                                          | Permbase 04      | 2.897                                                        | 0.422             | 0.000                                                                               | 0.21          | 0.0              | 12.9            | SURCHARGED |
| 21.000                                                          | Plots 60-73      | 2.930                                                        | 0.180             | 0.000                                                                               | 2.36          | 0.0              | 25.8            | SURCHARGED |
| 22.000                                                          | Plots 74-78      | 2.991                                                        | 0.241             | 0.000                                                                               | 1.84          | 0.0              | 29.6            | SURCHARGED |
| 19.003                                                          | SW07             | 2.894                                                        | 0.494             | 0.000                                                                               | 0.47          | 0.0              | 26.3            | SURCHARGED |
| 19.004                                                          | Permbase 05      | 2.892                                                        | 0.537             | 0.000                                                                               | 0.46          | 0.0              | 26.7            | SURCHARGED |
| 23.000                                                          | Plots 39-46      | 3.313                                                        | -0.077            | 0.000                                                                               | 0.48          | 0.0              | 28.1            | OK         |
| 24.000                                                          | SW-LYM 01        | 4.407                                                        | 0.442             | 0.000                                                                               | 0.75          | 0.0              | 22.6            | SURCHARGED |
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|                                                                 |                 |                                                              |                       |                                                                                     |                |                 |                       |            |
|-----------------------------------------------------------------|-----------------|--------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|----------------|-----------------|-----------------------|------------|
| Mayer Brown Ltd                                                 |                 |                                                              |                       | Page 4                                                                              |                |                 |                       |            |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                  |                 | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                       |  |                |                 |                       |            |
| Date January 2018                                               |                 | Designed by S Foley                                          |                       |                                                                                     |                |                 |                       |            |
| File WEST CATCHMENT MODEL_...                                   |                 | Checked by                                                   |                       |                                                                                     |                |                 |                       |            |
| XP Solutions                                                    |                 | Network 2013.1                                               |                       |                                                                                     |                |                 |                       |            |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                 |                                                              |                       |                                                                                     |                |                 |                       |            |
| PN                                                              | US/MH<br>Name   | Water<br>Level<br>(m)                                        | Surch'ed<br>Depth (m) | Flooded<br>Volume<br>(m³)                                                           | Flow /<br>Cap. | O'flow<br>(l/s) | Pipe<br>Flow<br>(l/s) | Status     |
| 25.000                                                          | Non resi        | 4.414                                                        | -0.036                | 0.000                                                                               | 0.02           | 0.0             | 5.2                   | OK         |
| 25.001                                                          | Non resi        | 4.410                                                        | 0.465                 | 0.000                                                                               | 0.12           | 0.0             | 4.1                   | SURCHARGED |
| 24.001                                                          | SW-LYM 02       | 4.401                                                        | 0.536                 | 0.000                                                                               | 0.88           | 0.0             | 30.2                  | SURCHARGED |
| 26.000                                                          | Parcel A1       | 4.182                                                        | -0.268                | 0.000                                                                               | 0.13           | 0.0             | 28.9                  | OK         |
| 26.001                                                          | As-built SA8    | 4.178                                                        | 0.190                 | 0.000                                                                               | 0.62           | 0.0             | 24.8                  | SURCHARGED |
| 27.000                                                          | Non Resi        | 4.403                                                        | -0.047                | 0.000                                                                               | 0.02           | 0.0             | 5.3                   | OK         |
| 27.001                                                          | SW Stub 02      | 4.417                                                        | 0.552                 | 0.000                                                                               | 0.12           | 0.0             | 4.3                   | SURCHARGED |
| 26.002                                                          | SW-LYM 03/1     | 4.325                                                        | 0.530                 | 0.000                                                                               | 0.75           | 0.0             | 32.1                  | SURCHARGED |
| 24.002                                                          | SW-LYM 03       | 4.377                                                        | 0.802                 | 0.000                                                                               | 1.49           | 0.0             | 49.7                  | SURCHARGED |
| 24.003                                                          | SW-LYM 04       | 4.360                                                        | 0.835                 | 0.000                                                                               | 0.82           | 0.0             | 51.0                  | SURCHARGED |
| 28.000                                                          | SW-LYM 07       | 4.417                                                        | 0.322                 | 0.000                                                                               | 0.56           | 0.0             | 23.9                  | SURCHARGED |
| 28.001                                                          | SW-LYM 08       | 4.396                                                        | 0.501                 | 0.000                                                                               | 0.88           | 0.0             | 54.0                  | SURCHARGED |
| 29.000                                                          | SW-LYM 05A      | 7.402                                                        | -0.098                | 0.000                                                                               | 0.77           | 0.0             | 107.9                 | FLOOD RISK |
| 29.001                                                          | SW-LYM 05       | 6.347                                                        | 0.507                 | 0.000                                                                               | 5.20           | 0.0             | 129.0                 | SURCHARGED |
| 24.004                                                          | SW-LYM 10       | 4.336                                                        | 0.971                 | 0.000                                                                               | 1.49           | 0.0             | 194.4                 | SURCHARGED |
| 24.005                                                          | SW-LYM11        | 3.950                                                        | 0.820                 | 0.000                                                                               | 1.33           | 0.0             | 243.3                 | SURCHARGED |
| 30.000                                                          | ExSB17_Dum Node | 4.010                                                        | 0.085                 | 0.000                                                                               | 0.81           | 0.0             | 55.5                  | SURCHARGED |
| 24.006                                                          | SW-LYM 12       | 3.742                                                        | 0.772                 | 0.000                                                                               | 1.13           | 0.0             | 280.5                 | SURCHARGED |
| 24.007                                                          | SW-FUT-03       | 3.402                                                        | 0.712                 | 0.000                                                                               | 1.43           | 0.0             | 278.1                 | SURCHARGED |
| 31.000                                                          | Stub SW18/1     | 3.709                                                        | 0.984                 | 0.000                                                                               | 1.85           | 0.0             | 61.6                  | SURCHARGED |
| 31.001                                                          | SW18            | 3.410                                                        | 0.805                 | 0.000                                                                               | 2.05           | 0.0             | 71.5                  | SURCHARGED |
| 24.008                                                          | SW19            | 3.013                                                        | 0.593                 | 0.000                                                                               | 0.38           | 0.0             | 89.0                  | SURCHARGED |
| 24.009                                                          | SW20            | 2.873                                                        | 0.588                 | 0.000                                                                               | 0.43           | 0.0             | 88.3                  | SURCHARGED |
| 32.000                                                          | Car Park        | 4.588                                                        | 0.638                 | 0.000                                                                               | 0.03           | 0.0             | 5.5                   | SURCHARGED |
| 32.001                                                          | Car Park        | 4.709                                                        | 1.159                 | 0.000                                                                               | 0.10           | 0.0             | 4.3                   | FLOOD RISK |
| 33.000                                                          | Non Resi        | 3.138                                                        | -0.012                | 0.000                                                                               | 0.02           | 0.0             | 4.2                   | OK         |
| 33.001                                                          | Stub SW9/1      | 3.143                                                        | 0.318                 | 0.000                                                                               | 0.09           | 0.0             | 3.6                   | SURCHARGED |
| 34.000                                                          | SW08            | 3.643                                                        | -0.132                | 0.000                                                                               | 0.36           | 0.0             | 33.7                  | OK         |
| 35.000                                                          | Non Resi        | 3.067                                                        | -0.083                | 0.000                                                                               | 0.02           | 0.0             | 4.5                   | OK         |
| 35.001                                                          | Stub SW9/2      | 3.066                                                        | 0.341                 | 0.000                                                                               | 0.08           | 0.0             | 3.5                   | SURCHARGED |
| 36.000                                                          | Plots 1 - 4     | 4.353                                                        | -0.107                | 0.000                                                                               | 0.18           | 0.0             | 9.5                   | OK         |
| 33.002                                                          | SW09            | 3.005                                                        | 0.380                 | 0.000                                                                               | 1.34           | 0.0             | 54.0                  | SURCHARGED |
| 37.000                                                          | SW12            | 3.389                                                        | 0.374                 | 0.000                                                                               | 0.57           | 0.0             | 19.2                  | SURCHARGED |
| 37.001                                                          | SW13            | 3.338                                                        | 0.433                 | 0.000                                                                               | 0.97           | 0.0             | 38.3                  | SURCHARGED |
| 37.002                                                          | SW14            | 3.185                                                        | 0.360                 | 0.000                                                                               | 1.24           | 0.0             | 57.2                  | SURCHARGED |
| 37.003                                                          | SW15            | 2.877                                                        | 0.407                 | 0.000                                                                               | 0.28           | 0.0             | 17.3                  | SURCHARGED |
| 38.000                                                          | Plots 16-22     | 3.504                                                        | -0.086                | 0.000                                                                               | 0.38           | 0.0             | 23.9                  | OK         |
| 33.003                                                          | SW16            | 2.871                                                        | 0.471                 | 0.000                                                                               | 0.23           | 0.0             | 30.0                  | SURCHARGED |
| 33.004                                                          | SW17            | 2.862                                                        | 0.592                 | 0.000                                                                               | 0.18           | 0.0             | 29.8                  | SURCHARGED |
| 24.010                                                          | SW21            | 2.853                                                        | 0.293                 | 0.000                                                                               | 0.25           | 0.0             | 147.1                 | SURCHARGED |
| 23.001                                                          | SW22            | 2.859                                                        | 0.329                 | 0.000                                                                               | 0.14           | 0.0             | 116.4                 | SURCHARGED |
