Place :

*UKDN Waterflow (LG) Ltd*
*Slough*
*Street : Berkshire*
*Tel: 03333 449099*
*Fax:*
*Email: ts.sales@ukdnwaterflow.co.uk*

# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **06/07/2016** | **45059** | **no rain or snow** | **SP12** | **18** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR1** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH7** |
| Inspection Direction | **MH7 (U/S) BR1** | Pipe Length | 1.00 m | D/S Depth : | **0.52** |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **150 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **2.41 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| **Depth: 0.52** | | | | |
| MH7 | 0.00 | MH | Start node type, manhole, reference number : MH7 | (Constr) 0 |
| BR1 | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | LL | Line deviates left Remarks: SHARP | (Serv) 0 |
| | 1.20 | DER | Settled deposits, coarse, 10% cross-sectional area loss | (Serv) 3 |
| | 1.31 | DER | Settled deposits, coarse, 10% cross-sectional area loss | (Serv) 3 |
| | 1.97 | LU | Line deviates up Remarks: SHARP | (Serv) 0 |
| | 1.97 | LR | Line deviates right Remarks: SLIGHT | (Serv) 0 |
| | 2.41 | OCF | Finish node type, other special chamber reference number: BR1 Remarks: BASE OF STACK | (Constr) 0 |

1.2 m // 00:00:43

1.31 m // 00:01:56

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **2** | **2** | **1.66** | **4** | **3** |



Place :

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*Berkshire*
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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **06/07/2016** | **18** | **X** |


Photo: 19_19_120_A.JPG
1.2m, Settled deposits, coarse, 10% cross-sectional area loss


Photo: 19_19_121_A.JPG
1.31m, Settled deposits, coarse, 10% cross-sectional area loss

Place :

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **06/07/2016** | **45059** | **no rain or snow** | **SP12** | **19** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR2** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH7** |
| Inspection Direction | **MH7 (U/S) BR2** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **150 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **9.12 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH7 | 0.00 | MH | Start node type, manhole, reference number : MH7 | (Constr) 0 |
| | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| BR2 | 0.00 | LL | Line deviates left Remarks: SHARP | (Serv) 0 |
| | 7.03 | LR | Line deviates right Remarks: SLIGHT | (Serv) 0 |
| | 7.03 | CC | Crack, circumferential, from 7 to 11 o'clock | (Struct) 2 |
| | 7.69 | CN | Connection other than junction, at 2 o'clock, diameter 100mm | (Constr) 0 |
| | 8.13 | B | Broken pipe, from 10 to 12 o'clock | (Struct) 4 |
| | 9.12 | REM | General remark Remarks: REAR OF TRAP | (Misc) 0 |
| | 9.12 | OCF | Finish node type, other special chamber reference number: BR2 Remarks: REAR OF TRAP REACHED | (Constr) 0 |

7.03 m // 00:01:19

8.13 m // 00:02:38

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **2** | **80** | **9.87** | **90** | **4** | **0** | **0** | **0** | **0** | **1** |



Place :

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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **06/07/2016** | **19** | **X** |


Photo: 20_20_129_A.JPG
7.03m, Crack, circumferential, from 7 to 11 o'clock


Photo: 20_20_131_A.JPG
8.13m, Broken pipe, from 10 to 12 o'clock

Place :

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **06/07/2016** | **45059** | **no rain or snow** | **SP12** | **20** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR3** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH7** |
| Inspection Direction | **MH7 (U/S) BR3** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **0.10 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH7 | | | | |
| | 0.00 | MH | Start node type, manhole, reference number : MH7 | (Constr) 0 |
| | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.10 | DEEJ | Attached deposits, encrustation at joint, from 3 to 6 o'clock, 20% cross-sectional area loss | (Serv) 4 |
| | 0.10 | SA | Survey abandoned Remarks: DUE TO DEE | (Misc) 0 |

0.1 m // 00:00:56

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **1** | **5** | **50** | **5** | **5** |



Place :

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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **06/07/2016** | **20** | **X** |


Photo: 21_21_136_A.JPG
0.1m, Attached deposits, encrustation at joint, from 3 to 6 o'clock, 20% cross-sectional area loss

*UKDN Waterflow (LG) Ltd*
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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **06/07/2016** | **45059** | **no rain or snow** | **SP12** | **21** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR4** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH7** |
| Inspection Direction | **MH7 (U/S) BR4** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **150 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **1.42 m** | Lining : | |

Comment :

| 1:500 | Position | | Code | Observation | Grade |
|---|---|---|---|---|---|
| MH7 | | | | | |
| | 0.00 | | MH | Start node type, manhole, reference number : MH7 | (Constr) 0 |
| | 0.00 | | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.10 | **S01** | DER | Settled deposits, coarse, 20% cross-sectional area loss, Start | (Serv) 4 |
| | 1.42 | | DER | Settled deposits, coarse, 40% cross-sectional area loss | (Serv) 4 |
| | 1.42 | **F01** | DER | Settled deposits, coarse, 20% cross-sectional area loss, End | (Serv) 4 |
| | 1.42 | | SA | Survey abandoned Remarks: DUE TO DEBRIS | (Misc) 0 |

1.42 m // 00:01:14

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **2** | **10** | **8.1** | **11.5** | **5** |





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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **06/07/2016** | **21** | **X** |


Photo: 22_22_141_A.JPG
1.42m, Settled deposits, coarse, 40% cross-sectional area loss

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **06/07/2016** | **45059** | **no rain or snow** | **SP12** | **22** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR5** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH7** |
| Inspection Direction | **MH7 (U/S) BR5** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **0.21 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH7 | | | | |
| | 0.00 | MH | Start node type, manhole, reference number : MH7 | (Constr) 0 |
| | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | LR | Line deviates right Remarks: SHARP | (Serv) 0 |
| | 0.21 | DEEJ | Attached deposits, encrustation at joint, from 4 to 7 o'clock, 20% cross-sectional area loss | (Serv) 4 |
| | 0.21 | SA | Survey abandoned Remarks: DUE TO DEE | (Misc) 0 |

0.21 m // 00:01:46

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **1** | **5** | **23.81** | **5** | **5** |





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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **06/07/2016** | **22** | **X** |


Photo: 23_23_147_A.JPG
0.21m, Attached deposits, encrustation at joint, from 4 to 7 o'clock, 20% cross-sectional area loss

Place :

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **06/07/2016** | **45059** | **no rain or snow** | **SP12** | **23** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **MAIN RUN** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH7** |
| Inspection Direction | **MH7 (U/S) MAIN RUN** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **150 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **0.00 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH7 | 0.00 | MH | Start node type, manhole, reference number : MH7 | (Constr) 0 |
| | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | DER | Settled deposits, coarse, 60% cross-sectional area loss | (Serv) 4 |
| | 0.00 | SA | Survey abandoned Remarks: DUE TO DEBRIS | (Misc) 0 |

0 m // 00:00:18

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **1** | **8** | **0** | **8** | **4** |



Place :

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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **06/07/2016** | **23** | **X** |


Photo: 24_24_151_A.JPG
0m, Settled deposits, coarse, 60% cross-sectional area loss

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **24** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR1** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH11** |
| Inspection Direction | **MH11 (U/S) BR1** | Pipe Length | 1.00 m | D/S Depth : | **1** |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **1.42 m** | Lining : | |

Comment :

| 1:500 Depth: 1 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH11 | 0.00 | MH | Start node type, manhole, reference number : MH11 | (Constr) 0 |
| BR1 | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | CC | Crack, circumferential, from 10 to 2 o'clock | (Struct) 2 |
| | 0.98 | LL | Line deviates left Remarks: SHARP | (Serv) 0 |
| | 1.42 | REM | General remark Remarks: REAR OF TRAP | (Misc) 0 |
| | 1.42 | OCF | Finish node type, other special chamber reference number: BR1 Remarks: REAR OF GULLY TRAP REACHED | (Constr) 0 |

0 m // 00:00:23

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **1** | **10** | **7.04** | **10** | **2** | **0** | **0** | **0** | **0** | **1** |





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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **24** | **X** |


Photo: 25_25_155_A.JPG
0m, Crack, circumferential, from 10 to 2 o'clock

Place :

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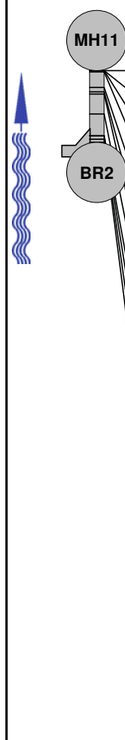
# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **25** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR2** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH11** |
| Inspection Direction | **MH11 (U/S) BR2** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **5.93 m** | Lining : | |

Comment :




| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| | 0.00 | MH | Start node type, manhole, reference number : MH11 | (Constr) 0 |
| | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | CC | Crack, circumferential, from 7 to 4 o'clock | (Struct) 2 |
| | 0.10 | CC | Crack, circumferential, from 7 to 12 o'clock | (Struct) 2 |
| | 1.42 | CC | Crack, circumferential, from 7 to 5 o'clock | (Struct) 2 |
| | 1.75 | CCJ | Crack, circumferential at joint, from 7 to 3 o'clock | (Struct) 2 |
| | 1.97 | LL | Line deviates left Remarks: SHARP | (Serv) 0 |
| | 3.62 | LR | Line deviates right Remarks: SLIGHT | (Serv) 0 |
| | 5.38 | MC | Material changes, polyvinyl chloride | (Misc) 0 |
| | 5.38 | JN | Junction, at 2 o'clock, diameter 100mm | (Constr) 0 |
| | 5.71 | LU | Line deviates up Remarks: SHARP | (Serv) 0 |
| | 5.93 | OCF | Finish node type, other special chamber reference number: BR2 Remarks: REAR OF SHOWER GULLY | (Constr) 0 |

0 m // 00:00:35

0.1 m // 00:01:16

1.42 m // 00:01:51

1.75 m // 00:02:43

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **4** | **10** | **6.75** | **40** | **2** | **0** | **0** | **0** | **0** | **1** |



Place :

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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **25** | **X** |


Photo: 26_26_161_A.JPG
0m, Crack, circumferential, from 7 to 4 o'clock


Photo: 26_26_162_A.JPG
0.1m, Crack, circumferential, from 7 to 12 o'clock

Place :

*UKDN Waterflow (LG) Ltd*
*Slough*
*Berkshire*
*Tel: 03333 449099*
*Fax:*
*Email: ts.sales@ukdnwaterflow.co.uk*

# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **25** | **X** |


Photo: 26_26_163_A.JPG
1.42m, Crack, circumferential, from 7 to 5 o'clock


Photo: 26_26_164_A.JPG
1.75m, Crack, circumferential at joint, from 7 to 3 o'clock



Place :

*UKDN Waterflow (LG) Ltd*
*Slough*
*Street : Berkshire*
*Tel: 03333 449099*
*Fax:*
*Email: ts.sales@ukdnwaterflow.co.uk*

# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **26** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **MAIN RUN** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH11** |
| Inspection Direction | **MH11 (U/S) MAIN RUN** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **2.30 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH11 | | | | |
| | 0.00 | MH | Start node type, manhole, reference number : MH11 | (Constr) 0 |
| MAIN RUN | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | LL | Line deviates left Remarks: SHARP | (Serv) 0 |
| | 0.43 | DER | Settled deposits, coarse, 10% cross-sectional area loss | (Serv) 3 |
| | 1.31 | LU | Line deviates up Remarks: SLIGHT | (Serv) 0 |
| | 1.75 | LR | Line deviates right Remarks: SHARP | (Serv) 0 |
| | 1.97 | LU | Line deviates up Remarks: SHARP | (Serv) 0 |
| | 2.30 | OCF | Finish node type, other special chamber reference number: MAIN RUN Remarks: BASE OF STACK | (Constr) 0 |


0.43 m // 00:00:31

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **1** | **2** | **0.87** | **2** | **3** |

Place :

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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **26** | **X** |


Photo: 27_27_178_A.JPG
0.43m, Settled deposits, coarse, 10% cross-sectional area loss



Place :

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **27** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **MH11** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH13** |
| Inspection Direction | **MH11 (D/S) MH13** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **3.18 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH11 | 0.00 | MH | Start node type, manhole, reference number : MH11 | (Constr) 0 |
| MH13 | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.98 | DER | Settled deposits, coarse, 10% cross-sectional area loss | (Serv) 3 |
| | 1.75 | WL | Water level, 10% of the vertical dimension | (Serv) 0 |
| | 1.75 | REM | General remark Remarks: TOILET WASTE | (Misc) 0 |
| | 3.18 | MHF | Finish node type, manhole reference number: MH13 | (Constr) 0 |

0.98 m // 00:00:28

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **1** | **2** | **0.63** | **2** | **3** |

Place :

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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **27** | **X** |


Photo: 28_28_187_A.JPG
0.98m, Settled deposits, coarse, 10% cross-sectional area loss



Place :

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **28** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR1** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH13** |
| Inspection Direction | **MH13 (U/S) BR1** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **0.00 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH13 | | | | |
| BR1 | 0.00 | MH | Start node type, manhole, reference number : MH13 | (Constr) 0 |
| | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | DEE | Attached deposits, encrustation, from 9 to 2 o'clock, 10% cross-sectional area loss | (Serv) 3 |
| | 0.00 | LU | Line deviates up Remarks: SHARP | (Serv) 0 |
| | 0.00 | OCF | Finish node type, other special chamber reference number: BR1 Remarks: BASE OF STACK | (Constr) 0 |

0 m // 00:00:32

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **1** | **2** | **0** | **2** | **3** |

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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **28** | **X** |


Photo: 29_29_193_A.JPG
0m, Attached deposits, encrustation, from 9 to 2 o'clock, 10% cross-sectional area loss



Place :

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **29** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR2** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH13** |
| Inspection Direction | **MH13 (U/S) BR2** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **0.65 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH13 | 0.00 | MH | Start node type, manhole, reference number : MH13 | (Constr) 0 |
| BR2 | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | LU | Line deviates up Remarks: SHARP | (Serv) 0 |
| | 0.65 | OCF | Finish node type, other special chamber reference number: BR2 Remarks: BASE OF STACK | (Constr) 0 |

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **1** |

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **30** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR3** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH13** |
| Inspection Direction | **MH13 (U/S) BR3** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **3.62 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH13 | | | | |
| | 0.00 | MH | Start node type, manhole, reference number : MH13 | (Constr) 0 |
| | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | LL | Line deviates left Remarks: SHARP | (Serv) 0 |
| | 1.31 | LU | Line deviates up Remarks: SLIGHT | (Serv) 0 |
| | 1.97 | LR | Line deviates right Remarks: SLIGHT | (Serv) 0 |
| | 3.62 | DER | Settled deposits, coarse, 10% cross-sectional area loss | (Serv) 3 |
| | 3.62 | SA | Survey abandoned Remarks: DUE TO DEE | (Misc) 0 |