| 39.000                                                          | Plots 47-55     | 2.896                                                        | 0.171                 | 0.000                                                                               | 0.56           | 0.0             | 12.9                  | SURCHARGED |
| 23.002                                                          | SW23            | 2.888                                                        | 0.493                 | 0.000                                                                               | 0.14           | 0.0             | 102.3                 | SURCHARGED |
| 1.016                                                           | SW24            | 2.901                                                        | 0.591                 | 0.000                                                                               | 0.29           | 0.0             | 226.0                 | SURCHARGED |
| 1.017                                                           | Permbase 06     | 2.888                                                        | 0.688                 | 0.000                                                                               | 0.43           | 0.0             | 215.8                 | SURCHARGED |
| 40.000                                                          | Plots           | 2.864                                                        | 0.269                 | 0.000                                                                               | 0.27           | 0.0             | 10.7                  | SURCHARGED |
| 40.001                                                          | Stub SW25/1     | 2.865                                                        | 0.650                 | 0.000                                                                               | 1.65           | 0.0             | 20.6                  | SURCHARGED |
| 41.000                                                          | Stub SW25/2     | 2.887                                                        | 0.622                 | 0.000                                                                               | 0.61           | 0.0             | 15.2                  | SURCHARGED |
| 1.018                                                           | SW25            | 2.880                                                        | 1.155                 | 0.000                                                                               | 0.60           | 0.0             | 207.4                 | SURCHARGED |
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|                                                                                             |                         |                                                                                     |
|---------------------------------------------------------------------------------------------|-------------------------|-------------------------------------------------------------------------------------|
| Mayer Brown Ltd                                                                             |                         | Page 1                                                                              |
| Lion House                                                                                  | Littlehampton           |  |
| Oriental Road                                                                               | Overall Surface Network |                                                                                     |
| Woking GU22 8AR                                                                             | West of Wetlands        |                                                                                     |
| Date January 2018                                                                           | Designed by S Foley     |                                                                                     |
| File WEST CATCHMENT MODEL_...                                                               | Checked by              |                                                                                     |
| XP Solutions                                                                                | Network 2013.1          |                                                                                     |
| <div>Summary of Critical Results by Maximum Level (Rank 1) for Storm</div>                  |                         |                                                                                     |
| <div>Simulation Criteria</div>                                                              |                         |                                                                                     |
| Areal Reduction Factor 1.000 Additional Flow - % of Total Flow 0.000                        |                         |                                                                                     |
| Hot Start (mins) 0 MADD Factor * 10m³/ha Storage 2.000                                      |                         |                                                                                     |
| Hot Start Level (mm) 0 Inlet Coefficient 0.800                                              |                         |                                                                                     |
| Manhole Headloss Coeff (Global) 0.500 Flow per Person per Day (l/per/day) 0.000             |                         |                                                                                     |
| Foul Sewage per hectare (l/s) 0.000                                                         |                         |                                                                                     |
| Number of Input Hydrographs 0 Number of Offline Controls 2 Number of Time/Area Diagrams 0   |                         |                                                                                     |
| Number of Online Controls 14 Number of Storage Structures 20 Number of Real Time Controls 0 |                         |                                                                                     |
| <div>Synthetic Rainfall Details</div>                                                       |                         |                                                                                     |
| Rainfall Model FEH D3 (1km) 0.407                                                           |                         |                                                                                     |
| Site Location GB 502850 104400 TQ 02850 04400 E (1km) 0.314                                 |                         |                                                                                     |
| C (1km) -0.027 F (1km) 2.329                                                                |                         |                                                                                     |
| D1 (1km) 0.393 Cv (Summer) 0.750                                                            |                         |                                                                                     |
| D2 (1km) 0.274 Cv (Winter) 0.840                                                            |                         |                                                                                     |
| Margin for Flood Risk Warning (mm) 300.0                                                    |                         |                                                                                     |
| Analysis Timestep 2.5 Second Increment (Extended)                                           |                         |                                                                                     |
| DTS Status ON                                                                               |                         |                                                                                     |
| DVD Status ON                                                                               |                         |                                                                                     |
| Inertia Status ON                                                                           |                         |                                                                                     |
| <div>Profile(s)</div>                                                                       |                         |                                                                                     |
| Duration(s) (mins) 15, 30, 60, 120, 240, 360, 480, 960, 1440 Winter                         |                         |                                                                                     |
| Return Period(s) (years) 1                                                                  |                         |                                                                                     |
| Climate Change (%) 0                                                                        |                         |                                                                                     |
| PN                                                                                          | Storm                   | Return Period                                                                       |
|                                                                                             |                         | Climate Change                                                                      |
|                                                                                             |                         | First X                                                                             |
|                                                                                             |                         | First Y                                                                             |
|                                                                                             |                         | First Z                                                                             |
|                                                                                             |                         | 0/F                                                                                 |
|                                                                                             |                         | Lvl                                                                                 |
|                                                                                             |                         | Exc.                                                                                |
| 1.000                                                                                       | 15 Winter               | 1                                                                                   |
| 1.001                                                                                       | 15 Winter               | 1                                                                                   |
| 2.000                                                                                       | 480 Winter              | 1                                                                                   |
| 2.001                                                                                       | 480 Winter              | 1                                                                                   |
| 1.002                                                                                       | 15 Winter               | 1                                                                                   |
| 3.000                                                                                       | 60 Winter               | 1                                                                                   |
| 3.001                                                                                       | 60 Winter               | 1                                                                                   |
| 1.003                                                                                       | 15 Winter               | 1                                                                                   |
| 1.004                                                                                       | 15 Winter               | 1                                                                                   |
| 4.000                                                                                       | 240 Winter              | 1                                                                                   |
| 4.001                                                                                       | 240 Winter              | 1                                                                                   |
| 1.005                                                                                       | 15 Winter               | 1                                                                                   |
| 1.006                                                                                       | 15 Winter               | 1                                                                                   |
| 5.000                                                                                       | 120 Winter              | 1                                                                                   |
| 5.001                                                                                       | 120 Winter              | 1                                                                                   |
| 5.002                                                                                       | 30 Winter               | 1                                                                                   |
| 1.007                                                                                       | 30 Winter               | 1                                                                                   |
| 6.000                                                                                       | 60 Winter               | 1                                                                                   |
| 6.001                                                                                       | 60 Winter               | 1                                                                                   |
| 1.008                                                                                       | 30 Winter               | 1                                                                                   |
| 7.000                                                                                       | 30 Winter               | 1                                                                                   |
| 7.001                                                                                       | 30 Winter               | 1                                                                                   |
| 1.009                                                                                       | 30 Winter               | 1                                                                                   |
| 8.000                                                                                       | 15 Winter               | 1                                                                                   |
| 9.000                                                                                       | 15 Winter               | 1                                                                                   |
| 8.001                                                                                       | 15 Winter               | 1                                                                                   |
| 8.002                                                                                       | 15 Winter               | 1                                                                                   |
| 10.000                                                                                      | 15 Winter               | 1                                                                                   |
| 10.001                                                                                      | 15 Winter               | 1                                                                                   |
| 11.000                                                                                      | 15 Winter               | 1                                                                                   |
| 8.003                                                                                       | 15 Winter               | 1                                                                                   |
| 1.010                                                                                       | 30 Winter               | 1                                                                                   |
| 12.000                                                                                      | 480 Winter              | 1                                                                                   |
| 12.001                                                                                      | 480 Winter              | 1                                                                                   |
| 13.000                                                                                      | 15 Winter               | 1                                                                                   |
| 1.011                                                                                       | 30 Winter               | 1                                                                                   |