3.62 m // 00:01:27

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **1** | **2** | **0.55** | **2** | **3** |



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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **30** | **X** |


Photo: 31_31_205_A.JPG
3.62m, Settled deposits, coarse, 10% cross-sectional area loss

Place :

*UKDN Waterflow (LG) Ltd*
*Slough*
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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **31** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR5** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH13** |
| Inspection Direction | **MH13 (U/S) BR5** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **3.18 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH13 | 0.00 | MH | Start node type, manhole, reference number : MH13 | (Constr) 0 |
| BR5 | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 0.00 | LL | Line deviates left Remarks: SLIGHT | (Serv) 0 |
| | 0.00 | LU | Line deviates up Remarks: SLIGHT | (Serv) 0 |
| | 2.85 | CC | Crack, circumferential, from 9 to 3 o'clock | (Struct) 2 |
| | 3.18 | LU | Line deviates up Remarks: SHARP | (Serv) 0 |
| | 3.18 | OCF | Finish node type, other special chamber reference number: BR5 Remarks: BASE OF STACK | (Constr) 0 |

2.85 m // 00:01:29

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **1** | **10** | **3.14** | **10** | **2** | **0** | **0** | **0** | **0** | **1** |



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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **31** | **X** |


Photo: 32_32_211_A.JPG
2.85m, Crack, circumferential, from 9 to 3 o'clock

Place :

*UKDN Waterflow (LG) Ltd*
*Slough*
*Street : Berkshire*
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*Fax:*
*Email: ts.sales@ukdnwaterflow.co.uk*

# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **32** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **MH13** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MAIN RUN** |
| Inspection Direction | **MH13 (D/S) MAIN RUN** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Vitrified clay** |
| Total length : | **7.69 m** | Lining : | |

Comment :

| 1:500 | Position | | Code | Observation | Grade |
|---|---|---|---|---|---|
| MH13 | 0.00 | | MH | Start node type, manhole, reference number : MH13 | (Constr) 0 |
| | 0.00 | | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| MAIN RUN | 0.00 | | REM | General remark Remarks: REAR OF TRAP | (Misc) 0 |
| | 0.54 | **S01** | DEE | Attached deposits, encrustation, from 4 to 7 o'clock, 10% cross-sectional area loss, Start | (Serv) 3 |
| | 0.87 | | CC | Crack, circumferential, from 2 to 5 o'clock | (Struct) 2 |
| | 0.87 | | CC | Crack, circumferential, from 7 to 10 o'clock | (Struct) 2 |
| | 5.71 | | LR | Line deviates right Remarks: SLIGHT | (Serv) 0 |
| | 5.71 | | LD | Line deviates down Remarks: SHARP | (Serv) 0 |
| | 6.26 | | DEE | Attached deposits, encrustation, from 4 to 6 o'clock, 20% cross-sectional area loss | (Serv) 4 |
| | 7.25 | | LL | Line deviates left Remarks: SHARP | (Serv) 0 |
| | 7.69 | **F01** | DEE | Attached deposits, encrustation, from 4 to 7 o'clock, 10% cross-sectional area loss, End | (Serv) 3 |
| | 7.69 | | BRF | Finish node type, major connection without manhole reference number: MAIN RUN Remarks: JOINS MAIN SEWER | (Constr) 0 |

0.87 m // 00:00:57

6.26 m // 00:02:31

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **2** | **20** | **2.6** | **20** | **2** | **2** | **7** | **2.5** | **19.2** | **4** |



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# Inspection pictures

| Place : | Road : | Date : | Section number : | PLR Suffix : |
|---|---|---|---|---|
| **LONDON** | **CAMDEN HIGH STREET** | **08/07/2016** | **32** | **X** |

Photo: 33_33_218_A.JPG
0.87m, Crack, circumferential, from 7 to 10 o'clock

Photo: 33_33_227_A.jpg
6.26m, Attached deposits, encrustation, from 4 to 6 o'clock, 20% cross-sectional area loss

Place :

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# Inspection report

| Date : | Job number : | Weather : | Operator : | Section number : | PLR SUFFIX: |
|---|---|---|---|---|---|
| **08/07/2016** | **45059** | **no rain or snow** | **SP12** | **33** | **X** |
| Weather | Vehicle : | Camera : | Preset : | Cleaned : | Operator : |
| **no rain or snow** | **HV62OKS** | **P330** | | **no** | **SP12** |

| | | | | | |
|---|---|---|---|---|---|
| Place : | **LONDON** | Location details: | | U/S MH : | **BR4** |
| Road : | **CAMDEN HIGH STREET** | Catchment: | | U/S Depth : | |
| Location | **Difficult access** | Tape number : | **1** | D/S MH : | **MH13** |
| Inspection Direction | **MH13 (U/S) BR4** | Pipe Length | 1.00 m | D/S Depth : | |

| | | | |
|---|---|---|---|
| Use: | **Combined** | Pipe shape : | **Circular** |
| Year laid : | **Z** | Pipe size : | **100 mm** |
| Purpose : | **Sample survey to determine asset condition** | Pipe material : | **Cast iron** |
| Total length : | **2.41 m** | Lining : | |

Comment :

| 1:500 | Position | Code | Observation | Grade |
|---|---|---|---|---|
| MH13 | 0.00 | MH | Start node type, manhole, reference number : MH13 | (Constr) 0 |
| BR4 | 0.00 | WL | Water level, 5% of the vertical dimension | (Serv) 0 |
| | 2.41 | MHF | Finish node type, manhole reference number: BR4 Remarks: MH14 UTL | (Constr) 0 |

| Structural Defects | | | | | Constructional Features | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Service Defects | | | | | Miscellaneous Features | | | | |
| STR no def | STR peak | STR mean | STR total | STR grade | SER no def | SER peak | SER mean | SER total | SER grade |
| **0** | **0** | **0** | **0** | **1** | **0** | **0** | **0** | **0** | **1** |



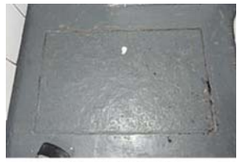

MH 4 UTR.JPG


MH 6 UTR.JPG


MH 7.JPG


MH 8 UTR.JPG


MH 9 UTR.JPG


MH 10 UTR.JPG


MH 12 NO ACCESS.JPG


MH 14 UTL.JPG


PLATE OVER RODDING EYE


ACCESS PANEL TO MH 3.JPG


DSCF1074.JPG


LOCATION MH 2 UTL (2).JPG


LOCATION MH 2 UTL.JPG


MH 3.JPG

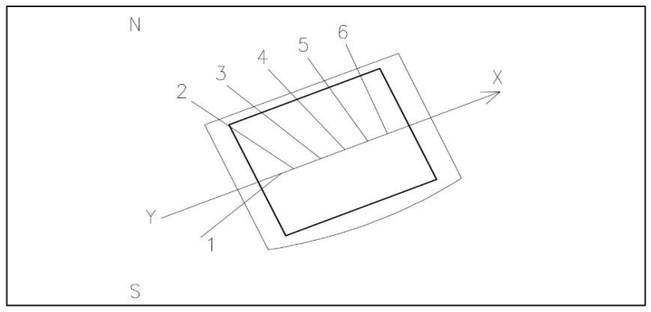
| **Location** | *Gents underground toilets* | Date | *6-Jul-2016* |
|---|---|---|---|
| Manhole number | *MH3* | | |
| Type | *MH* | | |
| Cover shape | *RE* | Material *CI* | |
| Cover Duty | *M* | | |
| Cover Size | *660x700* | Clear opening | *610x650* |
| Cover Condition | *Good* | | |
| Shaft type | *NA* | Size of Shaft | |
| Access | *No step irons* | Access ok | *Y* |
| Entry type | *Manhole* | Chamber size | *770x1500* |
| Chamber material | *BR* | Other material | |
| Chamber condition | *2* | | |
| Silt *Y* | Surcharged *N* | Infiltration *N* | Toxic *N* Rats *N* |
| Benching Condition | *2* | | |
| Channel Condition | *2* | | |
| Step irons/ladder | *N/A* | Cover Level | |
| Sewer type | *CO* | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | *1.260* | *100* | *VC* | | CI |
| Pipe 2 | | *1.360* | *100* | *VC* | | CI |
| Pipe 3 | | *1.360* | *100* | *VC* | | CI |
| Pipe 4 | | *1.350* | *100* | *VC* | | CI |
| Pipe 5 | | *1.350* | *100* | *VC* | | CI |
| Pipe 6 | | *1.34* | *100* | *VC* | | CI |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | *1.45* | *150* | *VC* | | CI |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | *1.46* | *150* | *VC* | | CI |

Photos
Internal
Cover

Comments

Drawing



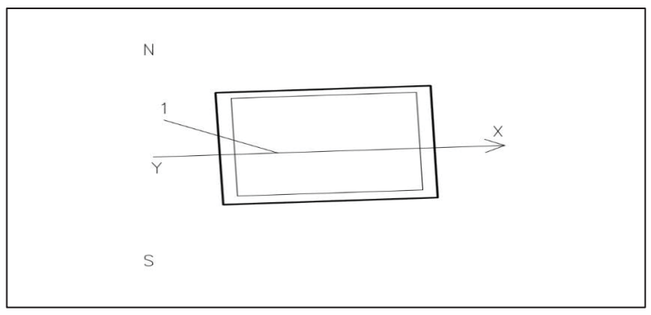

| Location | Other Gents underground toilets | Date | 6-Jul-2016 |
|---|---|---|---|
| Manhole number | MH5 | | |
| Type | MH | | |
| Cover shape | RE | Material | CI |
| Cover Duty | M | | |
| Cover Size | 590x750 | Clear opening | 460x660 |
| Cover Condition | Good | | |
| Shaft type | NA | Size of Shaft | |
| Access | No step irons | Access ok | Y |
| Entry type | Manhole | Chamber size | 460x660 |
| Chamber material | PC | Other material | |
| Chamber condition | 2 | | |
| Silt N | Surcharged N | Infiltration N | Toxic N | Rats N |
| Benching Condition | 2 | | |
| Channel Condition | 2 | | |
| Step irons/ladder | N/A | Cover Level | |
| Sewer type | CO | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | 0.130 | 100 | VC | | CI |
| Pipe 2 | | | | | | |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | 0.21 | 100 | VC | | CI |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | 0.21 | 100 | VC | MH4 | CI |

Photos
Internal
Cover

Comments

Drawing



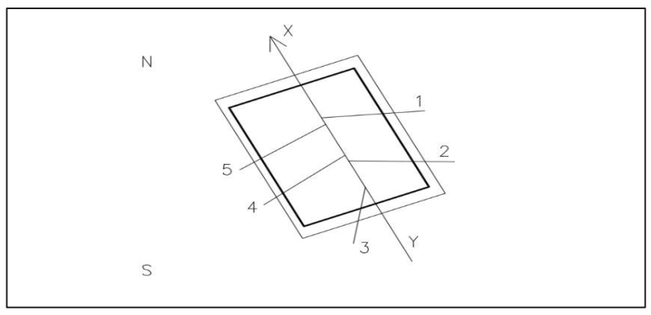

| Location | Cleaners Cubord underground | | Date | 6-Jul-2016 |
|---|---|---|---|---|
| Manhole number | MH7 | | | |
| Type | MH | | | |
| Cover shape | RE | | Material | CI |
| Cover Duty | M | | | |
| Cover Size | 650x790 | | Clear opening | 640x780 |
| Cover Condition | Good | | | |
| Shaft type | BR | | Size of Shaft | 640x780 |
| Access | No step irons | | Access ok | Y |
| Entry type | Manhole | | Chamber size | 650x800 |
| Chamber material | BR | | Other material | |
| Chamber condition | 2 | | | |
| Silt N | Surcharged N | Infiltration N | Toxic N | Rats N |
| Benching Condition | 2 | | | |
| Channel Condition | 2 | | | |
| Step irons/ladder | N/A | | Cover Level | |
| Sewer type | CO | | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | 1.260 | 150 | VC | | CI |
| Pipe 2 | | 1.260 | 150 | VC | | CI |
| Pipe 3 | | 1.260 | 100 | VC | | CI |
| Pipe 4 | | 1.260 | 150 | VC | | CI |
| Pipe 5 | | 1.260 | 150 | VC | | CI |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | 1.52 | 150 | VC | | CI |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | 1.52 | 150 | VC | | CI |

Photos
Internal
Cover

Comments

Drawing

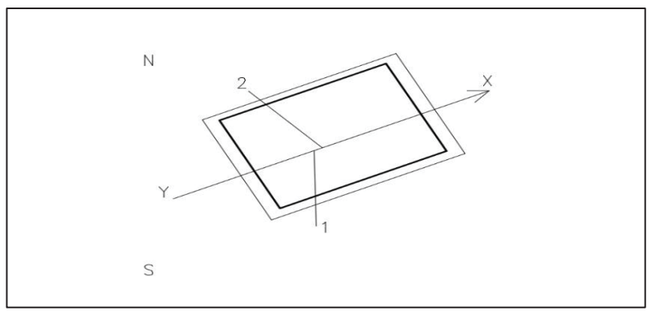



| **Location** | *Public path* | Date | *6-Jul-2016* |
|---|---|---|---|
| Manhole number | *MH1* | | |
| Type | *MH* | | |
| Cover shape | *RE* | Material *CI* | |
| Cover Duty | *M* | | |
| Cover Size | *500x660* | Clear opening | *460x600* |
| Cover Condition | *Poor/broken* | | |
| Shaft type | *Concrete* | Size of Shaft | *460x600* |
| Access | *No step irons* | Access ok | *Y* |
| Entry type | *Manhole* | Chamber size | *460x710* |
| Chamber material | *PC* | Other material | |
| Chamber condition | *2* | | |
| Silt *N* | Surcharged *N* | Infiltration *N* | Toxic *N* Rats *N* |
| Benching Condition | *2* | | |
| Channel Condition | *2* | | |
| Step irons/ladder | *N/A* | Cover Level | *22.551* |
| Sewer type | *CO* | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | *22.211* | *0.340* | *100* | *VC* | | CI |
| Pipe 2 | *22.211* | *0.340* | *100* | *VC* | | CI |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | *21.261* | *1.29* | *100* | *VC* | *MH2* | CI |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | *21.231* | *1.32* | *100* | *VC* | | CI |