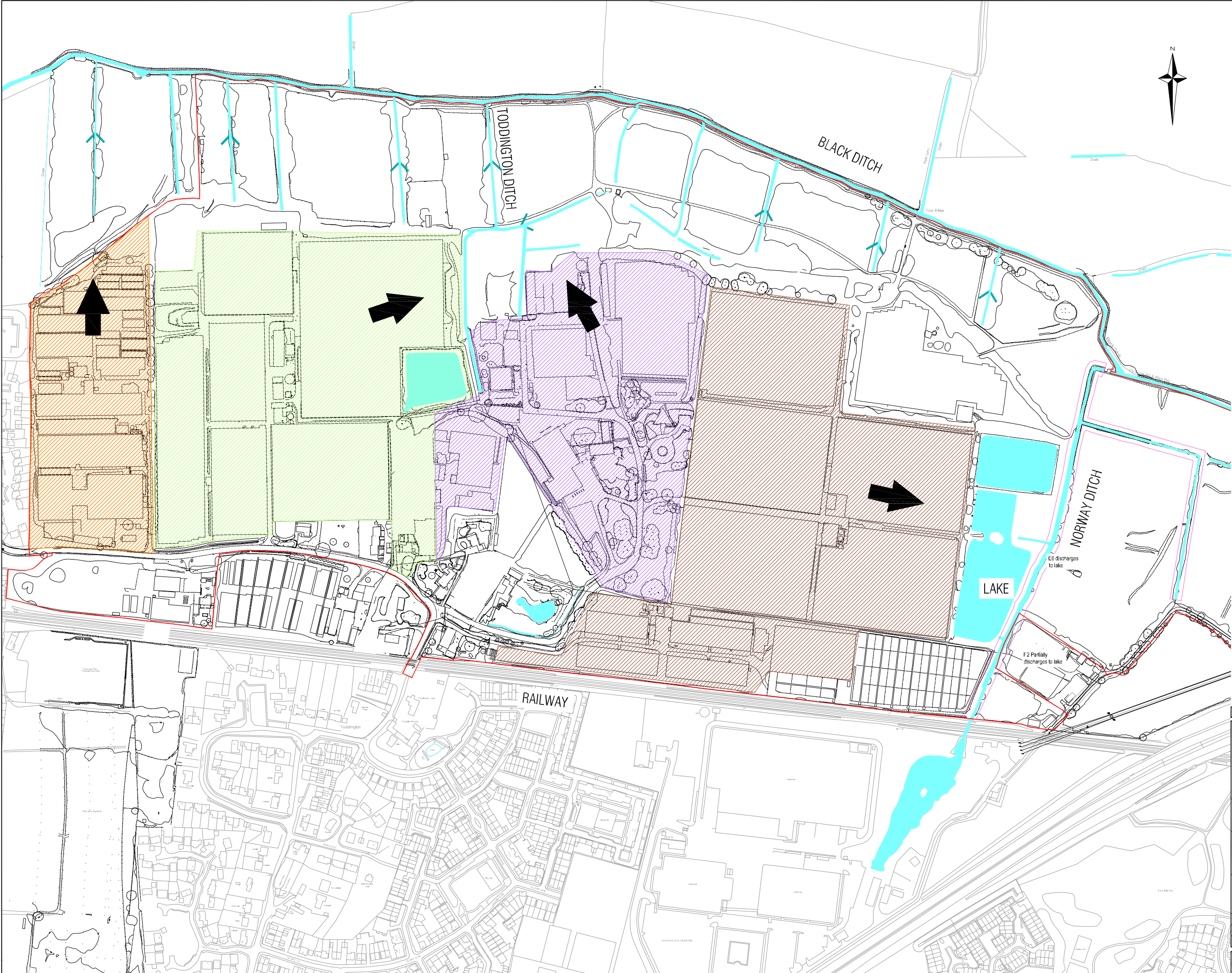
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|-----------------------------------------------------------------|------------|--------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------|---------------|------------------|-------------------|
| Mayer Brown Ltd                                                 |            |                                                              | Page 2         |                                                                                     |               |                  |                   |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                  |            | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                |  |               |                  |                   |
| Date January 2018                                               |            | Designed by S Foley                                          |                |                                                                                     |               |                  |                   |
| File WEST CATCHMENT MODEL_...                                   |            | Checked by                                                   |                |                                                                                     |               |                  |                   |
| XP Solutions                                                    |            | Network 2013.1                                               |                |                                                                                     |               |                  |                   |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |            |                                                              |                |                                                                                     |               |                  |                   |
| PN                                                              | Storm      | Return Period                                                | Climate Change | First X Surcharge                                                                   | First Y Flood | First Z Overflow | O/F Act. Lvl Exc. |
| 1.012                                                           | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 14.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 15.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 14.001                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 14.002                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 16.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 17.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 1.013                                                           | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 18.000                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 1.014                                                           | 480 Winter | 1                                                            | 0%             | 1/240 Winter                                                                        |               |                  |                   |
| 1.015                                                           | 480 Winter | 1                                                            | 0%             | 1/480 Winter                                                                        |               |                  |                   |
| 19.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 20.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 19.001                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 19.002                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 21.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 22.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 19.003                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 19.004                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 23.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 24.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 25.000                                                          | 360 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 25.001                                                          | 360 Winter | 1                                                            | 0%             | 1/15 Winter                                                                         |               |                  |                   |
| 24.001                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 26.000                                                          | 120 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 26.001                                                          | 120 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 27.000                                                          | 360 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 27.001                                                          | 360 Winter | 1                                                            | 0%             | 1/15 Winter                                                                         |               |                  |                   |
| 26.002                                                          | 120 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 24.002                                                          | 120 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 24.003                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 28.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 28.001                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 29.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 29.001                                                          | 15 Winter  | 1                                                            | 0%             | 1/15 Winter                                                                         |               |                  |                   |
| 24.004                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 24.005                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 30.000                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 24.006                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 24.007                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 31.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 31.001                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 24.008                                                          | 480 Winter | 1                                                            | 0%             | 1/480 Winter                                                                        |               |                  |                   |
| 24.009                                                          | 480 Winter | 1                                                            | 0%             | 1/240 Winter                                                                        |               |                  |                   |
| 32.000                                                          | 240 Winter | 1                                                            | 0%             | 1/30 Winter                                                                         |               |                  |                   |
| 32.001                                                          | 240 Winter | 1                                                            | 0%             | 1/15 Winter                                                                         |               |                  |                   |
| 33.000                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 33.001                                                          | 480 Winter | 1                                                            | 0%             | 1/240 Winter                                                                        |               |                  |                   |
| 34.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 35.000                                                          | 60 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 35.001                                                          | 60 Winter  | 1                                                            | 0%             | 1/15 Winter                                                                         |               |                  |                   |
| 36.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 33.002                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 37.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 37.001                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 37.002                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 37.003                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 38.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 33.003                                                          | 480 Winter | 1                                                            | 0%             | 1/480 Winter                                                                        |               |                  |                   |
| 33.004                                                          | 480 Winter | 1                                                            | 0%             | 1/240 Winter                                                                        |               |                  |                   |
| 24.010                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 23.001                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 39.000                                                          | 15 Winter  | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 23.002                                                          | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 1.016                                                           | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
| 1.017                                                           | 480 Winter | 1                                                            | 0%             |                                                                                     |               |                  |                   |
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|                                                                 |                  |                         |                   |                                                                                     |               |                  |                 |            |
|-----------------------------------------------------------------|------------------|-------------------------|-------------------|-------------------------------------------------------------------------------------|---------------|------------------|-----------------|------------|
| Mayer Brown Ltd                                                 |                  |                         |                   | Page 3                                                                              |               |                  |                 |            |
| Lion House                                                      |                  | Littlehampton           |                   |  |               |                  |                 |            |
| Oriental Road                                                   |                  | Overall Surface Network |                   |                                                                                     |               |                  |                 |            |
| Woking GU22 8AR                                                 |                  | West of Wetlands        |                   |                                                                                     |               |                  |                 |            |
| Date January 2018                                               |                  | Designed by S Foley     |                   |                                                                                     |               |                  |                 |            |