Comments

Drawing




Photos
Internal
Cover

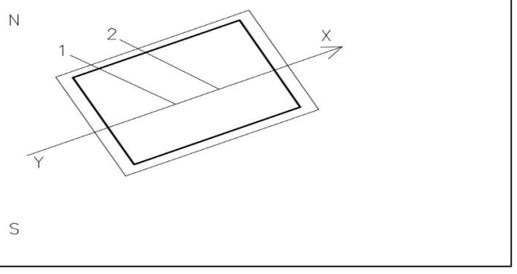
| **Location** | *Pub area* | Date | *8-Jul-2016* |
|---|---|---|---|
| Manhole number | *MH1 1* | | |
| Type | *MH* | | |
| Cover shape | *RE* | Material | *CI* |
| Cover Duty | *M* | | |
| Cover Size | *500x640* | Clear opening | *460x600* |
| Cover Condition | *Good* | | |
| Shaft type | *CO* | Size of Shaft | *462X602* |
| Access | *No step irons* | Access ok | *Y* |
| Entry type | *Manhole* | Chamber size | *630x620* |
| Chamber material | *PC* | Other material | |
| Chamber condition | *2* | | |
| Silt *N* | Surcharged *N* | Infiltration *N* | Toxic *N* Rats *N* |
| Benching Condition | *2* | | |
| Channel Condition | *2* | | |
| Step irons/ladder | *N/A* | Cover Level | |
| Sewer type | *CO* | | |

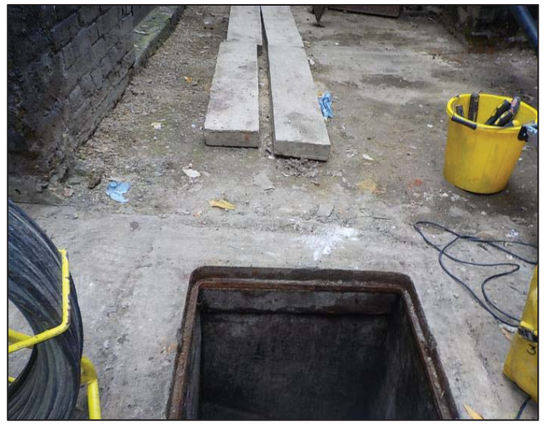
| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | *0.940* | *100* | *VC* | | CI |
| Pipe 2 | | *0.940* | *100* | *VC* | | CI |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | *1.00* | *100* | *VC* | | CI |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | *1.00* | *100* | *VC* | *MH13* | CI |

Photos
Internal
Cover

Comments

Drawing



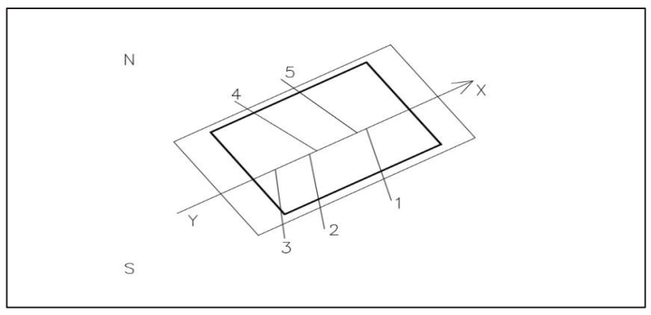
| | | | |
|---|---|---|---|
| **Location** | *Pub area* | Date | *8-Jul-2016* |
| Manhole number | *MH13* | | |
| Type | *MH* | | |
| Cover shape | *RE* | Material *CI* | |
| Cover Duty | *M* | | |
| Cover Size | *520x650* | Clear opening | *460x600* |
| Cover Condition | *Good* | | |
| Shaft type | *Concrete* | Size of Shaft | *480x630* |
| Access | *No step irons* | Access ok | *Y* |
| Entry type | *Manhole* | Chamber size | *500x1200* |
| Chamber material | *PC* | Other material | |
| Chamber condition | *4* | | |
| Silt *N* | Surcharged *N* | Infiltration *N* | Toxic *N* Rats *N* |
| Benching Condition | *3* | | |
| Channel Condition | *3* | | |
| Step irons/ladder | *N/A* | Cover Level | |
| Sewer type | *CO* | | |

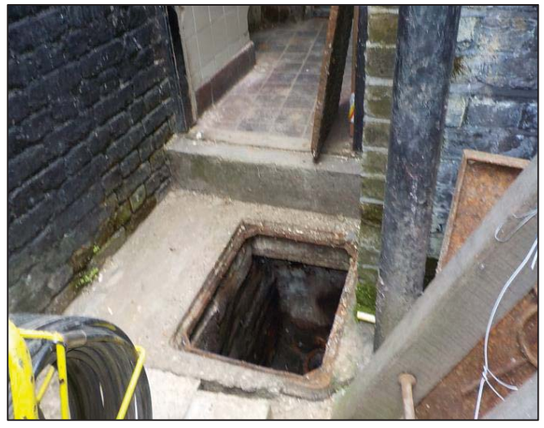
| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | *1.150* | *100* | *VC* | | CI |
| Pipe 2 | | *1.180* | *100* | *VC* | | CI |
| Pipe 3 | | *1.170* | *100* | *VC* | | CI |
| Pipe 4 | | *0.420* | *100* | *VC* | *MH14* | CI |
| Pipe 5 | | *1.180* | *100* | *VC* | | CI |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | *1.32* | *100* | *VC* | *MH11* | CI |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | *1.32* | *100* | *VC* | *MAIN SEWER* | CI |

Photos
Internal
Cover

Comments

Drawing



| **Location** | Gents underground toilets | | | Date | 6-Jul-2016 |
|---|---|---|---|---|---|
| Manhole number | MH4 | | | | |
| Type | OC | | | | |
| Cover shape | RE | | | Material | Ceramic |
| Cover Duty | H | | | | |
| Cover Size | 550x690 | | | Clear opening | |
| Cover Condition | Good | | | | |
| Shaft type | | | | Size of Shaft | |
| Access | | | | Access ok | N |
| Entry type | | | | Chamber size | |
| Chamber material | | | | Other material | |
| Chamber condition | 9 | | | | |
| Silt | N | Surcharged | N | Infiltration | N |
| Toxic | N | Rats | N | | |
| Benching Condition | 9 | | | | |
| Channel Condition | 9 | | | | |
| Step irons/ladder | 9 | | | Cover Level | |
| Sewer type | CO | | | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | | | | | |
| Pipe 2 | | | | | | |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | | | | | |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | | | | | |

Photos
Internal
Cover

Comments Unable to raise

Drawing

| | | | |
|---|---|---|---|
| **Location** | *Stair way* | Date | *6-Jul-2016* |
| Manhole number | *MH6* | | |
| Type | *OC* | | |
| Cover shape | *RE* | Material | *CI* |
| Cover Duty | *M* | | |
| Cover Size | *540x690* | Clear opening | |
| Cover Condition | *Warn* | | |
| Shaft type | | Size of Shaft | |
| Access | *N/A* | Access ok | *N* |
| Entry type | | Chamber size | |
| Chamber material | | Other material | |
| Chamber condition | *9* | | |
| Silt *N* | Surcharged *N* | Infiltration *N* | Toxic *N* | Rats *N* |
| Benching Condition | *9* | | |
| Channel Condition | *9* | | |
| Step irons/ladder | *9* | Cover Level | |
| Sewer type | | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | | | | | |
| Pipe 2 | | | | | | |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | | | | | |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | | | | | |

Photos
Internal
Cover

Comments *Unable to raise*

Drawing

| **Location** | *Ladies Underground toilets* | Date | *6-Jul-2016* |
|---|---|---|---|
| Manhole number | *MH8* | | |
| Type | *OC* | | |
| Cover shape | *RE* | Material | *CI* |
| Cover Duty | *M* | | |
| Cover Size | *530x690* | Clear opening | |
| Cover Condition | *Poor* | | |
| Shaft type | | Size of Shaft | |
| Access | *N/A* | Access ok | *N* |
| Entry type | | Chamber size | |
| Chamber material | | Other material | |
| Chamber condition | *9* | | |
| Silt *N* | Surcharged *N* | Infiltration *N* | Toxic *N* | Rats *N* |
| Benching Condition | *9* | | |
| Channel Condition | *9* | | |
| Step irons/ladder | *9* | Cover Level | |
| Sewer type | *CO* | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | | | | | |
| Pipe 2 | | | | | | |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | | | | | |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | | | | | |

Photos
Internal
Cover

Comments *Unable to raise*

Drawing

| | | | |
|---|---|---|---|
| **Location** | *Workshop Underground toilets* | Date | *7-Jul-2016* |
| Manhole number | *MH9* | | |
| Type | *OC* | | |
| Cover shape | *RE* | Material | *CI* |
| Cover Duty | *M* | | |
| Cover Size | *570x740* | Clear opening | |
| Cover Condition | *Good* | | |
| Shaft type | | Size of Shaft | |
| Access | *N/A* | Access ok | *N* |
| Entry type | | Chamber size | |
| Chamber material | | Other material | |
| Chamber condition | *9* | | |
| Silt *N* | Surcharged *N* | Infiltration *N* | Toxic *N* | Rats *N* |
| Benching Condition | *9* | | |
| Channel Condition | *9* | | |
| Step irons/ladder | *9* | Cover Level | |
| Sewer type | *CO* | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | | | | | |
| Pipe 2 | | | | | | |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | | | | | |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | | | | | |

Photos
Internal
Cover

Comments *Unable to raise*

Drawing


| | | | |
|---|---|---|---|
| **Location** | *Toilet Stairway* | Date | *7-Jul-2016* |
| Manhole number | *MH10* | | |
| Type | *OC* | | |
| Cover shape | *RE* | Material | *CO* |
| Cover Duty | *H* | | |
| Cover Size | *380x610* | Clear opening | |
| Cover Condition | *Poor* | | |
| Shaft type | | Size of Shaft | |
| Access | *N/A* | Access ok | *N* |
| Entry type | | Chamber size | |
| Chamber material | | Other material | |
| Chamber condition | *9* | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Silt | *N* | Surcharged | *N* | Infiltration | *N* | Toxic | *N* | Rats | *N* |

| | | | | | | |
|---|---|---|---|---|---|---|
| Benching Condition | *9* | | | | | |
| Channel Condition | *9* | | | | | |
| Step irons/ladder | *9* | | | Cover Level | | |
| Sewer type | *CO* | | | | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | | | | | |
| Pipe 2 | | | | | | |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | | | | | |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | | | | | |

Photos
Internal
Cover

Comments *Unable to raise*

Drawing

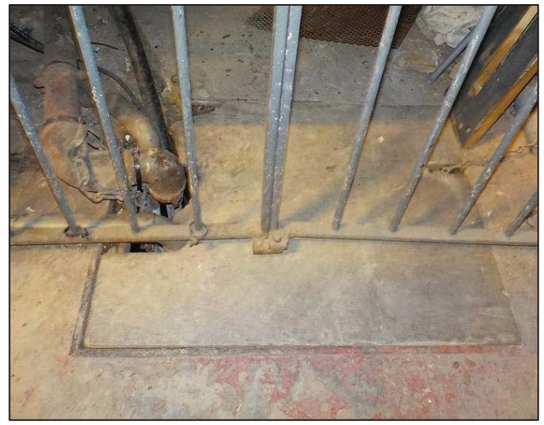
| | | | |
|---|---|---|---|
| **Location** | *Underground* | Date | *8-Jul-2016* |
| Manhole number | *MH12* | | |
| Type | *OC* | | |
| Cover shape | *RE* | Material | *CI* |
| Cover Duty | *M* | | |
| Cover Size | *550x770* | Clear opening | |
| Cover Condition | *Good* | | |
| Shaft type | | Size of Shaft | |
| Access | | Access ok | *N* |
| Entry type | | Chamber size | |
| Chamber material | | Other material | |
| Chamber condition | *9* | | |
| Silt *N* | Surcharged *N* | Infiltration *N* | Toxic *N* Rats *N* |
| Benching Condition | *9* | | |
| Channel Condition | *9* | | |
| Step irons/ladder | *9* | Cover Level | |
| Sewer type | | | |

| | Invert level | Depth | Size | Material | Upstream node | Shape |
|---|---|---|---|---|---|---|
| Pipe 1 | | | | | | |
| Pipe 2 | | | | | | |
| Pipe 3 | | | | | | |
| Pipe 4 | | | | | | |
| Pipe 5 | | | | | | |
| Pipe 6 | | | | | | |
| Pipe 7 | | | | | | |
| Pipe 8 | | | | | | |
| Pipe 9 | | | | | | |
| Main Incoming Pipe | | | | | | |
| Pipe Y | | | | | | |
| Outgoing Pipe | | | | | Downstream node | |
| Pipe X | | | | | | |

Photos
Internal
Cover

Comments *Unable to raise*

Drawing



## ***TERMS AND CONDITIONS***

1 **DEFINITIONS AND INTERPRETATION**
The following definitions apply in these terms and conditions:
**"Conditions"** these terms and conditions.**"Confirmation"** our confirmation of your order attached to these Conditions.
**"Contract"** the Confirmation together with the Conditions.**"Customer"** the person, firm or company who purchases Work from the Supplier.
**"Supplier"** UKDN Limited. **"Work"** the work and services to be provided by the Supplier under the Contract as set out in the Supplier's Confirmation or, (where a Confirmation has not been provided)the quotation.

2 **LIMITATIONS OF THE REPORT**
2.1 It should be noted that the exact layout of the system cannot be confirmed without the exposure of inaccessible branches, connections and all other inaccessible sections.
2.2 A CCTV survey alone should not be a guarantee of water tightness.
2.3 The Report is not a structural survey and must not be construed as such.
2.4 The views expressed in this report are based entirely upon a visual examination of the drainage, supported by information obtained from a drainage CCTV inspection and or a water pressure test.
2.5 The drawing contained within or accompanying the report is not a scaled drawing and is for reference purposes only.
3 **RIGHTS OF ORIGINATOR**
3.1 This report is for the sole use of the customer.
3.1.1 It must not be reproduced or transferred to any other third party without the express written consent of supplier.
3.2 This is a condition report of the drain/sewer at the time and date of the survey being carried out only.
3.3 We reserve the right to amend our opinions in the event of additional information being made available at some future date.
4 **CUSTOMER'S OBLIGATIONS**
4.1 It is the Customer's responsibility to provide the Supplier, in sufficient time, with any information and instructions relating to the Work that is, or are, necessary to enable the Supplier to provide the Work in accordance with the Contract.
4.2 The Customer shall inform the Supplier in writing in good time of any dangerous materials or hazards that may be present on the premises and which could constitute a danger to any person.
4.3 If the Customer fails to provide the information required in clause 4.2 above, or provides the Supplier with incomplete, incorrect or inaccurate information or instructions, the Supplier may:
4.3.1 make an additional charge of a reasonable sum to cover any extra work that is required; or
4.3.2 cancel the Contract by giving written notice to the Customer.
5 **ACCESS**
5.1 The Customer shall provide clear access to all drains, sewers, inspection covers and manholes to enable the Supplier to carry out the Work.
5.2 Where the Customer's drains are shared with third parties, the Supplier will request written permission from the relevant third party(ies). In the event that permission cannot be obtained, the Supplier will have the right to cancel the Contract and shall have no liability to the Customer in respect of any such cancellation.
5.3 The Customer shall obtain permission for the Supplier to proceed over property belonging to third parties and/or to carry out work on property belonging to third parties where this is necessary for the proper execution of the Work.
6 **WATER AND POWER**
6.1 The Customer shall provide all necessary power and a clean water supply from the mains or fire hydrant.
6.2 Where it is necessary for the Supplier to use a metered hydrant and supply controlled by the water authorities, the Supplier will invoice all charges made by that authority to the Customer and the Customer shall pay such charges within 7 days of receipt of the Supplier's invoice.
7 **WORK GUARANTEE**
7.1 Subject to the following provisions of this Condition 7, the Supplier guarantees completed unblock and survey Work for a period of 28 days from the date of completion.
7.2 The Customer shall inspect the Work as far as it is reasonably possible immediately on completion of it and shall as far as reasonably practicable notify the Supplier of any reason for believing that the work carried out by the Supplier is not in accordance with the Contract within seven days of completion.
7.3 If the Customer fails to give such notice the Work shall conclusively be presumed free from any defects which would be apparent on reasonable examination of the Work.
7.4 The Supplier reserves the right not to carry out work requested under the guarantee until the Supplier has been paid. The Supplier also reserves the right to delay or withhold performance of the guarantee where the Supplier has advised the Customer that, although clear, the drains need further work or have a possible fault.
8 **LIMITATION OF LIABILITY - THE CUSTOMER'S ATTENTION IS PARTICULARLY DRAWN TO THE PROVISIONS OF THIS CONDITION**
8.1 The Supplier warrants to the Customer that the Work will be provided using reasonable care and skill and, unless the Supplier is prevented by circumstances beyond its reasonable control, in accordance with the Confirmation.
8.2 The Supplier shall have no liability to the Customer for any loss, damage, costs, expenses or other claims for compensation arising from:
8.2.1 any information or instructions supplied by the Customer which is or are incomplete, incorrect or inaccurate; or
8.2.2 any failure by the Customer to obtain proper access over any property of any third party required in accordance with clause 5; or
8.2.3 any damage or defect caused by any third party.
8.3 The Supplier shall have no liability to the Customer for any loss, damage, costs,expenses or other claims for compensation arising from any indirect or consequential loss, damage or expenses.
8.4 The Supplier's liability in respect of any other loss or damage shall be limited to the price paid by the Customer.
8.5 The Supplier shall not be liable to the Customer by reason of any delay in performing,or any failure to perform, any of its obligations in relation to the Work, if the delay or failure was due to:
8.5.1 any act of God, war, terrorism, power failure, or any other cause beyond the Supplier's reasonable control; or
8.5.2 any risk to health and safety or the environment, however, the Supplier will try to minimise any such problems where reasonably practicable.
8.6 The Supplier will not be liable for any fractured or frozen pipes and cannot guarantee to clear blockages occurring in a frozen pipe or drain.
8.7 Nothing in these Conditions affects any liability for death or personal injury caused by the Supplier's negligence or for fraudulent misrepresentation, or the Customer's statutory rights as a consumer.
9 **DATA PROTECTION**
9.1 The Supplier will use personal information provided by the Customer for the purposes of:
9.1.1 providing the Work;
9.1.2 carrying out marketing and statistical analysis and we may disclose your information to our service providers for these purposes;
9.1.3 informing the Customer by post or telephone about similar products and services provided by the Supplier and/or its related companies.
9.2 The Customer acknowledges and agrees that details of the Customer's name, address and payment record may be submitted to a credit reference agency.
9.3 The Customer can correct any information, or ask for information about the Customer to be deleted, or opt-out of receiving any marketing information by post or by telephone by giving written notice to the Supplier at the address, fax number or email address shown on the Confirmation and/or any customer satisfaction questionnaire provided.
10 **GENERAL**
10.1 If any provision (or part of a provision) of this Contract is found by any court or administrative body of competent jurisdiction to be invalid, unenforceable or illegal, the other provisions will remain in force.
10.2 If any invalid, unenforceable or illegal provision of this Contract would be valid, enforceable or legal if some part of it were changed deleted, that provision will apply with whatever changes are necessary to make the relevant provision valid, enforceable and legal.
10.3 A delay by either party in acting on a breach of this Contract will not prevent the other party from taking action in respect of that breach or any subsequent breach of this contract.
10.4 Nothing in the Contract gives any right to any third party to enforce any provision under the Contract (Rights of Third Parties) Act 1999 or otherwise.
10.5 These Conditions and the Contract will be subject to English law, and the English courts will have jurisdiction in respect of any dispute arising from the Contract.

# Appendix I

Roof Truss Heritage Report (Sinclair Johnston)

**STRUCTURAL ENGINEER'S REPORT**

**ON:**

**DATING OF TRUSSES OVER MAIN AUDITORIUM**

**OF:**

**KOKO (NEE CAMDEN PALACE THEATRE), CAMDEN**

**FOR:**

**JASMEER PATTI**

**J.S. JOHNSTON BSc CEng FICE FIStructE FCONSE - Director**
***An Engineer Accredited in Conservation***
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**8846/SJ/TM** **JULY 2017**

SINCLAIRJOHNSTON

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**2.0 INFORMATION AND REFERENCES**

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B. **LISTING**
**C. CV OF AUTHORS**

**KOKO (NEE CAMDEN PALACE THEATRE), CAMDEN**

## 1.0 INTRODUCTION AND BRIEF

1.1 We were instructed by Jasmeer Patti of Tower Eight to inspect the structures supporting the auditorium of KOKO, originally The Camden Palace theatre, to determine whether they were part of the original construction or later additions.

1.2 Conservation engineers` opinion was requested in support of Planning Application and Listed Building Consent for a wider refurbishment scheme to the building aimed at adding one extra storey to the theatre`s structure and converting adjacent buildings, which are not part of the theatre, to hotel use.

1.3 It is proposed that as part of the redevelopment scheme the filler joist slab over the roof trusses is to be removed to offset the weight of an additional floor, while the trusses will be retained.

1.4 Our brief was agreed in a letter from Sinclair Johnston and Partners to Josephine Roscoe of Stephen Levrant Heritage Architecture dated 8th June 2017. The key element of the brief is as follows:

1.5 *`We need to find out the date of the roof slab and trusses (if they are original, an early retrofit or a later addition)`*

1.6 The inspection was carried out by Tiziana Meciani, Associate Director for Conservation, on Tuesday 11th July 2017.

1.7 The inspection was undertaken from within the ceiling void over the main auditorium, having gained access through a hatch and ladder opening in the south wall.

1.8 The space was scarcely lit and the inspection was carried out using a torch. Only a relatively small area of the ceiling void was accessible due to the presence of technical equipment and limited walkways.

SINCLAIRJOHNSTON

1.9 The area accessed was anyway sufficient to inspect the end of some trusses from touching distance.

1.10 Selected photographs are included at the end of this report.

1.11 This report is produced within the brief and the limitations set out above, and no liability is extended to any third party.

## 2.0 INFORMATION AND REFERENCES

2.1 A Heritage Statement compiled by Stephen Levrant, Heritage Architecture in December 2016 provides key information about the timeline of the building.