| File WEST CATCHMENT MODEL_...                                   |                  | Checked by              |                   |                                                                                     |               |                  |                 |            |
| XP Solutions                                                    |                  | Network 2013.1          |                   |                                                                                     |               |                  |                 |            |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                  |                         |                   |                                                                                     |               |                  |                 |            |
| PN                                                              | Storm            | Return Period           | Climate Change    | First X Surchage                                                                    | First Y Flood | First Z Overflow | O/F Act.        | Lvl Exc.   |
| 40.000                                                          | 15 Winter        | 1                       | 0%                |                                                                                     |               |                  |                 |            |
| 40.001                                                          | 480 Winter       | 1                       | 0%                |                                                                                     |               |                  |                 |            |
| 41.000                                                          | 480 Winter       | 1                       | 0%                |                                                                                     |               |                  |                 |            |
| 1.018                                                           | 480 Winter       | 1                       | 0%                | 1/15 Winter                                                                         |               |                  |                 |            |
| PN                                                              | US/MH Name       | Water Level (m)         | Surch'd Depth (m) | Flooded Volume (m³)                                                                 | Flow / Cap.   | O'flow (l/s)     | Pipe Flow (l/s) | Status     |
| 1.000                                                           | TL_SW01          | 5.240                   | -0.230            | 0.000                                                                               | 0.11          | 0.0              | 7.7             | OK         |
| 1.001                                                           | TL_SW02          | 5.001                   | -0.218            | 0.000                                                                               | 0.16          | 0.0              | 11.0            | OK         |
| 2.000                                                           | Parcel A2_1      | 5.335                   | -0.165            | 0.000                                                                               | 0.03          | 0.0              | 3.9             | OK         |
| 2.001                                                           | Parcel A2_2      | 5.333                   | 0.183             | 0.000                                                                               | 0.22          | 0.0              | 2.9             | SURCHARGED |
| 1.002                                                           | TL_SW03          | 4.861                   | -0.195            | 0.000                                                                               | 0.26          | 0.0              | 17.2            | OK         |
| 3.000                                                           | Parcel B6_1      | 5.094                   | -0.206            | 0.000                                                                               | 0.07          | 0.0              | 6.3             | OK         |
| 3.001                                                           | Parcel B6_2      | 5.091                   | 0.141             | 0.000                                                                               | 0.30          | 0.0              | 3.9             | SURCHARGED |
| 1.003                                                           | TL_SW04          | 4.759                   | -0.176            | 0.000                                                                               | 0.34          | 0.0              | 23.6            | OK         |
| 1.004                                                           | TL_SW05          | 4.483                   | -0.152            | 0.000                                                                               | 0.46          | 0.0              | 32.8            | OK         |
| 4.000                                                           | Parcel B1&CH_1   | 4.297                   | -0.203            | 0.000                                                                               | 0.11          | 0.0              | 6.1             | OK         |
| 4.001                                                           | Parcel B1&CH_2   | 4.283                   | -0.002            | 0.000                                                                               | 0.46          | 0.0              | 6.1             | OK         |
| 1.005                                                           | Ex. SB10         | 4.071                   | -0.139            | 0.000                                                                               | 0.55          | 0.0              | 37.8            | OK         |
| 1.006                                                           | Ex. SB9          | 3.937                   | -0.133            | 0.000                                                                               | 0.58          | 0.0              | 41.4            | OK         |
| 5.000                                                           | Block B_1        | 4.583                   | -0.217            | 0.000                                                                               | 0.05          | 0.0              | 7.9             | OK         |
| 5.001                                                           | Block B_2        | 4.579                   | 0.524             | 0.000                                                                               | 0.30          | 0.0              | 4.1             | SURCHARGED |
| 5.002                                                           | Ex. SB17         | 3.738                   | -0.212            | 0.000                                                                               | 0.13          | 0.0              | 8.4             | OK         |
| 1.007                                                           | Ex. SB8          | 3.712                   | -0.088            | 0.000                                                                               | 0.82          | 0.0              | 51.0            | OK         |
| 6.000                                                           | BovisA_1         | 4.220                   | -0.255            | 0.000                                                                               | 0.19          | 0.0              | 22.8            | OK         |
| 6.001                                                           | BovisA_2         | 4.171                   | -0.204            | 0.000                                                                               | 0.06          | 0.0              | 22.7            | OK         |
| 1.008                                                           | Ex SB7           | 3.325                   | -0.175            | 0.000                                                                               | 0.55          | 0.0              | 74.8            | OK         |
| 7.000                                                           | BovisB_1         | 3.506                   | -0.269            | 0.000                                                                               | 0.18          | 0.0              | 28.1            | OK         |
| 7.001                                                           | BovisB_2         | 3.427                   | -0.173            | 0.000                                                                               | 0.11          | 0.0              | 28.0            | OK         |
| 1.009                                                           | Dummy Node       | 3.028                   | -0.147            | 0.000                                                                               | 0.79          | 0.0              | 101.9           | OK         |
| 8.000                                                           | Plots 123 - 126  | 3.222                   | -0.083            | 0.000                                                                               | 0.41          | 0.0              | 3.6             | OK         |
| 9.000                                                           | Plots 111 - 116  | 3.201                   | -0.085            | 0.000                                                                               | 0.38          | 0.0              | 5.1             | OK         |
| 8.001                                                           | SW01, G01&G02    | 3.174                   | -0.091            | 0.000                                                                               | 0.65          | 0.0              | 15.0            | OK         |
| 8.002                                                           | Permbase 01      | 3.140                   | -0.105            | 0.000                                                                               | 0.44          | 0.0              | 14.1            | OK         |
| 10.000                                                          | Plots 117 - 122  | 3.227                   | -0.088            | 0.000                                                                               | 0.34          | 0.0              | 5.6             | OK         |
| 10.001                                                          | Stub SW02/2      | 3.109                   | 0.016             | 0.000                                                                               | 0.31          | 0.0              | 9.3             | SURCHARGED |
| 11.000                                                          | Plots 101-110    | 3.106                   | -0.119            | 0.000                                                                               | 0.36          | 0.0              | 12.6            | OK         |
| 8.003                                                           | SW02             | 3.100                   | 0.045             | 0.000                                                                               | 1.17          | 0.0              | 31.3            | SURCHARGED |
| 1.010                                                           | Ex SB6           | 2.883                   | -0.192            | 0.000                                                                               | 0.62          | 0.0              | 118.4           | OK         |
| 12.000                                                          | Ret Block A      | 3.119                   | -0.181            | 0.000                                                                               | 0.07          | 0.0              | 3.6             | OK         |
| 12.001                                                          | Ret Block A      | 3.115                   | 0.065             | 0.000                                                                               | 0.18          | 0.0              | 3.2             | SURCHARGED |
| 13.000                                                          | Plots 95-100     | 3.064                   | -0.161            | 0.000                                                                               | 0.18          | 0.0              | 8.2             | OK         |
| 1.011                                                           | SW03             | 2.712                   | -0.208            | 0.000                                                                               | 0.56          | 0.0              | 124.2           | OK         |
| 1.012                                                           | SW04             | 2.575                   | -0.165            | 0.000                                                                               | 0.29          | 0.0              | 61.5            | OK         |
| 14.000                                                          | SW-FUT-01-PlotsN | 2.902                   | -0.048            | 0.000                                                                               | 0.77          | 0.0              | 10.5            | OK         |
| 15.000                                                          | SW-FUT-01-PlotsS | 2.893                   | -0.057            | 0.000                                                                               | 0.68          | 0.0              | 8.4             | OK         |
| 14.001                                                          | SW-FUT-01        | 2.703                   | -0.157            | 0.000                                                                               | 0.44          | 0.0              | 28.0            | OK         |
| 14.002                                                          | Permbase 02      | 2.557                   | -0.163            | 0.000                                                                               | 0.42          | 0.0              | 27.5            | OK         |
| 16.000                                                          | Plots 80-86      | 2.625                   | -0.075            | 0.000                                                                               | 0.50          | 0.0              | 11.4            | OK         |
| 17.000                                                          | Plots 87-94      | 2.664                   | -0.163            | 0.000                                                                               | 0.17          | 0.0              | 13.1            | OK         |
| 1.013                                                           | SW05             | 2.530                   | -0.070            | 0.000                                                                               | 0.37          | 0.0              | 69.6            | OK         |
| 18.000                                                          | C2 Resiblock A   | 2.457                   | -0.088            | 0.000                                                                               | 0.03          | 0.0              | 2.5             | OK         |
| 1.014                                                           | SW06             | 2.454                   | 0.014             | 0.000                                                                               | 0.42          | 0.0              | 71.3            | SURCHARGED |
| 1.015                                                           | Permbase 03      | 2.352                   | 0.002             | 0.000                                                                               | 0.50          | 0.0              | 70.7            | SURCHARGED |
| 19.000                                                          | SW-FUT-02-PlotN  | 2.671                   | -0.079            | 0.000                                                                               | 0.45          | 0.0              | 5.3             | OK         |
| 20.000                                                          | SW-FUT-02-Plots  | 2.681                   | -0.069            | 0.000                                                                               | 0.56          | 0.0              | 6.3             | OK         |
| 19.001                                                          | SW-FUT-02        | 2.433                   | -0.187            | 0.000                                                                               | 0.28          | 0.0              | 18.5            | OK         |
| 19.002                                                          | Permbase 04      | 2.319                   | -0.156            | 0.000                                                                               | 0.05          | 0.0              | 3.1             | OK         |
| 21.000                                                          | Plots 60-73      | 2.694                   | -0.056            | 0.000                                                                               | 0.72          | 0.0              | 7.8             | OK         |
| 22.000                                                          | Plots 74-78      | 2.681                   | -0.069            | 0.000                                                                               | 0.57          | 0.0              | 9.1             | OK         |
| 19.003                                                          | SW07             | 2.316                   | -0.084            | 0.000                                                                               | 0.10          | 0.0              | 5.5             | OK         |
| 19.004                                                          | Permbase 05      | 2.313                   | -0.042            | 0.000                                                                               | 0.17          | 0.0              | 9.9             | OK         |
| 23.000                                                          | Plots 39-46      | 3.278                   | -0.112            | 0.000                                                                               | 0.14          | 0.0              | 8.5             | OK         |
| 24.000                                                          | SW-LYM 01        | 3.814                   | -0.151            | 0.000                                                                               | 0.23          | 0.0              | 7.0             | OK         |
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|                                                                 |                 |                                                              |                       |                                                                                     |                |                 |                       |            |
|-----------------------------------------------------------------|-----------------|--------------------------------------------------------------|-----------------------|-------------------------------------------------------------------------------------|----------------|-----------------|-----------------------|------------|
| Mayer Brown Ltd                                                 |                 |                                                              |                       | Page 4                                                                              |                |                 |                       |            |
| Lion House<br>Oriental Road<br>Woking GU22 8AR                  |                 | Littlehampton<br>Overall Surface Network<br>West of Wetlands |                       |  |                |                 |                       |            |
| Date January 2018                                               |                 | Designed by S Foley                                          |                       |                                                                                     |                |                 |                       |            |
| File WEST CATCHMENT MODEL_...                                   |                 | Checked by                                                   |                       |                                                                                     |                |                 |                       |            |
| XP Solutions                                                    |                 | Network 2013.1                                               |                       |                                                                                     |                |                 |                       |            |
| Summary of Critical Results by Maximum Level (Rank 1) for Storm |                 |                                                              |                       |                                                                                     |                |                 |                       |            |
| PN                                                              | US/MH<br>Name   | Water<br>Level<br>(m)                                        | Surch'ed<br>Depth (m) | Flooded<br>Volume<br>(m³)                                                           | Flow /<br>Cap. | O'flow<br>(l/s) | Pipe<br>Flow<br>(l/s) | Status     |
| 25.000                                                          | Non resi        | 4.121                                                        | -0.329                | 0.000                                                                               | 0.02           | 0.0             | 4.7                   | OK         |
| 25.001                                                          | Non resi        | 4.120                                                        | 0.175                 | 0.000                                                                               | 0.10           | 0.0             | 3.5                   | SURCHARGED |
| 24.001                                                          | SW-LYM 02       | 3.734                                                        | -0.131                | 0.000                                                                               | 0.35           | 0.0             | 12.1                  | OK         |
| 26.000                                                          | Parcel A1       | 4.068                                                        | -0.382                | 0.000                                                                               | 0.06           | 0.0             | 12.3                  | OK         |
| 26.001                                                          | As-built SA8    | 3.938                                                        | -0.050                | 0.000                                                                               | 0.31           | 0.0             | 12.2                  | OK         |
| 27.000                                                          | Non Resi        | 4.117                                                        | -0.333                | 0.000                                                                               | 0.02           | 0.0             | 5.0                   | OK         |
| 27.001                                                          | SW Stub 02      | 4.116                                                        | 0.251                 | 0.000                                                                               | 0.09           | 0.0             | 3.5                   | SURCHARGED |
| 26.002                                                          | SW-LYM 03/1     | 3.664                                                        | -0.131                | 0.000                                                                               | 0.36           | 0.0             | 15.6                  | OK         |
| 24.002                                                          | SW-LYM 03       | 3.484                                                        | -0.091                | 0.000                                                                               | 0.66           | 0.0             | 22.0                  | OK         |
| 24.003                                                          | SW-LYM 04       | 3.351                                                        | -0.174                | 0.000                                                                               | 0.36           | 0.0             | 22.7                  | OK         |
| 28.000                                                          | SW-LYM 07       | 3.932                                                        | -0.163                | 0.000                                                                               | 0.17           | 0.0             | 7.3                   | OK         |