2.2 The building, built in 1900 to designs by WGR Sprague, was originally known as the Camden Palace Theatre. This is a grade II listed building in the Camden Town Conservation Area. Originally a theatre, it became a cinema in 1933 and it is now a music venue.

2.3 The listing for this structure can be found in Appendix B.

2.4 A set of original architect's drawings from 1899 by WGR Sprague included in the Heritage Statement show the original design intent for the roof trusses. These were lattice trusses spanning east-west above the auditorium's ceiling, with the east end embedded in an end masonry wall and the west end carried by a truss spanning north-south. Joists spanning over the upper chord of the lattice trusses are shown spanning north-south.

2.5 It is not clear whether the design shown on the architect's drawings was actually built, or a different version was built instead.

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## 3.0 OBSERVATIONS

3.1 The trusses supporting the roof and ceiling of the main auditorium of KOKO are Pratt trusses spanning north to south. The top and bottom chords are channel sections, the vertical posts are I sections and the diagonals are pairs of flats connected to the flanges of the channels with rivets. The trusses' south ends bear on a brick masonry wall on rather slim concrete padstones.

3.2 A filler joist concrete slab is built integral to the top chord of the trusses and steel joists are visible on the soffit. Corrosion of the steel joists is visible, and the concrete slab has exposed aggregates in various areas.

3.3 Trusses and filler joist concrete slab were built at the same time.

3.4 The trusses are marked Glengarnock Steel. The foundry was founded in the 1843 as Glengarnock Iron Works, and later changed name when it was reorganized in 1890 into two separate limited companies, one under the original name of Glengarnock Iron Works and the other the Glengarnock Iron and Steel Co.

3.5 The support from the trusses to the ceiling underneath is through a series of timber hangers and beams sitting on the lower chord of the steel trusses, sometimes directly sitting on the lower chord, others supported on timber blocks packing. The hangers seem to have been inserted at different times as the timbers appear of various sections and species.

3.6 A rectangular area on the east wall has been filled up with concrete, which could be compatible with a redundant truss bearing, as per the original WGR Sprague's drawings showing lattice trusses spanning east-west. The dimension of the infilled area is slightly shallower than the current Pratt trusses and no trace of a padstone can be seen. A similar infilled area could not be seen in a parallel location further north, although poor lighting condition made it difficult to confirm it with sufficient certainty.

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## 4.0 DISCUSSIONS AND CONCLUSIONS

4.1 Although definite archival evidence that the current trusses are replacements of earlier or original trusses could not be found, the appearance of the trusses suggests they are later replacement, likely to be from the 1930s.

4.2 The original architect's design might or might not have been built in 1900 as shown on the archive drawings from 1899, but they show a different design from what can be seen today.

4.3 An infilled opening in the east wall is compatible with the original architect's drawing, although this is no guarantee that the original designs were actually built.

4.4 Riveted trusses were being built until the 1970s, and as such this is not, per se, an indication of date.

4.5 The integral construction of a concrete slab over trusses would be highly unlikely in 1899, and unnecessary given the smaller loading in a theatre compared to those of the later cinema. It is most likely that the concrete slab and Pratt trusses were introduced when the theatre became a cinema to accommodate higher equipment/services load and provide fire proofing against the high temperature caused by a strong beam light.

4.6 Similar trusses and concrete floors can be observed in cinemas from the 1930s, like the Granada Cinema in Walthamstow, Grade II*, where we worked recently.

4.7 The supporting structure to the auditorium ceilings is complex and elements from different phases of construction can be seen. The timber hangers and brackets supporting the ceiling seem to be of different species and sections, and the arrangement of the beams spanning off the main trusses changes from element to element.

4.8 For the current trusses to be replacement of earlier ones though, a swap over of the supporting structure to the auditorium ceiling would have been necessary. This would have likely required temporary propping to the ceiling from underneath, given the difficulty of treading new trusses through pre-existing ones.

4.9 This should have been undertaken while the theatre was close for sufficient time to allow a complex swap over of support structure to the auditorium ceiling.

4.10 There are a few recorded temporary closures between 1909-1945, which would have allowed a roof refitting (1909, 1928, 1930, 1940, and 1945).

4.11 It is our opinion that the existing trusses are either a 1928 or 1930 replacement of the original ones.

**J.S. JOHNSTON BSc CEng FICE FIStructE FCONSE - Director**
***An Engineer Accredited in Conservation***

**TIZIANA MECIANI CEng MEng PhD MICE – Associate Director**

# KOKO (NEE CAMDEN PALACE THEATRE)

## APPENDIX A

## SELECTED PHOTOGRAPHS

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IMG_0069

IMG_0070

IMG_0071

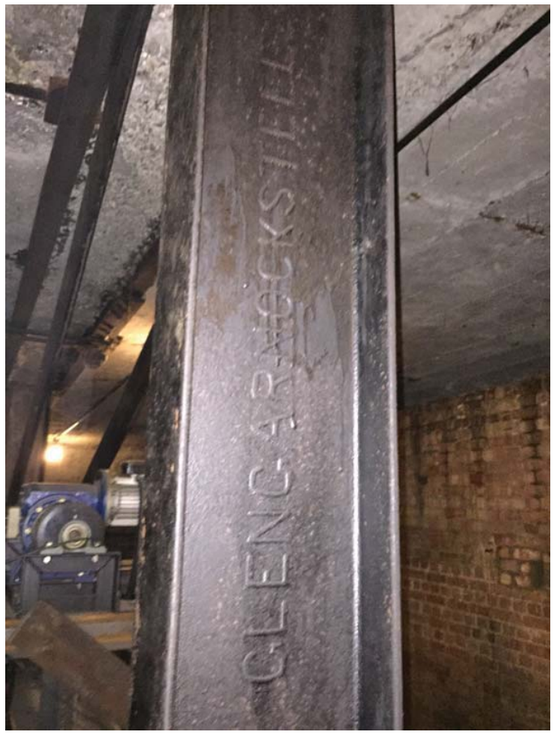

IMG_0072

IMG_0077

IMG_0078

IMG_0073

IMG_0074

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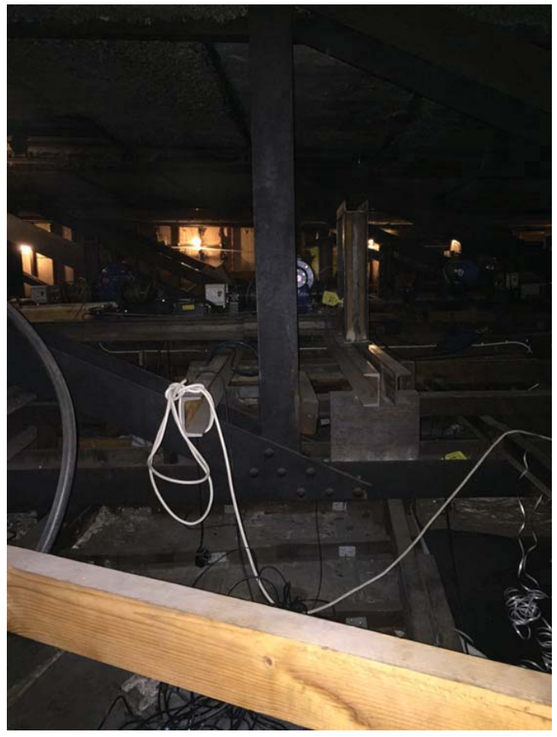

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