| 28.001                                                          | SW-LYM 08       | 3.748                                                        | -0.147                | 0.000                                                                               | 0.26           | 0.0             | 16.2                  | OK         |
| 29.000                                                          | SW-LYM 05A      | 7.299                                                        | -0.201                | 0.000                                                                               | 0.24           | 0.0             | 33.0                  | FLOOD RISK |
| 29.001                                                          | SW-LYM 05       | 5.874                                                        | 0.034                 | 0.000                                                                               | 1.57           | 0.0             | 39.0                  | SURCHARGED |
| 24.004                                                          | SW-LYM 10       | 3.197                                                        | -0.168                | 0.000                                                                               | 0.58           | 0.0             | 75.0                  | OK         |
| 24.005                                                          | SW-LYM11        | 2.908                                                        | -0.222                | 0.000                                                                               | 0.50           | 0.0             | 92.1                  | OK         |
| 30.000                                                          | ExSB17_Dum Node | 3.700                                                        | -0.225                | 0.000                                                                               | 0.00           | 0.0             | 0.0                   | OK         |
| 24.006                                                          | SW-LYM 12       | 2.713                                                        | -0.257                | 0.000                                                                               | 0.38           | 0.0             | 94.0                  | OK         |
| 24.007                                                          | SW-FUT-03       | 2.464                                                        | -0.226                | 0.000                                                                               | 0.49           | 0.0             | 94.5                  | OK         |
| 31.000                                                          | Stub SW18/1     | 2.639                                                        | -0.086                | 0.000                                                                               | 0.68           | 0.0             | 22.6                  | OK         |
| 31.001                                                          | SW18            | 2.529                                                        | -0.076                | 0.000                                                                               | 0.77           | 0.0             | 26.8                  | OK         |
| 24.008                                                          | SW19            | 2.431                                                        | 0.011                 | 0.000                                                                               | 0.16           | 0.0             | 37.4                  | SURCHARGED |
| 24.009                                                          | SW20            | 2.424                                                        | 0.139                 | 0.000                                                                               | 0.18           | 0.0             | 37.4                  | SURCHARGED |
| 32.000                                                          | Car Park        | 4.508                                                        | 0.558                 | 0.000                                                                               | 0.03           | 0.0             | 5.4                   | SURCHARGED |
| 32.001                                                          | Car Park        | 4.548                                                        | 0.998                 | 0.000                                                                               | 0.10           | 0.0             | 4.2                   | SURCHARGED |
| 33.000                                                          | Non Resi        | 2.834                                                        | -0.316                | 0.000                                                                               | 0.03           | 0.0             | 4.5                   | OK         |
| 33.001                                                          | Stub SW9/1      | 2.835                                                        | 0.010                 | 0.000                                                                               | 0.08           | 0.0             | 3.3                   | SURCHARGED |
| 34.000                                                          | SW08            | 3.599                                                        | -0.176                | 0.000                                                                               | 0.11           | 0.0             | 10.3                  | OK         |
| 35.000                                                          | Non Resi        | 2.784                                                        | -0.366                | 0.000                                                                               | 0.02           | 0.0             | 5.8                   | OK         |
| 35.001                                                          | Stub SW9/2      | 2.783                                                        | 0.058                 | 0.000                                                                               | 0.08           | 0.0             | 3.4                   | SURCHARGED |
| 36.000                                                          | Plots 1 - 4     | 4.333                                                        | -0.127                | 0.000                                                                               | 0.05           | 0.0             | 2.9                   | OK         |
| 33.002                                                          | SW09            | 2.519                                                        | -0.106                | 0.000                                                                               | 0.54           | 0.0             | 21.6                  | OK         |
| 37.000                                                          | SW12            | 2.863                                                        | -0.152                | 0.000                                                                               | 0.22           | 0.0             | 7.5                   | OK         |
| 37.001                                                          | SW13            | 2.777                                                        | -0.128                | 0.000                                                                               | 0.38           | 0.0             | 14.9                  | OK         |
| 37.002                                                          | SW14            | 2.710                                                        | -0.115                | 0.000                                                                               | 0.47           | 0.0             | 21.5                  | OK         |
| 37.003                                                          | SW15            | 2.427                                                        | -0.043                | 0.000                                                                               | 0.08           | 0.0             | 4.8                   | OK         |
| 38.000                                                          | Plots 16-22     | 3.474                                                        | -0.116                | 0.000                                                                               | 0.12           | 0.0             | 7.3                   | OK         |
| 33.003                                                          | SW16            | 2.426                                                        | 0.026                 | 0.000                                                                               | 0.12           | 0.0             | 15.3                  | SURCHARGED |
| 33.004                                                          | SW17            | 2.422                                                        | 0.152                 | 0.000                                                                               | 0.09           | 0.0             | 15.1                  | SURCHARGED |
| 24.010                                                          | SW21            | 2.419                                                        | -0.141                | 0.000                                                                               | 0.16           | 0.0             | 97.5                  | OK         |
| 23.001                                                          | SW22            | 2.407                                                        | -0.123                | 0.000                                                                               | 0.12           | 0.0             | 97.5                  | OK         |
| 39.000                                                          | Plots 47-55     | 2.596                                                        | -0.129                | 0.000                                                                               | 0.37           | 0.0             | 8.5                   | OK         |
| 23.002                                                          | SW23            | 2.367                                                        | -0.028                | 0.000                                                                               | 0.15           | 0.0             | 112.4                 | OK         |
| 1.016                                                           | SW24            | 2.310                                                        | 0.000                 | 0.000                                                                               | 0.22           | 0.0             | 171.6                 | OK         |
| 1.017                                                           | Permbase 06     | 2.200                                                        | 0.000                 | 0.000                                                                               | 0.34           | 0.0             | 169.0                 | OK         |
| 40.000                                                          | Plots           | 2.428                                                        | -0.167                | 0.000                                                                               | 0.15           | 0.0             | 5.9                   | OK         |
| 40.001                                                          | Stub SW25/1     | 2.174                                                        | -0.041                | 0.000                                                                               | 0.16           | 0.0             | 2.0                   | OK         |
| 41.000                                                          | Stub SW25/2     | 2.174                                                        | -0.091                | 0.000                                                                               | 0.06           | 0.0             | 1.6                   | OK         |
| 1.018                                                           | SW25            | 2.171                                                        | 0.446                 | 0.000                                                                               | 0.49           | 0.0             | 167.5                 | SURCHARGED |
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## **APPENDIX K: Condition 10, Pre-Demolition Drainage**



NOTES

1. Do not scale.

KEY



Western Area - Former Toddington Nursery. Outfalls to northern floodplain area via pipe connection and overland flow mechanisms.



Central West - former Holland Nursery, discharge to Toddington Ditch.



Central East Area. Outfall to Toddington Ditch.



Eastern Area - Former Zuider Zee Nursery. Discharge to existing lake and Norway Ditch.

| Rev.                                                                                                                                                                                                                                                                     | Description | Date                  | Chkd |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-----------------------|------|
|  <b>Glanville</b><br>Cornerstone House<br>62 Foxhall Road, Didcot<br>Oxon, OX11 7AD<br>Tel: (01235) 515650 Fax: (01235) 817799<br>postbox@glanvillegroup.com www.glanvillegroup.com |             |                       |      |
| Client :<br>Persimmon Homes                                                                                                                                                                                                                                              |             |                       |      |
| Project :<br>North Littlehampton                                                                                                                                                                                                                                         |             |                       |      |
| Title :<br>Illustrative Existing Surface Water Regime                                                                                                                                                                                                                    |             |                       |      |
| Project Engineer : S. Hudson                                                                                                                                                                                                                                             |             | Scale : 1:2000        |      |
| Project Director : K. Rayner                                                                                                                                                                                                                                             |             | Date : September 2014 |      |
| Status : Preliminary                                                                                                                                                                                                                                                     |             |                       |      |
| Drawing No. 8140927/107                                                                                                                                                                                                                                                  |             | Rev                   |      |

**Appendix F**  
**Drainage Survey Record Drawings**

TODDINGTON LANE, LITTLEHAMPTON, WEST SUSSEX  
DRAINAGE SURVEY  
Date: 18th February 2014  
Job No: 20644

Drainage  
All drainage was traced with pipe sizes and inverts recorded. Wherever possible the chamber data has been recorded and positioned on the drawing. All connections from gullies, external rainwater pipes and external soil stacks have been proven wherever possible using manholes and cover logs. Drains between manholes are assumed to be straight. All sub surface drainage positions should be cross checked in critical areas by RFI or GPR survey or hand dug trial holes.



**Notes:**

1. DRAINAGE INFORMATION ADDED TO TOPOGRAPHICAL SURVEY PRODUCED BY MAYER BROWN LTD. JOB NO. A9111111.2. DATE AUGUST 2014. NO SITE VERIFICATION CARRIED OUT BY MK SURVEYS UNLESS SPECIFIC TO DRAINAGE.
2. DRAINAGE INFORMATION HAS BEEN DETERMINED WITHOUT MAN ENTRY INTO CHAMBERS AND WHILE EVERY EFFORT HAS BEEN MADE TO CORRECTLY IDENTIFY THIS INFORMATION, IT SHOULD ALWAYS BE CHECKED IN AREAS THAT ARE CRITICAL TO THE FUTURE PROJECT.
3. ALL SEWERS ARE PRESUMED TO BE STRAIGHT BETWEEN CHAMBERS, WITH ROUTES CONNECTIVITY OBTAINED USING ACUSTIC METHODS. ONLY THESE ARE TO BE CONSIDERED ASSUMED AND SHOULD BE INVESTIGATED FURTHER IN CRITICAL AREAS.

**ABBREVIATIONS**

|      |                          |      |                         |
|------|--------------------------|------|-------------------------|
| ACPI | ASSUMED CONNECTION POINT | UH   | LAIRP HOLE              |
| AD   | ABOVE GROUND             | UM   | MANHOLE                 |
| AR   | ASSUMED ROUTE            | UP   | NO PIPES VISIBLE        |
| BD   | BACK DROP                | UL   | OUTLET                  |
| BR   | BRICK                    | OU   | OUTFALL                 |
| BL   | BASE LEVEL               | PP   | POLYPROPYLENE           |
| CI   | CAST IRON                | PO   | PIPE ON WALL            |
| CL   | COVER LEVEL              | PT   | AT-TRAP                 |
| CO   | CONCRETE                 | PI   | PIPE TO GROUND          |
| CU   | CULVERT                  | PVC  | POLYVINYL CHLORIDE      |
| CP   | CATCHPIT                 | PVCU | ULTRA HIGH POLYETHYLENE |
| CWS  | COMBINED WATER SEWER     | RE   | RODDING EYE             |
| DCH  | DRAINAGE CHANNEL         | RMP  | RIGID MAIN              |
| DI   | DUCTILE IRON             | RWP  | RAIN WATER PIPE         |
| FD   | FILTER DRAIN             | SOP  | SOFT                    |
| FWS  | FOUL WATER SEWER         | SVP  | SOIL VENT PIPE          |
| GY   | GULLY                    | SWS  | SURFACE WATER SEWER     |
| IL   | INSPECTION COVER         | UTL  | UNABLE TO LIFT          |
| IR   | INVERT LEVEL             | UTS  | UNABLE TO SURVEY        |
| INT  | INTERCEPTOR              | VC   | VENTED CLAY             |
| IT   | IRREG                    | VP   | VENT PIPE               |
| KE   | KERR OUTLET              | VL   | WATER LEVEL             |

**LEGEND**

CAUTIONARY NOTES

1. Pipe sizes are shown from visual inspection or taken from record information. Pipe sizes are recorded in abbreviations and depths in meters.
2. Completed drainage surveys have been proven using the following (acoustic methods). It is advised that a CCTV survey is carried out to confirm connections. Please ring for further details if a CCTV survey is required.

**mk surveys**

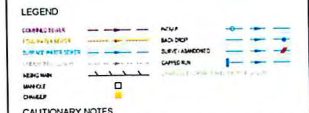
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TODDINGTON LANE, LITTLEHAMPTON, WEST SUSSEX  
DRAINAGE SURVEY  
Date: 18th February 2014  
Job No: 20644

Drainage  
All drainage was filled with pipe sizes and invert levels recorded. Wherever possible the chamber manholes have been located and positioned on the drawing. All connections from gullies, external rainwater pipes and external soil stacks have been shown wherever possible and marked with invert levels. Drains / sewers between manholes are assumed to be straight. All sub surface drainage positions should be cross checked in critical areas by RD or GPR survey or hand digging holes.

- Notes:
1. DRAINAGE INFORMATION ADDED TO TOPOGRAPHICAL SURVEY PRODUCED BY MAYER BROWN LTD. JOB NO. APH/17/19 DATE AUGUST 2014. NO SITE VERIFICATION CARRIED OUT BY MK SURVEYS UNLESS SPECIFIC TO DRAINAGE.
  2. DRAINAGE INFORMATION HAS BEEN DETERMINED WITHOUT MAN ENTRY INTO CHAMBERS AND WHILE EVERY EFFORT HAS BEEN MADE TO CORRECTLY IDENTIFY THIS INFORMATION, IT SHOULD ALWAYS BE CHECKED IN AREAS THAT ARE CRITICAL TO THE FUTURE PROPOSAL.
  3. ALL SEWERS ARE PRESUMED TO BE STRAIGHT BETWEEN CHAMBERS, WITH ROUTES CONNECTIVITY OBTAINED USING ACOUSTIC METHODS ONLY. THESE ARE TO BE CONSIDERED ASSUMED AND SHOULD BE INVESTIGATED FURTHER IN CRITICAL AREAS.

| ABBREVIATIONS |                          | DRAINAGE KEY |                     |
|---------------|--------------------------|--------------|---------------------|
| ACPI          | ASSUMED CONNECTION POINT | UH           | LAMP HOLE           |
| AG            | ABOVE GROUND             | NP           | NO PIPES VISIBLE    |
| AR            | ASSUMED ROUTE            | OP           | OUTLET              |
| BD            | BACK DROP                | OU           | OUTLET              |
| BL            | BRICK                    | PP           | POLYPROPYLENE       |
| BL            | BASE LEVEL               | PPW          | PIPE ON WALL        |
| CL            | CAST IRON                | PT           | PIPE TO GROUND      |
| CL            | COVER LEVEL              | PTG          | PIPE TO GROUND      |
| CL            | CONCRETE                 | PVC          | POLYVINYL CHLORIDE  |
| CU            | CULVERT                  | PVCU         | ULTRA RIB (PVC)     |
| CP            | CATCHPIT                 | R            | ROOFING PIPE        |
| CWG           | COMBINED WATER SEWER     | RAN          | RIBBON MAN          |
| CH            | DRAINAGE CHANNEL         | RWP          | RIBBON WATER PIPE   |
| DI            | DUCTILE IRON             | SOP          | SOFFIT              |
| FD            | FLY TIE DRAIN            | SPP          | SOLID VENT PIPE     |
| FWS           | FULL WATER SEWER         | SWS          | SURFACE WATER SEWER |
| GT            | GULLY                    | UL           | UNABLE TO LIFT      |
| IC            | INVERT COVER             | ULS          | UNABLE TO SURVEY    |
| IL            | INVERT LEVEL             | VC           | VITRIFIED CLAY      |
| IR            | INTERCEPTOR              | VP           | VENT PIPE           |
| IT            | INLET                    | VE           | VENTER              |
| KD            | KEYS OUTLET              |              |                     |



Scale: 1:500  
Sheet Size: A0  
Sheet Number: 2  
Date: February 2015

Project Number: 20644  
Rev: -  
Surveyed By: CP  
Approved By: NS

mk surveys  
16 REVENGE ROAD  
LITTLEHAMPTON INDUSTRIAL ESTATE  
CHICHESTER  
WILT  
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EMAIL: info@insurance.co.uk

PERSIMMON

Toddington Lane  
Littlehampton  
West Sussex

Drainage Survey

- Notes :**
1. DRAINAGE INFORMATION ADDED TO TOPOGRAPHICAL SURVEY PRODUCED BY MAYER BROWN LTD. JOB NO. APLHUTLE 2699. DATE AUGUST 2014. NO SITE INVESTIGATION CARRIED OUT BY MK SURVEYS UNLESS SPECIFIC TO DRAINAGE.
  2. DRAINAGE INFORMATION HAS BEEN DETERMINED WITHOUT MAN ENTRY INTO CHAMBERS AND WHISTLE EVERY EFFORT HAS BEEN MADE TO CORRECTLY IDENTIFY THIS INFORMATION. IT SHOULD ALSO BE CHECKED IN AREAS THAT ARE CRITICAL TO THE FUTURE PROPOSAL.
  3. ALL SEWERS ARE PREMISED TO BE STRAIGHT BETWEEN CHAMBERS, WITH ROUTES CONNECTIVITY OBTAINED USING ACOUSTIC METHODS ONLY. THESE ARE TO BE CONSIDERED ASSUMED AND SHOULD BE INVESTIGATED FURTHER IN CRITICAL AREAS.

[illegible][illegible]

| Revised | Description | Surv. by | Appr. by | Date |
|---------|-------------|----------|----------|------|
| 0m      | 5           | 10       | 15       | 20   |
| 25      | 30          | 35       | 40       | 45   |
| 50      | 55          |          |          |      |



Toddington Lane  
Littlehampton  
West Sussex

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|                |            |              |             |
|----------------|------------|--------------|-------------|
| Scale          | Sheet Size | Sheet Number | Date        |
| 1:500          | A0         | 3            | February 21 |
| Project Number | Rev.       | Surveyed By  | Approved By |
| 20644          | -          | CP           | NS          |
|                |            |              |             |